

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION**

**In the Matter of:**

**ELECTRONIC 2021 JOINT INTEGRATED )**  
**RESOURCE PLAN OF LOUISVILLE GAS AND )**  
**ELECTRIC COMPANY AND KENTUCKY )** **CASE NO. 2021-00393**  
**UTILITIES COMPANY )**

**RESPONSE OF**  
**LOUISVILLE GAS AND ELECTRIC COMPANY AND**  
**KENTUCKY UTILITIES COMPANY TO**  
**THE COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION**  
**DATED JANUARY 21, 2022**

**FILED: FEBRUARY 11, 2022**

**VERIFICATION**

**COMMONWEALTH OF KENTUCKY )**

**COUNTY OF JEFFERSON )**

The undersigned, **Christopher D. Balmer**, being duly sworn, deposes and says that he is Director – Transmission Strategy and Planning for LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge, and belief.

  
\_\_\_\_\_  
**Christopher D. Balmer**

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 9<sup>th</sup> day of February 2022.

  
\_\_\_\_\_  
Notary Public

Notary Public ID No. 603967

My Commission Expires:

July 11, 2022

VERIFICATION

COMMONWEALTH OF KENTUCKY )  
 )  
COUNTY OF JEFFERSON )

The undersigned, **John Bevington**, being duly sworn, deposes and says that he is Director – Business and Economic Development for LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge, and belief.

*John E. Bevington*  
John Bevington

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 10<sup>th</sup> day of February 2022.

*Judy Schuster*  
Notary Public

Notary Public ID No. 603967

My Commission Expires:

*July 11, 2022*

**VERIFICATION**

**COMMONWEALTH OF KENTUCKY )**  
**)**  
**COUNTY OF JEFFERSON )**

The undersigned, **Robert M. Conroy**, being duly sworn, deposes and says that he is Vice President, State Regulation and Rates, for Kentucky Utilities Company and Louisville Gas and Electric Company and an employee of LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge, and belief.

  
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**Robert M. Conroy**

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 9<sup>th</sup> day of February 2022.

  
\_\_\_\_\_  
Notary Public

Notary Public ID No. 603967

My Commission Expires:

July 11, 2022

VERIFICATION

COMMONWEALTH OF KENTUCKY )  
 )  
COUNTY OF JEFFERSON )

The undersigned, **Eileen L. Saunders**, being duly sworn, deposes and says that she is Vice President, Customer Services for Louisville Gas and Electric Company and Kentucky Utilities Company and an employee of LG&E and KU Services Company, and that she has personal knowledge of the matters set forth in the responses for which she is identified as the witness, and the answers contained therein are true and correct to the best of her information, knowledge, and belief.

  
**Eileen L. Saunders**

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 10th day of February 2022.

  
Notary Public

Notary Public ID No. 603967

My Commission Expires:

July 11, 2022

**VERIFICATION**

**COMMONWEALTH OF KENTUCKY )**  
**)**  
**COUNTY OF JEFFERSON )**

The undersigned, **David S. Sinclair**, being duly sworn, deposes and says that he is Vice President, Energy Supply and Analysis for Kentucky Utilities Company and Louisville Gas and Electric Company and an employee of LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge, and belief.



**David S. Sinclair**

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 10<sup>th</sup> day of February 2022.



Notary Public

Notary Public ID No. 603967

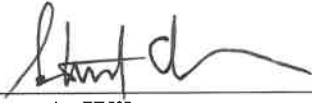
My Commission Expires:

July 11, 2022

**VERIFICATION**

**COMMONWEALTH OF KENTUCKY** )  
 )  
**COUNTY OF JEFFERSON** )

The undersigned, **Stuart A. Wilson**, being duly sworn, deposes and says that he is Director, Energy Planning, Analysis & Forecasting for LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge, and belief.

  
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**Stuart A. Wilson**

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 10<sup>th</sup> day of February 2022.

  
\_\_\_\_\_  
Notary Public

Notary Public ID No. 603967

My Commission Expires:

July 11, 2022


**VERIFICATION**

**COMMONWEALTH OF KENTUCKY    )**  
  )  
**COUNTY OF JEFFERSON            )**

The undersigned, **John K. Wolfe**, being duly sworn, deposes and says that he is Vice President, Electric Distribution for Kentucky Utilities Company and Louisville Gas and Electric Company and an employee of LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge, and belief.

  
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**John K. Wolfe**

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 9<sup>th</sup> day of February 2022.

  
\_\_\_\_\_  
Notary Public  
Notary Public ID No. 603967

My Commission Expires:  
July 14 2022



**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 1**

**Responding Witness: Eileen L. Saunders**

- Q-1. Refer to the IRP, Volume 1, Section 5, Plan Summary, page 1. Explain the metrics and service used to determine the ranking and overall satisfaction of LG&E/KU's customer service, and explain how LG&E/KU works to improve satisfaction in customer service.
- A-1. The Companies use J.D. Power, an independent global leader in consumer insights, advisory services and data and analytics to compile customer satisfaction metrics and rankings for electric residential and business customers.

Customer Satisfaction is measured through key factors that include Power Quality & Reliability, Price, Billing & Payment, Corporate Citizenship, Communications and Customer Care/Customer Contact.

The utilities regularly review the J.D. Power data for opportunities to improve customer satisfaction.

This is the sixth consecutive year that LG&E or KU have won a J.D. Power award. Combined, LG&E and KU have earned 25 J.D. Power electric residential and business awards since 1999.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 2**

**Responding Witness: Stuart A. Wilson**

Q-2. Refer to the IRP, Section 5, Plan Summary, pages 3–4 and Figure 5-5, page 5. Page 3 states that 7,175 MW in 2010 was the highest hourly demand and that an annual peak of 7,114 MW occurred on January 2014. Also, page 4 states that the 7,114 MW was an average, but that the maximum 4-second demand was more than 150 MW higher. This also seems to be evident from Figure 5-5.

- a. Explain how 7,175 MW can be the highest hourly demand if the maximum demand was higher than 7,264 MW from 6:00 to 7:00 p.m. and Figure 5-5 appears to show a 4-second peak of about 7,350 MW in the 5:00 to 6:00 p.m. timeframe on January 6, 2014.
- b. Provide a table showing the annual system peaks, summer peaks and winter peaks beginning with the stated highest hourly demand in year 2010 to the present.
- c. If not explained above, explain why the highest system peak would not be equivalent to the maximum 4-second demand, regardless of season.

A-2.

- a. 7,175 MW is an hourly demand and is computed as the average demand over the hour. A 4-second demand is an instantaneous measure of demand taken every 4 seconds. Despite several 4-second demands greater than 7,264 MW in the hour beginning 5:00 PM on January 6, 2014, the hourly demand for this hour (7,114 MW) was less than 7,175 MW. Unless load is constant during an hour, all hours will have 4-second demands that exceed the hourly demand. In operation, power systems must maintain adequate spinning reserves to reliably serve all moment-to-moment changes in load.
- b. See table below.

Year	Annual System Peak (MW)	Summer Peak (MW)	Winter Peak (MW)
2010	7,175	7,175	6,340
2011	6,756	6,756	6,017
2012	6,856	6,856	5,704
2013	6,434	6,434	5,907
2014	7,114	6,313	7,114
2015	7,079	6,392	7,079
2016	6,458	6,458	6,223
2017	6,503	6,503	5,679
2018	6,699	6,490	6,699
2019	6,278	6,278	6,234
2020	6,069	6,069	5,317
2021	6,123	6,123	5,589

- c. Considering the historical limitations on data storage and processing, system and resource planning utilizes the system demand expressed as an integrated hourly value rather than a maximum instantaneous value.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 3**

**Responding Witness: Stuart A. Wilson**

- Q-3. Refer to the IRP, Volume I, Section 5, Plan Summary, page 8 in which LG&E/KU states that new forecasting approaches are continually evaluated.
- a. Provide a list of these new forecasting approaches and supporting literature summarizing them.
  - b. Explain why the new forecasting approach was not chosen.
- A-3.
- a. With each forecast, the Companies evaluate new approaches to econometric modeling with the goal of improving the forecast models. These approaches include grouping rates with similar drivers together, adjusting the explanatory variables, and adjusting the period of the training data. The Companies participate in an annual forecasting methodology survey by energy consultant Itron and are not aware of anything that would suggest that linear regression is not the most widely accepted econometric model for forecasting monthly billed sales in the industry.
  - b. See the response to part (a).

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 4**

**Responding Witness: John Bevington / Eileen L. Saunders**

- Q-4. Refer to the IRP, Volume I, Section 5, Plan Summary, page 10.
- a. Explain why LG&E/KU did not directly evaluate new demand-side management (DSM) programs for this IRP.
  - b. Explain whether the IRP only identified DSM programs associated with the implementation of AMI.
  - c. Provide the list of programs evaluated that were associated with the implementation of AMI.
  - d. Provide the list of programs evaluated that were not associated with the implementation of AMI.

- A-4.
- a. The Companies did not directly evaluate new DSM programs for this IRP because not doing so was consistent with the Commission's IRP regulation, over 20 years of IRPs filed by the Companies, and the Commission Staff's report on the Companies' 2018 IRP. But that is not to say that the Companies are not actively evaluating current and future DSM and energy-efficiency programs; rather, the Companies are doing just that, which is consistent with the Commission's orders in the Companies' 2020 rate cases.<sup>1</sup> The Companies' analysis and DSM Advisory Group process will use the outputs of the 2021 IRP as inputs to the Companies' next DSM-EE Program Plan.

With regard to why the Companies did not directly evaluate new DSM programs for this IRP, the Commission's IRP regulation requires utilities to "describe and discuss *all options considered* for inclusion in the plan

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<sup>1</sup> Case No. 2020-00349, Order at 61 (Ky. PSC June 30, 2021) ("[T]he Commission will require KU to begin evaluating possible DSM programs that will add low-cost value and assist in avoiding the high cost of building new generation."); Case No. 2020-00350, Order at 65 (Ky. PSC June 30, 2021) ("[T]he Commission will require LG&E to begin evaluating possible DSM programs that will add low-cost value and assist in avoiding the high cost of building new generation.").

including ... [c]onservation and load management or other demand-side programs not already in place,” but it does not direct utilities to conduct an IRP-specific study or analysis of new DSM-EE programs per se.<sup>2</sup> Indeed, the Companies have never conducted such a study or analysis for a previous IRP, and the Commission has not directed them to do so. Notably, the Commission Staff’s report on the Companies’ 2018 IRP did not recommend that the Companies include in their next IRP an analysis of DSM-EE programs the Companies did not have,<sup>3</sup> but rather stated, “The Companies should continue the stakeholder process through the DSM Advisory Group and strive to include recommendations and inputs from the stakeholders.”<sup>4</sup> The report further states that “Staff encourages LG&E/KU to continue exploring cost-effective DSM-EE as a method to avoid costly capital investments should energy margins diminish over time.”<sup>5</sup> The Companies have done and are doing precisely those things, which do not involve directly evaluating new DSM programs in an IRP.

Although the Companies do not specifically analyze new or currently unused DSM-EE programs for their IRPs, their IRPs do provide valuable inputs to the analyses that support the Companies’ DSM-EE program plan filings. In this IRP, the Companies show they do not have a capacity need until 2028. Also, this IRP identifies the types of resources the Companies could potentially eliminate or defer through future DSM-EE programs. For example, the resource expansion plan for the base load, base fuel price case in this IRP includes new simple-cycle combustion turbines and battery storage for integrating renewables and serving peak load, particularly in the winter. As discussed on page 23 of the Companies’ Long-Term Resource Planning Analysis (Volume III), successful deployment of new DSM-EE programs could reduce or defer the need for these resources. The timing of the Companies’ need for capacity and the costs of the likely supply-side resources this IRP identifies are direct and necessary inputs to the Companies’ cost-benefit analyses of future DSM-EE program plans.

With information from this IRP and data associated with the implementation of AMI, the Companies plan to evaluate new DSM programs as an alternative to new generation resources for meeting their 2028 capacity need. A proactive and thorough DSM program review is underway, which has included multiple collaboration meetings with the DSM Advisory Group, as well as a recently completed Demand Response Potential Study. Also, the Companies will be submitting a filing in the first half of 2022 to request an increase to the budget for the Non-Residential Rebate Program due to higher than expected program participation.

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<sup>2</sup> 807 KAR 5:058 Sec. 8(2)(b) (emphasis added).

<sup>3</sup> See Case No. 2018-00348, Order Appx. at 22-23 (Ky. PSC July 20, 2020).

<sup>4</sup> *Id.* at 22.

<sup>5</sup> *Id.* at 23.

Therefore, the Companies' 2021 IRP is fully consistent with the Commission's IRP regulation, prior practice, and Commission Staff recommendations regarding DSM-EE programs the Companies are not currently deploying. Moreover, the Companies are actively analyzing and working to pursue additional funding for current DSM-EE programs, as well as a future DSM-EE Program Plan filing.

- b. The Companies did not identify specific DSM programs for this IRP. Future analysis of DSM programs will consider a range of programs, including those not associated with the implementation of AMI.
- c. The Companies did not evaluate specific DSM programs for this IRP.
- d. The Companies did not evaluate specific DSM programs for this IRP.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 5**

**Responding Witness: John Bevington / Eileen L. Saunders**

Q-5. Refer to the IRP, Volume I, Section 5, Plan Summary, page 11. LG&E/KU have experience with and have implemented multiple prior DSM programs that did not rely on AMI.

- a. Explain why LG&E/KU are ignoring what were previously cost-effective and viable DSM programs in its resource screening analyses.
- b. Explain why those DSM programs that are not necessarily dependent upon AMI would not be cost-effective today and going forward.

A-5.

- a. See the response to Question No. 4. The Companies are not ignoring what were previously cost-effective and viable DSM programs; rather, as explained in the response Question No. 4(a), the Companies' 2021 IRP is fully consistent with the Commission's IRP regulation, prior practice, and Commission Staff recommendations regarding DSM-EE programs the Companies are not currently deploying. Moreover, the Companies are actively analyzing and working to pursue additional funding for current DSM-EE programs, as well as a future DSM-EE Program Plan filing.

In addition, the Commission's final order in the Companies' most recent DSM-EE Program Plan case stated, "In making our findings in this case, the Commission recognizes that, unlike prior LG&E/KU DSM cases in which the utilities were projecting capacity shortfalls which resulted in a positive avoided capacity cost, they now have a capacity surplus of approximately 100 MW, resulting in an avoided capacity cost of zero."<sup>6</sup> The Commission therefore approved a smaller portfolio of DSM-EE programs than the Companies had had for a number of years. But the results of the current IRP, including an anticipated capacity need in 2028, could cause previously deployed programs to become cost-effective again. The Companies are currently analyzing those and other potential programs to begin deployment

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<sup>6</sup> Case No. 2017-00441, Order at 26 (Ky. PSC Oct. 5, 2018).



no later than the end of the current DSM-EE Program Plan, which concludes at the end of 2025.

- b. See the response to part (a).

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff’s First Request for Information**

Dated January 21, 2022

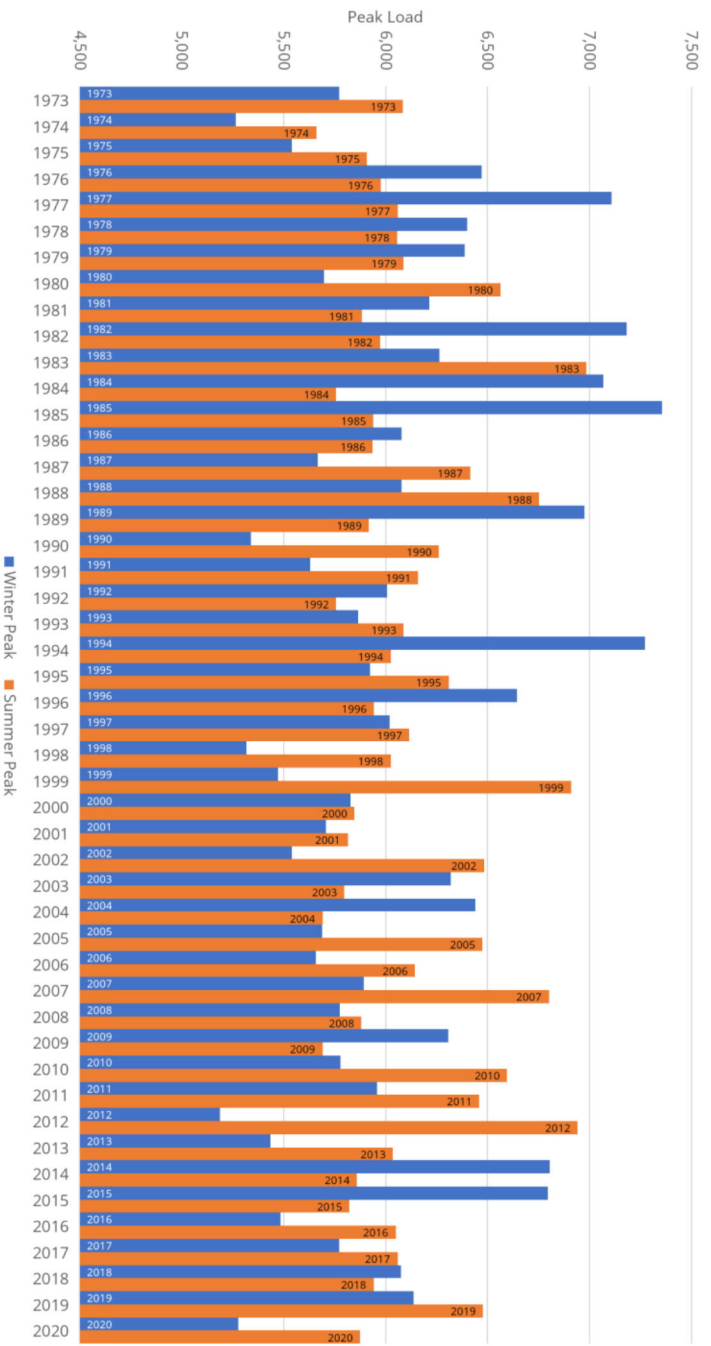
Case No. 2021-00393

Question No. 6

**Responding Witness: Stuart A. Wilson**

Q-6. Refer to the IRP, Volume I, Section 5, Plan Summary, Figure 5-10, page 17. Provide an updated Figure showing the peaks in chronological order.

A-6. See the figure below. Like in Figure 5-10, all summer and winter peak demand forecast values are for calendar year 2025. There is no chronological order. The values are sorted by the “weather years” on which the forecasted values are based. See Volume II, Electric Sales and Demand Forecast Process, Section 4.8.



**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 7**

**Responding Witness: John Bevington / Eileen L. Saunders / Stuart A. Wilson**

- Q-7. Refer to the IRP, Volume I, Section 5, Plan Summary, Table 5-6, and footnote, page 21. Explain the expected additional load from the Ford vehicle battery plants and provide an update to Table 5-6.
  
- A-7. See attachment being provided in Excel format. Certain information requested is confidential and proprietary and is being provided under seal pursuant to a petition for confidential protection.

The attachment is being provided in a separate file in Excel format.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 8**

**Responding Witness: David S. Sinclair**

- Q-8. Refer to the IRP, Volume I, Section 5, Plan Summary, page 20. Recent IRPs from other Kentucky-based electric companies have presumed a carbon tax in the future for their analyses. Identify and explain each basis for LG&E/KU's determination that a carbon tax is unlikely.
- A-8. The basis for the Companies' assumption regarding CO<sub>2</sub> that was used in the IRP is fully explained on page 5-20 of the IRP, Volume I, Section 5, Plan Summary.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 9**

**Responding Witness: David S. Sinclair**

- Q-9. Provide an estimate for a CO<sub>2</sub> price LG&E/KU contend would be most reasonable, explain why LG&E/KU contend that price represents the most reasonable estimate of a CO<sub>2</sub> price, and explain any issues or uncertainties with such an estimated CO<sub>2</sub> price
- A-9. The reasonableness of a given CO<sub>2</sub> price necessarily depends on public policy, and more precisely the goals public policy seeks to achieve. For example, a reasonable CO<sub>2</sub> price to compensate for environmental impacts of CO<sub>2</sub> emissions could differ—perhaps significantly—from a CO<sub>2</sub> price intended to incentivize a certain limited level of CO<sub>2</sub> emissions, which in turn could differ from a market-based CO<sub>2</sub> price in a cap-and-trade regime designed to meet certain policy objectives. Therefore, without a specified public policy goal to achieve, it is not possible to state whether a given CO<sub>2</sub> price is reasonable. This is particularly true for the Companies, which do not set public policy concerning CO<sub>2</sub>, but rather are governed by public policy as it becomes applicable law.

More concretely, the Companies are not presently subject to CO<sub>2</sub> pricing or constraints on their current operations. Therefore, the most reasonable CO<sub>2</sub> price for the Companies is currently \$0.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 10**

**Responding Witness: Stuart A. Wilson**

- Q-10. Refer to the IRP, Volume I, Section 5, Plan Summary, page 24. Provide the supporting calculations for the class-specific price elasticity estimates for each class.
- A-10. Consistent with recent filings, price elasticities are used in residential and commercial end use models and are provided by energy consultant Itron. See attachments 1 and 2 to the response to Question No. 40b.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 11**

**Responding Witness: Stuart A. Wilson**

- Q-11. Refer to the IRP, Volume I, Section 5, Plan Summary, Figure 5-11, page 26.
- a. Confirm that the vertical axis represent GWh.
  - b. The historical trend shows decreasing industrial sales. Explain how LG&E/KU can forecast a jump in sales and then have to forecast remain relatively flat
- A-11.
- a. Confirmed.
  - b. Sales dropped significantly in 2020 due to shutdowns and reduced operations from COVID-19. As discussed in Volume I on page 5-25, industrial sales are forecasted to recover through 2022 and then decline slightly thereafter despite continued economic growth as efficiency improvements offset production increases.



**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 12**

**Responding Witness: Stuart A. Wilson**

- Q-12. Refer to the IRP, Volume I, Section 5, Plan Summary, page 26. With efficiency improvements lowering the forecasted use per customer and offsetting in usage gains achieved from increased customers, explain whether the increased use of home offices that has occurred since the COVID-19 pandemic and the increased use of home electronics is modeled and, if so, why it does not contribute to increased usage.
- A-12. In 2020, the increase in residential use-per-customer from more customers working from home was greater in the summer and winter months than in the shoulder months where sales are less sensitive to weather. The residential forecasts were developed with the assumption that residential use-per-customer would return to normal levels after May 2021. Residential use-per-customer did return to normal levels in July through October 2021 but was higher than forecast in November and December, presumably due to the increase in cases from the Omicron variant of COVID-19.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 13**

**Responding Witness: Stuart A. Wilson**

- Q-13. Refer to the IRP, Volume I, Section 5, Plan Summary, page 26.
- a. Identify the company-sponsored DSM-EE programs modeled.
  - b. Explain what “accelerated efficiency gains” as used on Section 5, page 26 refers to.
- A-13.
- a. Company-sponsored DSM-EE programs are not modeled explicitly. Energy efficiency improvements from DSM programs and customer-initiated actions are included in the historical data used to specify the Companies’ load forecast models. The load forecast implicitly assumes these efficiency improvements will continue throughout the IRP analysis period. As discussed on page 5-26 of Volume I, by 2036, energy efficiency improvements in the base forecast reduce residential and commercial sales by over 6 percent compared to a case where end-use efficiencies are assumed to remain unchanged.
  - b. In the base load forecast, end-use efficiencies are assumed to improve over time. In the low load forecast, end-use efficiencies are assumed to improve at a faster or “accelerated” rate. Specifically, end-uses in the low load forecast are assumed to become as efficient in 2035 as they are projected to become in 2050 in the base forecast.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 14**

**Responding Witness: Stuart A. Wilson**

- Q-14. Refer to the IRP, Volume I, Section 5, Plan Summary, pages 21 and 27.
- a. Explain why the generation cost forecast is based upon moderate case forecast from NREL's 2021 ATB, but the distributed generation forecast is based upon NREL's 2020 ATB.
  - b. Provide an updated distributed generation forecast based upon the 2021 ATB, and explain whether and, if so, how this updated forecast makes a difference in Tables 5-9 and 5-10 on page 28.
  - c. Provide a table showing the effects of the updated distributed generation on forecasted demand.
- A-14.
- a. NREL's 2021 ATB was published in July 2021 and was not available in June 2021 when the Companies' load forecast was completed. Resource expansion plans were developed after July 2021 and were based on the 2021 ATB so that technology costs in the IRP would reflect NREL's most recently published cost estimates.
  - b. The table below compares the updated forecast to the original forecast.

Updated Distributed Generation Forecast Based on 2021 ATB (annual average installed capacity in MW)

Year	Base Case with 2021 ATB	Base Case with 2020 ATB
2021	18	18
2022	22	22
2023	24	24
2024	28	27
2025	36	33
2026	54	46
2027	73	67
2028	78	75
2029	83	81
2030	83	83
2031	84	84
2032	85	85
2033	85	85
2034	86	86
2035	86	86
2036	87	87

The values in Tables 5-9 and 5-10 are developed as a function NREL's assumptions for private solar and not the distributed generation forecast. Updated versions of Tables 5-9 and 5-10 based on the 2021 ATB are included below.

Updated Table 5-9 Based on 2021 ATB: Cost of Private Solar in 2022 and 2030

Installation year	ITC	Capital cost (\$/kW, nominal)	Annual O&M (\$/kW-year, nominal)	LCOE (\$/kWh)
2022	26%	2,514	27.42	0.0918
	0%	2,514	27.42	0.1242
2030	26%	1,248	16.70	0.0514
	0%	1,248	16.70	0.0644

Updated Table 5-9 Based on 2021 ATB: \$/kWh Needed for Energy Exported to Grid to Meet Total Project Cost

	2022	2030	
Percent pushed to grid	26% ITC	26% ITC	No ITC
20%	0.0621	-0.2161	-0.1513
30%	0.0771	-0.1046	-0.0615
40%	0.0846	-0.0489	-0.0165
50%	0.0891	-0.0154	0.0104
60%	0.0921	0.0068	0.0284
70%	0.0943	0.0228	0.0413
80%	0.0959	0.0347	0.0509
90%	0.0971	0.0440	0.0584

- c. See table below comparing distributed generation at the time of the forecasted annual hourly peak. There are minimal differences in the forecasted peak hour.

Year	Original Peak (MW)	New Peak (MW)	Distributed Generation Capacity at Time of Peak (MW) - Original	Distributed Generation Capacity at Time of Peak (MW) - Updated	Distributed Generation Difference (MW)
2022	6,229	6,228	14	14	0
2023	6,201	6,200	16	16	0
2024	6,179	6,179	10	11	0
2025	6,150	6,148	23	25	-2
2026	6,113	6,107	31	36	-5
2027	6,088	6,088	34	34	0
2028	6,067	6,065	51	53	-2
2029	6,055	6,055	54	54	0
2030	6,056	6,056	30	30	0
2031	6,033	6,033	56	56	0
2032	6,035	6,035	38	38	0
2033	6,029	6,029	55	55	0
2034	6,020	6,020	58	58	0
2035	6,023	6,023	57	57	0
2036	6,026	6,026	58	58	0

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 15**

**Responding Witness: Robert M. Conroy / David S. Sinclair**

Q-15. Refer to the IRP, Volume I, Section 5, Plan Summary, page 29.

- a. Explain whether LG&E is aware of any pending or proposed legislation that would remove the 1 percent cap on total installed net metering capacity. If not, explain LG&E/KU's basis for this assumption.
- b. Confirm that the base and low forecasts shown in Table 5-13 assume that the 1 percent cap remains in place.

A-15.

- a. As of the date of the preparation of this response, the Companies are not aware of any currently pending or proposed state or federal legislation that would remove the 1 percent cap on total installed net metering capacity established in KRS 278.466(1).

The Companies assume this request refers to the following statement in IRP Volume I at page 5-29: "In the high scenario, a new federal law is assumed to eliminate the 1% cap on total installed net metering capacity." The Companies made this statement solely as a basis for removing the cap for analytical purposes in the high net metering scenario, not because the Companies knew of or anticipated such a law.

- b. Confirmed.

**LOUISVILLE GAS AND ELECTRIC COMPANY**  
**KENTUCKY UTILITIES COMPANY**

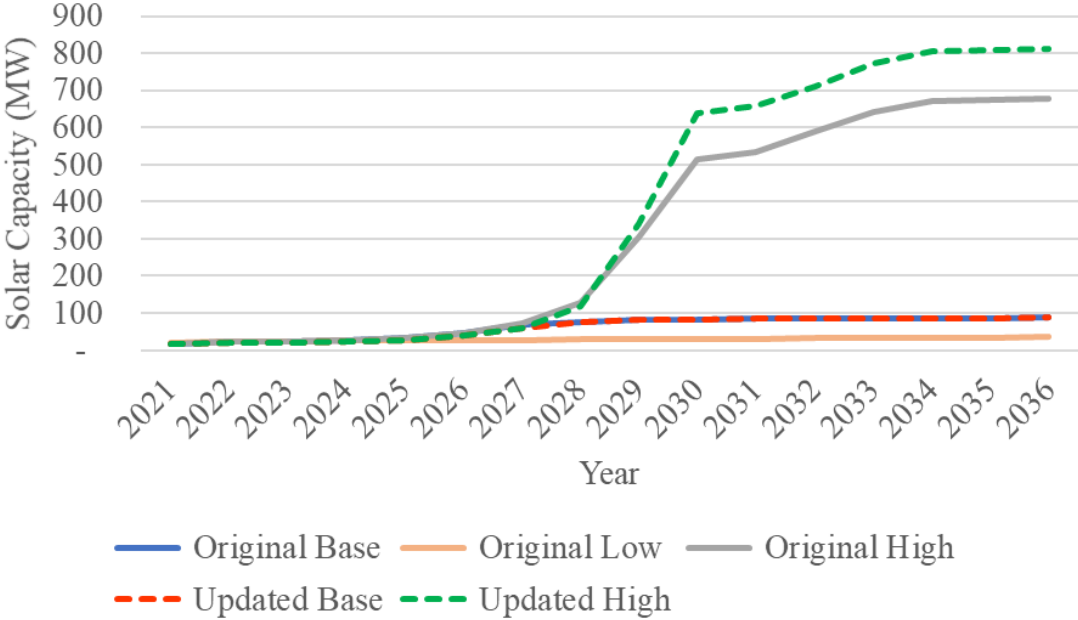
**Response to Commission Staff’s First Request for Information**  
**Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 16**

**Responding Witness: Stuart A. Wilson**

- Q-16. Refer to the IRP, Volume I, Section 5, Plan Summary, Figure 5-13 and footnote 33, page 29. Provide an updated Figure 5-13 based on the September 24, 2021 Order concerning LG&E/KU’s NMS-2 compensation rates and netting interval for new net metering customers, and provide a table showing the data points used in the updated Figure 5-13.
  
- A-16. In the updated version of Figure 5-13 below, the updated distributed solar generation forecasts reflect the NMS-2 compensation rates, the netting interval for new net metering customers reflected in the Companies’ current NMS-2 tariff sheets, and inputs from the 2021 NREL ATB. The table below contains the data used in the figure.



Year	Updated Base Case (MW)	Original Base Case (MW)	Updated High Case (MW)	Original High Case (MW)	Original Low Case (MW)
2021	18	18	18	18	20
2022	20	22	20	22	23
2023	20	24	20	24	24
2024	23	27	23	27	25
2025	28	33	28	33	26
2026	38	46	38	46	27
2027	60	67	60	72	27
2028	74	75	118	129	28
2029	81	81	339	304	29
2030	83	83	639	513	30
2031	84	84	659	534	31
2032	85	85	711	588	32
2033	85	85	772	642	33
2034	86	86	805	672	33
2035	86	86	808	674	34
2036	87	87	811	677	35



**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 17**

**Responding Witness: Robert M. Conroy**

- Q-17. Refer to the IRP, Volume I, Section 5, Plan Summary, page 29. Explain whether the term “instantaneous netting of usage and generation” is equivalent to netting over the billing period as reflected in LG&E/KU’s tariffs. If not, provide an updated forecast based upon LG&E/KU’s tariffs.
- A-17. Yes, the term “instantaneous netting of usage and generation” is equivalent to netting over the billing period as reflected in the Companies’ current tariffs filed in response to the November 4, 2021 Orders in Case Nos. 2020-00349 and 2020-00350.

**LOUISVILLE GAS AND ELECTRIC COMPANY**  
**KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information**  
**Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 18**

**Responding Witness: Robert M. Conroy / Eileen L. Saunders / David S. Sinclair /  
John K. Wolfe**

- Q-18. Refer to the IRP, Volume I, Section 5, Plan Summary, page 31 and 32.
- a. Explain what methods LG&E/KU use to encourage electric vehicle charging during off-peak times and what methods they expect to use during the planning period.
  - b. Explain what LG&E/KU could do to offset the possibility of the need for additional peaking capacity due to EV charging.
  - c. Explain whether the expected load profile of EV charging is a function of the type of charger (level) used, if so explain or graphically show the differences in load profiles by charger type, and explain whether LG&E/KU's modeling assumes a uniform or "typical" charger type
  - d. Explain whether and to what extent EV charging load profiles are affected by temperature.
  - e. Explain whether and to what extent a high penetration of EVs can be used to maintain grid stability.

A-18.

- a. There are currently no methods used to encourage EVs to charge during off-peak times outside of the RTOD rates that are utilized by a small number of customers. The winter and summer peak time periods correspond with the time of the day in which the system is most likely to peak. This also happens to be aligned with the most likely residential EV charging times.

During the planning period, the Companies will also propose EV charging rates in accordance with the Commission's June 30, 2021 orders in the Companies' most recent rate cases.

- b. As mentioned in the response to part (a), time of day rates would be one method that the Companies could use.
- c. While the Companies' expected load profile of EV charging (either natural or managed) is not directly a function of the type of charger used, the Companies' EV charging profile is primarily based upon Level 2 home charging. The Companies forecast total monthly sales attributable to EVs and then allocate those monthly sales across hours based upon an assumed weekday and weekend charging profile. Figures 5-17 and 5-18 in Volume I show the natural and managed weekday charging profiles.
- d. See the response to part (c). Temperature is not a consideration in the charging load profiles.
- e. With higher penetrations of EVs, net load changes due to EV charging can become more predictable. This creates a localized benefit to maintain grid stability by limiting large fluctuations in load due to sporadic EV charging activity common among lower penetrations of EVs, especially when high power charging is utilized (DC fast charge).

Commonly referred to as "Smart Charging", managed charging activity for high penetrations of EVs can also provide potential benefits to the electric system, the EV owner, or the charging provider. However, the motivation behind smart charging varies by stakeholder and application. For example, the utility may be interested in mitigating peak system demand or reducing renewable curtailment. Generally, smart charging allows EV charging to shift according to grid load, renewable generation and/or locational conditions; all while continuing to serve the charging needs of EV owners. Smart charging can do this by stopping, delaying or reducing/increasing power levels of charging.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 19**

**Responding Witness: Stuart A. Wilson**

- Q-19. Refer to the IRP, Volume I, Section 5, Plan Summary, page 34.
- a. Provide the basis for the 180 MW growth assumption in industrial load for the high case and removal in the low case.
  - b. Explain why LG&E/KU choose to model a scenario in which electric furnaces in LG&E's territories replace gas furnaces, and explain in detail each basis for LG&E/KU's assumptions regarding the increase in use of electric furnaces in LG&E's service territory.
  - c. Explain the basis for assuming that EVs will account for 50 percent of new car sales by 2030.
- A-19.
- a. The Companies' five largest customers have an average base KVA of approximately 90 MW. The gain or loss of 180 MW represents the gain or loss of two large industrial customers.
  - b. The Companies evaluated this scenario simply to assess the impact of space heating electrification on winter energy requirements and peak demand. KU residential customers have a higher incidence of electric space heating than LG&E residential customers, and ODP has a higher incidence than KU. To model this scenario, the Companies assumed LG&E's residential use-per-customer ("UPC") would approach KU's residential UPC over time and that KU's residential UPC would approach ODP's. Additionally, the Companies assumed that the load shape of the LG&E system would become more like the load shape of the KU/ODP system over time. See discussion on page 5-35 of Volume 1.
  - c. The basis for assuming that EVs will account for 50% of new car sales by 2030 comes from President Biden's stated goal in the summer of 2021.<sup>7</sup>

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<sup>7</sup> <https://www.nytimes.com/2021/08/05/business/biden-electric-vehicles.html>

**LOUISVILLE GAS AND ELECTRIC COMPANY**  
**KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff’s First Request for Information**  
**Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 20**

**Responding Witness: Stuart A. Wilson**

- Q-20. Refer to the IRP, Volume I, Section 5, Plan Summary, footnote 35, page 35. Explain why residential use per customer for KU residential customers is nearly 70 percent higher in January than LG&E residential customers. Include in the response a monthly use per customer comparison between LG&E’s and KU residential customers.
- A-20. Use-per-customer (“UPC”) is higher in January for KU residential customers because there is a higher incidence of electric space heating in the KU service territory (see Table 5-11 and Table 5-12 in Volume I).

See the table below that shows forecasted January calendar period UPC (assuming normal weather) for KU and LG&E.<sup>8</sup>

Year	KU	LG&E	KU vs. LG&E
2022	1,619	960	69%
2023	1,603	952	68%
2024	1,593	946	68%
2025	1,584	939	69%
2026	1,575	932	69%
2027	1,566	925	69%
2028	1,558	918	70%
2029	1,549	911	70%
2030	1,542	905	70%
2031	1,535	900	71%
2032	1,530	897	71%
2033	1,524	893	71%
2034	1,520	891	71%
2035	1,516	889	71%
2036	1,514	888	70%

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<sup>8</sup> KU excludes ODP.

Additionally, see the table below that compares actual January calendar month UPC for KU and LG&E residential customers since 2017.<sup>9</sup> On average over the last 5 years, the UPC differences in January are around 65%. The largest UPC percentage difference between the companies' residential customers was observed in January 2018 at 75%.

Year	KU	LG&E	KU vs. LG&E
2017	1,519	944	61%
2018	1,990	1,135	75%
2019	1,752	1,044	68%
2020	1,446	897	61%
2021	1,667	1,029	62%

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<sup>9</sup> KU excludes ODP.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 21**

**Responding Witness: Stuart A. Wilson**

- Q-21. Refer to the IRP, Volume I, Section 5, Plan Summary, page 39, Footnote 36. Generally describe the historic energy efficiency improvements that have been made to LG&E/KU's existing resources.
- A-21. The Companies have historically worked to maintain unit efficiency through routine cyclic planned outage maintenance. This maintenance work continues to focus on reestablishing expected unit efficiency through monitoring of all plant systems during operation and planning for refurbishment and replacement of components as needed. In evaluating potential major component refurbishment or replacement projects that may impact efficiency, the Companies must balance any potential efficiency benefit associated with the project against both costs and potential implications under the Clean Air Act. Generally speaking, potential efficiency improvement projects are seldom, if ever, justified in consideration of these factors.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 22**

**Responding Witness: Stuart A. Wilson**

- Q-22. Refer to the IRP, Volume I, Section 5, Plan Summary, pages 39–41. Explain whether LG&E/KU evaluated renewable resources outside of the Commonwealth of Kentucky. If so, explain why such resources are not included. If not, explain why such resources are excluded.
- A-22. See Volume III, Resource Screening Analysis, Section 2.2.2 where the Companies compare costs of wind resources located in Kentucky and Indiana. The Kentucky wind option was evaluated in the Long-Term Resource Planning Analysis because it has a lower LCOE compared to Indiana wind. The Companies did not evaluate a solar resource outside of Kentucky. Solar in neighboring states would have a similar capacity factor but the additional cost of transmitting the power to Kentucky would make out-of-state solar more expensive than in-state solar.



**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 23**

**Responding Witness: Stuart A. Wilson**

- Q-23. Refer to the IRP, Volume I, Section 5, Plan Summary, page 40, footnotes 37 and 40. Explain why LG&E/KU modeled both battery storage resources and solar and wind resources in 100 MW increments, as opposed to smaller units.
- A-23. The Companies chose this size as a simplifying assumption for modeling purposes to balance granularity of capacity size with the ability to develop expansion plans across the scenarios presented in a reasonable time frame. Any actual decisions regarding future resources would be based on the alternatives available at the time.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 24**

**Responding Witness: Stuart A. Wilson**

- Q-24. Refer to the IRP, Volume I, Section 5, Plan Summary, Tables 5-13, page 35, and Table 5-14, page 37, and Table 5-18, page 42. Confirm that the forecasts represent LG&E/KU's Kentucky service territories only. If not, provide updates to the Tables with the Kentucky and Virginia service territories broken out separately. Include in the explanation where the FERC Wholesale customers are located and how they impact the forecasts.
- A-24. Not confirmed. The Virginia service territory is included in the tables referenced. Base case sales for the Kentucky and Virginia service territories are broken out separately in Tables 7-19 and 7-23. In these tables, the FERC wholesale customers are labeled "Sales for Resale" and included in the "Total Kentucky" values. Updated versions of Tables 5-13, 5-14, and 5-18 that exclude the Virginia service territory are not available because the Companies do not forecast energy requirements or peak demand for the Kentucky and Virginia service territories separately.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 25**

**Responding Witness: Stuart A. Wilson**

- Q-25. Refer to the IRP, Volume I, Section 5, Plan Summary, Figure 5-20, page 36.
- a. Explain what factors are driving the jump in industrial load beginning in 2026.
  - b. Explain what actions LG&E/KU are assuming will be taken to manage EV charging as assumed in the High scenario.
- A-25.
- a. In the high case, 90 MW (approximately 650 GWh) of industrial load is added in 2024 and 2026. In the low case, this amount of load is assumed to leave the service territory in the same years. See also the response to Question No. 19a.
  - b. The IRP does not contemplate how EV charging will be managed.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 26**

**Responding Witness: Stuart A. Wilson**

- Q-26. Refer to the IRP, Volume I, Section 5, Plan Summary, Tables 5-15 and 5-16, pages 39–40. The list of resource options considered appears to be unnecessarily limited for a long range planning study.
- a. Explain why power purchase agreements (PPAs) were not considered as a resource option.
  - b. The inclusion of capture and sequestration (CCS) in the base resource options as opposed to including it as a sensitivity scenario option skews the study results.
    - (1) Provide support including any published market studies for the assumption that CCS technology is a viable market add-on to fossil-fueled electric generation.
    - (2) Explain how LG&E/KU would dispose of the captured CO<sub>2</sub> and whether the disposal cost was figured into the analysis.
    - (3) Explain the timing of when LG&E/KU realistically expect carbon capture and sequestration (CCS) will be mandated. Include in the explanation an allowance for potential court challenges and an implementation period if LG&E/KU are including those potential actions occurring after a federal mandate.
  - c. Provide the cost characteristics used in the analysis for natural gas combined cycle with CCS (NGCC w/ CCS) and for NGCC without CCS.
  - d. Explain the cost differences between assuming NGCC w/CCS as a resource option as compared to NGCC that has to have CCS added at a later date.
  - e. Explain why LG&E/KU assumed that a CCS mandate would not be applicable to simple cycle combustion turbines (SCCTs) as well as NGCCs.

- f. Explain whether LG&E/KU assumed that all non-dispatchable resources were assumed physically present in its service territory.
- g. Provide the cost characteristics of the solar resources used in the IRP analysis, and explain how these cost characteristics compare to cost of recent solar projects locating in Kentucky, including the expected cost of LG&E/KU 125 MW solar PPA referred in the IRP at Section 5, page 42, footnote 44.
- h. Provide an updated Table 5-15 including NGCC.

A-26.

- a. The Companies evaluated solar and wind as PPAs with a non-escalating energy price and all other resources as company-owned resources. The Companies computed a levelized cost of energy (“LCOE”) for wind and solar using NREL’s cost of capital, which assumes higher levels of debt financing for each technology, and with the assumption that the ITC for solar would be realized in the first year. With these assumptions, which are appropriate for a PPA, the LCOE for solar approaches the cost of the Rhudes Creek PPA in 2031. To align the analysis with the Rhudes Creek price and to evaluate wind and solar on an equal basis, the 2031 LCOE was assumed for wind and solar throughout the analysis period.
- b.
  - (1) The National Renewable Energy Laboratory (NREL) 2021 Annual Technology Baseline includes cost and performance estimates for pulverized coal and natural gas combined cycle (NGCC) generation with carbon capture.<sup>10</sup> Specifically, NREL included a “solvent-based post-combustion carbon capture technology designed to capture 90% of the carbon in the treated flue gas”, which is the system being evaluated by the Companies.
  - (2) According to NREL’s 2021 ATB online documentation, “Operation and maintenance cost estimates for technology options equipped with carbon capture do not include FOM or VOM for management of CO<sub>2</sub> beyond the fence line (i.e., no FOM or VOM associated with transport, use or storage of captured CO<sub>2</sub>).”<sup>11</sup> However, the Companies are actively researching potential carbon dioxide off-take agreements with local chemical commodity manufacturers, use of carbon dioxide in greenhouses to stimulate plant growth, uses for biofuels, as well as geological sequestration options.

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<sup>10</sup> From NREL 2021 ATB, [https://atb.nrel.gov/electricity/2021/fossil\\_energy\\_technologies](https://atb.nrel.gov/electricity/2021/fossil_energy_technologies)

<sup>11</sup> [https://atb.nrel.gov/electricity/2021/fossil\\_energy\\_technologies](https://atb.nrel.gov/electricity/2021/fossil_energy_technologies)

- (3) The Companies do not know if or when CCS for NGCC units will be required, but issuing, finalizing, and completing subsequent legal challenges regarding such regulations typically takes multiple years. The Companies would consider NGCC without CCS a plausible technology option under certain circumstances.
- c. See the response to part (h).
- d. The Companies have not performed this analysis. The NREL 2021 ATB data does not include costs for retrofitting an existing NGCC with CCS. Any actual decisions regarding future resources would be based on the alternatives available at the time.
- e. The Companies assumed SCCTs would be added to integrate renewables reliably and would operate at relatively low capacity factors.
- f. See the response to Question No. 22.
- g. The cost characteristics of solar resources are from NREL's 2021 ATB and are shown in Table 5 of Volume III, Resource Screening Analysis. To align the analysis with the Rhudes Creek price, the 2031 cost of solar was utilized in the Long-Term Resource Planning Analysis throughout the IRP planning period. See attached for a comparison of these prices and the expected price for the 125 MW solar PPA. Certain information requested is confidential and proprietary and is being provided under seal to a petition for confidential protection.

h. The table below shows Table 5-15 including NGCC without CCS, assuming 2022 installation in 2022 dollars, based on NREL’s 2021 ATB.

**Dispatchable Resources (2022 Installation; 2022 Dollars)**

	SCCT	NGCC w/ CCS	NGCC w/o CCS	Battery Storage	
				4-hour	8-hour
Summer Capacity (MW) <sup>12</sup>	220	513	513	1+	1+
Winter Capacity (MW) <sup>Error!</sup> Bookmark not defined.	248	539	539	1+	1+
Heat Rate (MMBtu/MWh) <sup>13</sup>	9.7	7.2	6.4	N/A	N/A
Capital Cost (\$/kW) <sup>Error!</sup> Bookmark not defined.	885	2,304	1,008	1,274	2,300
Fixed O&M (\$/kW-yr) <sup>Error!</sup> Bookmark not defined.	22	69	29	32	58
Firm Gas Cost (\$/kW-yr) <sup>14</sup>	22	22	19	N/A	N/A
Variable O&M (\$/MWh) <sup>Error!</sup> Bookmark not defined.	5.24	6.08	1.85	N/A	N/A
Fuel Cost (\$/MWh)	27.45	20.23	17.98	N/A	N/A

<sup>12</sup> NREL’s 2021 ATB did not specify capacity values. The capacities shown are representative of typical installations. The Companies modeled battery storage resources in 100 MW increments.

<sup>13</sup> Source: NREL’s 2021 ATB (<https://atb.nrel.gov/>). The Companies inflated NREL’s cost forecasts, which were provided in real 2019 dollars, to nominal dollars at 2% annually.

<sup>14</sup> Firm gas transportation costs are based on the cost of firm gas transportation for Cane Run 7 and the Trimble County SCCTs.

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Solar Resource	Price/LCOE (\$/MWh)
Rhudes Creek PPA beginning 2023	27.82
125 MW PPA beginning 2025	
2021 IRP Resource Option	28.05



**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 27**

**Responding Witness: Stuart A. Wilson**

- Q-27. Refer to the IRP, Volume I, Section 5, Plan Summary, page 41. Explain reliability costs and how those costs differ from production costs.
- A-27. Reliability costs result from generation shortages and comprise primarily the cost to customers of unserved energy as well as the cost of power purchases that exceed the Companies' marginal generation cost. Production costs include the Companies' generation cost (fuel and variable O&M) and the cost of other power purchases.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 28**

**Responding Witness: Stuart A. Wilson**

- Q-28. Refer to the IRP, Volume I, Section 5, Plan Summary, Table 5-13, page 35, and Section 6, Table 6-3, page 3. Explain the differences between the 2021 IRP forecasts in these two Tables.
- A-28. Table 6-3 contains the Companies' sales forecast. Table 5-13 contains the Companies' energy requirements forecast. Energy requirements are the sum of sales and losses. Tables 7-19 and 7-20 show a detailed breakdown of sales and losses by company.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 29**

**Responding Witness: Eileen L. Saunders / David S. Sinclair / Stuart A. Wilson**

- Q-29. Refer to the IRP, Volume I, Section 6, Significant Changes, pages 6–8, and the Volume III, 2021 IRP Reserve Margin Analysis (RMA), page 10.
- a. Explain how the Ohio Valley Electric Corporation capacity is included in the Tables 6-5 and 6-6.
  - b. Explain why the Generation Resources amounts in Tables 6-5 and 6-6 do not match the Total Generation Resources amounts in Section 5, Table 5-1, page 6.
  - c. In Tables 6-5 and 6-6, since Mill creek 1 and 2 cannot be run simultaneously in the summer, explain how the lower capacity of Mill Creek is reflected.
  - d. In Table 6-6, confirm that the negative 300 MW in 2025 in the Coal row signifies the retirement of Mill Creek 1 and that the additional negative 709 MW in 2028 signifies the retirement of Mill Creek 2 and Brown 3.
  - e. Explain how Tables 6-5 and 6-6 will change after LG&E/KU account for the additional demand from the new Ford plant and provide updates to these Tables with the inclusion of the new ford plant.
  - f. Explain whether Ford requested or has required that any portion of the capacity or energy supplied to its new plant be supplied by renewable resources. If so, explain the total amount of capacity and energy that will be required for the new plant, when the resources will be required, and the amounts of renewable and non-renewable energy and capacity that will be required.
- A-29.
- a. OVEC's expected output at the time of summer and winter peak (152 MW and 158 MW, respectively) is included in the "Generation Resources" rows in tables 6-5 and 6-6, for summer and winter, respectively.

- b. “Total Generation Resources” in Table 5-1 reflect generation resources as of September 2021 which include Zorn 1 capacity. “Generation Resources” in Tables 6-5 and 6-6 reflect generation resource forecasts starting in 2022 and include the retirement of Zorn 1 on November 30, 2021.
- c. See footnote 52 of IRP, Volume I, Section 6, page 6-7.
- d. See footnote 52 of IRP, Volume I, Section 6, page 6-7.
- e. “Gross Peak Load” and “Net Peak Load” in Tables 6-5 and 6-6 will change with the addition of the demand from the new Ford plant, which will result in changes to “Reserve Margin” and “Reserve Margin %.” See attached. Certain information requested is confidential and proprietary and is being provided under seal pursuant to a petition for confidential protection. These revised tables do not include any additional resources that might be associated with Ford. See the response to part (f).
- f. Ford’s sustainability goals will play a role in how KU delivers energy solutions to the new battery plant(s). The specific profile of capacity and energy for the new plant(s) and any renewable energy solutions Ford requires remains subject to discussions with Ford and the development of Ford’s plans. Ford has publicly stated that they want to begin battery production “mid-decade” with more specific production goals by 2030.

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**Table 6-5: Summer Peak Demand and Resource Summary (MW, 2021 IRP)**

	2022	2023	2024	2025	2028	2034	2035	2036
Gross Peak Load								
Non-Dispatchable DSM	-294	-300	-305	-311	-311	-311	-311	-311
Net Peak Load								
Generation Resources	7,688	7,688	7,688	7,688	7,688	7,688	7,688	7,688
CSR	127	127	127	127	127	127	127	127
DCP	61	60	58	56	52	45	44	43
Retirements/Additions								
Coal <sup>1</sup>	-300	-300	-300	-300	-1,009	-1,969	-1,969	-1,969
Large-Frame SCCTs <sup>2</sup>	0	0	0	0	0	-121	-363	-484
Small-Frame SCCTs <sup>3</sup>	0	0	0	-47	-47	-47	-47	-47
New Solar <sup>4</sup>	0	79	79	204	204	204	204	204
Total Supply	7,576	7,653	7,651	7,728	7,015	5,927	5,684	5,562
Reserve Margin								
Reserve Margin %								

<sup>1</sup> The Companies assume that Mill Creek 1 and 2 cannot be operated simultaneously during ozone season due to NOx limits, which results in a reduction of available summer capacity through 2024. This analysis assumes that Mill Creek 1 is retired in 2024, Mill Creek 2 and Brown 3 are retired in 2028, and Ghent 1-2 are retired in 2034.

<sup>2</sup> This analysis assumes that Brown 9 is retired in 2034, Brown 8 and 10 are retired in 2035, and Brown 11 is retired in 2036.

<sup>3</sup> This analysis assumes that Haefling 1-2 and Paddy's Run 12 are retired in 2025.

<sup>4</sup> This analysis assumes 100 MW of solar capacity is added in 2023, and an additional 160 MW of solar capacity is added in 2025. Capacity values reflect 78.6% expected contribution to summer peak capacity.

**CONFIDENTIAL INFORMATION REDACTED**

**Table 6-6: Summer Peak Demand and Resource Summary (MW, 2021 IRP)**

	2022	2023	2024	2025	2028	2034	2035	2036
Net Peak Load	5,898	5,874	5,859	5,961	6,050	5,979	5,982	5,996
Generation Resources	7,973	7,973	7,973	7,973	7,973	7,973	7,973	7,973
CSR	127	127	127	127	127	127	127	127
DCP	0	0	0	0	0	0	0	0
Retirements/Additions								
Coal <sup>1</sup>	0	0	0	-300	-1,013	-1,978	-1,978	-1,978
Large-Frame SCCTs <sup>2</sup>	0	0	0	0	0	-138	-404	-532
Small-Frame SCCTs <sup>3</sup>	0	0	0	-55	-55	-55	-55	-55
New Solar <sup>5</sup>	0	0	0	0	0	0	0	0
Total Supply	8,100	8,100	8,100	7,744	7,031	5,928	5,662	5,534
Reserve Margin	2,201	2,226	2,240	1,783	982	-50	-320	-461
Reserve Margin %	37.3%	37.9%	38.2%	29.9%	16.2%	-0.8%	-5.3%	-7.7%

<sup>5</sup> This analysis assumes 100 MW of solar capacity is added in 2023, and an additional 160 MW of solar capacity is added in 2025. Capacity values reflect zero expected contribution to winter peak capacity as specified in section 5.(4).

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 30**

**Responding Witness: Stuart A. Wilson**

- Q-30. Refer to the IRP, Volume I, Section 6, Significant Changes, page 1. Provide support for projected load reductions associated with conservation voltage reduction after AMI is fully implemented
- A-30. See attachment being provided in Excel format. See Exhibit LEB-3, Appendix D from Case Nos. 2020-00349 and 2020-00350 for a discussion of CVR potential.<sup>15</sup>

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<sup>15</sup> [https://psc.ky.gov/psccef/2020-00349/rick.lovekamp%40lge-ku.com/11252020084757/10-KU Testimony 1of4%28Thompson Blake Bellar Sinclair Wolfe Saunders%29.pdf](https://psc.ky.gov/psccef/2020-00349/rick.lovekamp%40lge-ku.com/11252020084757/10-KU%20Testimony%20of%20Thompson%20Blake%20Bellar%20Sinclair%20Wolfe%20Saunders%29.pdf). The discussion begins on page 231 of the pdf.

The attachment is being provided in a separate file in Excel format.



**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 31**

**Responding Witness: Stuart A. Wilson**

- Q-31. Refer to the IRP, Volume I, Section 7, Load Forecasts, page 13.
- a. Provide the most recent residential survey results.
  - b. Provide the estimated date of the commercial survey and a sample of what type of questions and information LG&E/KU is intending to gather.
- A-31.
- a. See attached.
  - b. The Companies are interested in gathering information about how commercial and industrial customers approach managing their demand charges as well as how they generally make decisions about their energy use. Some topics of interest include on-going changes in usage due to COVID-19, use of smart thermostats and building automation, actions related to energy efficiency, reduction of billed demands, interest in solar installation, and interest in replacing traditional fleet vehicles with EVs. The Companies plan to complete the survey in 2022.

Online Panel Survey: Heating and Cooling Source Appliance Survey

Internal Client: Tim Jones

Tester Name: \_\_\_\_\_

Testing Completed: \_\_\_\_\_

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**[TEXT TO BE INCORPORATED ON INVITES]** Welcome to the first survey in *Energizing Conversations* forum! Thank you again for agreeing to be a member. We value the opinions of our customers and we're glad that you have agreed to engage with us and provide important feedback. Your input is valuable as we continue to improve the customer experience.

In this survey we would like to learn a little more about the types of different heating and cooling sources and appliances our customers use. Your feedback will help LG&E, KU and ODP better understand the current usage of our customers in order to help meet future energy needs.

This survey should take about 10 minutes of your time. As a reminder, each time you complete a survey, your name will be entered into the monthly sweepstakes drawing to win one (1) of ten (10) Amazon gifts cards worth \$50.

We look forward to hearing from you.

Sincerely,  
Nada Finn  
Senior Market Research Analyst

Having technical problems? Contact [support@energizingconversations.com](mailto:support@energizingconversations.com)

All other questions contact: [MarketResearch@lge-ku.com](mailto:MarketResearch@lge-ku.com)

**[TEXT FOR LANDING PAGE]** In this survey we would like to learn a little more about the types of different heating and cooling sources and appliances our customers use. Your feedback will help LG&E, KU and ODP better understand the current usage of our customers in order to help meet future energy needs.

Please click the "Continue" button to get started.

**Q1.** About how many square feet of living space does your residence contain (excluding garages, attics and basements not used for living quarters)?

Please select one.

**[SINGLE-CHOICE QUESTION ALLOW ONLY ONE ANSWER, FORCE RESPONDENT TO ANSWER]**

1. Under 1,000 sq. ft.
2. 1,000– 1,499 sq. ft.
3. 1,500– 1,999 sq. ft.
4. 2,000– 2,499 sq. ft.
5. 2,500– 2,999 sq. ft.
6. 3,000 or more sq. ft.
7. Don't know

**Q2.** How is your home primarily heated?

Please select one.

**[SINGLE-CHOICE QUESTION ALLOW ONLY ONE ANSWER, RANDOMIZE, FORCE RESPONDENT TO ANSWER]**

1. Natural gas furnace
2. Electric furnace
3. Heat pump
4. Baseboard
5. Wood stove
6. Electric space heaters
7. LP/Bottled Gas/Propane
8. Other **[ANCHOR, DISPLAY TEXT BOX]**

[IF Q2=Heat Pump, ASK Q3. ALL OTHERS SKIP TO Q4]

**Q3.** Please specify the type of heat pump used to primarily heat your home.

Please select one.

[SINGLE-CHOICE QUESTION ALLOW ONLY ONE ANSWER, RANDOMIZE, FORCE RESPONDENT TO ANSWER]

1. Heat pump with gas furnace backup
2. Heat pump with electric furnace backup
3. Heat pump with no furnace backup
4. Don't know [ANCHOR]

**Q4.** Approximately what year was your primary heating system installed?

Please enter a 4-digit year in the box below (e.g. 2018)

[NUMERIC; 4 DIGITS; RANGE: 1900-2018; FORCE RESPONDENT TO ANSWER]

Don't know [EXCLUSIVE]

**Q5.** Do you have other heating equipment that is used on a regular basis?

Please select all that apply.

[MULTI-CHOICE QUESTION, FORCE RESPONDENT TO ANSWER]

1. Natural gas furnace
2. Electric furnace
3. Heat pump
4. Baseboard
5. Wood stove
6. Electric space heaters
7. LP/Bottled Gas/Propane
8. Other [DISPLAY TEXT BOX]
9. Don't know [EXCLUSIVE]
10. None of the above [EXCLUSIVE]

[IF Q5=3 (Heat Pump), ASK Q6. ALL OTHERS SKIP TO Q7]

**Q6.** Please specify the type of heat pump used on a regular basis.

Please select one.

**[SINGLE-CHOICE QUESTION ALLOW ONLY ONE ANSWER, RANDOMIZE, FORCE RESPONDENT TO ANSWER]**

1. Heat pump with gas furnace backup
2. Heat pump with electric furnace backup
3. Heat pump with no furnace backup
4. Don't know **[ANCHOR]**

**Q7.** Do you have an air conditioner in your home?

Please select one.

**[SINGLE-CHOICE QUESTION ALLOW ONLY ONE ANSWER, FORCE RESPONDENT TO ANSWER]**

1. Yes
2. No

**[IF Q7=YES ASK Q8; ALL OTHERS GO TO Q10]**

**Q8.** Which of the following types of air conditioners and how many units do you have?

Please select one response for each type of unit.

**Central air**

Number of Units **[NUMERICTEXT BOX; RANGE 1-6]**

Do not have this type of unit **[EXCLUSIVE]**

**Heat pump**

Number of Units **[NUMERICTEXT BOX; RANGE 1-6]**

Do not have this type of unit **[EXCLUSIVE]**

**Window or wall mounted air conditioner**

Number of Units **[NUMERICTEXT BOX; RANGE 1-6]**

Do not have this type of unit **[EXCLUSIVE]**

**Heat pump mini split**

Number of Units **[NUMERICTEXT BOX; RANGE 1-6]**

Do not have this type of unit **[EXCLUSIVE]**

**IF 'DO NOT HAVE THIS TYPE OF UNIT' SELECTED FOR ALL TYPES SKIPTO Q10; FORCE AN ANSWER FOR EACH TYPE]**

**Q9.** Approximately what year was your air conditioner installed? If you have multiple units, list the approximate year of each unit.

Please select one response for each unit shown.

**[DISPLAY EACH TYPE OF UNIT SELECTED IN Q8; FORCE AN ANSWER FOR EACH TYPE]**

**Central air**

**[LIST TO EQUAL 'NUMBER OF UNITS' ANSWERED IN Q8; UP TO 6 UNITS]**

**Unit #1**

Year Installed: [NUMERIC TEXT BOX; RANGE 1900-2018]

Don't know [EXCLUSIVE]

**Heat pump**

**[LIST TO EQUAL 'NUMBER OF UNITS' ANSWERED IN Q8; UP TO 6 UNITS]**

**Unit #1**

Year Installed: [NUMERIC TEXT BOX; RANGE 1900-2018]

Don't know [EXCLUSIVE]

**Window or wall mounted air conditioner**

**[LIST TO EQUAL 'NUMBER OF UNITS' ANSWERED IN Q8; UP TO 6 UNITS]**

**Unit #1**

Year Installed: [NUMERIC TEXT BOX; 4-DIGIT; RANGE 1900-2018]

Don't know [EXCLUSIVE]

**Heat pump mini split**

**[LIST TO EQUAL 'NUMBER OF UNITS' ANSWERED IN Q8; UP TO 6 UNITS]**

**Unit #1**

Year Installed: [NUMERIC TEXT BOX; 4-DIGIT; RANGE 1900-2018]

Don't know [EXCLUSIVE]

**Q10.** Does your household own any of the following appliances? And which, if any, of the following appliances are high efficiency?

[ALLOW ONLY ONE ANSWER PER APPLIANCE QUESTION, FORCE RESPONDENT TO ANSWER ALL 6 QUESTIONS]

[COLUMNS:]

Yes, not high efficiency

Yes, high efficiency

No

Don't know

[ROWS:]

Clothes dryer

Clothes washer

Dishwasher

Refrigerator

Water heater

[TEXT END PAGE] Thank you for your invaluable feedback in this important survey. Your name will be entered into the monthly sweepstakes drawing for a chance to win one (1) of ten (10) \$50 Amazon gift cards. The drawing for the monthly sweepstakes will be approximately a week after the close of the survey. The winners will be posted on energizingconversations.com.

Be sure to look for your next survey invitation in December.

Thank you!

[INCLUDE FINISH BUTTON THAT AUTOMATICALLY REDIRECTS TO [www.lge-ku.com/energy-efficiency-tips](http://www.lge-ku.com/energy-efficiency-tips)]

lfdn	pseudonym	dispcode	Q1	Q2
357	474444341	Completed (31)	Don't know	Electric furnace
499	474444349	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
525	474444345	Completed (31)	Under 1,000 sq. ft.	LP/Bottled Gas/Propane
41	414444341	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
355	414444340	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
105	414444345	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
81	464444343	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
104	464444342	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
221	404444348	Completed (31)	2,500 – 2,999 sq. ft.	Electric furnace
394	404444345	Completed (31)	2,000 – 2,499 sq. ft.	Wood stove
51	484444348	Completed (31)	2,500 – 2,999 sq. ft.	Heat pump
224	424444347	Completed (31)	2,500 – 2,999 sq. ft.	Heat pump
421	424444346	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
433	424444348	Completed (31)	Under 1,000 sq. ft.	Electric furnace
454	494444348	Completed (31)	Don't know	Natural gas furnace
333	454444344	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
449	454444349	Completed after break (32)	1,000 – 1,499 sq. ft.	Natural gas furnace
359	454444345	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
258	444444742	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
120	444444749	Completed (31)	2,000 – 2,499 sq. ft.	Electric furnace
60	434444741	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
493	434444749	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
492	434444745	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
156	414444747	Completed (31)	Under 1,000 sq. ft.	Electric furnace
96	464444747	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
127	494444744	Completed (31)	3,000 or more sq. ft.	LP/Bottled Gas/Propane
335	444444148	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
135	444444149	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
284	474444140	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
517	474444145	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
232	464444144	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
283	484444147	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
325	424444148	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
323	424444145	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
346	494444143	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
401	494444145	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
237	454444143	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
430	454444146	Completed (31)	3,000 or more sq. ft.	Heat pump
255	454444142	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
457	444444647	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
91	444444641	Completed (31)	3,000 or more sq. ft.	Heat pump
301	434444648	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
404	434444649	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
215	414444647	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
309	464444646	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
80	484444645	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
208	494444648	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
370	494444642	Completed (31)	Under 1,000 sq. ft.	Other
143	454444647	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
306	454444646	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
142	444444043	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump



484	444444047	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
22	434444047	Completed (31)	2,500 – 2,999 sq. ft.	Heat pump
222	474444045	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
109	414444044	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
495	414444040	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
213	464444049	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
340	404444043	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
90	404444047	Completed (31)	1,500 – 1,999 sq. ft.	Electric furnace
466	404444041	Completed (31)	Under 1,000 sq. ft.	Electric furnace
251	484444045	Completed (31)	Under 1,000 sq. ft.	Electric space heaters
242	424444043	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
477	424444045	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
62	494444046	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
172	454444048	Completed (31)	Under 1,000 sq. ft.	Heat pump
366	444444841	Completed after break (32)	1,000 – 1,499 sq. ft.	Electric furnace
83	444444848	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
55	474444848	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
133	474444845	Completed (31)	2,500 – 2,999 sq. ft.	Electric furnace
195	414444847	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
131	404444843	Completed (31)	2,500 – 2,999 sq. ft.	Heat pump
124	484444844	Completed (31)	1,000 – 1,499 sq. ft.	LP/Bottled Gas/Propane
332	484444843	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
372	484444847	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
89	484444842	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
136	484444849	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
387	424444844	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
419	424444845	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
43	454444845	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
99	444444247	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
453	444444240	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
321	444444242	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
218	444444249	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
337	434444242	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
524	474444242	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
199	414444244	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
523	414444247	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
240	464444247	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
331	404444242	Completed (31)	2,000 – 2,499 sq. ft.	Electric furnace
341	484444243	Completed (31)	Don't know	Electric furnace
138	424444242	Completed (31)	3,000 or more sq. ft.	Heat pump
281	494444246	Completed (31)	1,000 – 1,499 sq. ft.	LP/Bottled Gas/Propane
121	444444940	Completed (31)	Under 1,000 sq. ft.	Heat pump
371	444444948	Completed (31)	1,500 – 1,999 sq. ft.	Other
37	434444945	Completed (31)	Under 1,000 sq. ft.	Electric furnace
148	474444942	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
248	464444947	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
206	464444946	Completed (31)	Under 1,000 sq. ft.	Electric furnace
318	464444940	Completed (31)	2,000 – 2,499 sq. ft.	Electric furnace
39	404444946	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
68	404444940	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
211	484444944	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
154	484444940	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace

## Export 1.1

29	424444943	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
356	424444946	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
256	494444942	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
272	444444545	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
52	434444544	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
18	434444541	Completed (31)	3,000 or more sq. ft.	Heat pump
458	474444549	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
233	414444544	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
391	414444546	Completed (31)	2,000 – 2,499 sq. ft.	Electric furnace
36	404444546	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
129	404444540	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
489	484444543	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
324	484444547	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
107	484444549	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
383	424444542	Completed (31)	1,500 – 1,999 sq. ft.	Wood stove
26	494444543	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
385	494444547	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
437	494444549	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
452	454444547	Completed (31)	Under 1,000 sq. ft.	Electric furnace
498	454444540	Completed (31)	2,000 – 2,499 sq. ft.	Electric furnace
259	454444545	Completed (31)	Don't know	Baseboard
95	444344441	Completed (31)	3,000 or more sq. ft.	Heat pump
185	464344444	Completed (31)	Don't know	Heat pump
414	464344441	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
364	464344442	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
146	464344449	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
294	404344446	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
382	404344442	Completed (31)	1,500 – 1,999 sq. ft.	Electric furnace
53	484344447	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
141	484344446	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
106	424344441	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
328	424344446	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
435	494344441	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
271	494344445	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
193	444344342	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
200	444344349	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
50	434344346	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
464	434344342	Completed (31)	Under 1,000 sq. ft.	Electric furnace
377	474344344	Completed (31)	2,500 – 2,999 sq. ft.	Electric furnace
496	474344347	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
100	474344346	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
250	414344344	Completed (31)	Under 1,000 sq. ft.	Electric furnace
101	464344340	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
47	464344348	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
295	404344343	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
238	404344345	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
97	484344346	Completed (31)	Under 1,000 sq. ft.	Heat pump
456	484344349	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
413	424344344	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
400	494344340	Completed (31)	2,500 – 2,999 sq. ft.	Other
113	444344742	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
434	444344745	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace

## Export 1.1

126	474344748	Completed (31)	1,500 – 1,999 sq. ft.	Electric furnace
503	414344743	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
522	464344741	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
487	464344749	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
408	404344743	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
351	404344741	Completed (31)	1,500 – 1,999 sq. ft.	Other
269	404344748	Completed (31)	2,500 – 2,999 sq. ft.	Heat pump
485	484344743	Completed (31)	1,500 – 1,999 sq. ft.	Electric furnace
483	484344748	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
317	424344749	Completed (31)	Under 1,000 sq. ft.	Electric space heaters
203	494344746	Completed (31)	Don't know	Natural gas furnace
490	494344740	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
315	454344744	Completed (31)	2,000 – 2,499 sq. ft.	Electric furnace
314	454344743	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
302	444344144	Completed (31)	2,500 – 2,999 sq. ft.	Electric furnace
442	474344144	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
254	474344147	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
338	474344148	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
494	474344145	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
268	414344147	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
516	414344146	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
34	464344143	Completed after break (32)	1,500 – 1,999 sq. ft.	Heat pump
57	464344147	Completed (31)	1,500 – 1,999 sq. ft.	Electric furnace
415	464344141	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
137	464344146	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
440	464344148	Completed (31)	2,500 – 2,999 sq. ft.	Other
117	464344142	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
180	464344145	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
151	404344144	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
78	404344143	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
262	404344147	Completed (31)	2,000 – 2,499 sq. ft.	Wood stove
388	404344145	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
330	484344140	Completed (31)	3,000 or more sq. ft.	Heat pump
380	484344148	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
92	424344146	Completed (31)	Don't know	Natural gas furnace
475	494344149	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
298	454344141	Completed (31)	1,500 – 1,999 sq. ft.	Other
311	434344641	Completed (31)	Under 1,000 sq. ft.	Electric furnace
463	434344640	Completed (31)	3,000 or more sq. ft.	Heat pump
469	414344644	Completed (31)	3,000 or more sq. ft.	Other
310	414344648	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
390	414344642	Completed (31)	2,000 – 2,499 sq. ft.	Electric furnace
134	464344642	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
44	404344644	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
93	494344648	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
32	494344642	Completed (31)	Under 1,000 sq. ft.	Electric furnace
125	454344647	Completed (31)	3,000 or more sq. ft.	Heat pump
212	444344044	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
488	444344048	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
178	434344047	Completed (31)	2,500 – 2,999 sq. ft.	Heat pump
196	434344042	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
411	434344049	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump

## Export 1.1

176	474344041	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
98	474344046	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
260	414344044	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
59	414344047	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
220	414344049	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
65	464344041	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
506	464344040	Completed (31)	2,000 – 2,499 sq. ft.	Electric furnace
201	464344048	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
265	404344043	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
288	404344046	Completed (31)	Under 1,000 sq. ft.	LP/Bottled Gas/Propane
368	404344049	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
482	484344043	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
409	484344046	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
342	424344047	Completed (31)	2,000 – 2,499 sq. ft.	Electric furnace
33	424344040	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
234	424344048	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
46	494344048	Completed (31)	2,000 – 2,499 sq. ft.	Other
40	454344044	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
425	454344041	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
319	444344844	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
85	444344840	Completed (31)	3,000 or more sq. ft.	Other
122	434344840	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
140	474344847	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
529	474344840	Completed (31)	3,000 or more sq. ft.	Heat pump
202	474344842	Completed (31)	1,500 – 1,999 sq. ft.	LP/Bottled Gas/Propane
349	474344845	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
21	414344841	Completed (31)	Under 1,000 sq. ft.	Heat pump
152	404344843	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
49	484344840	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
267	424344848	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
405	424344842	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
373	494344847	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
424	494344848	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
266	454344849	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
75	444344249	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
291	434344244	Completed (31)	1,500 – 1,999 sq. ft.	Electric furnace
363	474344248	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
500	414344243	Completed (31)	2,000 – 2,499 sq. ft.	Electric furnace
468	464344243	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
491	464344241	Completed (31)	1,500 – 1,999 sq. ft.	Electric furnace
467	404344242	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
70	484344243	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
167	494344244	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
451	494344241	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
428	454344243	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
27	454344246	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
210	434344946	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
316	474344944	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
312	474344946	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
297	474344945	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
67	414344949	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
216	464344941	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace

## Export 1.1

204	464344940	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
474	464344949	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
407	464344945	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
235	404344947	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
74	404344948	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
132	484344943	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
344	484344940	Completed (31)	2,500 – 2,999 sq. ft.	Heat pump
518	484344942	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
246	424344943	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
308	424344941	Completed (31)	2,000 – 2,499 sq. ft.	Electric furnace
514	424344948	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
360	494344944	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
147	494344941	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
422	494344946	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
376	494344945	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
58	454344943	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
392	444344546	Completed (31)	Don't know	Natural gas furnace
179	434344546	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
334	434344548	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
209	434344545	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
219	474344544	Completed (31)	Under 1,000 sq. ft.	LP/Bottled Gas/Propane
188	474344543	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
239	474344549	Completed (31)	2,500 – 2,999 sq. ft.	Heat pump
157	474344545	Completed (31)	1,500 – 1,999 sq. ft.	Other
160	414344544	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
108	414344546	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
223	464344544	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
79	464344541	Completed (31)	1,000 – 1,499 sq. ft.	Baseboard
64	464344546	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
162	404344544	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
527	404344541	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
111	484344541	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
158	484344548	Completed (31)	Under 1,000 sq. ft.	Electric furnace
214	424344547	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
446	424344546	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
190	424344548	Completed (31)	1,500 – 1,999 sq. ft.	Electric furnace
481	424344549	Completed (31)	Under 1,000 sq. ft.	Electric furnace
476	424344545	Completed (31)	3,000 or more sq. ft.	Electric furnace
257	494344543	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
293	494344542	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
230	454344543	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
217	454344546	Completed (31)	Don't know	Natural gas furnace
417	474744446	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
507	474744440	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
227	474744445	Completed (31)	Don't know	Heat pump
145	414744441	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
184	414744446	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
247	414744440	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
186	414744448	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
164	404744449	Completed (31)	2,500 – 2,999 sq. ft.	Heat pump
432	484744444	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
205	484744441	Completed (31)	3,000 or more sq. ft.	Natural gas furnace

## Export 1.1

478	494744442	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
261	454744449	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
345	454744445	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
182	444744344	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
416	444744348	Completed after break (32)	2,000 – 2,499 sq. ft.	Natural gas furnace
149	434744342	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
71	474744346	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
28	474744340	Completed (31)	Don't know	Electric furnace
384	474744348	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
20	414744349	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
72	404744346	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
263	404744345	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
369	484744347	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
431	424744344	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
511	424744341	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
455	424744340	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
471	494744346	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
348	494744342	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
443	494744345	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
119	454744348	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
231	454744342	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
163	444744744	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
303	444744743	Completed (31)	3,000 or more sq. ft.	Other
439	444744742	Completed (31)	2,500 – 2,999 sq. ft.	Electric furnace
365	434744743	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
473	434744740	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
275	474744747	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
515	414744744	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
61	414744743	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
244	414744741	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
116	464744744	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
249	404744747	Completed (31)	1,500 – 1,999 sq. ft.	Electric furnace
509	484744745	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
48	424744741	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
286	494744747	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
112	494744740	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
173	494744742	Completed after break (32)	3,000 or more sq. ft.	Heat pump
480	454744743	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
374	454744740	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
460	454744742	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
436	454744745	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
274	444744142	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
174	434744140	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
130	474744147	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
396	474744141	Completed (31)	Under 1,000 sq. ft.	Electric furnace
278	474744142	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
264	414744144	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
367	414744143	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
447	414744147	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
353	414744141	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
501	414744148	Completed (31)	Under 1,000 sq. ft.	Electric furnace
144	414744145	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace

## Export 1.1

189	464744143	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
270	464744142	Completed (31)	2,500 – 2,999 sq. ft.	Electric furnace
197	464744145	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
512	404744145	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
150	484744144	Completed (31)	1,500 – 1,999 sq. ft.	Electric furnace
461	484744146	Completed (31)	Under 1,000 sq. ft.	Electric furnace
181	484744145	Completed after break (32)	Under 1,000 sq. ft.	Electric furnace
402	424744147	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
448	424744148	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
379	424744145	Completed (31)	1,500 – 1,999 sq. ft.	Electric furnace
462	494744143	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
504	454744144	Completed (31)	Don't know	Natural gas furnace
177	444744640	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
273	444744648	Completed (31)	1,500 – 1,999 sq. ft.	Electric furnace
171	474744641	Completed (31)	3,000 or more sq. ft.	Heat pump
153	474744646	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
406	474744640	Completed (31)	3,000 or more sq. ft.	LP/Bottled Gas/Propane
418	474744648	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
326	474744642	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
358	414744644	Completed (31)	2,000 – 2,499 sq. ft.	Electric furnace
305	464744642	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
277	404744642	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
329	424744644	Completed (31)	Don't know	Natural gas furnace
505	424744647	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
23	424744645	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
245	494744643	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
450	494744648	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
412	494744642	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
513	454744640	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
54	444744046	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
139	434744043	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
398	474744041	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
521	474744042	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
84	414744049	Completed (31)	Don't know	Electric furnace
300	464744047	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
327	404744044	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
381	404744041	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
25	484744041	Completed (31)	Under 1,000 sq. ft.	Electric furnace
198	484744040	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
445	484744045	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
322	424744045	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
292	494744041	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
393	494744045	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
88	454744047	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
31	454744040	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
502	454744042	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
472	454744049	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
94	454744045	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
279	444744844	Completed (31)	3,000 or more sq. ft.	Other
115	434744847	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
191	434744841	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
76	434744842	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace

## Export 1.1

378	474744841	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
304	414744844	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
320	464744843	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
336	464744845	Completed (31)	Under 1,000 sq. ft.	Baseboard
386	404744841	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
226	404744848	Completed (31)	Under 1,000 sq. ft.	Electric furnace
228	404744849	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
289	404744845	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
441	484744844	Completed (31)	1,500 – 1,999 sq. ft.	Electric furnace
410	484744847	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
194	484744846	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
438	484744845	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
166	424744849	Completed (31)	2,500 – 2,999 sq. ft.	Heat pump
165	454744844	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
362	434744241	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
497	434744246	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
276	474744249	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
35	414744242	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
347	464744247	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
30	464744240	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
354	464744242	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
161	404744241	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
528	484744243	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
339	484744241	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
128	484744245	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
350	424744247	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
118	424744246	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
361	424744240	Completed (31)	3,000 or more sq. ft.	Heat pump
287	424744249	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
399	494744243	Completed (31)	2,000 – 2,499 sq. ft.	Electric furnace
103	494744247	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
429	494744242	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
307	454744244	Completed (31)	Don't know	Electric furnace
170	454744248	Completed (31)	2,500 – 2,999 sq. ft.	Electric furnace
42	444744948	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
19	444744945	Completed (31)	2,500 – 2,999 sq. ft.	Natural gas furnace
63	474744944	Completed (31)	1,500 – 1,999 sq. ft.	Other
426	474744942	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
102	414744946	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
420	414744948	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
155	414744942	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
66	464744944	Completed (31)	Under 1,000 sq. ft.	Heat pump
280	464744941	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
520	404744944	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
510	404744948	Completed (31)	2,500 – 2,999 sq. ft.	Heat pump
77	484744943	Completed after break (32)	1,500 – 1,999 sq. ft.	Natural gas furnace
241	424744942	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
519	424744949	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
343	494744948	Completed (31)	Under 1,000 sq. ft.	Electric furnace
86	494744942	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
159	444744544	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
389	444744543	Completed after break (32)	2,000 – 2,499 sq. ft.	Natural gas furnace



## Export 1.1

114	434744547	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
252	434744548	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
45	434744542	Completed (31)	Don't know	Natural gas furnace
192	474744547	Completed (31)	1,500 – 1,999 sq. ft.	Electric furnace
282	414744543	Completed (31)	3,000 or more sq. ft.	Other
225	414744549	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
38	464744548	Completed (31)	Under 1,000 sq. ft.	Natural gas furnace
313	404744544	Completed (31)	3,000 or more sq. ft.	Electric furnace
397	484744543	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
123	484744547	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
24	424744544	Completed (31)	Don't know	Natural gas furnace
82	424744548	Completed (31)	2,500 – 2,999 sq. ft.	Heat pump
299	424744549	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
375	424744545	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
207	494744547	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
183	434144445	Completed (31)	2,000 – 2,499 sq. ft.	Heat pump
444	474144448	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
285	474144442	Completed (31)	1,000 – 1,499 sq. ft.	Electric furnace
395	414144443	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
470	414144441	Completed (31)	2,500 – 2,999 sq. ft.	Other
243	414144446	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
169	464144441	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
236	464144440	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
486	464144448	Completed (31)	Don't know	Natural gas furnace
187	464144442	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
175	464144449	Completed (31)	1,000 – 1,499 sq. ft.	Heat pump
253	404144443	Completed (31)	1,500 – 1,999 sq. ft.	Natural gas furnace
229	404144446	Completed (31)	1,000 – 1,499 sq. ft.	Natural gas furnace
296	404144442	Completed (31)	3,000 or more sq. ft.	Natural gas furnace
508	404144445	Completed (31)	1,500 – 1,999 sq. ft.	Heat pump
526	484144441	Completed (31)	3,000 or more sq. ft.	Heat pump
459	424144441	Completed (31)	2,000 – 2,499 sq. ft.	Natural gas furnace
73	424144446	Completed (31)	3,000 or more sq. ft.	Heat pump

## Export 1.1

Q2_oth	Q3	Q4	Q4_DK	Q5_1
-99		-77	1985	not quoted not quoted
-99	Heat pump with gas furnace backup	2008	not quoted	not quoted
-99		-77	2019	not quoted not quoted
-99		-77	2005	not quoted not quoted
-99		-77	2018	not quoted not quoted
-99		-77	2010	not quoted not quoted
-99	Heat pump with electric furnace backup	2007	not quoted	not quoted
-99	Heat pump with electric furnace backup	2015	not quoted	not quoted
-99		-77	2016	not quoted not quoted
-99		-77	2018	not quoted not quoted
-99	Heat pump with electric furnace backup	1985	not quoted	not quoted
-99	Heat pump with electric furnace backup	2016	not quoted	not quoted
-99	Heat pump with gas furnace backup	1998	not quoted	not quoted
-99		-77	2007	not quoted not quoted
-99		-77	2020	not quoted not quoted
-99		-77	2018	not quoted quoted
-99		-77	2014	not quoted quoted
-99		-77	2020	not quoted not quoted
-99		-77	2010	not quoted quoted
-99		-77	2010	not quoted not quoted
-99		-77	2018	not quoted not quoted
-99	Heat pump with electric furnace backup	2018	not quoted	not quoted
-99		-77	2018	not quoted quoted
-99		-77	1997	not quoted not quoted
-99		-77	2018	not quoted not quoted
-99		-77	2008	not quoted not quoted
-99	Heat pump with gas furnace backup	2009	not quoted	quoted
-99	Heat pump with electric furnace backup	2006	not quoted	not quoted
-99		-77	2017	not quoted not quoted
-99		-77	2019	not quoted not quoted
-99	Heat pump with gas furnace backup	1995	not quoted	not quoted
-99	Heat pump with electric furnace backup	2012	not quoted	not quoted
-99		-77	2013	not quoted not quoted
-99		-77	2010	not quoted not quoted
-99		-77	2004	not quoted not quoted
-99		-77	-99	quoted not quoted
-99		-77	-99	quoted not quoted
-99	Heat pump with electric furnace backup	1999	not quoted	not quoted
-99		-77	2015	not quoted not quoted
-99		-77	2015	not quoted not quoted
-99	Heat pump with electric furnace backup	2008	not quoted	not quoted
-99		-77	1997	not quoted not quoted
-99		-77	2003	not quoted not quoted
-99		-77	2005	not quoted not quoted
-99		-77	-99	quoted not quoted
-99	Heat pump with electric furnace backup	2006	not quoted	not quoted
-99		-77	2018	not quoted not quoted
-99		-77	-99	quoted not quoted
Electric Heater	Heat pump with electric furnace backup	2010	not quoted	not quoted
-99		-77	-99	quoted not quoted
-99	Heat pump with electric furnace backup	2020	not quoted	not quoted

## Export 1.1

-99		-77	-99	quoted	not quoted
-99	Heat pump with electric furnace backup	2019	not quoted	not quoted	
-99	Heat pump with electric furnace backup	2009	not quoted	not quoted	
-99	Heat pump with electric furnace backup	2005	not quoted	not quoted	
-99		-77	2019	not quoted	not quoted
-99		-77	1937	not quoted	quoted
-99	Heat pump with electric furnace backup	2010	not quoted	not quoted	
-99		-77	2015	not quoted	not quoted
-99		-77	2016	not quoted	not quoted
-99		-77	-99	quoted	quoted
-99		-77	-99	quoted	not quoted
-99		-77	2000	not quoted	quoted
-99	Heat pump with electric furnace backup	2019	not quoted	not quoted	
-99	Don't know		-99	quoted	not quoted
-99		-77	2016	not quoted	not quoted
-99		-77	2012	not quoted	not quoted
-99		-77	1970	not quoted	not quoted
-99		-77	2008	not quoted	not quoted
-99		-77	2016	not quoted	quoted
-99	Heat pump with gas furnace backup	2012	not quoted	not quoted	
-99		-77	2006	not quoted	not quoted
-99	Heat pump with gas furnace backup	2015	not quoted	not quoted	
-99		-77	2010	not quoted	not quoted
-99		-77	2000	not quoted	not quoted
-99		-77	2004	not quoted	not quoted
-99	Heat pump with electric furnace backup	2020	not quoted	not quoted	
-99		-77	2014	not quoted	not quoted
-99		-77	-99	quoted	not quoted
-99	Heat pump with electric furnace backup	2004	not quoted	not quoted	
-99		-77	-99	quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	2005	not quoted	not quoted
-99		-77	2001	not quoted	quoted
-99	Heat pump with electric furnace backup	2014	not quoted	not quoted	
-99		-77	1996	not quoted	not quoted
-99		-77	2015	not quoted	not quoted
-99	Heat pump with electric furnace backup	2010	not quoted	not quoted	
-99		-77	1997	not quoted	not quoted
-99		-77	2009	not quoted	not quoted
-99	Heat pump with electric furnace backup	1977	not quoted	not quoted	
-99		-77	1999	not quoted	not quoted
-99	Heat pump with electric furnace backup	2012	not quoted	not quoted	
-99	Electric minisplits		-77	2018	not quoted
-99			-77	-99	quoted
-99	Heat pump with electric furnace backup	2020	not quoted	not quoted	
-99		-77	-99	quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	2010	not quoted	not quoted
-99		-77	2005	not quoted	not quoted
-99		-77	2016	not quoted	quoted
-99		-77	2000	not quoted	not quoted
-99		-77	2019	not quoted	not quoted

## Export 1.1

-99	Heat pump with electric furnace backup	2017	not quoted	not quoted
-99	Heat pump with gas furnace backup	2015	not quoted	not quoted
-99		-77	2005	not quoted
-99		-77	2011	not quoted
-99		-77	1994	not quoted
-99	Heat pump with gas furnace backup	2010	not quoted	not quoted
-99	Heat pump with electric furnace backup	1994	not quoted	not quoted
-99	Heat pump with no furnace backup	2015	not quoted	not quoted
-99		-77	2017	not quoted
-99	Heat pump with no furnace backup	2007	not quoted	not quoted
-99		-77	2015	not quoted
-99	Heat pump with no furnace backup	2008	not quoted	not quoted
-99		-77	1980	not quoted
-99		-77	2000	not quoted
-99		-77	2011	not quoted
-99		-77	2000	not quoted
-99		-77	2015	not quoted
-99		-77	2018	not quoted
-99		-77	2014	not quoted
-99		-77	2016	not quoted
-99		-77	1980	not quoted
-99	Heat pump with gas furnace backup	2020	not quoted	quoted
-99	Don't know	-99	quoted	not quoted
-99	Heat pump with electric furnace backup	2019	not quoted	not quoted
-99		-77	2017	not quoted
-99		-77	2000	not quoted
-99		-77	1994	not quoted
-99		-77	2015	not quoted
-99		-77	2018	not quoted
-99		-77	2011	not quoted
-99		-77	2000	not quoted
-99		-77	2019	not quoted
-99		-77	2008	not quoted
-99		-77	2019	not quoted
-99	Don't know	2017	not quoted	not quoted
-99		-77	2016	not quoted
-99	Heat pump with electric furnace backup	1998	not quoted	not quoted
-99		-77	2018	not quoted
-99		-77	2012	not quoted
-99	Heat pump with electric furnace backup	2007	not quoted	not quoted
-99		-77	2009	not quoted
-99		-77	2017	not quoted
-99	Heat pump with electric furnace backup	2019	not quoted	not quoted
-99	Heat pump with gas furnace backup	1982	not quoted	quoted
-99		-77	2019	not quoted
-99		-77	2007	not quoted
-99	Heat pump with electric furnace backup	2019	not quoted	not quoted
-99		-77	2015	not quoted
-99		-77	2012	not quoted
-99	Fireplace	-77	2014	not quoted
-99		-77	-99	quoted
-99		-77	2012	not quoted

Export 1.1

-99		-77 2005 not quoted not quoted
-99		-77 2016 not quoted not quoted
-99		-77 2017 not quoted not quoted
-99		-77 2012 not quoted not quoted
-99		-77 2016 not quoted not quoted
Geothermal		-77 2008 not quoted not quoted
-99	Heat pump with gas furnace backup	2000 not quoted not quoted
-99		-77 -99 quoted not quoted
-99		-77 2015 not quoted not quoted
-99		-77 -99 quoted not quoted
-99		-77 -99 quoted quoted
-99		-77 1998 not quoted not quoted
-99		-77 2019 not quoted not quoted
-99		-77 1998 not quoted not quoted
-99		-77 2008 not quoted not quoted
-99		-77 2009 not quoted not quoted
-99		-77 2006 not quoted quoted
-99		-77 2016 not quoted not quoted
-99		-77 2015 not quoted not quoted
-99		-77 2017 not quoted not quoted
-99		-77 2000 not quoted not quoted
-99	Heat pump with electric furnace backup	2015 not quoted not quoted
-99		-77 2020 not quoted not quoted
-99		-77 2010 not quoted not quoted
-99		-77 2019 not quoted not quoted
Hybrid Furnace		-77 2010 not quoted not quoted
-99		-77 2011 not quoted not quoted
-99		-77 2000 not quoted not quoted
-99		-77 2013 not quoted not quoted
-99	Heat pump with electric furnace backup	-99 quoted not quoted
-99		-77 2008 not quoted not quoted
-99		-77 2014 not quoted quoted
-99	Heat pump with electric furnace backup	2018 not quoted not quoted
-99		-77 2005 not quoted not quoted
-99		-77 -99 quoted not quoted
-99		-77 2017 not quoted not quoted
Natural gas furnace and heat pump		-77 2012 not quoted not quoted
-99		-77 -99 quoted not quoted
-99	Heat pump with electric furnace backup	2018 not quoted not quoted
Dual heat furnace downstairs, heat pump upstairs		-77 2011 not quoted not quoted
-99		-77 -99 quoted not quoted
-99		-77 2008 not quoted not quoted
-99	Heat pump with no furnace backup	2018 not quoted not quoted
-99		-77 1990 not quoted not quoted
-99	Heat pump with gas furnace backup	2016 not quoted not quoted
-99		-77 -99 quoted not quoted
-99	Heat pump with gas furnace backup	2015 not quoted not quoted
-99		-77 2019 not quoted not quoted
-99		-77 -99 quoted not quoted
-99	Heat pump with electric furnace backup	2011 not quoted not quoted
-99		-77 2015 not quoted not quoted
-99	Heat pump with electric furnace backup	2017 not quoted not quoted

Export 1.1

-99		-77	2020	not quoted	not quoted
-99	Heat pump with electric furnace backup	-99	quoted	not quoted	
-99	Heat pump with no furnace backup	2009	not quoted	not quoted	
-99	Heat pump with electric furnace backup	2015	not quoted	not quoted	
-99		-77	2015	not quoted	quoted
-99		-77	2016	not quoted	not quoted
-99		-77	2013	not quoted	not quoted
-99		-77	2018	not quoted	not quoted
-99		-77	2013	not quoted	not quoted
-99		-77	2018	not quoted	not quoted
-99		-77	2001	not quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	2014	not quoted	not quoted
-99		-77	-99	quoted	not quoted
-99	Heat pump with gas furnace backup	2008	not quoted	not quoted	
-99		-77	2015	not quoted	not quoted
-99		-77	2005	not quoted	not quoted
-99		-77	-99	quoted	quoted
-99		-77	2005	not quoted	not quoted
-99		-77	2019	not quoted	quoted
-99	Multiple systdms				
-99	Heat pump with electric furnace backup	2005	not quoted	not quoted	
-99	Heat pump with electric furnace backup	2009	not quoted	not quoted	
-99	Heat pump with electric furnace backup	2015	not quoted	not quoted	
-99		-77	1959	not quoted	not quoted
-99	Heat pump with electric furnace backup	2014	not quoted	not quoted	
-99	Don^t know	-99	quoted	not quoted	
-99		-77	-99	quoted	not quoted
-99		-77	2019	not quoted	not quoted
-99		-77	2003	not quoted	not quoted
-99		-77	2015	not quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	2016	not quoted	not quoted
-99		-77	1999	not quoted	not quoted
-99	Heat pump with electric furnace backup	2019	not quoted	not quoted	
-99		-77	-99	quoted	not quoted
-99		-77	2016	not quoted	not quoted
-99		-77	2004	not quoted	not quoted
-99		-77	2000	not quoted	not quoted
-99		-77	2009	not quoted	not quoted
-99	Heat pump with no furnace backup	2015	not quoted	not quoted	
-99	Heat pump with gas furnace backup	2015	not quoted	not quoted	
-99		-77	1998	not quoted	not quoted
-99	Heat pump with electric furnace backup	2013	not quoted	not quoted	
-99		-77	2018	not quoted	not quoted
-99	Heat pump with gas furnace backup	2020	not quoted	not quoted	
-99		-77	-99	quoted	not quoted
-99		-77	2014	not quoted	not quoted
-99		-77	2012	not quoted	not quoted
-99		-77	2011	not quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	2002	not quoted	not quoted

Export 1.1

-99		-77 1996 not quoted not quoted
-99		-77 2009 not quoted not quoted
-99		-77 1980 not quoted quoted
-99		-77 2015 not quoted not quoted
-99	Heat pump with electric furnace backup	2015 not quoted not quoted
-99		-77 2018 not quoted not quoted
-99	Don't know	2020 not quoted not quoted
-99		-77 2020 not quoted not quoted
-99		-77 2005 not quoted not quoted
-99		-77 2005 not quoted quoted
-99		-77 2017 not quoted not quoted
-99		-77 2018 not quoted quoted
-99		-77 1990 not quoted not quoted
-99		-77 2016 not quoted not quoted
-99		-77 2012 not quoted quoted
-99		-77 2019 not quoted quoted
-99		-77 -99 quoted not quoted
-99		-77 2015 not quoted not quoted
-99	Heat pump with electric furnace backup	1989 not quoted not quoted
-99	Heat pump with no furnace backup	2016 not quoted not quoted
-99		-77 1960 not quoted not quoted
-99		-77 2010 not quoted not quoted
-99	Heat pump with no furnace backup	2017 not quoted not quoted
-99	Boiler/steam	-77 1970 not quoted not quoted
-99		-77 2016 not quoted not quoted
-99		-77 2002 not quoted quoted
-99		-77 1997 not quoted not quoted
-99		-77 1984 not quoted not quoted
-99		-77 2015 not quoted not quoted
-99		-77 2010 not quoted not quoted
-99		-77 2007 not quoted not quoted
-99		-77 1992 not quoted not quoted
-99		-77 1980 not quoted not quoted
-99	Heat pump with electric furnace backup	2006 not quoted not quoted
-99		-77 2020 not quoted not quoted
-99		-77 2013 not quoted not quoted
-99		-77 -99 quoted not quoted
-99		-77 2017 not quoted not quoted
-99		-77 2010 not quoted not quoted
-99	Heat pump with no furnace backup	2019 not quoted not quoted
-99		-77 2018 not quoted not quoted
-99		-77 -99 quoted quoted
-99		-77 -99 quoted not quoted
-99	Heat pump with no furnace backup	2020 not quoted not quoted
-99	Heat pump with gas furnace backup	2010 not quoted not quoted
-99		-77 2015 not quoted not quoted
-99		-77 2010 not quoted not quoted
-99		-77 2018 not quoted not quoted
-99		-77 2006 not quoted not quoted
-99	Heat pump with electric furnace backup	2019 not quoted not quoted
-99	Don't know	2010 not quoted not quoted
-99		-77 2015 not quoted not quoted

Export 1.1

-99		-77 1998 not quoted not quoted
-99		-77 2012 not quoted not quoted
-99		-77 1998 not quoted not quoted
-99		-77 2015 not quoted not quoted
-99		-77 -99 quoted quoted
-99		-77 1998 not quoted not quoted
-99		-77 2015 not quoted quoted
-99		-77 -99 quoted not quoted
-99		-77 2004 not quoted not quoted
-99		-77 2017 not quoted not quoted
-99		-77 2007 not quoted not quoted
-99		-77 -99 quoted not quoted
-99		-77 -99 quoted not quoted
-99		-77 2020 not quoted not quoted
-99		-77 2018 not quoted not quoted
-99		-77 2014 not quoted not quoted
-99		-77 2005 not quoted quoted
-99		-77 2007 not quoted not quoted
-99		-77 2019 not quoted not quoted
-99		-77 2016 not quoted not quoted
-99		-77 2014 not quoted not quoted
-99		-77 2010 not quoted quoted
geothermal/electric furnance		-77 2010 not quoted not quoted
-99		-77 1995 not quoted not quoted
-99		-77 1990 not quoted not quoted
-99		-77 2007 not quoted not quoted
-99		-77 -99 quoted not quoted
-99		-77 2015 not quoted not quoted
-99	Heat pump with no furnace backup	2015 not quoted not quoted
-99		-77 1997 not quoted not quoted
-99	Heat pump with electric furnace backup	2020 not quoted quoted
-99		-77 -99 quoted not quoted
-99		-77 2019 not quoted not quoted
-99		-77 2013 not quoted not quoted
-99		-77 2008 not quoted not quoted
-99		-77 -99 quoted not quoted
-99	Heat pump with electric furnace backup	2019 not quoted not quoted
-99		-77 2005 not quoted not quoted
-99	Heat pump with electric furnace backup	2012 not quoted not quoted
-99	Heat pump with electric furnace backup	2020 not quoted not quoted
-99		-77 1989 not quoted not quoted
-99		-77 2018 not quoted not quoted
-99		-77 2000 not quoted not quoted
-99		-77 2017 not quoted not quoted
-99		-77 2000 not quoted not quoted
-99		-77 2018 not quoted not quoted
-99		-77 2015 not quoted not quoted
-99		-77 2013 not quoted not quoted
-99		-77 2000 not quoted not quoted
-99		-77 1987 not quoted not quoted
-99		-77 2019 not quoted quoted
-99		-77 2017 not quoted not quoted



Export 1.1

-99		-77	-99	quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	2016	not quoted	not quoted
-99	Heat pump with no furnace backup		2017	not quoted	not quoted
-99		-77	2010	not quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	2014	not quoted	not quoted
-99		-77	2005	not quoted	quoted
-99		-77	1992	not quoted	quoted
-99		-77	2018	not quoted	not quoted
-99		-77	2008	not quoted	not quoted
-99		-77	2016	not quoted	not quoted
-99		-77	2009	not quoted	not quoted
-99		-77	-99	quoted	not quoted
-99	Heat pump with electric furnace backup		2014	not quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	2000	not quoted	not quoted
-99	Heat pump with electric furnace backup		2013	not quoted	not quoted
-99		-77	2018	not quoted	not quoted
-99		-77	2012	not quoted	not quoted
-99		-77	1967	not quoted	not quoted
-99	Don't know		-99	quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	1992	not quoted	not quoted
-99		-77	2019	not quoted	not quoted
-99		-77	2008	not quoted	not quoted
-99		-77	2017	not quoted	not quoted
-99		-77	2005	not quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	2020	not quoted	not quoted
-99		-77	2000	not quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	2004	not quoted	not quoted
-99		-77	2004	not quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	2020	not quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	-99	quoted	not quoted
-99		-77	2018	not quoted	not quoted
-99		-77	1987	not quoted	not quoted
-99	Don't know		2012	not quoted	not quoted
-99		-77	2004	not quoted	not quoted
-99		-77	2013	not quoted	not quoted
-99	Heat pump with electric furnace backup		2004	not quoted	not quoted
-99		-77	2004	not quoted	not quoted
-99		-77	2012	not quoted	not quoted
-99		-77	2002	not quoted	not quoted
-99		-77	2000	not quoted	not quoted
-99	Geothermal		-77	2012	not quoted
-99		-77	1990	not quoted	not quoted
-99		-77	2019	not quoted	not quoted
-99		-77	2016	not quoted	not quoted

## Export 1.1

-99		-77 1989 not quoted not quoted
-99		-77 2018 not quoted not quoted
-99		-77 2001 not quoted not quoted
-99		-77 -99 quoted not quoted
-99	Heat pump with electric furnace backup	2016 not quoted not quoted
-99		-77 -99 quoted not quoted
-99	Heat pump with electric furnace backup	2012 not quoted not quoted
-99		-77 2018 not quoted not quoted
-99		-77 2017 not quoted not quoted
-99		-77 2013 not quoted not quoted
-99		-77 2000 not quoted not quoted
-99	Heat pump with gas furnace backup	2008 not quoted not quoted
-99	Heat pump with electric furnace backup	2013 not quoted not quoted
-99		-77 2018 not quoted not quoted
-99		-77 2003 not quoted not quoted
-99	Heat pump with electric furnace backup	2015 not quoted not quoted
-99		-77 2002 not quoted not quoted
-99		-77 2018 not quoted not quoted
-99		-77 2010 not quoted not quoted
-99		-77 2018 not quoted not quoted
-99		-77 2005 not quoted not quoted
-99		-77 -99 quoted not quoted
-99		-77 2002 not quoted not quoted
-99		-77 2018 not quoted not quoted
-99	Heat pump with no furnace backup	2018 not quoted not quoted
-99		-77 2015 not quoted not quoted
-99		-77 2018 not quoted quoted
-99	Heat pump with electric furnace backup	2016 not quoted not quoted
-99	Heat pump with electric furnace backup	2019 not quoted not quoted
-99		-77 2018 not quoted not quoted
-99		-77 2008 not quoted not quoted
-99	Heat pump with gas furnace backup	1993 not quoted not quoted
-99		-77 -99 quoted not quoted
-99		-77 2000 not quoted not quoted
-99		-77 2020 not quoted not quoted
-99		-77 2016 not quoted not quoted
-99	Heat pump and gas	-77 2010 not quoted not quoted
-99		-77 1985 not quoted not quoted
-99		-77 1988 not quoted not quoted
-99	Heat pump with electric furnace backup	2016 not quoted not quoted
-99		-77 -99 quoted not quoted
-99	Heat pump with electric furnace backup	2014 not quoted not quoted
-99		-77 2019 not quoted quoted
-99	Heat pump with no furnace backup	2005 not quoted not quoted
-99	Heat pump with gas furnace backup	2020 not quoted not quoted
-99		-77 2007 not quoted not quoted
-99		-77 2010 not quoted not quoted
-99		-77 2019 not quoted not quoted
-99		-77 -99 quoted not quoted
-99	Heat pump with no furnace backup	2005 not quoted not quoted
-99		-77 2010 not quoted not quoted
-99		-77 2010 not quoted not quoted

Export 1.1

-99	Heat pump with no furnace backup	2017	not quoted	not quoted
-99		-77	2019	not quoted
-99		-77	-99	quoted
-99		-77	2010	not quoted
Heat pump with gas backup		-77	2006	not quoted
-99		-77	2015	not quoted
-99		-77	-99	quoted
-99		-77	2013	not quoted
-99	Heat pump with no furnace backup	-99	quoted	not quoted
-99		-77	2006	not quoted
-99		-77	2010	not quoted
-99	Heat pump with electric furnace backup	1998	not quoted	not quoted
-99		-77	2016	not quoted
-99		-77	2011	not quoted
-99		-77	2005	not quoted
-99	Heat pump with gas furnace backup	2018	not quoted	quoted
-99		-77	-99	quoted
-99		-77	-99	quoted
-99	Don't know	2007	not quoted	not quoted
Geothermal		-77	1996	not quoted
-99		-77	2005	not quoted
-99		-77	2014	not quoted
-99	Heat pump with no furnace backup	-99	quoted	not quoted
-99		-77	2017	not quoted
-99		-77	2018	not quoted
-99	Heat pump with electric furnace backup	2010	not quoted	not quoted
-99		-77	2014	not quoted
-99		-77	2006	not quoted
-99		-77	2012	not quoted
-99	Heat pump with electric furnace backup	2010	not quoted	not quoted
-99	Heat pump with electric furnace backup	2010	not quoted	not quoted
-99		-77	2019	not quoted
-99	Heat pump with electric furnace backup	2010	not quoted	not quoted























## Export 1.1

Q5_oth	Q5_9	Q5_10	Q6	Q7
-99	not quoted	not quoted		-77 No
-99	not quoted	not quoted	Heat pump with gas furnace backup	Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
gas logs in case of power outage	not quoted	not quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	not quoted	Heat pump with electric furnace backup	Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
mini split heat pump for 2nd 1/2 story	not quoted	not quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	not quoted	Heat pump with gas furnace backup	Yes
Ventless fireplace	not quoted	not quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	not quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes
-99	not quoted	quoted		-77 Yes

## Export 1.1

-99	quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	Heat pump with no furnace backup	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	Heat pump with electric furnace backup	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	No
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	Heat pump with gas furnace backup	No
-99	not quoted	not quoted	Heat pump with electric furnace backup	No
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
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-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes

kerosene heater

LP stove

## Export 1.1

-99	not quoted	quoted	-77	Yes	
-99	not quoted	quoted	-77	Yes	
-99	not quoted	quoted	-77	Yes	
-99	not quoted	not quoted	Heat pump with gas furnace backup	Yes	
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted	Heat pump with no furnace backup	Yes	
Gas fireplace	not quoted	not quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
Oil Furnace	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	No
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	not quoted	Don't know	Yes	
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	No
-99	not quoted	quoted		-77	Yes
-99	quoted	not quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	No
-99	not quoted	not quoted	Heat pump with no furnace backup	Yes	
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
Electric Mini-Splits	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes



Export 1.1

Fireplace	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
Gas logs	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	No
Dysentery	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	No
-99	not quoted	not quoted	-77	Yes
Electric heater	not quoted	not quoted	-77	No
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	Heat pump with gas furnace backup	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	No
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes

## Export 1.1

-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
Gas stove	not quoted	not quoted	Heat pump with gas furnace backup	Yes	
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
Gas logs	not quoted	not quoted	Heat pump with gas furnace backup	Yes	
-99	not quoted	not quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
natural gas Fireplace	not quoted	not quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted	Heat pump with gas furnace backup	Yes	
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	No
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
Gas fire log in Great Room	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted	Heat pump with electric furnace backup	Yes	
-99	not quoted	quoted		-77	Yes
fireplace-wood	not quoted	not quoted		-77	Yes
-99	not quoted	not quoted	Heat pump with electric furnace backup	Yes	
Electric blankets	not quoted	not quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	quoted		-77	Yes
-99	not quoted	not quoted	Heat pump with no furnace backup	Yes	

## Export 1.1

-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	No
Free standing gas	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
Gas fireplace logs	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	No
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
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-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
Large fireplace with damper and glass screen	not quoted	not quoted	-77	Yes
Electric fireplace	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
Ventless fireplace	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
Fire place	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes

## Export 1.1

-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	Heat pump with gas furnace backup	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
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-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	No
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-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	No
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
Fireplace	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	No
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	Heat pump with electric furnace backup	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes

## Export 1.1

-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	No
Wood burning Fireplace	not quoted	not quoted	-77	Yes
wood burning fireplace	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
fireplace	not quoted	not quoted	Heat pump with no furnace backup	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
Kerosene heater	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
Gas fireplace	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	Heat pump with gas furnace backup	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes

Export 1.1

-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	Heat pump with electric furnace backup	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	Heat pump with no furnace backup	Yes
-99	not quoted	quoted	-77	No
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	No
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	No
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes

## Export 1.1

-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
2 gas fireplaces	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
Fireplace	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	No
gas fireplace	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	Heat pump with electric furnace backup	No
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	quoted	-77	Yes
-99	not quoted	not quoted	-77	No
-99	not quoted	quoted	-77	No
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	Heat pump with electric furnace backup	Yes
-99	not quoted	not quoted	-77	Yes
-99	not quoted	not quoted	Heat pump with electric furnace backup	Yes
-99	not quoted	quoted	-77	Yes
Total of 3 heat pumps	not quoted	not quoted	-77	Yes

## Export 1.1

Q8_Central_air	Q8_Q8_Heat_pump	Q8_Q8_air_conditioner	Q8_
	-77 -66	-77 -66	-77 -66
%s Number of Units	1	%s Number of Units	1
Do not have this type of unit	-99	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
Do not have this type of unit	-99	%s Number of Units	1
%s Number of Units	1	%s Number of Units	1
%s Number of Units	2	Do not have this type of unit	-99
%s Number of Units	2	%s Number of Units	2
Do not have this type of unit	-99	%s Number of Units	1
Do not have this type of unit	-99	%s Number of Units	1
%s Number of Units	1	%s Number of Units	1
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
Do not have this type of unit	-99	%s Number of Units	1
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
Do not have this type of unit	-99	%s Number of Units	1
Do not have this type of unit	-99	%s Number of Units	1
Do not have this type of unit	-99	%s Number of Units	1
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	%s Number of Units	1
Do not have this type of unit	-99	%s Number of Units	1
%s Number of Units	2	%s Number of Units	1
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
Do not have this type of unit	-99	%s Number of Units	1
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
Do not have this type of unit	-99	%s Number of Units	1
Do not have this type of unit	-99	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
Do not have this type of unit	-99	%s Number of Units	2
%s Number of Units	1	%s Number of Units	1
Do not have this type of unit	-99	Do not have this type of unit	-99
Do not have this type of unit	-99	%s Number of Units	2
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99
Do not have this type of unit	-99	%s Number of Units	2
%s Number of Units	1	%s Number of Units	1
Do not have this type of unit	-99	Do not have this type of unit	-99
Do not have this type of unit	-99	%s Number of Units	1
%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	%s Number of Units	1





















Export 1.1

%s Number of Units	1	%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99	%s Number of Units	1
%s Number of Units	1	Do not have this type of unit	-99	Do not have this type of unit	-99
%s Number of Units	1	%s Number of Units	1	Do not have this type of unit	-99
Do not have this type of unit	-99	%s Number of Units	2	Do not have this type of unit	-99
Do not have this type of unit	-99	Do not have this type of unit	-99	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99	%s Number of Units	1
%s Number of Units	1	%s Number of Units	1	%s Number of Units	1
	-77	-66		-77	-66
%s Number of Units	1	Do not have this type of unit	-99	%s Number of Units	1
%s Number of Units	1	Do not have this type of unit	-99	Do not have this type of unit	-99
	-77	-66		-77	-66
%s Number of Units	1	Do not have this type of unit	-99	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99	Do not have this type of unit	-99
%s Number of Units	1	%s Number of Units	1	Do not have this type of unit	-99
Do not have this type of unit	-99	Do not have this type of unit	-99	%s Number of Units	3
%s Number of Units	1	Do not have this type of unit	-99	Do not have this type of unit	-99
%s Number of Units	1	%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	2	%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	%s Number of Units	1	%s Number of Units	1
%s Number of Units	1	Do not have this type of unit	-99	%s Number of Units	2
Do not have this type of unit	-99	%s Number of Units	1	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99	Do not have this type of unit	-99
%s Number of Units	1	Do not have this type of unit	-99	Do not have this type of unit	-99
	-77	-66		-77	-66
	-77	-66		-77	-66
%s Number of Units	1	Do not have this type of unit	-99	Do not have this type of unit	-99
%s Number of Units	1	%s Number of Units	1	Do not have this type of unit	-99
Do not have this type of unit	-99	%s Number of Units	2	Do not have this type of unit	-99
%s Number of Units	2	%s Number of Units	2	%s Number of Units	1
%s Number of Units	1	Do not have this type of unit	-99	Do not have this type of unit	-99
Do not have this type of unit	-99	%s Number of Units	2	Do not have this type of unit	-99



















## Export 1.1

Do not have this type of unit	-99	Year Installed : 1989	Year Installed : 1989	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2018		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2001		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Don't Know	-99	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2016		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Don't Know	-99	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2012		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2018		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2017		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2013	Year Installed : 2013	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2014		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2008		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2013		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2018		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2015		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2015		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2002	Year Installed : 2002	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2018		-77	-66	-77	-66	-77	-66
%s Number of Units	1	Year Installed : 2019		-77	-66	-77	-66	-77	-66
	-77	-66	-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	Year Installed : 2005		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Don't Know	-99	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2019		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2018		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99		-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	Year Installed : 2018		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2018	Year Installed : 2003	-77	-66	-77	-66	-77	-66
	-77	-66	-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	Year Installed : 2019		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2018		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2008		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 1993		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Don't Know	-99	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Don't Know	-99	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2020		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2014	Year Installed : 2015	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2010		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 1995		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 1988		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2016		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Don't Know	-99	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2014		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2019	Year Installed : 1995	-77	-66	-77	-66	-77	-66
%s Number of Units	1		-77	-66	-77	-66	-77	-66	-77
%s Number of Units	1		-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	Year Installed : 2016		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2010		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2019		-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Don't Know	-99	-77	-66	-77	-66	-77	-66
	-77	-66	-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	Don't Know	-99	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2010		-77	-66	-77	-66	-77	-66

## Export 1.1

Do not have this type of unit	-99	Year Installed : 2017	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2019	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Don't Know	-99	-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	Year Installed : 2010	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	-77	-66	-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	-77	-66	-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	Don't Know	-99	-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	Year Installed : 2013	-77	-66	-77	-66	-77	-66	-77	-66
	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2006	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2010	-77	-66	-77	-66	-77	-66	-77	-66
	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2016	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2011	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 1989	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2015	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	-77	-66	-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	Year Installed : 2015	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2007	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2020	Year Installed : 2018	-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	Year Installed : 2005	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Don't Know	-99	-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	-77	-66	-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	Year Installed : 2017	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2018	-77	-66	-77	-66	-77	-66	-77	-66
	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2019	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	Year Installed : 2012	-77	-66	-77	-66	-77	-66	-77	-66
Do not have this type of unit	-99	-77	-66	-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	Year Installed : 2010	Year Installed : 2008	-77	-66	-77	-66	-77	-66	-77
Do not have this type of unit	-99	Year Installed : 2002	-77	-66	-77	-66	-77	-66	-77	-66
%s Number of Units	1	-77	-66	-77	-66	-77	-66	-77	-66	-77





















Export 1.1

-77 -66 Year Installed : 2017	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	Don't Know
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 Year Installed : 2010	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 Year Installed : 2019	Year Installed : 2006	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	Year Installed :
-77 -66 Year Installed : 2013	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	Year Installed :
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	Year Installed :
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 Year Installed : 2015	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	Year Installed :
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 Year Installed : 2007	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 Year Installed : 2007	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 Don't Know -99	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	Year Installed :
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	Don't Know
-77 -66 Don't Know -99	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 Year Installed : 2012	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 Year Installed : 2010	Year Installed : 2008	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 Year Installed : 2010	Year Installed : 2010	-77 -66 -77 -66 -77 -66 -77 -66	Year Installed :
-77 -66 -77 -66	-77 -66	-77 -66 -77 -66 -77 -66 -77 -66	-77
-77 -66 Year Installed : 2008	Year Installed : 2008	-77 -66 -77 -66 -77 -66 -77 -66	-77





















Export 1.1

-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-99	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
2017	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
2019	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
2015	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
2020	Year Installed :	2020	Year Installed :	2018	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
2020	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-99	Year Installed :	2019	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66	-77	-66
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## Export 1.1

-77	-66	-77	-66	-77	-66	-77	-66	Yes, not high efficiency
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-77	-66	-77	-66	-77	-66	-77	-66	Yes, high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, not high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, not high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, not high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, not high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, not high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, not high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, not high efficiency
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-77	-66	-77	-66	-77	-66	-77	-66	Yes, high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, not high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, high efficiency
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-77	-66	-77	-66	-77	-66	-77	-66	No
-77	-66	-77	-66	-77	-66	-77	-66	Yes, high efficiency
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-77	-66	-77	-66	-77	-66	-77	-66	Yes, not high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, not high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, not high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, not high efficiency
-77	-66	-77	-66	-77	-66	-77	-66	Yes, high efficiency





















## Export 1.1

Yes, not high efficiency	Yes, not high efficiency	Yes, not high efficiency	Yes, not high efficiency	Kentucky	-77
Yes, high efficiency	Yes, high efficiency	Yes, high efficiency	Yes, not high efficiency	Kentucky	-77
Yes, not high efficiency	No	Yes, not high efficiency	Don't know	Kentucky	-77
Yes, high efficiency	No	Yes, high efficiency	Yes, high efficiency	Kentucky	-77
Yes, not high efficiency	Yes, not high efficiency	Yes, high efficiency	Yes, not high efficiency	Kentucky	-77
Yes, not high efficiency	Yes, not high efficiency	Yes, not high efficiency	Yes, not high efficiency	Kentucky	-77
Yes, not high efficiency	No	Yes, not high efficiency	Yes, not high efficiency	Kentucky	-77
Yes, high efficiency	Yes, high efficiency	Yes, not high efficiency	Yes, not high efficiency	Kentucky	-77
Yes, not high efficiency	No	Yes, high efficiency	Yes, high efficiency	Virginia	-77
Yes, high efficiency	Yes, high efficiency	Yes, high efficiency	Yes, not high efficiency	Kentucky	-77
Yes, high efficiency	Yes, not high efficiency	Yes, high efficiency	Yes, high efficiency	Kentucky	-77
Yes, not high efficiency	Yes, not high efficiency	Yes, not high efficiency	Yes, high efficiency	Virginia	-77
Yes, high efficiency	Yes, not high efficiency	Yes, not high efficiency	Yes, not high efficiency	Kentucky	-77
Yes, high efficiency	Yes, high efficiency	Yes, not high efficiency	Yes, not high efficiency	Kentucky	-77
Yes, high efficiency	Don't know	Yes, high efficiency	Don't know	Kentucky	-77
Yes, not high efficiency	Yes, high efficiency	Yes, high efficiency	Yes, high efficiency	Kentucky	-77
Yes, high efficiency	Yes, high efficiency	Yes, not high efficiency	Don't know	Kentucky	-77
Yes, high efficiency	Yes, not high efficiency	Yes, high efficiency	Yes, high efficiency	Kentucky	-77
Yes, high efficiency	Yes, not high efficiency	Yes, high efficiency	Yes, not high efficiency	Kentucky	-77
Yes, not high efficiency	Yes, not high efficiency	Yes, not high efficiency	Yes, not high efficiency	Kentucky	-77
Yes, high efficiency	Yes, high efficiency	Yes, high efficiency	Yes, high efficiency	Kentucky	-77
Yes, high efficiency	No	Yes, high efficiency	Yes, high efficiency	Kentucky	-77
Yes, high efficiency	Yes, not high efficiency	Yes, not high efficiency	Yes, not high efficiency	Kentucky	-77
No	No	Yes, not high efficiency	Yes, not high efficiency	Kentucky	-77
Yes, high efficiency	Yes, high efficiency	Yes, high efficiency	Yes, high efficiency	Kentucky	-77
Yes, not high efficiency	No	Yes, not high efficiency	Yes, not high efficiency	Kentucky	-77
Yes, high efficiency	No	Yes, not high efficiency	Yes, not high efficiency	Kentucky	-77
Yes, high efficiency	No	No	Yes, high efficiency	Kentucky	-77
Yes, high efficiency	Yes, not high efficiency	Yes, not high efficiency	Yes, high efficiency	Kentucky	-77
Yes, not high efficiency	Yes, not high efficiency	Yes, not high efficiency	Yes, high efficiency	Kentucky	-77
Yes, high efficiency	Yes, high efficiency	Yes, high efficiency	Yes, high efficiency	Kentucky	-77
Yes, not high efficiency	Yes, high efficiency	Yes, high efficiency	Don't know	Kentucky	-77
Yes, high efficiency	Yes, high efficiency	Yes, high efficiency	Yes, not high efficiency	Kentucky	-77



Export 1.1

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Export 1.1

m\_q2

Online payment through My Account using a debit/credit card  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online payment through My Account using an electronic check  
Online payment through My Account using an electronic check  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
In person at one of the walk-in locations  
Online payment through My Account using an electronic check  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online payment through My Account using a debit/credit card  
Online payment through My Account using an electronic check  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online Bill Pay from your bank  
Online payment through My Account using a debit/credit card  
Online Bill Pay from your bank  
Mail in your payment with your bill stub  
Online Bill Pay from your bank  
Online payment through My Account using an electronic check  
Online payment through My Account using an electronic check  
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Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online payment through My Account using a debit/credit card  
Online Bill Pay from your bank  
One-time online payment using an electronic check  
In person at one of the walk-in locations  
Online payment through My Account using a debit/credit card  
Mail in your payment with your bill stub  
Online payment through My Account using a debit/credit card  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online Bill Pay from your bank  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online Bill Pay from your bank

Export 1.1

Online payment through My Account using a debit/credit card  
Online payment through My Account using an electronic check  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online Bill Pay from your bank  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online Bill Pay from your bank  
Online payment through My Account using an electronic check  
Online Bill Pay from your bank  
Online payment through My Account using a debit/credit card  
Online payment through My Account using an electronic check  
Online payment through My Account using an electronic check  
Online Bill Pay from your bank  
Online payment through My Account using an electronic check  
Online payment through My Account using an electronic check  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
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Online Bill Pay from your bank  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online payment through My Account using an electronic check  
Online payment through My Account using an electronic check  
Online payment through My Account using a debit/credit card  
Online payment through My Account using an electronic check  
Mail in your payment with your bill stub  
Online payment through My Account using a debit/credit card  
Online Bill Pay from your bank  
Call the 24-hour automated service  
Mail in your payment with your bill stub  
Online payment through My Account using an electronic check  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
In person at one of the walk-in locations  
Online Bill Pay from your bank  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online Bill Pay from your bank  
Online Bill Pay from your bank  
Online payment through My Account using a debit/credit card  
In person at one of the walk-in locations  
Online Bill Pay from your bank  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online payment through My Account using a debit/credit card  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
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Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve

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One-time online payment using an electronic check  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
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Mail in your payment with your bill stub  
Online payment through My Account using an electronic check  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
One-time online payment through our third-party payment provider, Paymentus  
Online payment through My Account using a debit/credit card  
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Online payment through My Account using a debit/credit card  
Online payment through My Account using a debit/credit card  
In person at one of the walk-in locations  
Online payment through My Account using an electronic check  
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Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online payment through My Account using a debit/credit card  
Online Bill Pay from your bank



Export 1.1

Online payment through My Account using an electronic check  
One-time online payment through our third-party payment provider, Paymentus  
Online payment through My Account using a debit/credit card  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online payment through My Account using a debit/credit card  
Online Bill Pay from your bank  
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Mail in your payment with your bill stub  
Online payment through My Account using an electronic check  
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Online Bill Pay from your bank  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
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Online payment through My Account using an electronic check  
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Online payment through My Account using an electronic check  
Online Bill Pay from your bank  
Online Bill Pay from your bank  
Online payment through My Account using an electronic check  
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Online Bill Pay from your bank  
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Online payment through My Account using an electronic check  
Online payment through My Account using a debit/credit card  
Online payment through My Account using an electronic check  
Online Bill Pay from your bank  
Online payment through My Account using a debit/credit card  
Online payment through My Account using an electronic check  
Online Bill Pay from your bank  
Online Bill Pay from your bank  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve

Export 1.1

Online payment through My Account using an electronic check  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Mail in your payment with your bill stub  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online Bill Pay from your bank  
Online payment through My Account using an electronic check  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Mail in your payment with your bill stub  
Online payment through My Account using an electronic check  
Online Bill Pay from your bank  
Call the 24-hour automated service  
Online payment through My Account using an electronic check  
Online payment through My Account using an electronic check  
Online payment through My Account using an electronic check  
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Online payment through My Account using an electronic check  
One-time online payment using an electronic check  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online payment through My Account using an electronic check

Online Bill Pay from your bank  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Mail in your payment with your bill stub  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online Bill Pay from your bank  
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Online Bill Pay from your bank  
Mail in your payment with your bill stub  
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Mail in your payment with your bill stub  
Online Bill Pay from your bank  
Online Bill Pay from your bank  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online payment through My Account using an electronic check  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve

Export 1.1

Online payment through My Account using an electronic check  
Online payment through My Account using an electronic check  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Online payment through My Account using an electronic check  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
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Online payment through My Account using a debit/credit card  
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Online Bill Pay from your bank  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
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Online payment through My Account using a debit/credit card  
Online payment through My Account using an electronic check  
Online payment through My Account using an electronic check  
Online payment through My Account using an electronic check  
Online payment through My Account using an electronic check  
Online Bill Pay from your bank  
Online payment through My Account using an electronic check  
Online payment through My Account using an electronic check  
Online payment through My Account using a debit/credit card  
Online payment through My Account using a debit/credit card  
Mail in your payment with your bill stub  
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Online payment through My Account using an electronic check  
Online payment through My Account using an electronic check  
Online payment through My Account using a debit/credit card  
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Online payment through My Account using an electronic check  
Other (Please specify)  
Online payment through My Account using a debit/credit card  
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Other (Please specify)  
Automatic payments – also called Auto Pay which deducts your payment directly from your bank account automatically eve  
Mail in your payment with your bill stub  
Mail in your payment with your bill stub

m_q2_oth	m_q3	m_q4	m_q5_1	m_q5_2
-99	\$180 to less than \$200	Yes	quoted	-77
-99	\$100 to less than \$120	Yes	quoted	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	quoted
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$120 to less than \$140	Yes	quoted	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	quoted
-99	\$120 to less than \$140	Yes	-77	-77
-99	More than \$200	Yes	quoted	quoted
-99	\$120 to less than \$140	Yes	-77	quoted
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$100 to less than \$120	Yes	quoted	quoted
-99	More than \$200	No	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$140 to less than \$160	Yes	quoted	quoted
-99	\$100 to less than \$120	Don't Know	-77	-77
-99	\$100 to less than \$120	Yes	quoted	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$180 to less than \$200	Yes	quoted	quoted
-99	\$60 to less than \$80	Yes	quoted	quoted
-99	\$60 to less than \$80	Yes	quoted	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	More than \$200	Don't Know	-77	-77



Export 1.1

Wilson

-99	\$160 to less than \$180	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$40 to less than \$60	Yes	-77	-77
-99	More than \$200	No	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Don't Know	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$60 to less than \$80	No	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$160 to less than \$180	Don't Know	-77	-77
-99	\$80 to less than \$100	No	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$100 to less than \$120	No	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$40 to less than \$60	Yes	-77	-77
-99	\$140 to less than \$160	No	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$40 to less than \$60	No	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77

Export 1.1

Wilson

-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$100 to less than \$120	Don't Know	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	More than \$200	No	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$120 to less than \$140	No	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$100 to less than \$120	Don't Know	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$80 to less than \$100	No	-77	-77
-99	More than \$200	Yes	-77	-77
-99	Less than \$40	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$60 to less than \$80	Don't Know	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$40 to less than \$60	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$40 to less than \$60	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	Less than \$40	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77

-99	More than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	No	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$140 to less than \$160	No	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$80 to less than \$100	No	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	No	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$80 to less than \$100	Don't Know	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$100 to less than \$120	No	-77	-77
-99	\$40 to less than \$60	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	More than \$200	Don't Know	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77

Export 1.1

Wilson

-99	\$120 to less than \$140	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$160 to less than \$180	Don't Know	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$40 to less than \$60	No	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$80 to less than \$100	Don't Know	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$40 to less than \$60	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$60 to less than \$80	Don't Know	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77

-99	\$120 to less than \$140	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$80 to less than \$100	No	-77	-77
-99	\$80 to less than \$100	No	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	More than \$200	No	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$100 to less than \$120	No	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$80 to less than \$100	No	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	More than \$200	Don't Know	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$60 to less than \$80	No	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$40 to less than \$60	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$100 to less than \$120	No	-77	-77
-99	\$180 to less than \$200	No	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	No	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	More than \$200	No	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$80 to less than \$100	No	-77	-77
-99	\$120 to less than \$140	No	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	More than \$200	Don't Know	-77	-77

-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	More than \$200	No	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$60 to less than \$80	No	-77	-77
-99	\$180 to less than \$200	No	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$120 to less than \$140	No	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	More than \$200	No	-77	-77
-99	\$160 to less than \$180	Don't Know	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$80 to less than \$100	No	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$100 to less than \$120	No	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$40 to less than \$60	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$160 to less than \$180	No	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	More than \$200	Don't Know	-77	-77
-99	\$80 to less than \$100	No	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	More than \$200	No	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$80 to less than \$100	Don't Know	-77	-77

-99	\$160 to less than \$180	No	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	No	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	More than \$200	Yes	-77	-77
-99	\$60 to less than \$80	No	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$100 to less than \$120	Don't Know	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$100 to less than \$120	No	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$140 to less than \$160	Don't Know	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$40 to less than \$60	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
By mail	\$40 to less than \$60	No	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	No	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	Less than \$40	No	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$100 to less than \$120	Don't Know	-77	-77
-99	\$40 to less than \$60	Yes	-77	-77
-99	\$160 to less than \$180	Don't Know	-77	-77
-99	\$140 to less than \$160	Don't Know	-77	-77

-99	\$80 to less than \$100	No	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$60 to less than \$80	No	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$80 to less than \$100	Don't Know	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$160 to less than \$180	No	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$100 to less than \$120	No	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$140 to less than \$160	No	-77	-77
-99	\$60 to less than \$80	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$180 to less than \$200	No	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$180 to less than \$200	Yes	-77	-77
-99	\$80 to less than \$100	Don't Know	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$140 to less than \$160	Don't Know	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$40 to less than \$60	No	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$100 to less than \$120	No	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$80 to less than \$100	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	Don't Know	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	No	-77	-77
-99	More than \$200	Yes	-77	-77
-99	More than \$200	No	-77	-77
-99	\$160 to less than \$180	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77
-99	\$120 to less than \$140	Yes	-77	-77
-99	\$140 to less than \$160	Yes	-77	-77
-99	\$100 to less than \$120	Yes	-77	-77



Export 1.1

-99	\$120 to less than \$140	Yes	-77	-77	
-99	\$120 to less than \$140	Yes	-77	-77	
-99	\$80 to less than \$100	Yes	-77	-77	
-99	\$160 to less than \$180	Yes	-77	-77	
-99	More than \$200	Don't Know	-77	-77	
-99	\$80 to less than \$100	No	-77	-77	
-99	\$100 to less than \$120	Yes	-77	-77	
-99	More than \$200	Yes	-77	-77	
-99	\$160 to less than \$180	Yes	-77	-77	
-99	\$100 to less than \$120	Yes	-77	-77	
-99	\$80 to less than \$100	No	-77	-77	
-99	More than \$200	No	-77	-77	
-99	\$140 to less than \$160	Don't Know	-77	-77	
-99	\$100 to less than \$120	Don't Know	-77	-77	
-99	More than \$200	Don't Know	-77	-77	
-99	\$180 to less than \$200	Yes	-77	-77	
-99	\$120 to less than \$140	Yes	-77	-77	
-99	\$180 to less than \$200	No	-77	-77	
-99	\$140 to less than \$160	No	-77	-77	
-99	More than \$200	No	-77	-77	
-99	\$100 to less than \$120	Yes	-77	-77	
-99	\$140 to less than \$160	Yes	-77	-77	
-99	\$120 to less than \$140	No	-77	-77	
-99	\$120 to less than \$140	Yes	-77	-77	
-99	\$120 to less than \$140	Don't Know	-77	-77	
-99	\$120 to less than \$140	Don't Know	-77	-77	
-99	\$100 to less than \$120	Yes	-77	-77	
-99	\$120 to less than \$140	Yes	-77	-77	
-99	\$160 to less than \$180	Yes	-77	-77	
-99	I have multiple accounts and use both paper and automatic draft.	More than \$200	No	-77	-77
-99		More than \$200	No	-77	-77
-99		\$180 to less than \$200	No	-77	-77
-99		More than \$200	No	-77	-77























## Export 1.1

m_q5a	m_q5a	m_q5a	m_q5a	m_d1_gender	m_d2_ethnic	m_d3_marital	m_c	m_d4_i
quoted	-77	-77	-77	Female	Caucasian	Married	2	-77
-77	-77	-77	-77	Female	Caucasian	Married	2	-77
-77	-77	-77	-77	Female	Caucasian	Divorced	3	-77
-77	-77	-77	-77	Female	Caucasian	Single (never married)	4	-77
-77	-77	-77	-77	Female	Caucasian	Married	2	-77
-77	-77	-77	-77	Male	Caucasian	Married	2	-77
-77	-77	-77	-77	Male	Caucasian	Married	4	-77
-77	-77	-77	-77	Male	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77	Female	Caucasian	Married	4	-77
-77	-77	-77	-77	Female	Caucasian	Married	4	-77
quoted	quoted	-77	-77	Male	Caucasian	Married	2	-77
-77	-77	-77	-77	Male	Caucasian	Married	4	-77
-77	-77	-77	-77	Male	Caucasian	Married	2	-77
-77	-77	-77	-77	Female	African American	Single (never married)	2	-77
-77	-77	-77	-77	Female	Caucasian	Widowed	5	-77
-77	-77	-77	-77	Female	Caucasian	Married	3	-77
quoted	-77	-77	-77	Female	Caucasian	Married	3	-77
-77	-77	-77	-77	Female	Caucasian	Widowed	2	-77
quoted	-77	quoted	-77	Male	Caucasian	Married	4	-77
-77	-77	-77	-77	Female	Caucasian	Married	2	-77
-77	-77	-77	-77	Male	Caucasian	Married	4	-77
-77	-77	-77	-77	Male	Caucasian	Married	3	-77
-77	-77	-77	-77	Male	Caucasian	Married	4	-77
-77	-77	-77	-77	Female	Caucasian	Divorced	2	-77
quoted	quoted	quoted	-77	Male	Caucasian	Divorced	1	-77
quoted	-77	-77	-77	Female	Caucasian	Married	2	-77
-77	-77	-77	-77	Male	Caucasian	Married	4	-77
-77	-77	-77	-77	Female	Caucasian	Separated	2	-77
quoted	-77	-77	-77	Male	Caucasian	Married	4	-77
-77	-77	-77	-77	Female	Caucasian	Single (never married)	2	-77
-77	-77	-77	-77	Male	I prefer not to answer	Domestic partnership	4	-77
-77	-77	-77	quoted	Male	Caucasian	Married	2	-77
-77	-77	-77	-77	Male	Caucasian	Married	2	-77
-77	-77	-77	-77	Female	Caucasian	Married	3	-77
-77	-77	-77	-77	Male	Caucasian	Single (never married)	2	-77
-77	-77	-77	quoted	Female	Caucasian	Married	5	-77
-77	-77	-77	-77	Male	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77	Female	Caucasian	Married	2	-77
-77	-77	-77	-77	Male	Caucasian	Married	2	-77
-77	-77	-77	-77	Female	Caucasian	Domestic partnership	2	-77
-77	-77	-77	-77	Male	Caucasian	Divorced	1	-77
-77	-77	-77	-77	Male	Hispanic/Latino	Single (never married)	1	-77
-77	-77	-77	-77	Male	Caucasian	Married	2	-77
-77	-77	-77	-77	Female	Caucasian	Widowed	1	-77
-77	-77	-77	-77	Male	Caucasian	Married	5	-77
-77	-77	-77	-77	Male	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77	Female	Other	Widowed	1	-77
quoted	-77	-77	-77	Male	Caucasian	Separated	1	-77
-77	-77	-77	-77	Male	Caucasian	Married	2	-77
-77	quoted	-77	-77	Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	quoted	Male	Caucasian	Married	5	-77

Export 1.1

-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Male	Caucasian	Married	5	-77
-77	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	-99	quoted
-77	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
quoted	quoted	quoted	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	2	-77
-77	-77	-77	-77 I prefer not to answer	I prefer not to answer	Married	3	-77
-77	-77	-77	-77 Female	African American	Single (never married)	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Male	Caucasian	I prefer not to answer	1	-77
quoted	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	African American	Single (never married)	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Multiethnic	Divorced	1	-77
-77	-77	-77	-77 I prefer not to answer	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Widowed	1	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	3	-77
-77	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Male	Caucasian	Single (never married)	-99	quoted
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	quoted	quoted	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Male	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Multiethnic	Married	2	-77
-77	-77	-77	-77 Female	I prefer not to answer	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	3	-77

Export 1.1

-77	-77	-77	-77 Male	Caucasian	Married	-99	quoted
-77	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Widowed	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	5	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	quoted Male	Caucasian	Married	2	-77
quoted	quoted	quoted	-77 Male	Caucasian	Married	4	-77
quoted	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
quoted	-77	-77	-77 Male	Caucasian	I prefer not to answer	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
quoted	-77	quoted	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Domestic partnership	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	quoted Female	Caucasian	Married	2	-77
quoted	quoted	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	quoted Female	Caucasian	Married	5	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	2	-77
-77	-77	-77	-77 Male	I prefer not to answer	I prefer not to answer	4	-77
quoted	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	Caucasian	Domestic partnership	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Married	6	-77
-77	quoted	quoted	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	2	-77
quoted	-77	-77	-77 Male	Caucasian	Married	1	-77
-77	quoted	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Male	Caucasian	Single (never married)	2	-77
quoted	quoted	-77	-77 Female	Caucasian	Single (never married)	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	3	-77
quoted	quoted	-77	-77 Male	Caucasian	Divorced	5	-77
quoted	-77	-77	-77 Female	African American	Single (never married)	3	-77
-77	-77	-77	-77 I prefer not to answer	I prefer not to answer	I prefer not to answer	-99	quoted
quoted	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Male	Caucasian	Domestic partnership	5	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	2	-77
quoted	quoted	-77	-77 Female	Caucasian	Married	2	-77
quoted	quoted	-77	-77 Female	African American	Single (never married)	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	3	-77

Export 1.1

-77	-77	-77	-77 Male	Caucasian	Married	11	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	-99	quoted
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	I prefer not to answer	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	3	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Domestic partnership	1	-77
quoted	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	African American	Single (never married)	2	-77
quoted	-77	-77	-77 Male	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
quoted	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	quoted	-77	-77 Female	Caucasian	Married	4	-77
quoted	quoted	quoted	-77 Female	Caucasian	Divorced	3	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	5	-77
quoted	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	1	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	quoted	-77	-77 Male	Caucasian	Single (never married)	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	I prefer not to answer	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	3	-77
-77	-77	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
quoted	-77	-77	-77 Female	Caucasian	Divorced	1	-77
quoted	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Married	3	-77
quoted	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Domestic partnership	2	-77
-77	-77	-77	-77 Male	Caucasian	Widowed	1	-77
quoted	quoted	-77	-77 Male	Caucasian	Married	3	-77
quoted	quoted	quoted	-77 Male	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
quoted	quoted	-77	-77 Male	Caucasian	Married	4	-77

## Export 1.1

quoted	-77	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
quoted	quoted	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Divorced	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	4	-77
-77	-77	-77	-77 Male	Asian	Married	4	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	African American	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	3	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
quoted	-77	quoted	-77 Female	Caucasian	Married	3	-77
-77	-77	-77	-77 Male	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
quoted	-77	-77	-77 I prefer not to answer	I prefer not to answer	I prefer not to answer	-99	quoted
-77	-77	-77	-77 Male	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Domestic partnership	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	5	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Divorced	2	-77
quoted	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Single (never married)	1	-77
quoted	-77	-77	-77 Female	Caucasian	Domestic partnership	2	-77
-77	-77	-77	-77 Male	African American	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	2	-77
quoted	quoted	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	quoted	-77 Female	Caucasian	Married	3	-77
-77	-77	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
quoted	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	5	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Widowed	1	-77
quoted	-77	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Domestic partnership	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Divorced	1	-77



Export 1.1

quoted	quoted	quoted	-77 Male	Caucasian	Married	3	-77
quoted	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	3	-77
-77	-77	-77	quoted Female	Other	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	5	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Multiethnic	Single (never married)	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	1	-77
-77	-77	-77	-77 Female	African American	I prefer not to answer	3	-77
-77	-77	-77	-77 Female	Caucasian	Domestic partnership	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Domestic partnership	2	-77
quoted	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Widowed	1	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Male	Caucasian	Separated	2	-77
-77	-77	-77	-77 Male	Caucasian	Separated	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	quoted Female	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Multiethnic	Married	2	-77
quoted	quoted	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Widowed	1	-77
-77	-77	-77	quoted Male	Caucasian	Single (never married)	-99	quoted
-77	-77	-77	-77 Female	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Widowed	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Male	African American	Widowed	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	African American	Divorced	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	4	-77

Export 1.1

-77	-77	-77	-77 Male	Caucasian	Married	3	-77
quoted	quoted	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Domestic partnership	3	-77
quoted	-77	-77	-77 Male	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Multiethnic	Divorced	4	-77
-77	-77	-77	-77 Female	Asian	Married	3	-77
-77	-77	-77	-77 Male	Caucasian	Single (never married)	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
quoted	-77	-77	-77 Male	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	3	-77
quoted	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	I prefer not to answer	I prefer not to answer	3	-77
-77	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
quoted	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	African American	Single (never married)	5	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	I prefer not to answer	I prefer not to answer	-99	quoted
-77	-77	-77	-77 Male	Caucasian	Single (never married)	1	-77
-77	quoted	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	I prefer not to answer	1	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	3	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Single (never married)	1	-77
-77	-77	-77	quoted Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	4	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
quoted	quoted	quoted	-77 Female	Multiethnic	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	5	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	African American	Divorced	1	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	2	-77
-77	-77	-77	-77 Male	Caucasian	Divorced	3	-77
-77	-77	-77	-77 Female	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Widowed	2	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Single (never married)	2	-77
quoted	-77	-77	-77 Male	Caucasian	Domestic partnership	3	-77
-77	-77	-77	-77 Female	Caucasian	Widowed	1	-77
-77	-77	-77	-77 Male	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	Asian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77

Export 1.1

-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	5	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
quoted	quoted	-77	-77 Male	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
quoted	-77	-77	-77 Male	Caucasian	Married	6	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	3	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	African American	Divorced	3	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	2	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	5	-77
-77	-77	-77	-77 Female	Caucasian	Widowed	1	-77
-77	-77	-77	quoted Female	Caucasian	Married	3	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 I prefer not to answer	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
quoted	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
quoted	-77	-77	-77 Male	African American	I prefer not to answer	1	-77
-77	-77	-77	-77 Female	Caucasian	Domestic partnership	3	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	quoted	-77	-77 Male	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	6	-77
-77	-77	-77	-77 Female	Caucasian	I prefer not to answer	-99	quoted
-77	-77	-77	-77 Female	Caucasian	Domestic partnership	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Male	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
quoted	-77	-77	-77 Female	Caucasian	Divorced	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
quoted	quoted	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Widowed	2	-77
-77	-77	-77	-77 Female	Asian	Domestic partnership	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	quoted Male	Caucasian	Widowed	1	-77
quoted	-77	-77	-77 Male	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	3	-77

Export 1.1

-77	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	I prefer not to answer	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Domestic partnership	3	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	quoted Female	Caucasian	Divorced	1	-77
quoted	-77	-77	-77 Male	Caucasian	Divorced	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Divorced	1	-77
quoted	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	quoted	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Male	Caucasian	Married	3	-77
-77	-77	-77	-77 Male	Caucasian	Married	6	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	3	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
quoted	-77	-77	-77 Female	Caucasian	Single (never married)	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	quoted Female	Caucasian	Married	3	-77
-77	-77	-77	-77 Male	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Male	Caucasian	Domestic partnership	2	-77
-77	-77	-77	-77 Female	Caucasian	Widowed	-99	quoted
-77	-77	-77	-77 Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77 Male	Caucasian	Widowed	1	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	quoted	-77	-77 Female	Caucasian	Married	4	-77
quoted	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Male	Caucasian	Domestic partnership	2	-77
-77	-77	-77	-77 Female	Caucasian	Widowed	2	-77
-77	-77	-77	-77 Male	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77
-77	-77	-77	-77 Female	Caucasian	Married	4	-77
-77	-77	-77	-77 Female	Caucasian	Married	2	-77

Export 1.1

quoted	-77	quoted	-77	Male	Caucasian	Married	6	-77
-77	-77	-77	-77	Male	Caucasian	Divorced	6	-77
-77	-77	-77	-77	Female	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77	Male	Caucasian	Married	4	-77
-77	-77	-77	-77	Male	Caucasian	Married	2	-77
-77	-77	-77	-77	Female	Caucasian	I prefer not to answer	1	-77
quoted	-77	-77	-77	Male	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77	Female	Caucasian	Married	3	-77
-77	-77	-77	-77	Female	Caucasian	Married	2	-77
-77	-77	-77	-77	Male	Caucasian	Single (never married)	1	-77
-77	-77	-77	-77	Male	Caucasian	Divorced	2	-77
-77	-77	-77	-77	Male	Caucasian	Married	2	-77
-77	-77	-77	-77	Female	Caucasian	Married	2	-77
-77	-77	-77	-77	Male	Caucasian	Married	2	-77
-77	-77	-77	-77	Male	Caucasian	Married	2	-77
quoted	-77	quoted	-77	Male	Caucasian	Married	3	-77
-77	-77	-77	-77	Male	I prefer not to answer	Married	2	-77
-77	-77	-77	-77	Male	Caucasian	Married	3	-77
-77	-77	-77	-77	Female	Caucasian	Married	2	-77
quoted	-77	-77	-77	Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77	Female	Caucasian	Married	2	-77
-77	-77	-77	-77	Female	Caucasian	Divorced	1	-77
-77	-77	-77	-77	Female	African American	Single (never married)	1	-77
-77	-77	-77	-77	Male	Caucasian	Married	2	-77
-77	-77	-77	-77	Male	Caucasian	Divorced	2	-77
-77	-77	-77	-77	Female	Caucasian	Single (never married)	2	-77
-77	-77	-77	-77	Female	Caucasian	Divorced	2	-77
-77	-77	-77	-77	Male	Asian	Married	4	-77
-77	-77	-77	-77	Male	Caucasian	Divorced	2	-77
-77	-77	-77	-77	Male	Caucasian	Married	2	-77
-77	-77	-77	-77	Male	African American	Widowed	1	-77
-77	-77	-77	-77	Male	Caucasian	Married	2	-77

## Export 1.1

m_d5	m_c	m_d5a	m_d6
No	-99	-77	I own a mobile home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
Yes	2	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
Yes	2	-77	I own a single-family home (with or without a mortgage)
	-77	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77	I own a single-family home (with or without a mortgage)
Yes	2	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
Yes	1	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
Yes	1	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
Yes	1	-77	I own a single-family home (with or without a mortgage)
Yes	1	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I rent an apartment, condominium, or townhouse
Yes	1	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
Yes	2	-77	Other
No	-99	-77	I own a single-family home (with or without a mortgage)
Yes	2	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I rent an apartment, condominium, or townhouse
	-77	-99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77	I own a single-family home (with or without a mortgage)
Yes	2	-77	I own a single-family home (with or without a mortgage)
Yes	1	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
Yes	1	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
Yes	1	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
Yes	3	-77	I rent a single-family home
	-77	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
	-77	-99	-77 I own a single-family home (with or without a mortgage)
	-77	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
	-77	-99	-77 I own a single-family home (with or without a mortgage)
Yes	3	-77	I own a mobile home (with or without a mortgage)
	-77	-99	-77 I own a single-family home (with or without a mortgage)
	-77	-99	-77 I rent a single-family home
	-77	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77	I own a single-family home (with or without a mortgage)
	-77	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77	I own a single-family home (with or without a mortgage)

## Export 1.1

Yes	2	-77 I rent a single-family home
Yes	2	-77 I own a mobile home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent a single-family home
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a mobile home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a condominium or townhouse (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
I prefer not to answer	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a mobile home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent a single-family home
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 Other
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)

## Export 1.1

	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
Yes	3	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent a single-family home
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a condominium or townhouse (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a condominium or townhouse (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a mobile home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a condominium or townhouse (with or without a mortgage)
Yes	1	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 Other
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent a single-family home
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
Yes	3	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a condominium or townhouse (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent an apartment, condominium, or townhouse
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a condominium or townhouse (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	3	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I rent an apartment, condominium, or townhouse
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a condominium or townhouse (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)



## Export 1.1

Yes	5	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I rent a single-family home
Yes	2	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a condominium or townhouse (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I rent a single-family home
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a mobile home (with or without a mortgage)
	-77 -99	-77 I own a condominium or townhouse (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)

## Export 1.1

Yes	2	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
Yes	2	-77 I rent a single-family home
Yes	2	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	3	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a mobile home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I rent a single-family home
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a condominium or townhouse (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a mobile home (with or without a mortgage)
No	-99	-77 I own a condominium or townhouse (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	3	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a condominium or townhouse (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)

## Export 1.1

Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent a single-family home
No	-99	-77 Other
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	3	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 Other
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a condominium or townhouse (with or without a mortgage)
	-77 -99	-77 I own a condominium or townhouse (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a condominium or townhouse (with or without a mortgage)
No	-99	-77 I own a mobile home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a condominium or townhouse (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent an apartment, condominium, or townhouse
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent an apartment, condominium, or townhouse
Yes	3	-77 I own a single-family home (with or without a mortgage)

## Export 1.1

Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	3	-77 I rent a single-family home
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a condominium or townhouse (with or without a mortgage)
	-77 -99	-77 I rent a single-family home
Yes	1	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	3	-77 I rent a single-family home
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent an apartment, condominium, or townhouse
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a condominium or townhouse (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
Yes	3	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I rent a single-family home
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent a single-family home
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
	-77 -99	-77 I rent an apartment, condominium, or townhouse
	-77 -99	-77 I own a single-family home (with or without a mortgage)

## Export 1.1

No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	3	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I rent an apartment, condominium, or townhouse
Yes	3	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent an apartment, condominium, or townhouse
Yes	3	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent a single-family home
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a condominium or townhouse (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a condominium or townhouse (with or without a mortgage)
Yes	-99	quoted I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a condominium or townhouse (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)

## Export 1.1

Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent an apartment, condominium, or townhouse
	-77 -99	-77 I own a condominium or townhouse (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a condominium or townhouse (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a condominium or townhouse (with or without a mortgage)
Yes	4	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	-99	quoted I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
Yes	1	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent a single-family home
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	2	-77 I rent a single-family home
No	-99	-77 I own a single-family home (with or without a mortgage)

Export 1.1

Yes	1	-77 I own a single-family home (with or without a mortgage)
Yes	3	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
Yes	2	-77 I rent a single-family home
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a condominium or townhouse (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
Yes	1	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
I prefer not to answer	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I rent an apartment, condominium, or townhouse
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a condominium or townhouse (with or without a mortgage)
Yes	2	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)
	-77 -99	-77 I own a single-family home (with or without a mortgage)
No	-99	-77 I own a single-family home (with or without a mortgage)

















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## Export 1.1

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Export 1.1

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Export 1.1

m_d14	m_d15	m_d16a	m_d16	m_d16
Other	\$20,000-\$39,999	Rowan	40351	-77
Employed full-time	I prefer not to answer	Jefferson	40220	-77
Employed full-time	\$35,000-\$49,999	Montgomery	40353	-77
Retired	\$35,000-\$49,999	Fayette	40504	-77
Other	\$20,000-\$39,999	Jefferson	40258	-77
Employed full-time	\$50,000-\$74,999	Mason	41056	-77
Currently unemployed	Under \$20,000	Harrison	41031	-77
Self-employed, own/operate home-based business	Under \$20,000	Fayette	-99	40504
Homemaker	\$50,000-\$74,999	Woodford	-99	40383
Employed full-time	\$50,000-\$74,999	Scott	-99	40324
Retired	\$75,000-\$99,999	Wise	-99	24283
Employed full-time	\$150,000 or more	Shelby	-99	40065
Retired	\$150,000 or more	Rowan	-99	40351
Employed full-time	\$20,000-\$39,999	Franklin	-99	40601
Retired	\$20,000-\$39,999	Hardin	-99	40175
Employed full-time	I prefer not to answer	Jefferson	-99	40205
Employed full-time	\$50,000-\$74,999	Oldham	-99	40056
Employed full-time	\$20,000-\$39,999	Jefferson	-99	40218
Retired	\$50,000-\$74,999	Mason	-99	41056
Retired	I prefer not to answer	Boyle	-99	40422
Employed full-time	\$20,000-\$39,999	Union	-99	42437
Employed full-time	I prefer not to answer	Mclean	-99	42350
Employed full-time	\$150,000 or more	Fayette	-99	40504
Other	Under \$20,000	Fleming	-99	41041
Employed full-time	\$100,000-\$149,999	Fayette	-99	40502
Retired		-77	-77 -99	-77
Employed full-time		-77	-77 -99	-77
Employed full-time		-77	-77 -99	-77
Self-employed, own/operate business at another location		-77	-77 -99	-77
Employed full-time		-77	-77 -99	-77
Other		-77	-77 -99	-77
Employed part-time		-77	-77 -99	-77
Retired		-77	-77 -99	-77
Homemaker		-77	-77 -99	-77
Employed full-time		-77	-77 -99	-77
Homemaker		-77	-77 -99	-77
Employed full-time		-77	-77 -99	-77
Retired		-77	-77 -99	-77
Retired		-77	-77 -99	-77
Retired		-77	-77 -99	-77
Retired		-77	-77 -99	-77
Employed full-time		-77	-77 -99	-77
Employed full-time		-77	-77 -99	-77
Retired		-77	-77 -99	-77
Employed full-time		-77	-77 -99	-77
Employed full-time		-77	-77 -99	-77
Retired		-77	-77 -99	-77
Retired		-77	-77 -99	-77
Retired		-77	-77 -99	-77
Employed full-time		-77	-77 -99	-77
Employed full-time		-77	-77 -99	-77



Homemaker	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Currently unemployed	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Other	-77	-77 -99	-77
Other	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Other	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Self-employed, own/operate business at another location	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
I prefer not to answer	-77	-77 -99	-77
I prefer not to answer	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
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Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Other	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77

Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Self-employed, own/operate home-based business	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Self-employed, own/operate home-based business	-77	-77 -99	-77
Currently unemployed	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Self-employed, own/operate home-based business	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Self-employed, own/operate home-based business	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
I prefer not to answer	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Homemaker	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77

Employed full-time	-77	-77 -99	-77
Homemaker	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Self-employed, own/operate home-based business	-77	-77 -99	-77
Retired	-77	-77 -99	-77
I prefer not to answer	-77	-77 -99	-77
Homemaker	-77	-77 -99	-77
I prefer not to answer	-77	-77 -99	-77
Other	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Self-employed, own/operate business at another location	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Self-employed, own/operate home-based business	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Homemaker	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
I prefer not to answer	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Self-employed, own/operate business at another location	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Currently unemployed	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Other	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77

Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Other	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
I prefer not to answer	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
I prefer not to answer	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Homemaker	-77	-77 -99	-77
Other	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Homemaker	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Self-employed, own/operate home-based business	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Homemaker	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77

Employed full-time	-77	-77 -99	-77
Self-employed, own/operate home-based business	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
I prefer not to answer	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Currently unemployed	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Homemaker	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Homemaker	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Other	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77

Export 1.1

Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Other	-77	-77 -99	-77
Homemaker	-77	-77 -99	-77
Currently unemployed	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Self-employed, own/operate home-based business	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
I prefer not to answer	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Self-employed, own/operate business at another location	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77

Retired	-77	-77 -99	-77
Homemaker	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Self-employed, own/operate home-based business	-77	-77 -99	-77
Student	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Other	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
I prefer not to answer	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Currently unemployed	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Homemaker	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Currently unemployed	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77

Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
I prefer not to answer	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Self-employed, own/operate home-based business	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Other	-77	-77 -99	-77
Other	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Homemaker	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77



Export 1.1

Other	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Employed part-time	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Self-employed, own/operate business at another location	-77	-77 -99	-77
Employed full-time	-77	-77 -99	-77
Retired	-77	-77 -99	-77
Retired	-77	-77 -99	-77

Export 1.1

m_ku_metro	md_m_w	m_ε	m_q5n	m_q5n	m_q5n	m_q5n	m_q5n	m_q5b	m_q5b	m_q5b	m_q5c	m_q5c	m_q5c	m_q5c
-77	887	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
-77	887	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
-77	887	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
-77	887	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
-77	887	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
-77	887	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
-77	887	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
-77	887	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Metro	886	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Outlying	885	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Outlying	884	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
-77	881	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Outlying	881	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Outlying	904	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Outlying	881	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Outlying	881	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
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-77	881	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
-77	881	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Outlying	881	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Outlying	881	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Outlying	881	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Outlying	880	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Metro	880	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Outlying	880	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Metro	877	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77
KU_Outlying	831	Yes	No	quoted	-77	-77	quoted	-77	-77	-77	quoted	quoted	-77	-77
KU_Metro	831	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	quoted	quoted
-77	831	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77
KU_Outlying	831	Yes	No	quoted	-77	quoted	quoted	-77	quoted	quoted	-77	quoted	quoted	-77
-77	831	Yes	No	quoted	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77
KU_Outlying	831	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77
KU_Outlying	831	Yes	No	-77	quoted	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	831	Yes	No	quoted	quoted	-77	-77	-77	quoted	-77	-77	quoted	-77	-77
KU_Outlying	831	Yes	No	-77	-77	quoted	-77	-77	-77	quoted	quoted	-77	-77	-77
KU_Outlying	831	Yes	No	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	831	Yes	No	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	831	Yes	No	-77	-77	-77	quoted	-77	-77	-77	quoted	quoted	-77	-77
KU_Outlying	831	Yes	No	quoted	quoted	-77	-77	-77	quoted	quoted	-77	quoted	quoted	-77
KU_Outlying	831	Yes	No	-77	quoted	quoted	-77	-77	-77	quoted	-77	-77	quoted	-77
-77	832	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	quoted	-77	-77
KU_Outlying	831	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	quoted	quoted	-77
KU_Outlying	831	Yes	No	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77	quoted
KU_Outlying	831	Yes	No	-77	-77	-77	-77	quoted	quoted	quoted	-77	-77	-77	-77
KU_Outlying	831	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77
-77	831	Yes	No	-77	-77	-77	-77	quoted	quoted	quoted	-77	quoted	-77	quoted
KU_Outlying	831	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77
KU_Outlying	831	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	quoted	-77	-77
-77	831	Yes	No	quoted	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted
-77	831	Yes	No	quoted	-77	quoted	quoted	-77	-77	-77	quoted	-77	-77	-77
KU_Metro	831	Yes	No	quoted	quoted	-77	-77	-77	quoted	quoted	-77	-77	-77	quoted
-77	831	Yes	No	quoted	quoted	quoted	quoted	-77	-77	-77	quoted	-77	-77	-77
KU_Outlying	831	Yes	No	-77	-77	-77	quoted	-77	-77	quoted	-77	quoted	-77	-77

## Export 1.1

KU_Outlying	831	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	831	Yes	No	-77	quoted	-77	-77	-77	quoted	quoted	-77	-77	quoted	-77	-77
KU_Outlying	831	Yes	No	-77	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
	-77	831	Yes	No	-77	quoted	-77	-77	-77	quoted	-77	quoted	-77	quoted	-77
	-77	831	Yes	No	quoted	quoted	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Metro	830	Yes	No	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77	-77
KU_Outlying	830	Yes	No	-77	-77	-77	-77	quoted	quoted	quoted	-77	quoted	-77	-77	-77
KU_Outlying	830	Yes	No	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77
KU_Outlying	830	Yes	No	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77	-77
	-77	830	Yes	No	-77	-77	-77	quoted	-77	quoted	quoted	-77	-77	-77	-77
	-77	830	Yes	No	quoted	quoted	-77	-77	-77	-77	quoted	-77	quoted	-77	-77
	-77	830	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	quoted	-77	-77
	-77	830	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77
KU_Metro	830	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	830	Yes	No	-77	quoted	quoted	-77	-77	-77	quoted	-77	quoted	-77	-77	-77
	-77	830	Yes	No	-77	quoted	quoted	-77	-77	quoted	-77	-77	quoted	quoted	quoted
	-77	830	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	quoted
	-77	830	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	-77
	-77	830	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	quoted
	-77	830	Yes	No	quoted	-77	quoted	-77	-77	-77	quoted	-77	quoted	quoted	-77
KU_Outlying	830	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	830	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	quoted
KU_Outlying	830	Yes	No	quoted	-77	quoted	quoted	-77	-77	-77	quoted	-77	-77	quoted	-77
KU_Outlying	830	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
KU_Metro	830	Yes	No	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77	-77
KU_Outlying	830	Yes	No	-77	quoted	quoted	-77	-77	-77	quoted	quoted	-77	-77	-77	-77
KU_Metro	830	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	quoted	-77	quoted
KU_Metro	830	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
	-77	830	Yes	No	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	830	Yes	No	-77	-77	-77	-77	quoted	quoted	quoted	-77	quoted	-77	-77
	-77	830	Yes	No	-77	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	quoted
KU_Outlying	830	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	quoted	-77
KU_Outlying	830	Yes	No	quoted	quoted	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77
KU_Outlying	829	Yes	No	-77	-77	quoted	-77	-77	quoted	-77	-77	quoted	-77	-77	-77
KU_Outlying	829	Yes	No	quoted	quoted	quoted	-77	-77	quoted	quoted	-77	quoted	quoted	quoted	quoted
KU_Metro	829	Yes	No	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77	quoted	-77
KU_Outlying	828	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
	-77	827	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77
KU_Outlying	826	Yes	No	-77	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Metro	826	Yes	No	-77	-77	-77	-77	quoted	quoted	quoted	-77	-77	quoted	quoted	-77
KU_Outlying	826	Yes	No	quoted	quoted	quoted	-77	-77	-77	quoted	-77	quoted	-77	quoted	-77
KU_Outlying	826	Yes	No	quoted	quoted	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77
KU_Outlying	826	Yes	No	quoted	-77	quoted	-77	-77	-77	quoted	-77	quoted	quoted	-77	-77
KU_Outlying	826	Yes	No	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77	-77	-77
KU_Outlying	826	Yes	No	quoted	quoted	-77	-77	-77	-77	-77	quoted	quoted	-77	quoted	quoted
KU_Outlying	826	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
KU_Outlying	826	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
KU_Metro	826	Yes	No	quoted	-77	quoted	-77	-77	quoted	quoted	-77	quoted	-77	-77	-77
KU_Outlying	826	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
KU_Metro	826	Yes	No	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77	-77
KU_Outlying	826	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Metro	826	Yes	No	quoted	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77	-77

Export 1.1

KU_Outlying	826	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	quoted	-77	-77
KU_Metro	826	Yes	No	-77	-77	quoted	-77	-77	quoted	quoted	-77	quoted	quoted	-77	-77
KU_Metro	826	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	quoted	-77
KU_Metro	826	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77	-77
KU_Outlying	825	Yes	No	-77	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
KU_Metro	825	Yes	No	-77	quoted	quoted	-77	-77	quoted	quoted	-77	quoted	quoted	-77	quoted
KU_Outlying	825	Yes	No	-77	quoted	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	825	Yes	No	quoted	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	825	Yes	No	quoted	-77	quoted	quoted	-77	-77	-77	quoted	quoted	quoted	quoted	quoted
KU_Outlying	825	Yes	No	-77	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
KU_Metro	825	Yes	No	quoted	quoted	-77	quoted	-77	quoted	quoted	-77	-77	-77	-77	-77
KU_Metro	825	Yes	No	-77	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	825	Yes	No	quoted	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77
KU_Outlying	825	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77
KU_Outlying	825	Yes	No	-77	-77	-77	quoted	-77	-77	-77	quoted	quoted	-77	-77	-77
KU_Outlying	825	Yes	No	-77	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	quoted
-77	825	Yes	No	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	quoted	-77	quoted
KU_Outlying	825	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted
KU_Outlying	846	Yes	No	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77	-77	-77
KU_Outlying	825	Yes	No	-77	quoted	-77	quoted	-77	-77	quoted	-77	-77	quoted	-77	quoted
KU_Outlying	825	Yes	No	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77
-77	825	Yes	No	quoted	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77	-77
KU_Outlying	825	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	825	Yes	No	-77	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
KU_Outlying	825	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	quoted	-77
KU_Outlying	825	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
-77	825	Yes	No	quoted	quoted	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77
KU_Outlying	825	Yes	No	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77	quoted	-77
-77	825	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77
-77	825	Yes	No	-77	quoted	-77	quoted	-77	-77	-77	quoted	quoted	-77	quoted	-77
-77	825	Yes	No	quoted	-77	quoted	-77	-77	quoted	-77	-77	quoted	quoted	quoted	-77
KU_Metro	825	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
-77	825	Yes	No	-77	quoted	quoted	-77	-77	quoted	quoted	-77	quoted	-77	-77	quoted
KU_Outlying	825	Yes	No	quoted	-77	quoted	-77	-77	-77	quoted	-77	quoted	-77	quoted	-77
KU_Outlying	825	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
-77	825	Yes	No	quoted	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	quoted	-77
-77	825	Yes	No	quoted	-77	-77	quoted	-77	-77	-77	quoted	quoted	-77	quoted	-77
-77	825	Yes	No	-77	quoted	-77	quoted	-77	-77	-77	quoted	quoted	-77	quoted	-77
-77	825	Yes	No	quoted	-77	quoted	-77	-77	quoted	-77	-77	quoted	quoted	quoted	-77
KU_Metro	824	Yes	No	quoted	-77	quoted	quoted	-77	-77	-77	quoted	-77	quoted	-77	quoted
-77	824	Yes	No	-77	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	quoted
KU_Outlying	824	Yes	No	-77	quoted	quoted	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted
KU_Outlying	824	Yes	No	quoted	-77	quoted	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
-77	824	Yes	No	quoted	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
-77	842	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	quoted	quoted	-77	-77
KU_Metro	824	Yes	No	quoted	-77	quoted	quoted	-77	-77	-77	quoted	-77	quoted	-77	quoted
-77	824	Yes	No	-77	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	quoted
KU_Outlying	824	Yes	No	-77	quoted	quoted	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted
KU_Outlying	824	Yes	No	quoted	-77	quoted	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
-77	824	Yes	No	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77	-77	-77
-77	824	Yes	No	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	quoted	-77	-77

Export 1.1

KU_Outlying	824	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	824	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
	-77	824	Yes	No	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Metro	824	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	quoted	quoted	quoted	quoted
	-77	824	Yes	No	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	quoted	-77
	-77	824	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	quoted
	-77	824	Yes	No	quoted	-77	quoted	-77	-77	-77	quoted	-77	quoted	-77	-77
KU_Outlying	824	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
	-77	824	Yes	No	-77	quoted	quoted	-77	-77	-77	quoted	-77	quoted	quoted	-77
KU_Outlying	824	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
	-77	824	Yes	No	-77	-77	-77	-77	quoted	quoted	quoted	-77	quoted	-77	-77
	-77	824	Yes	No	quoted	-77	quoted	-77	-77	-77	quoted	-77	quoted	-77	quoted
	-77	824	Yes	No	quoted	quoted	-77	-77	-77	quoted	quoted	-77	-77	-77	quoted
	-77	824	Yes	No	quoted	quoted	-77	quoted	-77	-77	quoted	quoted	-77	-77	quoted
	-77	823	Yes	No	quoted	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77
	-77	823	Yes	No	quoted	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77
KU_Metro	823	Yes	No	-77	-77	-77	-77	quoted	quoted	quoted	-77	-77	-77	-77	-77
KU_Outlying	823	Yes	No	quoted	quoted	-77	quoted	-77	quoted	-77	-77	-77	-77	-77	quoted
	-77	823	Yes	No	quoted	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77
KU_Outlying	823	Yes	No	-77	-77	-77	quoted	-77	quoted	quoted	-77	-77	-77	-77	-77
	-77	823	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	quoted
KU_Outlying	823	Yes	No	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77	-77	-77
	-77	823	Yes	No	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77
	-77	823	Yes	No	-77	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77
KU_Outlying	823	Yes	No	quoted	quoted	-77	quoted	-77	quoted	quoted	-77	quoted	-77	-77	-77
	-77	823	Yes	No	quoted	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted
KU_Outlying	823	Yes	No	-77	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77
	-77	823	Yes	No	quoted	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted
	-77	839	Yes	No	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	quoted	-77
KU_Outlying	823	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	quoted	-77
KU_Outlying	823	Yes	No	-77	-77	-77	-77	quoted	quoted	-77	-77	quoted	-77	-77	-77
KU_Outlying	823	Yes	No	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77	quoted	-77
	-77	823	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77
	-77	823	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77
	-77	823	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77
	-77	823	Yes	No	quoted	quoted	-77	-77	-77	quoted	quoted	-77	quoted	-77	-77
	-77	822	Yes	No	quoted	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77
KU_Metro	822	Yes	No	quoted	-77	quoted	quoted	-77	-77	quoted	-77	quoted	quoted	quoted	quoted
KU_Metro	822	Yes	No	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77	-77
	-77	822	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	quoted	quoted	quoted
KU_Metro	822	Yes	No	quoted	-77	quoted	quoted	-77	-77	-77	quoted	quoted	-77	-77	-77
	-77	822	Yes	No	quoted	-77	quoted	-77	-77	-77	quoted	-77	-77	quoted	-77
	-77	822	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77
KU_Outlying	821	Yes	No	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77
	-77	821	Yes	No	quoted	-77	-77	quoted	-77	quoted	quoted	-77	-77	-77	-77
	-77	821	Yes	No	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77
KU_Metro	821	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	821	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
KU_Outlying	820	Yes	No	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	quoted	-77
	-77	820	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	quoted
KU_Outlying	820	Yes	No	quoted	-77	quoted	quoted	-77	-77	quoted	-77	-77	-77	-77	-77

Export 1.1

KU_Outlying	820	Yes	No	quoted	-77	-77	quoted	-77	-77	quoted	-77	-77	quoted	-77	quoted
KU_Metro	820	Yes	No	-77	quoted	quoted	-77	-77	quoted	-77	-77	-77	-77	quoted	-77
KU_Metro	820	Yes	No	-77	quoted	quoted	quoted	-77	-77	quoted	-77	-77	quoted	-77	quoted
KU_Outlying	820	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	819	Yes	No	-77	-77	quoted	-77	-77	-77	quoted	-77	quoted	-77	quoted
	-77	819	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	quoted	quoted	-77
KU_Outlying	819	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	819	Yes	No	quoted	-77	quoted	-77	-77	quoted	quoted	-77	quoted	quoted	quoted
KU_Outlying	819	Yes	No	-77	-77	quoted	-77	-77	-77	quoted	-77	quoted	quoted	quoted	-77
KU_Outlying	819	Yes	No	-77	-77	-77	-77	quoted	quoted	-77	-77	-77	-77	-77	-77
	-77	819	Yes	No	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77	-77
KU_Outlying	819	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
	-77	819	Yes	No	-77	-77	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
KU_Outlying	819	Yes	No	quoted	-77	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted
	-77	819	Yes	No	-77	quoted	-77	-77	-77	-77	quoted	-77	quoted	-77	-77
	-77	819	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77
KU_Outlying	818	Yes	No	quoted	-77	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77
KU_Metro	818	Yes	No	quoted	-77	quoted	quoted	-77	quoted	quoted	-77	-77	quoted	-77	quoted
	-77	818	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77
KU_Outlying	818	Yes	No	-77	quoted	quoted	-77	-77	-77	quoted	-77	quoted	-77	-77	-77
KU_Metro	818	Yes	No	quoted	-77	quoted	-77	-77	-77	quoted	quoted	-77	-77	-77	-77
KU_Metro	818	Yes	No	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77	quoted
	-77	818	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77
	-77	818	Yes	No	-77	quoted	quoted	-77	-77	quoted	-77	-77	-77	-77	-77
KU_Outlying	818	Yes	No	-77	-77	-77	-77	quoted	quoted	-77	-77	-77	-77	-77	-77
	-77	818	Yes	No	quoted	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	817	Yes	No	quoted	-77	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77
KU_Metro	817	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77
	-77	816	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	quoted	quoted
KU_Outlying	816	Yes	No	quoted	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77	-77	-77
KU_Metro	816	Yes	No	-77	quoted	quoted	-77	-77	-77	-77	quoted	-77	-77	quoted	-77
KU_Metro	815	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	quoted	-77
	-77	815	Yes	No	quoted	quoted	quoted	quoted	-77	quoted	quoted	-77	-77	-77	quoted
KU_Outlying	815	Yes	No	-77	-77	quoted	-77	-77	quoted	-77	-77	quoted	-77	-77	quoted
KU_Outlying	830	Yes	No	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	quoted	-77	quoted
KU_Metro	814	Yes	No	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	quoted	-77
KU_Metro	812	Yes	No	quoted	quoted	-77	-77	-77	quoted	quoted	-77	quoted	quoted	-77	-77
KU_Outlying	812	Yes	No	quoted	quoted	-77	quoted	-77	-77	quoted	-77	quoted	quoted	-77	quoted
	-77	812	Yes	No	-77	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	quoted
	-77	811	Yes	No	quoted	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77
	-77	811	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77
KU_Outlying	810	Yes	No	quoted	-77	quoted	quoted	-77	quoted	-77	-77	quoted	quoted	-77	-77
KU_Outlying	809	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77	-77
	-77	808	Yes	No	quoted	-77	quoted	-77	-77	quoted	-77	-77	quoted	-77	quoted
	-77	808	Yes	No	quoted	-77	quoted	-77	-77	quoted	quoted	-77	quoted	-77	-77
	-77	808	Yes	No	quoted	-77	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
	-77	808	Yes	No	quoted	quoted	quoted	-77	-77	-77	quoted	-77	quoted	-77	quoted
	-77	808	Yes	No	quoted	quoted	quoted	quoted	-77	-77	quoted	-77	quoted	quoted	quoted
	-77	808	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	quoted
	-77	808	Yes	No	quoted	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77	-77
	-77	808	Yes	No	quoted	-77	quoted	-77	-77	quoted	-77	-77	quoted	-77	-77
	-77	808	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77

Export 1.1

KU_Metro	808	Yes	No	quoted	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77	
	-77	808	Yes	No	quoted	-77	quoted	quoted	-77	-77	quoted	-77	-77	quoted	quoted	quoted
	-77	808	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
KU_Metro	808	Yes	No	-77	quoted	quoted	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	
KU_Outlying	808	Yes	No	-77	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77	
KU_Outlying	808	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77	
KU_Metro	808	Yes	No	-77	-77	-77	-77	quoted	quoted	-77	-77	quoted	-77	-77	-77	
KU_Outlying	808	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77	-77	
KU_Metro	808	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	quoted	-77	-77	
KU_Metro	808	Yes	No	quoted	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	quoted	
	-77	808	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	quoted	-77
KU_Outlying	808	Yes	No	-77	quoted	-77	-77	-77	quoted	quoted	-77	quoted	-77	-77	-77	-77
	-77	808	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
KU_Metro	808	Yes	No	quoted	quoted	quoted	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77
KU_Metro	808	Yes	No	quoted	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77	-77
	-77	808	Yes	No	-77	-77	quoted	-77	-77	quoted	quoted	-77	quoted	quoted	quoted	quoted
KU_Outlying	808	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77
	-77	808	Yes	No	-77	-77	-77	-77	quoted	quoted	-77	-77	quoted	-77	quoted	-77
KU_Outlying	808	Yes	No	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77	-77	-77	-77
KU_Metro	808	Yes	No	quoted	quoted	-77	-77	-77	-77	-77	quoted	-77	quoted	-77	quoted	-77
KU_Outlying	808	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77	-77
KU_Metro	808	Yes	No	quoted	quoted	quoted	-77	-77	quoted	-77	-77	quoted	-77	quoted	-77	-77
KU_Outlying	807	Yes	No	-77	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	quoted	quoted
KU_Outlying	807	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77
	-77	807	Yes	No	quoted	-77	-77	quoted	-77	-77	-77	quoted	quoted	quoted	-77	quoted
	-77	807	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
	-77	807	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77
	-77	823	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	807	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77
KU_Outlying	807	Yes	No	quoted	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77	-77
	-77	831	Yes	No	-77	-77	-77	quoted	-77	-77	-77	quoted	quoted	-77	-77	-77
	-77	807	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	-77	quoted	-77	-77
KU_Outlying	807	Yes	No	quoted	quoted	-77	quoted	-77	quoted	-77	-77	quoted	-77	-77	quoted	-77
KU_Metro	807	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	quoted
	-77	807	Yes	No	quoted	quoted	-77	-77	-77	-77	-77	quoted	quoted	-77	-77	quoted
KU_Outlying	807	Yes	No	quoted	quoted	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77	-77
KU_Outlying	807	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77
	-77	807	Yes	No	-77	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	quoted
	-77	807	Yes	No	quoted	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	quoted	-77
KU_Metro	807	Yes	No	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77	-77	-77	quoted
KU_Outlying	807	Yes	No	-77	-77	quoted	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77
	-77	807	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	quoted	-77	-77	quoted
	-77	807	Yes	No	-77	quoted	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77
	-77	807	Yes	No	quoted	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77	quoted
	-77	807	Yes	No	-77	-77	quoted	-77	-77	quoted	quoted	-77	quoted	-77	-77	-77
	-77	807	Yes	No	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77	-77
	-77	807	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	quoted	-77	-77	-77
KU_Metro	807	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	quoted
	-77	807	Yes	No	-77	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	quoted
KU_Metro	807	Yes	No	-77	quoted	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
	-77	807	Yes	No	-77	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77

Export 1.1

	-77	807	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
	-77	807	Yes	No	quoted	-77	quoted	quoted	-77	-77	quoted	-77	-77	-77	quoted	-77
	-77	807	Yes	No	-77	quoted	quoted	-77	-77	-77	quoted	-77	-77	-77	-77	-77
	-77	807	Yes	No	quoted	quoted	-77	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77
	-77	807	Yes	No	quoted	-77	quoted	quoted	-77	quoted	quoted	-77	quoted	quoted	-77	quoted
KU_Outlying	806	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77	-77
	-77	806	Yes	No	quoted	quoted	quoted	-77	-77	-77	quoted	-77	quoted	-77	-77	-77
	-77	806	Yes	No	-77	-77	-77	-77	quoted	quoted	quoted	-77	-77	-77	-77	-77
	-77	806	Yes	No	-77	quoted	quoted	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted
	-77	806	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	quoted	-77	-77
KU_Outlying	806	Yes	No	quoted	quoted	quoted	quoted	-77	-77	-77	quoted	quoted	-77	-77	-77	-77
	-77	806	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	806	Yes	No	-77	quoted	-77	-77	-77	quoted	quoted	-77	-77	-77	-77	-77
	-77	806	Yes	No	quoted	-77	-77	quoted	-77	-77	quoted	-77	quoted	-77	-77	-77
	-77	806	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
	-77	806	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
	-77	806	Yes	No	quoted	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77	-77
	-77	806	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	quoted	-77
	-77	806	Yes	No	-77	-77	-77	-77	quoted	quoted	quoted	-77	quoted	-77	quoted	quoted
KU_Outlying	806	Yes	No	quoted	-77	-77	quoted	-77	quoted	quoted	-77	quoted	quoted	quoted	quoted	-77
	-77	806	Yes	No	-77	-77	-77	-77	quoted	quoted	-77	-77	-77	-77	-77	-77
	-77	806	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77	-77
	-77	806	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	806	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	quoted	-77	-77
	-77	806	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	806	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	806	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	806	Yes	No	quoted	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Metro	806	Yes	No	quoted	-77	-77	-77	-77	-77	-77	-77	quoted	quoted	-77	-77	quoted
	-77	805	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	quoted	-77
KU_Metro	805	Yes	No	-77	quoted	quoted	-77	-77	-77	quoted	-77	quoted	-77	quoted	-77	-77
KU_Outlying	805	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77
	-77	805	Yes	No	quoted	quoted	-77	quoted	-77	quoted	quoted	-77	quoted	-77	quoted	quoted
KU_Outlying	805	Yes	No	quoted	quoted	quoted	-77	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
	-77	805	Yes	No	quoted	-77	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	quoted
	-77	805	Yes	No	quoted	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	805	Yes	No	quoted	quoted	quoted	-77	-77	quoted	quoted	-77	quoted	-77	quoted	-77
	-77	805	Yes	No	-77	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	quoted	-77
KU_Outlying	805	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77
KU_Metro	805	Yes	No	quoted	-77	quoted	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
	-77	805	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	805	Yes	No	-77	quoted	quoted	-77	-77	-77	quoted	-77	quoted	-77	quoted	quoted
	-77	805	Yes	No	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77	quoted	-77
KU_Outlying	805	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77
	-77	805	Yes	No	-77	-77	-77	-77	quoted	quoted	-77	-77	-77	-77	-77	-77
KU_Metro	805	Yes	No	quoted	-77	quoted	-77	-77	-77	quoted	-77	quoted	-77	quoted	-77	-77
	-77	805	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
	-77	805	Yes	No	quoted	-77	quoted	quoted	-77	-77	-77	quoted	quoted	-77	-77	-77
	-77	805	Yes	No	-77	-77	-77	-77	quoted	quoted	quoted	-77	-77	-77	quoted	-77
KU_Metro	805	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77	-77
KU_Metro	805	Yes	No	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77	-77	quoted	-77



Export 1.1

-77	805	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
-77	805	Yes	No	quoted	quoted	-77	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
-77	805	Yes	No	-77	-77	-77	-77	quoted	quoted	quoted	-77	-77	-77	quoted	quoted
KU_Metro	805	Yes	No	-77	-77	quoted	quoted	-77	-77	-77	quoted	quoted	quoted	-77	-77
KU_Metro	805	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
KU_Metro	805	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
KU_Metro	805	Yes	No	-77	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77
-77	805	Yes	No	quoted	-77	-77	quoted	-77	quoted	quoted	-77	quoted	quoted	quoted	-77
KU_Outlying	805	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	quoted	-77	quoted	-77
-77	805	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77	-77
KU_Metro	804	Yes	No	quoted	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
-77	804	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	quoted	-77
KU_Metro	804	Yes	No	quoted	-77	quoted	-77	-77	quoted	quoted	-77	-77	quoted	quoted	-77
-77	804	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
-77	804	Yes	No	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77	quoted	quoted
-77	804	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
-77	804	Yes	No	-77	-77	-77	quoted	-77	quoted	quoted	-77	-77	-77	-77	-77
KU_Metro	804	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	-77	quoted	-77	-77
-77	804	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	804	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	quoted	quoted
-77	804	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77
-77	804	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	quoted
KU_Metro	804	Yes	No	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77	-77	-77
-77	804	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77
-77	804	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77
-77	803	Yes	No	quoted	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77	-77
-77	803	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	quoted
-77	803	Yes	No	quoted	-77	quoted	quoted	-77	-77	quoted	-77	quoted	-77	quoted	-77
-77	803	Yes	No	quoted	-77	quoted	quoted	-77	-77	-77	quoted	quoted	-77	-77	-77
-77	803	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77
-77	803	Yes	No	quoted	quoted	quoted	-77	-77	quoted	quoted	-77	quoted	quoted	-77	-77
-77	803	Yes	No	quoted	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77	-77	quoted
KU_Metro	803	Yes	No	quoted	quoted	quoted	quoted	-77	quoted	quoted	-77	-77	-77	-77	-77
-77	803	Yes	No	-77	-77	-77	-77	quoted	quoted	quoted	-77	-77	-77	quoted	-77
KU_Metro	802	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
-77	802	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	quoted	-77	-77	-77
-77	802	Yes	No	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	quoted	-77	quoted
-77	802	Yes	No	quoted	-77	quoted	-77	-77	-77	quoted	-77	quoted	-77	-77	-77
KU_Outlying	802	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
-77	802	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77
-77	802	Yes	No	quoted	quoted	quoted	quoted	-77	-77	-77	quoted	quoted	-77	quoted	-77
KU_Metro	802	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
-77	801	Yes	No	quoted	quoted	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
-77	801	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	quoted	-77
KU_Outlying	801	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	-77	quoted
-77	801	Yes	No	quoted	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77	quoted	-77
-77	801	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77
-77	801	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
-77	801	Yes	No	-77	-77	-77	-77	quoted	quoted	-77	-77	quoted	-77	-77	quoted
KU_Outlying	801	Yes	No	-77	-77	-77	quoted	-77	quoted	quoted	-77	-77	quoted	-77	quoted
KU_Outlying	800	Yes	No	-77	-77	-77	quoted	-77	quoted	quoted	-77	-77	quoted	-77	-77
-77	800	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77
-77	800	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	quoted	-77

Export 1.1

KU_Metro	800	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77	-77
	-77	800	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77
	-77	800	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	quoted	-77	quoted
	-77	799	Yes	No	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	799	Yes	No	-77	-77	-77	-77	quoted	quoted	quoted	-77	quoted	-77	-77
KU_Metro	799	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	799	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77
	-77	799	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	quoted
KU_Metro	799	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77	-77
KU_Outlying	799	Yes	No	-77	quoted	-77	-77	-77	quoted	quoted	-77	-77	-77	-77	-77
	-77	799	Yes	No	-77	-77	quoted	-77	-77	-77	quoted	quoted	quoted	-77	-77
	-77	798	Yes	No	-77	-77	-77	-77	quoted	quoted	-77	-77	-77	-77	quoted
	-77	798	Yes	No	quoted	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77	quoted
	-77	798	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77
	-77	797	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted
KU_Metro	797	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77	-77
KU_Metro	796	Yes	No	quoted	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
KU_Metro	796	Yes	No	-77	quoted	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	795	Yes	No	quoted	quoted	-77	quoted	-77	quoted	-77	-77	-77	-77	quoted
KU_Outlying	795	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
	-77	795	Yes	No	quoted	quoted	quoted	-77	-77	quoted	-77	-77	quoted	-77	-77
	-77	795	Yes	No	quoted	-77	-77	quoted	-77	-77	-77	quoted	quoted	-77	-77
	-77	794	Yes	No	-77	quoted	-77	quoted	-77	quoted	quoted	-77	quoted	-77	quoted
	-77	794	Yes	No	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77	-77
KU_Outlying	793	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
	-77	793	Yes	No	-77	-77	quoted	-77	-77	-77	quoted	-77	quoted	-77	quoted
	-77	793	Yes	No	quoted	quoted	quoted	-77	-77	-77	quoted	-77	quoted	-77	quoted
KU_Outlying	793	Yes	No	-77	-77	-77	-77	quoted	-77	quoted	-77	-77	-77	-77	-77
KU_Metro	793	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted
	-77	792	Yes	No	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	quoted
	-77	792	Yes	No	quoted	-77	-77	quoted	-77	quoted	quoted	-77	quoted	-77	quoted
KU_Metro	791	Yes	No	-77	-77	quoted	-77	-77	-77	-77	quoted	quoted	quoted	quoted	-77
KU_Outlying	791	Yes	No	-77	-77	-77	-77	quoted	quoted	-77	-77	-77	-77	-77	-77
KU_Outlying	791	Yes	No	-77	-77	-77	quoted	-77	quoted	quoted	-77	-77	-77	quoted	-77
	-77	790	Yes	No	quoted	-77	-77	-77	-77	-77	-77	quoted	quoted	quoted	-77
	-77	790	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	quoted	-77
KU_Outlying	789	Yes	No	-77	quoted	quoted	-77	-77	-77	-77	quoted	-77	-77	quoted	-77
KU_Metro	809	Yes	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	788	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77
KU_Outlying	788	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77
	-77	788	Yes	No	-77	-77	-77	quoted	-77	quoted	quoted	-77	-77	-77	-77
KU_Outlying	788	Yes	No	quoted	quoted	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	787	Yes	No	quoted	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	quoted	-77
KU_Outlying	787	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
	-77	787	Yes	No	quoted	quoted	quoted	-77	-77	quoted	quoted	-77	quoted	-77	-77
	-77	787	Yes	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	quoted
KU_Outlying	269	-77	No	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77	-77
KU_Outlying	269	-77	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	269	-77	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	269	-77	No	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77	-77
	-77	269	-77	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77
KU_Metro	269	-77	No	-77	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77

## Export 1.1

KU_Outlying	269	-77	No	quoted	quoted	quoted	quoted	-77	quoted	quoted	-77	-77	-77	-77	-77
KU_Metro	268	-77	No	quoted	quoted	-77	-77	-77	quoted	quoted	-77	quoted	quoted	-77	-77
KU_Outlying	268	-77	No	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
KU_Metro	268	-77	No	-77	-77	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77
KU_Outlying	267	-77	No	-77	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
KU_Outlying	266	-77	No	-77	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
	-77	272	-77	No	quoted	-77	quoted	quoted	-77	-77	-77	quoted	-77	quoted	-77
KU_Outlying	265	-77	No	-77	-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77	-77
	-77	262	-77	No	-77	-77	-77	quoted	quoted	quoted	-77	-77	-77	-77	-77
	-77	262	-77	No	-77	quoted	quoted	-77	-77	-77	-77	quoted	quoted	quoted	-77
KU_Outlying	256	-77	No	-77	quoted	-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	255	-77	No	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77	-77
KU_Outlying	255	-77	No	-77	quoted	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77	-77
KU_Metro	255	-77	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77
	-77	255	-77	No	-77	quoted	quoted	-77	-77	-77	-77	quoted	-77	-77	-77
	-77	240	-77	No	-77	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77
KU_Outlying	240	-77	No	-77	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	240	-77	No	-77	-77	-77	quoted	-77	-77	-77	quoted	quoted	-77	-77
KU_Outlying	239	-77	No	-77	-77	-77	-77	quoted	quoted	-77	-77	-77	-77	-77	-77
KU_Outlying	239	-77	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77
KU_Metro	239	-77	No	-77	-77	-77	quoted	-77	quoted	-77	-77	quoted	-77	-77	-77
	-77	238	-77	No	-77	-77	quoted	-77	-77	quoted	-77	-77	quoted	-77	-77
KU_Outlying	238	-77	No	-77	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77
	-77	238	-77	No	quoted	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	238	-77	No	-77	-77	quoted	-77	-77	-77	-77	quoted	quoted	-77	-77
KU_Outlying	238	-77	No	-77	quoted	quoted	-77	-77	-77	quoted	-77	quoted	-77	-77	-77
	-77	238	-77	No	quoted	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77	-77
	-77	237	-77	No	-77	quoted	-77	-77	-77	-77	-77	quoted	quoted	-77	-77
KU_Outlying	236	-77	No	quoted	-77	quoted	-77	-77	quoted	-77	-77	quoted	quoted	-77	-77
KU_Outlying	236	-77	No	-77	-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77	-77
KU_Outlying	235	-77	No	-77	-77	quoted	-77	-77	-77	-77	quoted	-77	-77	-77	-77
	-77	228	-77	No	-77	-77	-77	quoted	-77	-77	quoted	quoted	-77	-77	-77
KU_Outlying	226	-77	No	-77	-77	-77	-77	quoted	-77	-77	-77	quoted	quoted	-77	-77



Export 1.1

-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Technical or vocational school
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	-77	-77	-77	-77	-77	-77	-77	-77 Some high school
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	quoted	-77	-77	-77	-77	-77	-77 Some college
-77	-77	-77	-77	-77	-77	-77	-77	-77	-77 Some college
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	quoted	-77	quoted	-77	-77	-77	-77	-77	-77 College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Technical or vocational school
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Technical or vocational school
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	-77	-77 High school graduate
quoted	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	I prefer not to answer
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Technical or vocational school
-77	quoted	-77	-77	-77	quoted	-77	-77	-77	-77 Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Technical or vocational school
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	High school graduate
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above

Export 1.1

-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)	
-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	quoted	-77	-77	quoted	-77	-77	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)	
-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)	
-77	-77	quoted	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	quoted	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	quoted	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	-77	-77	quoted	Some college	
-77	-77	quoted	-77	-77	-77	-77	quoted	High school graduate	
-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)	
-77	-77	quoted	-77	-77	-77	-77	quoted	Some college	
-77	-77	quoted	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	quoted	-77	-77	-77	-77	quoted	Some college	
-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	-77	-77	quoted	High school graduate	
-77	quoted	-77	-77	-77	-77	-77	quoted	I prefer not to answer	
-77	-77	quoted	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	quoted	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)	
-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)	
-77	-77	quoted	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	quoted	quoted	-77	-77	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	-77	-77	quoted	Some college	
-77	-77	-77	-77	-77	-77	-77	-77	-77	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	-77	-77	quoted	I prefer not to answer	
-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
quoted	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	quoted	-77	quoted	-77	-77	-77	-77	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	quoted	High school graduate	
-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	

Export 1.1

-77	-77	quoted	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	I prefer not to answer
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
quoted	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	quoted	-77	-77	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Technical or vocational school
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	quoted	-77	quoted	-77	-77	-77	-77	-77	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	quoted	-77	-77	-77	-77	College graduate – Bachelor degree (4 years)
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Technical or vocational school
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)

Export 1.1

-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	quoted	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)	
-77	quoted	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	quoted	-77	-77		Technical or vocational school	
-77	-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	quoted	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	quoted	-77	-77	-77	-77	-77	-77	-77	quoted	Some college	
-77	-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	Technical or vocational school	
-77	-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)	
-77	-77	quoted	-77	-77	-77	-77	-77	-77	quoted	High school graduate	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college	
-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	Some high school
-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	Some college
-77	-77	quoted	-77	-77	-77	-77	-77	-77	quoted	High school graduate	
-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	Some college
-77	quoted	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	quoted	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	quoted	-77	-77	-77	-77	-77	-77	-77	Post-graduate degree – Masters or above
-77	quoted	-77	quoted	-77	-77	-77	-77	-77	-77	-77	Technical or vocational school
quoted	quoted	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	quoted	-77	quoted	-77	-77	-77	-77	-77	-77	-77	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	Post-graduate degree – Masters or above
-77	-77	-77	-77	quoted	-77	-77	-77	-77	-77	-77	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	-77	College graduate – Bachelor degree (4 years)	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)	
-77	-77	quoted	-77	quoted	-77	-77	-77	-77	-77	-77	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	
-77	-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above	



Export 1.1

-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Technical or vocational school
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	I prefer not to answer
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
quoted	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	-77	-77 Some college
quoted	quoted	-77	-77	-77	-77	quoted	-77	-77	High school graduate
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
quoted	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
quoted	quoted	-77	quoted	-77	-77	quoted	-77	-77	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
quoted	-77	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	quoted	-77	-77	quoted	-77	-77	-77	-77	-77 College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	quoted	-77	-77	-77	-77 Some college
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above



Export 1.1

-77	-77	quoted	-77	-77	-77	-77	-77	quoted	High school graduate
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	quoted	-77	-77	-77	-77	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	quoted	quoted	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Technical or vocational school
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	quoted	-77	-77	-77	-77	-77	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	quoted	-77	-77	-77	-77	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	-77	quoted	-77	-77	-77	-77	-77	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Technical or vocational school
-77	quoted	-77	-77	quoted	-77	-77	-77	-77	College graduate – Bachelor degree (4 years)
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)

Export 1.1

-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	quoted	-77	-77	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	I prefer not to answer
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Technical or vocational school
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
quoted	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	quoted	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Technical or vocational school
quoted	-77	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above

Export 1.1

-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	-77	-77	-77	quoted	quoted	-77	-77	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	-77	Some college
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	-77	Some college
-77	-77	-77	-77	-77	quoted	-77	-77	-77	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Technical or vocational school
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Associate degree (2 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	High school graduate
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	Some college
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	quoted	-77	-77	-77	-77	-77	Some college
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	quoted	-77	-77	-77	-77	-77	quoted	College graduate – Bachelor degree (4 years)
-77	-77	-77	-77	-77	-77	-77	-77	quoted	Post-graduate degree – Masters or above
-77	-77	-77	quoted	-77	-77	-77	-77	-77	Post-graduate degree – Masters or above

Export 1.1

m_d15new	m_hidden_d16new	m_d16_new	m_d16	Age	Age R	m_c	md_utility_text	m_q
-77	-77	-77	-77	53	45-54	-77	Kentucky Utilities	-77
-77	-77	-77	-77	48	45-54	-77	Louisville Gas & Electric	-77
-77	-77	-77	-77	55	55-64	-77	Kentucky Utilities	-77
-77	-77	-77	-77	58	55-64	-77	Kentucky Utilities	-77
-77	-77	-77	-77	48	45-54	-77	Louisville Gas & Electric	-77
-77	-77	-77	-77	62	55-64	-77	Kentucky Utilities	-77
-77	-77	-77	-77	63	55-64	-77	Kentucky Utilities	-77
-77	-77	-77	-77	66	65-74	-77	Kentucky Utilities	-77
-77	-77	-77	-77	37	35-44	-77	Kentucky Utilities	-77
-77	-77	-77	-77	35	35-44	-77	Kentucky Utilities	-77
-77	-77	-77	-77	65	65-74	-77	Old Dominion Power	-77
-77	-77	-77	-77	65	65-74	-77	Kentucky Utilities	-77
-77	-77	-77	-77	70	65-74	-77	Kentucky Utilities	-77
-77	-77	-77	-77	49	45-54	-77	Kentucky Utilities	-77
-77	-77	-77	-77	73	65-74	-77	LG&E and KU	-77
-77	-77	-77	-77	44	35-44	-77	Louisville Gas & Electric	-77
-77	-77	-77	-77	40	35-44	-77	Louisville Gas & Electric	-77
-77	-77	-77	-77	64	55-64	-77	Louisville Gas & Electric	-77
-77	-77	-77	-77	75	75+	-77	Kentucky Utilities	-77
-77	-77	-77	-77	69	65-74	-77	Kentucky Utilities	-77
-77	-77	-77	-77	37	35-44	-77	Kentucky Utilities	-77
-77	-77	-77	-77	64	55-64	-77	Kentucky Utilities	-77
-77	-77	-77	-77	41	35-44	-77	Kentucky Utilities	-77
-77	-77	-77	-77	52	45-54	-77	Kentucky Utilities	-77
-77	-77	-77	-77	52	45-54	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List3 (KU )	Shelby	40003	67	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Fayette	40502	43	35-44	-77	Kentucky Utilities	-77
I prefer not to answer	List4 (ODP)	Wise	24230	43	35-44	-77	Old Dominion Power	-77
Over \$100,000 - \$150,000	List3 (KU )	Woodford	40383	62	55-64	-77	Kentucky Utilities	-77
Over \$30,000 - \$40,000	List1 ( LGE)	Jefferson	40214	36	35-44	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List3 (KU )	Hardin	42701	60	55-64	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Scott	40379	58	55-64	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Mercer	40330	68	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Shelby	40065	34	25-34	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List3 (KU )	Scott	40324	32	25-34	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 (KU )	Taylor	42718	52	45-54	-77	Kentucky Utilities	-77
Over \$30,000 - \$40,000	List3 (KU )	Taylor	42718	38	35-44	-77	Kentucky Utilities	-77
Over \$200,000	List3 (KU )	Montgomery	40353	59	55-64	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40291	74	65-74	-77	Louisville Gas & Electric	-77
Over \$200,000	List3 (KU )	Fayette	40003	74	65-74	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List3 (KU )	Montgomery	40353	67	65-74	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Ballard	42087	47	45-54	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Montgomery	40353	27	25-34	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40207	69	65-74	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List3 (KU )	Union	42459	40	35-44	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List3 (KU )	Madison	40475	49	45-54	-77	Kentucky Utilities	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40299	75	75+	-77	Louisville Gas & Electric	-77
\$10,000 - \$20,000	List4 (ODP)	Wise	24219	67	65-74	-77	Old Dominion Power	-77
Over \$75,000 - \$100,000	List3 (KU )	Fayette	40514	64	55-64	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40243	37	35-44	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List3 (KU )	Henry	40011	54	45-54	-77	Kentucky Utilities	-77

## Export 1.1

\$10,000 - \$20,000	List3 (KU )	Muhlenberg	42330	44	35-44	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List3 (KU )	Harrison	41031	46	45-54	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Hardin	42724	59	55-64	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Woodford	40383	48	45-54	-77	Kentucky Utilities	-77
Over \$150,000 - \$200,000	List3 (KU )	Fayette	40502	43	35-44	-77	Kentucky Utilities	-77
Over \$200,000	List3 (KU )	Fayette	40502	73	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Hardin	42724	58	55-64	-77	Kentucky Utilities	-77
Over \$150,000 - \$200,000	List3 (KU )	Lyon	42038	40	35-44	-77	Kentucky Utilities	-77
\$10,000 - \$20,000	List3 (KU )	Knox	40701	44	35-44	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List4 (ODP)	Lee	24263	51	45-54	-77	Old Dominion Power	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40205	56	55-64	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Jefferson	40118	59	55-64	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List4 (ODP)	Wise	24230	39	35-44	-77	Old Dominion Power	-77
Over \$40,000 - \$50,000	List3 (KU )	Fayette	40505	52	45-54	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List3 (KU )	Hopkins	42431	50	45-54	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List3 (KU )	Fayette	40515	54	45-54	-77	Kentucky Utilities	-77
Over \$30,000 - \$40,000	List3 (KU )	Pulaski	42501	37	35-44	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40258	40	35-44	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40222	69	65-74	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40272	67	65-74	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Harlan	40873	41	35-44	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 (KU )	Madison	40475	50	45-54	-77	Kentucky Utilities	-77
Over \$150,000 - \$200,000	List3 (KU )	Boyle	40422	64	55-64	-77	Kentucky Utilities	-77
Over \$150,000 - \$200,000	List3 (KU )	Woodford	40383	49	45-54	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List3 (KU )	Fayette	40517	71	65-74	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 (KU )	Montgomery	40337	49	45-54	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List3 (KU )	Fayette	40508	53	45-54	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Fayette	40511	40	35-44	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List4 (ODP)	Russell	24224	70	65-74	-77	Old Dominion Power	-77
\$10,000 - \$20,000	List1 ( LGE)	Jefferson	40207	71	65-74	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40291	66	65-74	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List3 (KU )	Hopkins	42431	73	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Fayette	40009	54	45-54	-77	Kentucky Utilities	-77
Over \$30,000 - \$40,000	List3 (KU )	Woodford	40383	67	65-74	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List3 (KU )	Mason	41056	41	35-44	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Fayette	40503	58	55-64	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Boyle	40422	71	65-74	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40272	53	45-54	-77	Louisville Gas & Electric	-77
Over \$30,000 - \$40,000	List3 (KU )	Laurel	40744	55	55-64	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Fayette	40502	69	65-74	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 (KU )	Lyon	42038	71	65-74	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 (KU )	Harrison	41003	61	55-64	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Madison	40475	59	55-64	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List3 (KU )	Mason	41034	72	65-74	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List3 (KU )	Madison	40475	64	55-64	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Mercer	40330	63	55-64	-77	Kentucky Utilities	-77
Under \$10,000	List3 (KU )	Ohio	42347	60	55-64	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Fayette	40503	31	25-34	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 (KU )	Fayette	40008	68	65-74	-77	Kentucky Utilities	-77
Over \$150,000 - \$200,000	List3 (KU )	Fayette	40502	54	45-54	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List3 (KU )	Union	42437	46	45-54	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Fayette	40514	34	25-34	-77	Kentucky Utilities	-77

Export 1.1

Over \$75,000 - \$100,000	List3 (KU )	Clark	40391	66	65-74	-77	Kentucky Utilities	-77
Over \$200,000	List3 (KU )	Fayette	40502	46	45-54	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List3 (KU )	Fayette	40502	78	75+	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Fayette	40508	37	35-44	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 (KU )	Bourbon	40361	44	35-44	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Fayette	40504	81	75+	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 (KU )	Boyle	40422	64	55-64	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List3 (KU )	Franklin	40601	50	45-54	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Rowan	40351	76	75+	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Montgomery	40353	69	65-74	-77	Kentucky Utilities	-77
Over \$30,000 - \$40,000	List3 (KU )	Fayette	40503	59	55-64	-77	Kentucky Utilities	-77
Over \$200,000	List3 (KU )	Fayette	40507	59	55-64	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Hopkins	42431	67	65-74	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 (KU )	Boyle	40422	72	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Bracken	41043	53	45-54	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List3 (KU )	Montgomery	40353	70	65-74	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40208	56	55-64	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Lyon	42055	83	75+	-77	Kentucky Utilities	-77
Over \$30,000 - \$40,000	List3 (KU )	Woodford	40383	60	55-64	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Mercer	40330	57	55-64	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List3 (KU )	Lee	41311	44	35-44	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Oldham	40026	74	65-74	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List3 (KU )	Harlan	40828	40	35-44	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Marion	40033	70	65-74	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List2 ( LGE + KU )	Shelby	40067	66	65-74	-77	LG&E and KU	-77
Over \$40,000 - \$50,000	List2 ( LGE + KU )	Nelson	40004	77	75+	-77	LG&E and KU	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40223	73	65-74	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List3 (KU )	Oldham	40031	53	45-54	-77	Kentucky Utilities	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40217	42	35-44	-77	Louisville Gas & Electric	-77
Over \$30,000 - \$40,000	List1 ( LGE)	Jefferson	40214	73	65-74	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40206	60	55-64	-77	Louisville Gas & Electric	-77
Over \$30,000 - \$40,000	List3 (KU )	Fayette	40502	33	25-34	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40207	73	65-74	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List2 ( LGE + KU )	Oldham	40031	52	45-54	-77	LG&E and KU	-77
Over \$50,000 - \$75,000	List3 (KU )	Anderson	40342	38	35-44	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40223	58	55-64	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List3 (KU )	Montgomery	40353	56	55-64	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Shelby	40004	28	25-34	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List3 (KU )	Larue	42716	36	35-44	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Oldham	40014	52	45-54	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List3 (KU )	Fayette	40508	34	25-34	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Jefferson	40219	43	35-44	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List3 (KU )	Shelby	40065	56	55-64	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List4 (ODP)	Wise	24230	50	45-54	-77	Old Dominion Power	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Jefferson	40219	34	25-34	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40299	33	25-34	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List3 (KU )	Fayette	40509	45	45-54	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40291	58	55-64	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40006	70	65-74	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Shelby	40022	59	55-64	-77	Kentucky Utilities	-77
Over \$30,000 - \$40,000	List1 ( LGE)	Jefferson	40211	38	35-44	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Oldham	40026	57	55-64	-77	Louisville Gas & Electric	-77



Export 1.1

Over \$50,000 - \$75,000	List3 (KU )	Ohio	42320	40	35-44	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Laurel	40741	32	25-34	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40213	61	55-64	-77	Louisville Gas & Electric	-77
Over \$200,000	List3 (KU )	Fayette	40508	57	55-64	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40218	58	55-64	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Oldham	40059	70	65-74	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Oldham	40059	72	65-74	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Hopkins	42431	35	35-44	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40220	46	45-54	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Mccracken	42086	55	55-64	-77	Kentucky Utilities	-77
\$10,000 - \$20,000	List1 ( LGE)	Jefferson	40213	37	35-44	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40218	46	45-54	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Oldham	40026	61	55-64	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Jefferson	40206	58	55-64	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Oldham	40059	68	65-74	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40218	39	35-44	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40228	33	25-34	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List3 (KU )	Fayette	40505	68	65-74	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List3 (KU )	Green	42743	71	65-74	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40214	44	35-44	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List3 (KU )	Knox	40701	55	55-64	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Oldham	40056	55	55-64	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List3 (KU )	Woodford	40383	52	45-54	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40258	51	45-54	-77	Louisville Gas & Electric	-77
Over \$200,000	List1 ( LGE)	Oldham	40059	50	45-54	-77	Louisville Gas & Electric	-77
Over \$200,000	List3 (KU )	Scott	40347	67	65-74	-77	Kentucky Utilities	-77
\$10,000 - \$20,000	List1 ( LGE)	Jefferson	40217	72	65-74	-77	Louisville Gas & Electric	-77
Over \$30,000 - \$40,000	List3 (KU )	Bell	40965	79	75+	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40220	33	25-34	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40204	38	35-44	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List3 (KU )	Bourbon	40361	72	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Webster	42444	67	65-74	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Laurel	40701	34	25-34	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40299	44	35-44	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40219	68	65-74	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40208	70	65-74	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40206	66	65-74	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40243	55	55-64	-77	Louisville Gas & Electric	-77
Over \$200,000	List3 (KU )	Fayette	40502	60	55-64	-77	Kentucky Utilities	-77
Over \$200,000	List3 (KU )	Fayette	40509	47	45-54	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40205	61	55-64	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List3 (KU )	Fayette	40509	41	35-44	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40206	42	35-44	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Jefferson	40217	62	55-64	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List3 (KU )	Laurel	40701	67	65-74	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40245	40	35-44	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40299	82	75+	-77	Louisville Gas & Electric	-77
\$10,000 - \$20,000	List3 (KU )	Fayette	40502	68	65-74	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List3 (KU )	Anderson	40342	51	45-54	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List3 (KU )	Scott	40324	72	65-74	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40291	63	55-64	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List3 (KU )	Union	42437	43	35-44	-77	Kentucky Utilities	-77

## Export 1.1

Over \$50,000 - \$75,000	List2 ( LGE + KU )	Oldham	40031	36	35-44	-77	LG&E and KU	-77
Over \$50,000 - \$75,000	List3 ( KU )	Fayette	40517	37	35-44	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 ( KU )	Fayette	40511	29	25-34	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 ( KU )	Spencer	40071	50	45-54	-77	Kentucky Utilities	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40245	53	45-54	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Jefferson	40272	45	45-54	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List3 ( KU )	Oldham	40031	56	55-64	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40243	46	45-54	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Oldham	40014	73	65-74	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List3 ( KU )	Laurel	40741	46	45-54	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40242	33	25-34	-77	Louisville Gas & Electric	-77
\$10,000 - \$20,000	List3 ( KU )	Marion	40033	48	45-54	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40218	37	35-44	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Oldham	40014	36	35-44	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40214	61	55-64	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40291	62	55-64	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List3 ( KU )	Mason	41034	71	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List3 ( KU )	Fayette	40503	58	55-64	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Jefferson	40217	68	65-74	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List3 ( KU )	Anderson	40342	53	45-54	-77	Kentucky Utilities	-77
Over \$200,000	List3 ( KU )	Fayette	40509	68	65-74	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List3 ( KU )	Fayette	40503	45	45-54	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List4 ( ODP)	Wise	24293	65	65-74	-77	Old Dominion Power	-77
I prefer not to answer	List4 ( ODP)	Lee	24265	60	55-64	-77	Old Dominion Power	-77
Over \$20,000 - \$30,000	List3 ( KU )	Caldwell	42411	46	45-54	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List4 ( ODP)	Wise	24230	37	35-44	-77	Old Dominion Power	-77
Over \$30,000 - \$40,000	List3 ( KU )	Adair	42728	28	25-34	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 ( KU )	Fayette	40516	31	25-34	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40243	72	65-74	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 ( KU )	Hopkins	42464	72	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List3 ( KU )	Fayette	40509	74	65-74	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List3 ( KU )	Fayette	40509	36	35-44	-77	Kentucky Utilities	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40243	58	55-64	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Oldham	40014	74	65-74	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List3 ( KU )	Bell	40856	31	25-34	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List3 ( KU )	Fayette	40503	90	75+	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 ( KU )	Fayette	40509	46	45-54	-77	Kentucky Utilities	-77
I prefer not to answer	List3 ( KU )	Scott	40324	50	45-54	-77	Kentucky Utilities	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40216	49	45-54	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Oldham	40026	40	35-44	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List4 ( ODP)	Wise	24293	37	35-44	-77	Old Dominion Power	-77
Over \$75,000 - \$100,000	List3 ( KU )	Jessamine	40390	70	65-74	-77	Kentucky Utilities	-77
Over \$150,000 - \$200,000	List3 ( KU )	Scott	40324	38	35-44	-77	Kentucky Utilities	-77
\$10,000 - \$20,000	List1 ( LGE)	Jefferson	40204	74	65-74	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40241	39	35-44	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40258	60	55-64	-77	Louisville Gas & Electric	-77
Over \$200,000	List1 ( LGE)	Jefferson	40222	68	65-74	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40241	56	55-64	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40241	76	75+	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40207	67	65-74	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40207	58	55-64	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40207	59	55-64	-77	Louisville Gas & Electric	-77

## Export 1.1

Over \$30,000 - \$40,000	List3 (KU )	Fayette	40515	55	55-64	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40223	66	65-74	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Jefferson	40216	78	75+	-77	Louisville Gas & Electric	-77
\$10,000 - \$20,000	List3 (KU )	Fayette	40504	64	55-64	-77	Kentucky Utilities	-77
Over \$30,000 - \$40,000	List3 (KU )	Hart	42749	67	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Woodford	40383	69	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Fayette	40511	42	35-44	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Shelby	40065	71	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Fayette	40511	66	65-74	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List3 (KU )	Fayette	40514	38	35-44	-77	Kentucky Utilities	-77
Over \$30,000 - \$40,000	List1 ( LGE)	Jefferson	40211	77	75+	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40006	56	55-64	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40223	71	65-74	-77	Louisville Gas & Electric	-77
Over \$200,000	List3 (KU )	Fayette	40515	59	55-64	-77	Kentucky Utilities	-77
Over \$150,000 - \$200,000	List3 (KU )	Fayette	40514	59	55-64	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40272	64	55-64	-77	Louisville Gas & Electric	-77
Under \$10,000	List3 (KU )	Hart	42749	45	45-54	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40245	76	75+	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Clark	40391	71	65-74	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Fayette	40511	61	55-64	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List3 (KU )	Bath	40374	72	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Fayette	40503	64	55-64	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Woodford	40383	74	65-74	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Pulaski	42501	31	25-34	-77	Kentucky Utilities	-77
Over \$200,000	List1 ( LGE)	Jefferson	40223	38	35-44	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Jefferson	40272	71	65-74	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40242	66	65-74	-77	Louisville Gas & Electric	-77
Over \$30,000 - \$40,000	List4 (ODP)	Wise	24293	69	65-74	-77	Old Dominion Power	-77
\$10,000 - \$20,000	List3 (KU )	Grayson	42754	44	35-44	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 (KU )	Bourbon	40361	72	65-74	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40272	62	55-64	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40217	51	45-54	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40022	66	65-74	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List3 (KU )	Fayette	40511	69	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40291	70	65-74	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40023	60	55-64	-77	Louisville Gas & Electric	-77
\$10,000 - \$20,000	List3 (KU )	Knox	40701	62	55-64	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40223	38	35-44	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40207	69	65-74	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List3 (KU )	Fayette	40513	74	65-74	-77	Kentucky Utilities	-77
Over \$150,000 - \$200,000	List2 ( LGE + KU )	Oldham	40031	59	55-64	-77	LG&E and KU	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40207	71	65-74	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40205	75	75+	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40241	28	25-34	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40205	65	65-74	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40291	76	75+	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Oldham	40026	54	45-54	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40217	59	55-64	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List3 (KU )	Fayette	40515	56	55-64	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Jefferson	40205	72	65-74	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List3 (KU )	Fayette	40511	42	35-44	-77	Kentucky Utilities	-77
I prefer not to answer	List1 ( LGE)	Oldham	40056	70	65-74	-77	Louisville Gas & Electric	-77

Export 1.1

Over \$30,000 - \$40,000	List1 ( LGE)	Jefferson	40291	28 25-34	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40219	69 65-74	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40217	48 45-54	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40217	69 65-74	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40217	36 35-44	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Oldham	40031	40 35-44	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40229	58 55-64	-77	Louisville Gas & Electric	-77
Under \$10,000	List1 ( LGE)	Jefferson	40208	26 25-34	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40205	77 75+	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40241	76 75+	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40019	83 75+	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40228	42 35-44	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40229	120 75+	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40228	41 35-44	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40241	61 55-64	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40299	56 55-64	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40243	53 45-54	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40228	82 75+	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Bullitt	40229	59 55-64	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List3 (KU )	Clark	40391	30 25-34	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Jefferson	40219	39 35-44	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40207	60 55-64	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40222	70 65-74	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List3 (KU )	Henry	40075	64 55-64	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40205	61 55-64	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40229	57 55-64	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40222	28 25-34	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40219	29 25-34	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Fayette	40511	41 35-44	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40218	64 55-64	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List3 (KU )	Fayette	40515	60 55-64	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Taylor	42718	55 55-64	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40218	41 35-44	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List3 (KU )	Marion	40033	38 35-44	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40203	51 45-54	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40220	61 55-64	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Oldham	40245	46 45-54	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40220	75 75+	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Oldham	40031	54 45-54	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List3 (KU )	Bourbon	40511	65 65-74	-77	Kentucky Utilities	-77
\$10,000 - \$20,000	List1 ( LGE)	Jefferson	40211	55 55-64	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40220	53 45-54	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40228	56 55-64	-77	Louisville Gas & Electric	-77
Over \$30,000 - \$40,000	List3 (KU )	Taylor	42718	84 75+	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40204	46 45-54	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List3 (KU )	Fayette	40513	64 55-64	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40205	81 75+	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40245	44 35-44	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40207	75 75+	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40219	56 55-64	-77	Louisville Gas & Electric	-77
Over \$30,000 - \$40,000	List3 (KU )	Fayette	40517	34 25-34	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Fayette	40502	56 55-64	-77	Kentucky Utilities	-77

Export 1.1

Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40299	65	65-74	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40059	38	35-44	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40207	61	55-64	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List3 (KU )	Fayette	40515	60	55-64	-77	Kentucky Utilities	-77
Over \$150,000 - \$200,000	List3 (KU )	Fayette	40514	68	65-74	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List3 (KU )	Fayette	40515	37	35-44	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List3 (KU )	Fayette	40509	61	55-64	-77	Kentucky Utilities	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40205	58	55-64	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List3 (KU )	Boyle	40422	89	75+	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40272	42	35-44	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List3 (KU )	Fayette	40513	86	75+	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40211	57	55-64	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List3 (KU )	Fayette	40509	31	25-34	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40218	34	25-34	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40245	48	45-54	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Jefferson	40215	58	55-64	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40299	43	35-44	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List3 (KU )	Fayette	40511	69	65-74	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40222	66	65-74	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Shelby	40065	61	55-64	-77	Kentucky Utilities	-77
\$10,000 - \$20,000	List1 ( LGE)	Jefferson	40218	63	55-64	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40299	62	55-64	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List3 (KU )	Fayette	40502	28	25-34	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40223	60	55-64	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40243	38	35-44	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40206	55	55-64	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40205	69	65-74	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40291	55	55-64	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40216	31	25-34	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Jefferson	40205	81	75+	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40205	71	65-74	-77	Louisville Gas & Electric	-77
Under \$10,000	List3 (KU )	Fayette	40517	64	55-64	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40228	48	45-54	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Fayette	40504	62	55-64	-77	Kentucky Utilities	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40242	40	35-44	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40245	71	65-74	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40220	43	35-44	-77	Louisville Gas & Electric	-77
Under \$10,000	List3 (KU )	Hart	42765	27	25-34	-77	Kentucky Utilities	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40223	71	65-74	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40299	67	65-74	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List3 (KU )	Fayette	40515	50	45-54	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40245	42	35-44	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40291	65	65-74	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List3 (KU )	Madison	40475	62	55-64	-77	Kentucky Utilities	-77
Over \$30,000 - \$40,000	List1 ( LGE)	Jefferson	40220	39	35-44	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40299	37	35-44	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40228	54	45-54	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40220	37	35-44	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List3 (KU )	Scott	40324	66	65-74	-77	Kentucky Utilities	-77
Over \$30,000 - \$40,000	List3 (KU )	Mason	41056	33	25-34	-77	Kentucky Utilities	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40228	82	75+	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40242	37	35-44	-77	Louisville Gas & Electric	-77

## Export 1.1

Over \$200,000	List3 (KU )	Fayette	40513	48	45-54	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40245	31	25-34	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40218	64	55-64	-77	Louisville Gas & Electric	-77
Over \$30,000 - \$40,000	List1 ( LGE)	Jefferson	40218	39	35-44	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40223	46	45-54	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List3 (KU )	Fayette	40517	62	55-64	-77	Kentucky Utilities	-77
Over \$200,000	List1 ( LGE)	Jefferson	40207	67	65-74	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40223	71	65-74	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List3 (KU )	Fayette	40511	61	55-64	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List3 (KU )	Fayette	40009	72	65-74	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40241	69	65-74	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40205	33	25-34	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40241	73	65-74	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40229	70	65-74	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40220	46	45-54	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List3 (KU )	Fayette	40511	48	45-54	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List3 (KU )	Fayette	40511	66	65-74	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 (KU )	Fayette	40517	66	65-74	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40208	63	55-64	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List3 (KU )	Grayson	42726	55	55-64	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List1 ( LGE)	Jefferson	40213	72	65-74	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40219	31	25-34	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40215	54	45-54	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40206	46	45-54	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List3 (KU )	Hardin	42701	46	45-54	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40206	67	65-74	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40207	60	55-64	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List3 (KU )	Woodford	40383	59	55-64	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List3 (KU )	Fayette	40517	78	75+	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40291	30	25-34	-77	Louisville Gas & Electric	-77
Over \$30,000 - \$40,000	List1 ( LGE)	Jefferson	40204	30	25-34	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List3 (KU )	Fayette	40514	65	65-74	-77	Kentucky Utilities	-77
Over \$30,000 - \$40,000	List3 (KU )	Rowan	40313	33	25-34	-77	Kentucky Utilities	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40022	47	45-54	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40219	49	45-54	-77	Louisville Gas & Electric	-77
Over \$150,000 - \$200,000	List1 ( LGE)	Jefferson	40205	44	35-44	-77	Louisville Gas & Electric	-77
I prefer not to answer	List2 ( LGE + KU )	Henry	40011	78	75+	-77	LG&E and KU	-77
Over \$20,000 - \$30,000	List3 (KU )	Fayette	40504	78	75+	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40241	77	75+	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List3 (KU )	Pendleton	41043	56	55-64	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40207	38	35-44	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List3 (KU )	Harlan	40870	81	75+	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Jessamine	40390	66	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Nelson	40004	69	65-74	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40205	67	65-74	-77	Louisville Gas & Electric	-77
I prefer not to answer	List1 ( LGE)	Jefferson	40206	54	45-54	-77	Louisville Gas & Electric	-77
Over \$30,000 - \$40,000	List3 (KU )	Union	42460	48	45-54	-77	Kentucky Utilities	-77
Over \$20,000 - \$30,000	List3 (KU )	Hopkins	42464	64	55-64	-77	Kentucky Utilities	-77
Under \$10,000	List3 (KU )	Scott	40324	69	65-74	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Anderson	40342	48	45-54	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40215	29	25-34	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Fayette	40503	62	55-64	-77	Kentucky Utilities	-77

## Export 1.1

\$10,000 - \$20,000	List3 (KU )	Union	42437	53	45-54	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Fayette	40505	36	35-44	-77	Kentucky Utilities	-77
Over \$30,000 - \$40,000	List3 (KU )	Whitley	40769	42	35-44	-77	Kentucky Utilities	-77
Over \$75,000 - \$100,000	List3 (KU )	Fayette	40514	38	35-44	-77	Kentucky Utilities	-77
I prefer not to answer	List1 ( LGE)	Shelby	40065	75	75+	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Carroll	41008	79	75+	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40214	32	25-34	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List3 (KU )	Mercer	40330	52	45-54	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List4 (ODP)	Russell	24224	43	35-44	-77	Old Dominion Power	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40229	52	45-54	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List3 (KU )	Rowan	40313	66	65-74	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List4 (ODP)	Wise	24293	67	65-74	-77	Old Dominion Power	-77
Over \$100,000 - \$150,000	List3 (KU )	Anderson	40342	59	55-64	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 (KU )	Fayette	40509	79	75+	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40205	73	65-74	-77	Louisville Gas & Electric	-77
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40299	70	65-74	-77	Louisville Gas & Electric	-77
Over \$40,000 - \$50,000	List3 (KU )	Union	42459	57	55-64	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40204	68	65-74	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Boyle	40422	53	45-54	-77	Kentucky Utilities	-77
I prefer not to answer	List3 (KU )	Madison	40475	66	65-74	-77	Kentucky Utilities	-77
Over \$50,000 - \$75,000	List3 (KU )	Fayette	40503	56	55-64	-77	Kentucky Utilities	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Jefferson	40217	65	65-74	-77	Louisville Gas & Electric	-77
Over \$20,000 - \$30,000	List3 (KU )	Scott	40324	74	65-74	-77	Kentucky Utilities	-77
Under \$10,000	List1 ( LGE)	Jefferson	40204	60	55-64	-77	Louisville Gas & Electric	Yes
Over \$50,000 - \$75,000	List1 ( LGE)	Jefferson	40245	83	75+	-77	Louisville Gas & Electric	-77
I prefer not to answer	List3 (KU )	Hardin	40160	79	75+	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40213	49	45-54	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List1 ( LGE)	Jefferson	40219	71	65-74	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List1 ( LGE)	Oldham	40014	36	35-44	-77	Louisville Gas & Electric	-77
Over \$75,000 - \$100,000	List3 (KU )	Green	42743	54	45-54	-77	Kentucky Utilities	-77
Over \$200,000	List3 (KU )	Union	42437	62	55-64	-77	Kentucky Utilities	-77
Over \$40,000 - \$50,000	List1 ( LGE)	Jefferson	40299	75	75+	-77	Louisville Gas & Electric	-77
Over \$100,000 - \$150,000	List3 (KU )	Madison	40475	63	55-64	-77	Kentucky Utilities	-77

Export 1.1

m_q5c_ Utility	m_lge_segment
-77 Kentucky Utilities	Southern Satellites
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	College Towns
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Kentucky Utilities	Small Town Simplicity
-77 Kentucky Utilities	Salt of the Earth
-77 Kentucky Utilities	College Towns
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	Up and Coming Families
-77 Old Dominion Power	Diners and Miners
-77 Kentucky Utilities	Green Acres
-77 Kentucky Utilities	Southern Satellites
-77 Kentucky Utilities	Midlife Constants
-77 LG&E and KU	Middleburg
-77 Louisville Gas & Electric	In Style
-77 Louisville Gas & Electric	Home Improvement
-77 Louisville Gas & Electric	Old and Newcomers
-77 Kentucky Utilities	Small Town Simplicity
-77 Kentucky Utilities	Midlife Constants
-77 Kentucky Utilities	Heartland Communities
-77 Kentucky Utilities	Rooted Rural
-77 Kentucky Utilities	College Towns
-77 Kentucky Utilities	Heartland Communities
-77 Kentucky Utilities	Old and Newcomers
-77 Kentucky Utilities	Salt of the Earth
-77 Kentucky Utilities	Old and Newcomers
-77 Old Dominion Power	Diners and Miners
-77 Kentucky Utilities	Middleburg
-77 Louisville Gas & Electric	Front Porches
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	Southern Satellites
-77 Kentucky Utilities	Salt of the Earth
-77 Kentucky Utilities	Green Acres
-77 Kentucky Utilities	Up and Coming Families
-77 Kentucky Utilities	Southern Satellites
-77 Kentucky Utilities	Southern Satellites
-77 Kentucky Utilities	Middleburg
-77 Louisville Gas & Electric	Bright Young Professionals
-77 Kentucky Utilities	Salt of the Earth
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	Diners and Miners
-77 Kentucky Utilities	Middleburg
-77 Louisville Gas & Electric	In Style
-77 Kentucky Utilities	Heartland Communities
-77 Kentucky Utilities	College Towns
-77 Louisville Gas & Electric	Comfortable Empty Nesters
-77 Old Dominion Power	Diners and Miners
-77 Kentucky Utilities	Boomburbs
-77 Louisville Gas & Electric	In Style
-77 Kentucky Utilities	Southern Satellites



## Export 1.1

-77 Kentucky Utilities	Small Town Simplicity
-77 Kentucky Utilities	Salt of the Earth
-77 Kentucky Utilities	Salt of the Earth
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	Old and Newcomers
-77 Kentucky Utilities	Old and Newcomers
-77 Kentucky Utilities	Salt of the Earth
-77 Kentucky Utilities	Rural Resort Dwellers
-77 Kentucky Utilities	Small Town Simplicity
-77 Old Dominion Power	Diners and Miners
-77 Louisville Gas & Electric	In Style
-77 Louisville Gas & Electric	Heartland Communities
-77 Old Dominion Power	Diners and Miners
-77 Kentucky Utilities	Set to Impress
-77 Kentucky Utilities	Heartland Communities
-77 Kentucky Utilities	Bright Young Professionals
-77 Kentucky Utilities	Rooted Rural
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Louisville Gas & Electric	Exurbanites
-77 Louisville Gas & Electric	Heartland Communities
-77 Kentucky Utilities	Diners and Miners
-77 Kentucky Utilities	College Towns
-77 Kentucky Utilities	Midlife Constants
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	Young and Restless
-77 Kentucky Utilities	Southern Satellites
-77 Kentucky Utilities	Dorms to Diplomas
-77 Kentucky Utilities	Up and Coming Families
-77 Old Dominion Power	Diners and Miners
-77 Louisville Gas & Electric	In Style
-77 Louisville Gas & Electric	Bright Young Professionals
-77 Kentucky Utilities	Heartland Communities
-77 Kentucky Utilities	Rooted Rural
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	Small Town Simplicity
-77 Kentucky Utilities	In Style
-77 Kentucky Utilities	Midlife Constants
-77 Louisville Gas & Electric	Heartland Communities
-77 Kentucky Utilities	Southern Satellites
-77 Kentucky Utilities	Old and Newcomers
-77 Kentucky Utilities	Rural Resort Dwellers
-77 Kentucky Utilities	Southern Satellites
-77 Kentucky Utilities	College Towns
-77 Kentucky Utilities	Southern Satellites
-77 Kentucky Utilities	College Towns
-77 Kentucky Utilities	Salt of the Earth
-77 Kentucky Utilities	Small Town Simplicity
-77 Kentucky Utilities	In Style
-77 Kentucky Utilities	Southern Satellites
-77 Kentucky Utilities	Old and Newcomers
-77 Kentucky Utilities	Heartland Communities
-77 Kentucky Utilities	Boomburbs

## Export 1.1

-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	Old and Newcomers
-77 Kentucky Utilities	Old and Newcomers
-77 Kentucky Utilities	Dorms to Diplomas
-77 Kentucky Utilities	Rooted Rural
-77 Kentucky Utilities	College Towns
-77 Kentucky Utilities	Midlife Constants
-77 Kentucky Utilities	Midlife Constants
-77 Kentucky Utilities	Southern Satellites
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	In Style
-77 Kentucky Utilities	Social Security Set
-77 Kentucky Utilities	Heartland Communities
-77 Kentucky Utilities	Midlife Constants
-77 Kentucky Utilities	Southern Satellites
-77 Kentucky Utilities	Middleburg
-77 Louisville Gas & Electric	College Towns
-77 Kentucky Utilities	Senior Escapes
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	Salt of the Earth
-77 Kentucky Utilities	Rural Bypasses
-77 Louisville Gas & Electric	Soccer Moms
-77 Kentucky Utilities	Diners and Miners
-77 Kentucky Utilities	Salt of the Earth
-77 LG&E and KU	Middleburg
-77 LG&E and KU	Traditional Living
-77 Louisville Gas & Electric	Exurbanites
-77 Kentucky Utilities	Middleburg
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Louisville Gas & Electric	Front Porches
-77 Louisville Gas & Electric	Emerald City
-77 Kentucky Utilities	Old and Newcomers
-77 Louisville Gas & Electric	In Style
-77 LG&E and KU	Middleburg
-77 Kentucky Utilities	Middleburg
-77 Louisville Gas & Electric	Exurbanites
-77 Kentucky Utilities	Middleburg
-77 Louisville Gas & Electric	Traditional Living
-77 Kentucky Utilities	Southern Satellites
-77 Louisville Gas & Electric	Professional Pride
-77 Kentucky Utilities	Dorms to Diplomas
-77 Louisville Gas & Electric	Front Porches
-77 Kentucky Utilities	Green Acres
-77 Old Dominion Power	Diners and Miners
-77 Louisville Gas & Electric	Front Porches
-77 Louisville Gas & Electric	Comfortable Empty Nesters
-77 Kentucky Utilities	Boomburbs
-77 Louisville Gas & Electric	Bright Young Professionals
-77 Louisville Gas & Electric	Southern Satellites
-77 Kentucky Utilities	Green Acres
-77 Louisville Gas & Electric	Modest Income Homes
-77 Louisville Gas & Electric	Soccer Moms

## Export 1.1

-77 Kentucky Utilities	Rooted Rural
-77 Kentucky Utilities	Southern Satellites
-77 Louisville Gas & Electric	Metro Fusion
-77 Kentucky Utilities	Dorms to Diplomas
-77 Louisville Gas & Electric	Old and Newcomers
-77 Louisville Gas & Electric	Professional Pride
-77 Louisville Gas & Electric	Professional Pride
-77 Kentucky Utilities	Heartland Communities
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Kentucky Utilities	Salt of the Earth
-77 Louisville Gas & Electric	Metro Fusion
-77 Louisville Gas & Electric	Old and Newcomers
-77 Louisville Gas & Electric	Soccer Moms
-77 Louisville Gas & Electric	Emerald City
-77 Louisville Gas & Electric	Professional Pride
-77 Louisville Gas & Electric	Old and Newcomers
-77 Louisville Gas & Electric	Comfortable Empty Nesters
-77 Kentucky Utilities	Set to Impress
-77 Kentucky Utilities	Rooted Rural
-77 Louisville Gas & Electric	Front Porches
-77 Kentucky Utilities	Small Town Simplicity
-77 Louisville Gas & Electric	Home Improvement
-77 Kentucky Utilities	Middleburg
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Louisville Gas & Electric	Professional Pride
-77 Kentucky Utilities	Salt of the Earth
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Kentucky Utilities	Rural Bypasses
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Louisville Gas & Electric	Emerald City
-77 Kentucky Utilities	Rooted Rural
-77 Kentucky Utilities	-66
-77 Kentucky Utilities	Small Town Simplicity
-77 Louisville Gas & Electric	Comfortable Empty Nesters
-77 Louisville Gas & Electric	Front Porches
-77 Louisville Gas & Electric	College Towns
-77 Louisville Gas & Electric	Emerald City
-77 Louisville Gas & Electric	In Style
-77 Kentucky Utilities	Old and Newcomers
-77 Kentucky Utilities	Boomburbs
-77 Louisville Gas & Electric	In Style
-77 Kentucky Utilities	Boomburbs
-77 Louisville Gas & Electric	Emerald City
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Kentucky Utilities	Small Town Simplicity
-77 Louisville Gas & Electric	Top Tier
-77 Louisville Gas & Electric	Comfortable Empty Nesters
-77 Kentucky Utilities	Old and Newcomers
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	Up and Coming Families
-77 Louisville Gas & Electric	Bright Young Professionals
-77 Kentucky Utilities	Heartland Communities

## Export 1.1

-77 LG&E and KU	Middleburg
-77 Kentucky Utilities	Young and Restless
-77 Kentucky Utilities	Up and Coming Families
-77 Kentucky Utilities	Green Acres
-77 Louisville Gas & Electric	Top Tier
-77 Louisville Gas & Electric	Heartland Communities
-77 Kentucky Utilities	Middleburg
-77 Louisville Gas & Electric	In Style
-77 Louisville Gas & Electric	Professional Pride
-77 Kentucky Utilities	Southern Satellites
-77 Louisville Gas & Electric	Old and Newcomers
-77 Kentucky Utilities	Salt of the Earth
-77 Louisville Gas & Electric	Old and Newcomers
-77 Louisville Gas & Electric	Professional Pride
-77 Louisville Gas & Electric	Front Porches
-77 Louisville Gas & Electric	Bright Young Professionals
-77 Kentucky Utilities	Southern Satellites
-77 Kentucky Utilities	In Style
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	Boomburbs
-77 Kentucky Utilities	In Style
-77 Old Dominion Power	Diners and Miners
-77 Old Dominion Power	Diners and Miners
-77 Kentucky Utilities	Rooted Rural
-77 Old Dominion Power	Diners and Miners
-77 Kentucky Utilities	Southern Satellites
-77 Kentucky Utilities	Middleburg
-77 Louisville Gas & Electric	In Style
-77 Kentucky Utilities	Rooted Rural
-77 Kentucky Utilities	Boomburbs
-77 Kentucky Utilities	Boomburbs
-77 Louisville Gas & Electric	In Style
-77 Louisville Gas & Electric	Professional Pride
-77 Kentucky Utilities	Diners and Miners
-77 Kentucky Utilities	In Style
-77 Kentucky Utilities	Boomburbs
-77 Kentucky Utilities	Up and Coming Families
-77 Louisville Gas & Electric	Family Foundations
-77 Louisville Gas & Electric	Soccer Moms
-77 Old Dominion Power	Diners and Miners
-77 Kentucky Utilities	Midlife Constants
-77 Kentucky Utilities	Up and Coming Families
-77 Louisville Gas & Electric	Emerald City
-77 Louisville Gas & Electric	Urban Chic
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Louisville Gas & Electric	Exurbanites
-77 Louisville Gas & Electric	Urban Chic
-77 Louisville Gas & Electric	Urban Chic
-77 Louisville Gas & Electric	In Style
-77 Louisville Gas & Electric	In Style
-77 Louisville Gas & Electric	In Style

## Export 1.1

-77 Kentucky Utilities	Bright Young Professionals
-77 Louisville Gas & Electric	Exurbanites
-77 Louisville Gas & Electric	Family Foundations
-77 Kentucky Utilities	College Towns
-77 Kentucky Utilities	Small Town Simplicity
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	Up and Coming Families
-77 Kentucky Utilities	Green Acres
-77 Kentucky Utilities	Up and Coming Families
-77 Kentucky Utilities	Boomburbs
-77 Louisville Gas & Electric	Modest Income Homes
-77 Louisville Gas & Electric	Southern Satellites
-77 Louisville Gas & Electric	Exurbanites
-77 Kentucky Utilities	Bright Young Professionals
-77 Kentucky Utilities	Boomburbs
-77 Louisville Gas & Electric	Heartland Communities
-77 Kentucky Utilities	Small Town Simplicity
-77 Louisville Gas & Electric	Top Tier
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	Up and Coming Families
-77 Kentucky Utilities	Rural Bypasses
-77 Kentucky Utilities	In Style
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	Rooted Rural
-77 Louisville Gas & Electric	Exurbanites
-77 Louisville Gas & Electric	Heartland Communities
-77 Louisville Gas & Electric	Old and Newcomers
-77 Old Dominion Power	Diners and Miners
-77 Kentucky Utilities	Rooted Rural
-77 Kentucky Utilities	Rooted Rural
-77 Louisville Gas & Electric	Heartland Communities
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Louisville Gas & Electric	Green Acres
-77 Kentucky Utilities	Up and Coming Families
-77 Louisville Gas & Electric	Bright Young Professionals
-77 Louisville Gas & Electric	Savvy Suburbanites
-77 Kentucky Utilities	Small Town Simplicity
-77 Louisville Gas & Electric	Exurbanites
-77 Louisville Gas & Electric	In Style
-77 Kentucky Utilities	Savvy Suburbanites
-77 LG&E and KU	Middleburg
-77 Louisville Gas & Electric	In Style
-77 Louisville Gas & Electric	In Style
-77 Louisville Gas & Electric	Urban Chic
-77 Louisville Gas & Electric	In Style
-77 Louisville Gas & Electric	Bright Young Professionals
-77 Louisville Gas & Electric	Soccer Moms
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Kentucky Utilities	Bright Young Professionals
-77 Louisville Gas & Electric	In Style
-77 Kentucky Utilities	Up and Coming Families
-77 Louisville Gas & Electric	Home Improvement

## Export 1.1

-77 Louisville Gas & Electric Bright Young Professionals  
 -77 Louisville Gas & Electric Front Porches  
 -77 Louisville Gas & Electric Rustbelt Traditions  
 -77 Louisville Gas & Electric Rustbelt Traditions  
 -77 Louisville Gas & Electric Rustbelt Traditions  
 -77 Kentucky Utilities Middleburg  
 -77 Louisville Gas & Electric Rustbelt Traditions  
 -77 Louisville Gas & Electric College Towns  
 -77 Louisville Gas & Electric In Style  
 -77 Louisville Gas & Electric Urban Chic  
 -77 Louisville Gas & Electric Heartland Communities  
 -77 Louisville Gas & Electric Comfortable Empty Nesters  
 -77 Louisville Gas & Electric Rustbelt Traditions  
 -77 Louisville Gas & Electric Comfortable Empty Nesters  
 -77 Louisville Gas & Electric Urban Chic  
 -77 Louisville Gas & Electric Comfortable Empty Nesters  
 -77 Louisville Gas & Electric In Style  
 -77 Louisville Gas & Electric Comfortable Empty Nesters  
 -77 Louisville Gas & Electric Rustbelt Traditions  
 -77 Kentucky Utilities Middleburg  
 -77 Louisville Gas & Electric Front Porches  
 -77 Louisville Gas & Electric In Style  
 -77 Louisville Gas & Electric Exurbanites  
 -77 Kentucky Utilities Salt of the Earth  
 -77 Louisville Gas & Electric In Style  
 -77 Louisville Gas & Electric Rustbelt Traditions  
 -77 Louisville Gas & Electric Exurbanites  
 -77 Louisville Gas & Electric Front Porches  
 -77 Kentucky Utilities Up and Coming Families  
 -77 Louisville Gas & Electric Old and Newcomers  
 -77 Kentucky Utilities Bright Young Professionals  
 -77 Kentucky Utilities Southern Satellites  
 -77 Louisville Gas & Electric Old and Newcomers  
 -77 Kentucky Utilities Salt of the Earth  
 -77 Louisville Gas & Electric City Commons  
 -77 Louisville Gas & Electric Rustbelt Traditions  
 -77 Louisville Gas & Electric Top Tier  
 -77 Louisville Gas & Electric Rustbelt Traditions  
 -77 Kentucky Utilities Middleburg  
 -77 Kentucky Utilities Up and Coming Families  
 -77 Louisville Gas & Electric Modest Income Homes  
 -77 Louisville Gas & Electric Rustbelt Traditions  
 -77 Louisville Gas & Electric Comfortable Empty Nesters  
 -77 Kentucky Utilities Southern Satellites  
 -77 Louisville Gas & Electric Emerald City  
 -77 Kentucky Utilities Savvy Suburbanites  
 -77 Louisville Gas & Electric In Style  
 -77 Louisville Gas & Electric Top Tier  
 -77 Louisville Gas & Electric In Style  
 -77 Louisville Gas & Electric Front Porches  
 -77 Kentucky Utilities Young and Restless  
 -77 Kentucky Utilities Old and Newcomers

## Export 1.1

-77 Louisville Gas & Electric Comfortable Empty Nesters  
 -77 Louisville Gas & Electric Professional Pride  
 -77 Louisville Gas & Electric In Style  
 -77 Kentucky Utilities Bright Young Professionals  
 -77 Kentucky Utilities Boomburbs  
 -77 Kentucky Utilities Bright Young Professionals  
 -77 Kentucky Utilities Boomburbs  
 -77 Louisville Gas & Electric In Style  
 -77 Kentucky Utilities Midlife Constants  
 -77 Louisville Gas & Electric Heartland Communities  
 -77 Kentucky Utilities Savvy Suburbanites  
 -77 Louisville Gas & Electric Modest Income Homes  
 -77 Kentucky Utilities Boomburbs  
 -77 Louisville Gas & Electric Old and Newcomers  
 -77 Louisville Gas & Electric Top Tier  
 -77 Louisville Gas & Electric Hardscrabble Road  
 -77 Louisville Gas & Electric Comfortable Empty Nesters  
 -77 Kentucky Utilities Up and Coming Families  
 -77 Louisville Gas & Electric Exurbanites  
 -77 Kentucky Utilities Green Acres  
 -77 Louisville Gas & Electric Old and Newcomers  
 -77 Louisville Gas & Electric Comfortable Empty Nesters  
 -77 Kentucky Utilities Old and Newcomers  
 -77 Louisville Gas & Electric Exurbanites  
 -77 Louisville Gas & Electric In Style  
 -77 Louisville Gas & Electric Emerald City  
 -77 Louisville Gas & Electric In Style  
 -77 Louisville Gas & Electric Bright Young Professionals  
 -77 Louisville Gas & Electric Family Foundations  
 -77 Louisville Gas & Electric In Style  
 -77 Louisville Gas & Electric In Style  
 -77 Kentucky Utilities Young and Restless  
 -77 Louisville Gas & Electric Comfortable Empty Nesters  
 -77 Kentucky Utilities College Towns  
 -77 Louisville Gas & Electric Old and Newcomers  
 -77 Louisville Gas & Electric Top Tier  
 -77 Louisville Gas & Electric Rustbelt Traditions  
 -77 Kentucky Utilities Small Town Simplicity  
 -77 Louisville Gas & Electric Exurbanites  
 -77 Louisville Gas & Electric Comfortable Empty Nesters  
 -77 Kentucky Utilities Bright Young Professionals  
 -77 Louisville Gas & Electric Top Tier  
 -77 Louisville Gas & Electric Bright Young Professionals  
 -77 Kentucky Utilities College Towns  
 -77 Louisville Gas & Electric Rustbelt Traditions  
 -77 Louisville Gas & Electric Comfortable Empty Nesters  
 -77 Louisville Gas & Electric Comfortable Empty Nesters  
 -77 Louisville Gas & Electric Rustbelt Traditions  
 -77 Kentucky Utilities Up and Coming Families  
 -77 Kentucky Utilities Small Town Simplicity  
 -77 Louisville Gas & Electric Comfortable Empty Nesters  
 -77 Louisville Gas & Electric Old and Newcomers

-77 Kentucky Utilities Savvy Suburbanites  
-77 Louisville Gas & Electric Top Tier  
-77 Louisville Gas & Electric Old and Newcomers  
-77 Louisville Gas & Electric Old and Newcomers  
-77 Louisville Gas & Electric Exurbanites  
-77 Kentucky Utilities Young and Restless  
-77 Louisville Gas & Electric In Style  
-77 Louisville Gas & Electric Exurbanites  
-77 Kentucky Utilities Up and Coming Families  
-77 Kentucky Utilities Rooted Rural  
-77 Louisville Gas & Electric Urban Chic  
-77 Louisville Gas & Electric In Style  
-77 Louisville Gas & Electric Urban Chic  
-77 Louisville Gas & Electric Rustbelt Traditions  
-77 Louisville Gas & Electric Rustbelt Traditions  
-77 Kentucky Utilities Up and Coming Families  
-77 Kentucky Utilities Up and Coming Families  
-77 Kentucky Utilities Young and Restless  
-77 Louisville Gas & Electric College Towns  
-77 Kentucky Utilities Rooted Rural  
-77 Louisville Gas & Electric Metro Fusion  
-77 Louisville Gas & Electric Front Porches  
-77 Louisville Gas & Electric Hardscrabble Road  
-77 Louisville Gas & Electric Emerald City  
-77 Kentucky Utilities Middleburg  
-77 Louisville Gas & Electric Emerald City  
-77 Louisville Gas & Electric In Style  
-77 Kentucky Utilities Middleburg  
-77 Kentucky Utilities Young and Restless  
-77 Louisville Gas & Electric Bright Young Professionals  
-77 Louisville Gas & Electric Emerald City  
-77 Kentucky Utilities Boomburbs  
-77 Kentucky Utilities Small Town Simplicity  
-77 Louisville Gas & Electric Green Acres  
-77 Louisville Gas & Electric Front Porches  
-77 Louisville Gas & Electric In Style  
-77 LG&E and KU Southern Satellites  
-77 Kentucky Utilities College Towns  
-77 Louisville Gas & Electric Urban Chic  
-77 Kentucky Utilities Southern Satellites  
-77 Louisville Gas & Electric In Style  
-77 Kentucky Utilities Diners and Miners  
-77 Kentucky Utilities Midlife Constants  
-77 Kentucky Utilities Traditional Living  
-77 Louisville Gas & Electric In Style  
-77 Louisville Gas & Electric Emerald City  
quoted Kentucky Utilities -66  
-77 Kentucky Utilities Rooted Rural  
-77 Kentucky Utilities Up and Coming Families  
-77 Kentucky Utilities Middleburg  
-77 Louisville Gas & Electric Hardscrabble Road  
-77 Kentucky Utilities In Style



## Export 1.1

quoted Kentucky Utilities	Heartland Communities
-77 Kentucky Utilities	Set to Impress
-77 Kentucky Utilities	Rural Bypasses
-77 Kentucky Utilities	Boomburbs
-77 Louisville Gas & Electric	Green Acres
-77 Kentucky Utilities	Southern Satellites
quoted Louisville Gas & Electric	Front Porches
-77 Kentucky Utilities	Salt of the Earth
-77 Old Dominion Power	Diners and Miners
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Kentucky Utilities	Small Town Simplicity
-77 Old Dominion Power	Diners and Miners
-77 Kentucky Utilities	Middleburg
-77 Kentucky Utilities	Boomburbs
-77 Louisville Gas & Electric	In Style
-77 Louisville Gas & Electric	Comfortable Empty Nesters
-77 Kentucky Utilities	Heartland Communities
-77 Louisville Gas & Electric	Emerald City
-77 Kentucky Utilities	Midlife Constants
-77 Kentucky Utilities	College Towns
-77 Kentucky Utilities	In Style
-77 Louisville Gas & Electric	Rustbelt Traditions
-77 Kentucky Utilities	Up and Coming Families
-77 Louisville Gas & Electric	Emerald City
-77 Louisville Gas & Electric	Top Tier
-77 Kentucky Utilities	Old and Newcomers
-77 Louisville Gas & Electric	Metro Fusion
-77 Louisville Gas & Electric	Front Porches
-77 Louisville Gas & Electric	Professional Pride
-77 Kentucky Utilities	Rooted Rural
-77 Kentucky Utilities	Heartland Communities
-77 Louisville Gas & Electric	Comfortable Empty Nesters
-77 Kentucky Utilities	College Towns

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 32**

**Responding Witness: John K. Wolfe**

- Q-32. Refer to the IRP, Volume I, Section 8, Resource Assessment and Acquisition Plan, page 10. Provide the expected implementation of the online DER interconnection application portal.
- A-32. The Companies are planning the implementation of the online DER interconnection portal for 2023-2024.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 33**

**Responding Witness: David S. Sinclair**

Q-33. Refer to the IRP, Volume I, Section 8, Resource Assessment and Acquisition Plan, page 33.

- a. Regarding vegetation management, explain how effective was using sheep compared to standard vegetation management practices.
- b. Explain how the costs of using grazing generally compare to standard vegetation management practices.

A-33.

- a. The Companies' vegetation management research project at E.W. Brown Solar demonstrated that sheep are a very effective replacement for traditional mowing at this location. The sheep are able to maintain vegetation height below the height of panels continuously. Standard vegetation management practices, i.e. mowing and trimming, are especially labor-intensive on a solar farm because of the limited space beneath panels and between rows of panels, which limits the type of mowing equipment that can be used. To address this challenge and lower mowing costs, the Companies decided to test grazing sheep, and smaller breeds of sheep—Shetlands and Katahdins—which are small enough to move easily beneath the panels. Sheep are also more docile than other animals, do not climb or jump, and have caused no damage to infrastructure or other adverse effects. No sheep were injured, and in fact, the sheep seem to enjoy a quality of life similar to, or better than, many farms. The solar panels provide the sheep optional shelter from sun, rain, and snow. The sheep may also be safer on the solar farm due to 24/7 security, and the security fence being larger and more robust, better protecting them from predators than traditional fencing at other farms. The exact acreage the sheep will be able to maintain will naturally vary with weather, the rate that grass grows, and the numbers of available sheep. For example, in a dryer summer, when grass grows slower, the sheep will be able to—and will need to—graze a larger area of land. If grass grows faster, for example in a year with more rainfall, then the density of vegetation per acre will be increased and the acres of land the same number of sheep can maintain will be reduced. While

grazing drastically reduces the need for human labor, and thus costs, even with grazing, some vegetation management will still be required, either by the shepherd or facility owner, to maintain parts of the property that sheep cannot access, such as trimming the perimeter fence line, or manually removing certain plants with sharp prickles that sheep do not eat, such as thistle. In the case at E.W. Brown, the shepherd performed these tasks for the Companies in addition to caring for the sheep.

- b. The mowing cost for E.W. Brown Solar in 2017 and 2018, when standard mowing practices were used to prevent vegetation from shading the solar panels, averaged \$1,520 per acre per year. In contrast, this vegetation management research found that the on-going cost of using sheep to graze the solar site will be between \$800 to \$1,200 per acre per year.<sup>16</sup> Most of the cost for the grazing project is the shepherd's labor, which could vary significantly by person and with the proximity of a suitable shepherd to the solar site. In the case of this research project of E.W. Brown Solar, the Companies benefited from partnership with neighboring Shaker Village of Pleasant Hill, a non-profit farm within 3 miles of the solar farm. Longer distances between the solar site and the shepherd would increase mileage, labor time, and costs. Larger solar sites may reduce costs on per acre basis by allowing for lower mobilization costs and other economies of scale. The cost of the sheep, veterinary care, and fencing are relatively insignificant drivers of overall costs. For the use of their sheep, the shepherd's labor, mileage, veterinary care, and other services, in 2022 and 2023, the Companies will pay by paying Shaker Village \$30,000 per year, for 125 to 200 sheep to maintain 25 to 35 acres, at an average cost of \$857 to \$1,200 per acre.

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<sup>16</sup> The Electric Power Research Institute (EPRI) monitored the project and published a report called Solar Grazing: Viability of Grazing Sheep for Vegetation Management available at: <https://www.epri.com/research/products/000000003002023328>

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 34**

**Responding Witness: Stuart A. Wilson**

- Q-34. Refer to the IRP, Volume III, 2021 RMA in general. Provide a list of significant differences in key inputs and uncertainties between the 2019 IRP and the current IRP.
- A-34. The only significant difference in inputs is that Mill Creek 1 and the Companies' small-frame SCCTs are assumed to be retired in 2025 in this IRP. The results of past IRPs (including the 2018 IRP) were communicated in the context of a summer peak reserve margin, whereas the results of this IRP are communicated in the context of a summer and winter peak reserve margin. Lastly, this IRP investigates the impact of adding solar generation on the Companies' reliability metrics.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 35**

**Responding Witness: Stuart A. Wilson**

- Q-35. Refer to the IRP, Volume III, 2021 RMA, page 17. Explain why available transmission capacity is assumed to be 500 MW two-thirds of the time and zero MW one-third of the time.
- A-35. As shown in Table 7 on page 16, available transmission capacity ("ATC") is uncertain and has a wide range of distribution. For simplicity and to be consistent with the 2018 IRP analysis, this IRP assumes that 500 MW of transmission capacity is available two-thirds of time. In Section 5.3, the Companies evaluated sensitivities to this assumption by decreasing and increasing ATC to 0 and 1,000 MW, respectively.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 36**

**Responding Witness: Stuart A. Wilson**

- Q-36. Refer to the IRP, Volume III, 2021 RMA, Table 11 and footnote 23, page 21. Explain why NREL's 2021 ATB was not used as a source of data and provide an update using the most current ATB data.
- A-36. Footnote 23 is incorrect. NREL's 2021 ATB was the data source for Table 11.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 37**

**Responding Witness: Stuart A. Wilson**

- Q-37. Refer to the IRP, Volume II, Electric Sales & Demand Forecast Process, Section 3.1, page 6.
- a. Explain whether LG&E/KU ran the models using 10- or 30-year weather data. If it used both, explain whether the differences were significant.
  - b. Explain why LG&E/KU utilized 20 years of weather data to determine "weather normal" as opposed to a longer or shorter timeframe.
  - c. Explain whether the Companies modeled severe weather events in their demand forecasting or in their Reserve Margin Analysis.
  - d. Explain the purpose and benefit of smoothing the daily normal weather values.
- A-37.
- a. The Companies did not run the models using 10- or 30-year weather data.
  - b. A 20-year period is more representative of recent trends than a 30-year period and not unduly influenced by a single weather year like a 10-year period. Furthermore, the Companies have used this approach for many years.



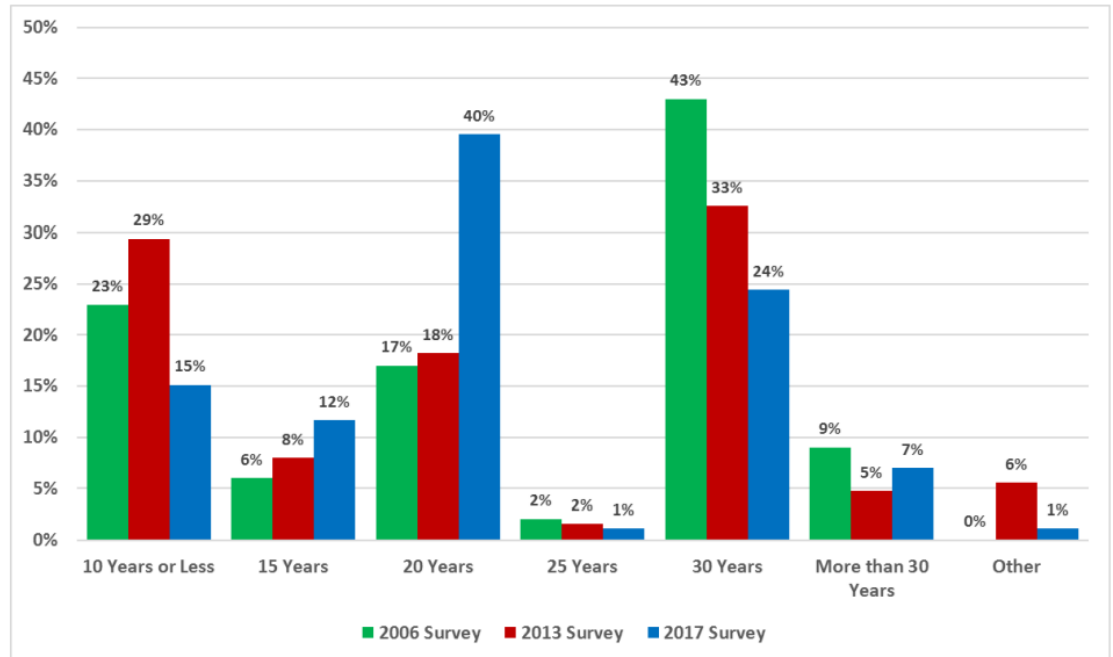
The figure below is taken from the 2017 Forecast Benchmarking Survey completed by Itron. In 2017, 20 years was the most commonly used period for computing normal weather.

2017 Forecasting Benchmark Survey

**Normal Weather**

The 2017 survey asked respondents how many years of historical weather data they use to calculate normal weather. These results are combined with Itron's 2006 and 2013 survey results and presented in Figure 30. The figure shows a steady decline in the number of utilities using thirty-year normal weather. In the current survey, most of the respondents are now using 20-year normal weather calculations.

**Figure 30: Normal Weather Years**



- c. As explained in section 4.8 of the referenced document, the Companies use temperatures from the last 48 years to run scenario analysis. This includes temperatures from all extreme weather events during that time period.
- d. The smoothing process and other adjustments ensure the daily normal weather forecast is consistent with the monthly normal weather forecast. The daily forecast is used to create a normal weather forecast by billing period and to compute ratios for allocating billing period sales to calendar months.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 38**

**Responding Witness: Stuart A. Wilson**

- Q-38. Refer to the IRP, Volume II, Electric Sales & Demand Forecast Process, Section 3.1, page 12. Provide the analysis used to blend the consumer choice model output with the EIA adapted forecast output for the EV Forecast.
- A-38. See attachment being provided in Excel format. Certain information requested is confidential and proprietary and is being provided under seal pursuant to a petition for confidential protection.

The attachment is being provided in a separate file in Excel format.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 39**

**Responding Witness: Stuart A. Wilson**

- Q-39. Refer to the IRP, Volume II, Electric Sales and Demand Forecast Process, Section 4, pages 7–13. For each of the Forecast models listed in Sections 4.1–4.7, provide each model regression output equation and identify the variables in each equation.
- A-39. See attachment being provided in Excel format.

The attachment is being provided in a separate file in Excel format.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 40**

**Responding Witness: Stuart A. Wilson**

Q-40. Refer to the IRP, Volume II, Electric Sales and Demand Forecast Process, Section 4.1.2, page 8.

- a. Provide a detailed explanation of how each of the independent variables, XHeat, XCool, and XOther are constructed.-13- Case No. 2021-00393
- b. Appendix A appears to have been omitted from the document. Provide a copy of Appendix A, which contains a more detailed discussion of the variables and the methodology used to construct the variables comprising the residential use per customer variable.
- c. Explain why the Statistically Adjusted End-Use model was not used for the Commercial customer class.

A-40.

- a. See the response to part b.
- b. See attached. The information requested is confidential and proprietary and is being provided under seal pursuant to a petition for confidential protection.
- c. Commercial customers are served primarily on the GS, PS-Secondary, and TOD-Secondary rates. As mentioned in section 4.2.1 of the document referenced, the SAE models are used in the creation of the GS forecasts.

The entire attachment is  
Confidential and  
provided separately  
under seal.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 41**

**Responding Witness: Stuart A. Wilson**

- Q-41. Refer to the IRP, Volume II, Electric Sales & Demand Forecast Process, page 12. Explain whether LG&E/KU is aware of any pending or proposed legislation regarding renewal of the Investment Tax Credit (ITC) for solar installations or expansion to standalone battery storage facilities. If not, explain each basis for LG&E/KU's assumption that the ITC will be extended for another 10 years.
- A-41. As of the date of the preparation of this response, the Companies are not aware of any currently pending or proposed legislation regarding the renewal of the ITC, although this scenario has been discussed in recent months.<sup>17</sup> The ITC was recently renewed at the end of 2020, and due to the current administration's focus on renewables, it is plausible to assume that it may be extended again. The Companies contemplated including either a 5-year extension of the ITC, a 10-year extension, or a perpetual ITC in their solar model. Ultimately, the 10-year extension was chosen as a middle ground.

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<sup>17</sup> <https://www.pv-tech.org/10-year-solar-itc-extension-standalone-storage-credit-and-ptc-revival-included-in-draft-budget-bill/>



**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 42**

**Responding Witness: Stuart A. Wilson**

- Q-42. Refer to the IRP, Volume III, 2021 IRP Resource Screening Analysis in general.
- a. Explain why LG&E/KU did not directly evaluate new DSM programs but just identified potential opportunities related to the implementation of AMI.
  - b. For the evaluated technologies, explain in what manner fixed operating and maintenance cost have increased from the 2018 IRP, and why wind did not similarly increase.
  - c. Explain whether or not LG&E/KU evaluated PPOs as opposed to company owned resources for supply side energy and capacity.
  - d. Explain whether LG&E/KU evaluated supply-side resources outside of their service territory. If so, provide a list and explain why the supply side resource was considered to be not be cost effective. If not, explain why
- A-42.
- a. See the response to Question No. 4.
  - b. The Companies utilized NREL's 2018 ATB for the 2018 IRP and 2021 ATB for the 2021 IRP. For each evaluated technology, fixed O&M assumptions from NREL's 2018-2021 ATBs in 2022 nominal dollars (inflated at 2% annually from real dollars) are shown in the table below. NREL does not provide an explanation of changes from one ATB to the next.

Fixed O&M (2022 Installation; 2022 Dollars)

Technology	2018 ATB	2019 ATB	2020 ATB	2021 ATB
SCCT	14	14	12	22
NGCC w/CCS	37	37	29	69
4-hr Battery	N/A	32	34	32
8-hr Battery	9	50	63	58
KY Solar	8	13	16	23
KY Wind	55	46	45	44

- c. See the response to Question No. 26a.
- d. The Companies considered a wind resource located in Indiana in the Resource Screening Analysis. See the response to Question No. 22 and Volume III, Resource Screening Analysis, Section 2.2.2. No other supply-side resources outside of their service territory were evaluated.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 43**

**Responding Witness: Stuart A. Wilson**

- Q-43. Refer to the IRP, Volume III, 2021 IRP Resource Screening Analysis, Section 2.1.3, page 7. Explain how LG&E/KU arrived at the conclusion that 4- and 8-hour batteries were the optimal choice for serving its customers.
- A-43. The Companies wanted to evaluate batteries with shorter and longer durations. 4-hour batteries were evaluated instead of a 2-hour batteries because 4-hour batteries have a lower levelized cost of energy. The Companies evaluated longer duration batteries across a variety of scenarios with high penetrations of renewables and found that 8-hour batteries were more cost-effective than a 6- or 10-hour batteries in the majority of scenarios.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 44**

**Responding Witness: David S. Sinclair**

Q-44. Refer to the IRP, Volume III, 2021 IRP Resource Screening Analysis, Section 2.1.3, page 8. Given that states of charge (SOC) is typically limited to between 5 percent and 95 percent, explain the results of the LG&E/KU energy storage testing that led it to limit the SOC to between 10 percent and 90 percent.

A-44. The Company's highest priority is safety. Limiting the state of charge ("SOC") was one of dozens of preventative safety measures taken in 2019 by the Companies after thermal runaway, fire, and explosion events at other lithium-ion energy storage systems around the world. The Companies research into these incidents indicated that many lithium-ion thermal runaway occurred while the battery SOC was very high—above 90%. For example, see the 2019 battery fire and explosion event at Arizona Public Service McMicken Energy Storage Facility in 2019, which was the same LG Chem system the Companies installed at E.W. Brown.<sup>18</sup> When SOC is high, there is more energy stored in the battery, and higher energy-density, which allows thermal runaway to happen at lower temperatures. Research from Sandia National Laboratories in 2019 found that "thermal runaway onset temperature decreases and peak heating rate increases with SOC due to cathode destabilization."<sup>19</sup>

The Companies have also limited the lower-bound SOC limit to 10% for better cell-voltage balancing to promote system longevity and safety. According to a study published in *Nature*, SOC lower than 5% results in too little charge for cell voltage balancing.<sup>20</sup> Without enough charge for cell voltage balancing, lithium-ion battery cells in series are prone to over-discharging which may result in an internal short circuit. The damage from an internal short circuit can result in a

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<sup>18</sup> LG Chem Report for Commission Inquiry of Arizona Public Service Battery Incident. July 30, 2020. Site Inspection, Page 36. <https://docket.images.azcc.gov/E000007939.pdf>

<sup>19</sup> Barkholtz et al. "Multi-scale thermal stability study of commercial lithium-ion batteries as a function of cathode chemistry and state-of-charge." *Journal of Power Sources* 435 (2019): 226777. <https://www.sciencedirect.com/science/article/abs/pii/S0378775319307487>

<sup>20</sup> Guo *et al.* "Mechanism of the entire overdischarge process and overdischarge-induced internal short circuit in lithium-ion batteries." *Scientific reports* 6, no. 1 (2016): 1-9. <https://www.sciencedirect.com/science/article/abs/pii/S0378775319307487?via%3Dihub>

fire during subsequent charging. As part of the Companies' commitment to safety, the SOC operating range was limited to 10% to avoid dangerously low voltage, reduce the risk of fire, and promote longevity.

The Companies have been leaders in lithium-ion battery safety and preventive measures taken at E.W. Brown have been used as models for other systems around the United States and around the world. Visitors have come from around the world to the E.W. Brown energy storage testing facility to see the safety measures.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 45**

**Responding Witness: Stuart A. Wilson**

- Q-45. Refer to the IRP, Volume III, 2021 IRP Resource Screening Analysis, Section 2.2.1, pages 9–10.
- A-45. The Companies assume that the reference in this question applies to Question Nos. 46, 47 and 48.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

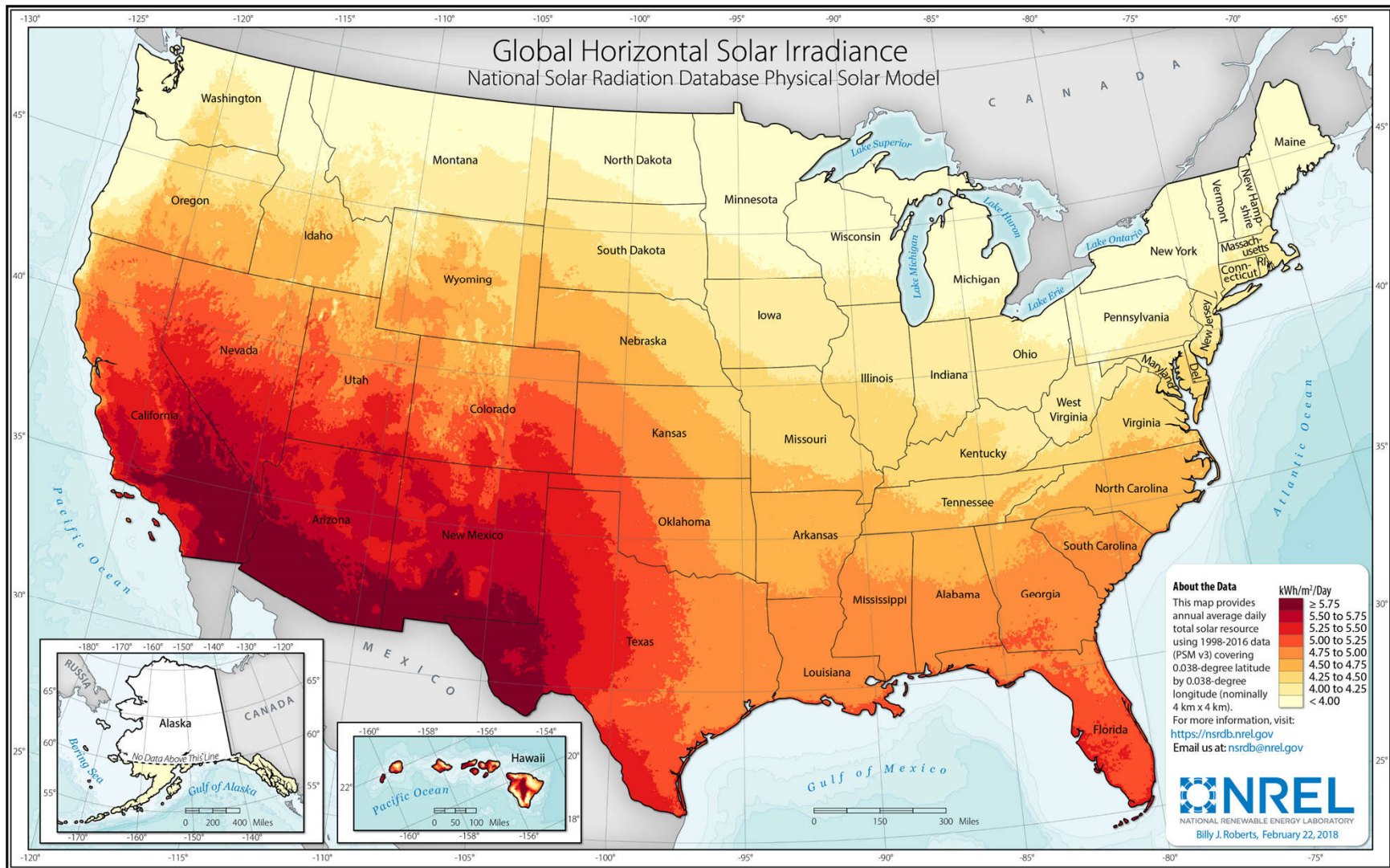
**Question No. 46**

**Responding Witness: Stuart A. Wilson**

- Q-46. Provide a map that overlays solar irradiance in LG&E/KU's service territory with current and planned solar resources.
- A-46. See attached. NREL's solar irradiance map<sup>21</sup> is shown for the US along with an excerpt of Kentucky showing the Companies' current and planned solar facilities.

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<sup>21</sup> NREL 2021 ATB [https://atb.nrel.gov/electricity/2021/utility-scale\\_pv](https://atb.nrel.gov/electricity/2021/utility-scale_pv)







**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 47**

**Responding Witness: Stuart A. Wilson**

- Q-47. Based upon the levelized cost of energy (LCOE) in Table 5, explain how LG&E/KU determines optimal locations for solar resources, and whether there is a minimum level of solar irradiance necessary for solar resources to be economical.
- A-47. The Companies did not assume any specific locations in the state for solar resources in the 2021 IRP. Generally, all of Kentucky allows for an acceptable level of solar irradiance. Actual solar resources will be sited based on available land alternatives and project economics.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 48**

**Responding Witness: Stuart A. Wilson**

- Q-48. Explain whether the solar irradiance values given for Kentucky are based on a "weather normal" average.
- A-48. In the IRP, Volume III, 2021 IRP Resource Screening Analysis, Section 2.2.1, the solar irradiance values given for Kentucky represent the range of annual Direct Normal Irradiance ("DNI") experienced across the state rather than weather normal values. Modeled values of DNI are available from the National Renewable Energy Laboratory ("NREL") National Solar Research Database ("NSRDB") Data Viewer for various geographies.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 49**

**Responding Witness: Stuart A. Wilson**

- Q-49. Refer to the IRP, Volume III, 2021 IRP Resource Screening Analysis, Section 2.2.1, page 10. Explain why it is reasonable to align the cost of solar energy to the Rhudes Creek price throughout the IRP planning period.
- A-49. Based on NREL's cost assumptions, the levelized cost of energy for utility-scale solar is approximately \$10/MWh higher than the cost of Rhudes Creek Solar (\$27.82/MWh) in 2022 and does not approach the Rhudes Creek price until 2031. The Companies aligned the cost of solar in the 2021 IRP with the Rhudes Creek price so that the cost of solar – particularly in the near-term - would be consistent with the cost of recent solar transactions. In the Companies' view, using the higher price in the near-term is unreasonable.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 50**

**Responding Witness: Stuart A. Wilson**

- Q-50. Refer to the IRP, Volume III, 2021 IRP Resource Screening Analysis, Section 2.2.2, page 10. Explain why areas with wind speeds of at least 14.5 mph are better suited for wind generation. If LG&E/KU relied on a source for this conclusion, provide the source.
- A-50. Areas with higher average wind speeds generally result in more generation and thus, lower costs per megawatt-hour produced. Wind turbines sited in areas with a 14.5 mph annual average wind speed will have a higher capacity factor and better economics than wind turbines sited in areas with a 12.5 mph average wind speed. According to the 2021 Annual Technology Baseline from the National Renewable Energy Laboratory, the average annual capacity factor can be as high as 33% in an area with 14.5 mph average wind speed and just 17% in an area with an average wind speed of 12.5 mph for a wind turbine built in 2022 with a 110-meter hub height.<sup>22</sup> The U.S. Energy Information Administration recommends an annual average wind speed of at least 13 mph for utility-scale wind turbines.<sup>23</sup>

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<sup>22</sup> NREL 2021 ATB [https://data.openei.org/files/4129/2021-ATB-Data\\_Master\\_new.xlsx](https://data.openei.org/files/4129/2021-ATB-Data_Master_new.xlsx)

<sup>23</sup> U.S. Energy Information Administration <https://www.eia.gov/energyexplained/wind/where-wind-power-is-harnessed.php>

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 51**

**Responding Witness: Stuart A. Wilson**

- Q-51. Refer to the IRP, Volume III, 2021 IRP Resource Screening Analysis, Section 3.1, page 11. Provide the LCOE of installing nuclear units in 2022 and 2031, and explain whether, when, and under what circumstances nuclear units become economical, including an explanation of whether they become economical under a carbon tax scenario.
- A-51. The LCOE of nuclear units in 2022 and 2031 using NREL's 2021 ATB assumptions are \$102.16/MWh and \$115.38/MWh, respectively. The Companies have not performed an analysis to determine when nuclear units become economical.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 52**

**Responding Witness: Stuart A. Wilson**

- Q-52. Refer to the IRP, Volume III, 2021 IRP Resource Screening Analysis, Section 3.2, page 11.
- a. Provide the LCOE of installing Combined Cycle with Hydrogen units in 2022 and 2031.
  - b. Explain whether, when, and under what circumstances Combined Cycle with Hydrogen units become economical, including an explanation of whether they become economical under a carbon tax scenario.
  - c. Provide a fuel cost comparison of hydrogen fuel versus natural gas.
- A-52.
- a. NREL's 2021 ATB did not include cost estimates or assumptions for a combined cycle with hydrogen. The International Energy Agency found that green hydrogen fuel costs ranged from \$24.2/MMBtu to \$52.8/MMBtu in 2019 and forecasted that cost reductions and efficiency gains could lead to a price as low as \$11.4/MMBtu in 2050. Electricity from a combined cycle unit fueled by hydrogen would have cost \$196/MWh to \$449/MWh in 2019 and at least \$89/MWh in 2050 using those hydrogen fuel prices from IEA, heat rate, CAPEX, OPEX, and capital recovery period from the National Renewable Energy Laboratory 2020 Annual Technology Baseline, and a discount rate of 9.73%.<sup>24</sup>
  - b. The Companies have not performed this analysis.
  - c. The International Energy Agency's ("IEA") estimates the levelized cost of hydrogen production to be \$4.40 to \$14.94 per MMBtu<sup>25</sup> for hydrogen produced from natural gas, and \$26.37 to \$70.32 per MMBtu for hydrogen

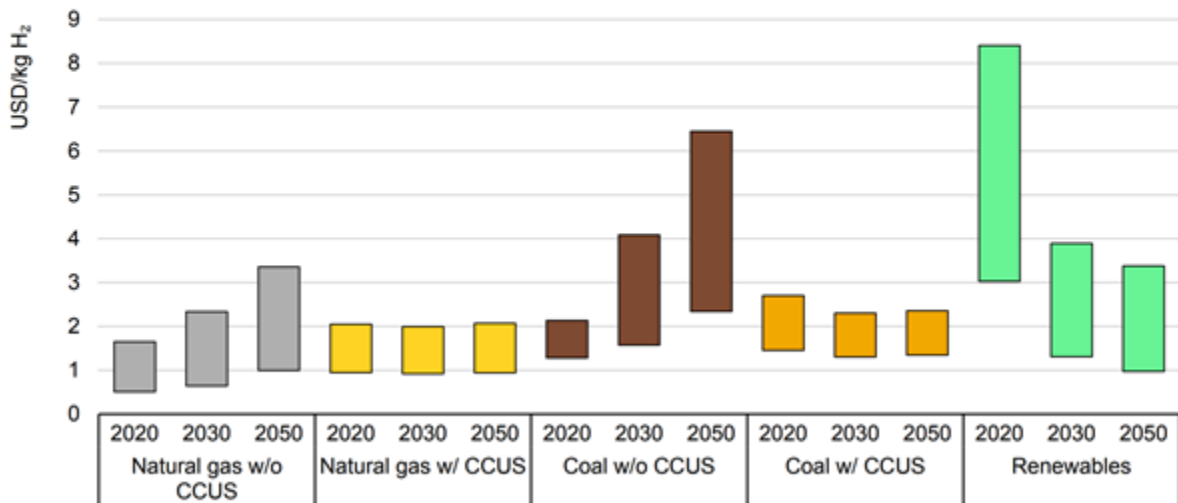
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<sup>24</sup> National Renewable Energy Laboratory. "2020 Annual Technology Baseline." See <https://atb-archive.nrel.gov/electricity/2020/files/2020-ATB-Data.xlsm>.

<sup>25</sup> Hydrogen values were converted from dollar per kilogram to dollar per MMBtu using the conversion factor of \$1 per kg is equal to \$8.79 per MMBtu.

produced using renewable electricity.<sup>26</sup> The IEA forecasts ranges for future levelized hydrogen costs shown in the following chart. The Companies' current natural gas forecasts range between \$2.18 to \$4.66 per MMBtu on a levelized basis through 2050.<sup>27</sup>

Levelised cost of hydrogen production by technology in 2020, and in the Net zero Emissions Scenario, 2030 and 2050



The U.S. Department of Energy’s Energy Earthshot Initiative, “Hydrogen Shot,” goal is to reach \$8.79 per MMBtu (equivalent to \$1 per kg) for hydrogen produced using renewable electricity by 2030.<sup>28</sup> The Companies’ current natural gas price forecasts range between \$2.14 and \$4.26 per MMBtu in 2030 on a nominal basis.

<sup>26</sup> IEA’s estimated levelized cost of hydrogen production from natural gas ranges from \$0.5/kg to \$1.7/kg, natural gas with carbon capture ranges from \$1/kg to \$2/kg. Using renewable electricity, the levelized cost ranges from \$3/kg to \$8/kg. “Global Hydrogen Review 2021,” page 113. See <https://iea.blob.core.windows.net/assets/5bd46d7b-906a-4429-abda-e9c507a62341/GlobalHydrogenReview2021.pdf>

<sup>27</sup> For comparison purposes, this calculation uses IEA’s assumed discount rate of 5% as provided in IEA’s “Global Hydrogen Review: Assumptions annex.” See [https://iea.blob.core.windows.net/assets/2ceb17b8-474f-4154-aab5-4d898f735c17/IEAGHRassumptions\\_final.pdf](https://iea.blob.core.windows.net/assets/2ceb17b8-474f-4154-aab5-4d898f735c17/IEAGHRassumptions_final.pdf).

<sup>28</sup> U.S. Department of Energy, 2021, “Hydrogen Shot.” See <https://www.energy.gov/eere/fuelcells/hydrogen-shot>.



**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 53**

**Responding Witness: Stuart A. Wilson**

- Q-53. Refer to the 2021 IRP Resource Screening Analysis, Section 3.4, page 12.
- a. Provide examples of Integrated Gasification Combined-Cycle units exceeding costs.
  - b. Provide the LCOE of installing Integrated Gasification Combined-Cycle units in 2022 and 2031, and explain whether, when, and under what circumstances Integrated Gasification Combined-Cycle units become economical, including an explanation of whether they become economical under a carbon tax scenario.
- A-53.
- a. See: <https://www.powermag.com/duke-hit-hard-by-exorbitant-om-costs-at-edwardsport-igcc-facility/>
  - b. The LCOE of IGCC units in 2022 and 2031 using NREL's 2021 ATB assumptions and the Companies' fuel price forecast for high sulfur coal are \$147.24/MWh and \$166.54/MWh, respectively. The Companies have not performed an analysis to determine when IGCC units become economical.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 54**

**Responding Witness: Stuart A. Wilson**

- Q-54. Refer to the 2021 IRP Resource Screening Analysis, Section 3.7, page 12.
- a. Explain whether Biopower is a clean energy resource, and whether it is more or less clean than natural gas units and nuclear.
  - b. Provide the LCOE of installing Biopower units in 2022 and 2031, and explain whether under a carbon tax scenario, if and when Biopower units become economical.
- A-54.
- a. According to NREL's 2021 ATB, both biopower and nuclear resources have CO<sub>2</sub> emission rates of 0 lb/MMBtu, SCCT resources have a CO<sub>2</sub> emission rate of 117 lb/MMBtu, NGCC resources have a CO<sub>2</sub> emission rate of 118.6 lb/MMBtu, and NGCC resources with CCS have a CO<sub>2</sub> emission rate of 11.9 lb/MMBtu.
  - b. The LCOE of biopower units in 2022 and 2031 using NREL's 2021 ATB assumptions are \$163.19/MWh and \$180.78/MWh, respectively. The Companies have not performed an analysis to determine when biopower units become economical.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 55**

**Responding Witness: Stuart A. Wilson**

- Q-55. Refer to the 2021 IRP Resource Screening Analysis, Section 4.1 page 16. Explain why LG&E/KU assumed 160 MW for Green Tariff Option 3.
- A-55. The Companies assume that this question refers to the 2021 IRP Long-Term Resource Planning Analysis, Section 4.1, page 16. The assumption for a 160 MW solar PPA for Green Tariff Option 3 was made when the IRP was being prepared, based on the interested parties at that time. As the IRP was being finalized, one customer decided not to participate in Green Tariff Option 3, which thereby reduced the capacity requirement to 125 MW.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 56**

**Responding Witness: Stuart A. Wilson**

- Q-56. Refer to the 2021 IRP Long-Term Resource Planning Analysis, Section 3.3, page 11. Provide support for LG&E/KU's assumption that the capital cost of constructing two or more SCCTs at an existing site would 25 percent less than constructing a single SCCT at a greenfield site.
- A-56. See attached. Certain information requested is confidential and proprietary and is being provided under seal pursuant to a petition for confidential information. The cost estimate for new generation at an existing facility was provided by a vendor as part of a response to the Companies' 2021 Request for Proposals. The Companies supplemented this response with an internal analysis to determine transmission projects that would be necessary to accommodate the generation changes at that site and to provide a comparable figure to NREL. These costs were compared against NREL's cost for new construction at a greenfield site and found to be approximately 25 percent lower.

CONFIDENTIAL INFORMATION REDACTED

Capital Cost Summary, 2x SCCT Build

[REDACTED]

Combustion Turbine Package  
Site Civil  
Mechanical  
Electrical  
Construction Staff/Equipment  
In-directs/Fee  
EPC  
Owner Cost  
Contingency (includes 10% on EPC and Owner Cost)  
Total Cost (excluding Transmission)

Transmission Projects Needed  
Source: LGE-KU Transmission Analysis

[REDACTED]

Total Transmission Costs

Total Estimated Costs for Building 2 SCCTs at Existing Site	\$309,935,429
Total Estimated Costs for Building 2 SCCTs at Existing Site, Cost per CT	\$154,967,715
NREL SCCT Cost (\$/kW)	\$885
New SCCT Capacity (MW)	234.00
NREL Cost of 1 SCCT	\$207,090,000
Existing Site 2x Cost as % of NREL Greenfield	0.75

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 57**

**Responding Witness: Christopher D. Balmer / Stuart A. Wilson**

- Q-57. Refer to the 2021 RTO Membership Analysis, Appendices A and C.
- a. Provide a more detailed explanation of the cost and benefit assumptions in Appendix A.
  - b. Explain why using the PJM incremental BRA capacity auction prices is appropriate and provide the market clearing prices used.
  - c. Identify and explain each of the PJM and MISO service categories used in the study. Include all ancillary service categories in the response.
  - d. For the PJM portion of the study, explain whether the Companies investigated both FRR and RPM status options. Include in the response the rationale and cost/benefits of choosing one or the other.
- A-57. a.
- **Capacity market** – see section 8.1 of the 2021 RTO Membership Analysis (“RTO Analysis”). For each RTO, the Companies estimated the costs and benefits of participating in each RTO’s capacity market using the methodology described in section 8.1.1 across an assumed range of clearing rates for the Companies’ existing units in the capacity markets, as shown in the following table.

**RTO Capacity Auction Clearing Rates**

	MISO			PJM		
	Low	Mid	High	Low	Mid	High
Coal	98.08%	99.35%	100.00%	80.8%	85.8%	91.2%
Gas	98.08%	99.35%	100.00%	91.7%	95.3%	97.8%
Hydro	98.08%	99.35%	100.00%	92.9%	97.2%	100.0%
Solar	98.08%	99.35%	100.00%	45.5%	86.1%	100.0%
Battery	98.08%	99.35%	100.00%	91.7%	95.3%	97.8%
Wind	98.08%	99.35%	100.00%	69.6%	95.9%	100.0%

PJM’s clearing rates reflect the historical clearing rates, expressed as the ratio of offered capacity divided by cleared capacity realized in PJM’s auctions for the planning years (“PY”) between 2016/2017 and 2022/2023 by fuel type. The low rate is the lowest rate over this period. The mid-rate is the average over this period. The high rate is the highest rate over this period. The assumed capacity price for PJM in PYs 2023/2024 through 2027/2028 is described in Section 8.1.2 of the RTO analysis. The Companies assumed that in the first PY of the study period, 2022/2023, the Companies could only participate in the incremental capacity auction rather than the base residual auction (“BRA”) due to the timing of PJM’s capacity auctions. For the 2022/2023 PY, the Companies’ \$100/MW-day BRA capacity price assumption was multiplied by a factor of 0.33, which is the average ratio of incremental auction prices to BRA prices for the PYs between 2016/2017 and 2021/2022, resulting in a capacity price of \$33.27/MW-day. For the Companies’ existing and planned intermittent resources, the Companies’ applied PJM’s equivalent load carrying capability (“ELCC”) factors of 0.38 for fixed tilt solar (Brown Solar), 0.54 for single axis tracking solar (Rhudes Creek and the new Green Tariff Option 3 solar), and 0.42 for run-of-river hydro (Ohio Falls).

MISO’s clearing rates are calculated similarly to PJM’s rates, as the lowest, average, and highest clearing rates in MISO’s Zone 6 between the 2016/2017 PY and the 2021/2022 PY. Unlike PJM, MISO does not provide this data by fuel type. MISO’s capacity price assumption is described in Section 8.1.3 of the RTO Analysis. MISO’s estimated ELCC value of 0.5 was used for single axis tracking solar. PJM’s ELCCs were used as reasonable proxies for these values in MISO for fixed tilt solar and run-of-river hydro.

- **Energy market.** For each RTO, the Companies estimated the costs and benefits of participating in each RTO’s energy market using the methodology described in section 8.2 across an assumed range of price forecasts for gas, coal, and RTO market energy. The annual average gas and coal price forecast for each scenario are shown in Tables 10 and 11

on pages 13-14 of the 2021 IRP Long-Term Resource Planning Analysis in IRP Volume III. The electricity price forecasts are depicted in Figures 10 and 11 on pages 34-35 of the RTO Analysis, the data for which are shown in the following table.

**RTO Energy Prices - Annual Average by peak type (\$/MWh)**

	2023	2024	2025	2026	2027
<b>MISO</b>					
<b>Low Prices</b>					
On-peak (5x16)	27.88	27.77	27.63	27.5	27.37
Nights (7x8)	18.63	18.51	18.48	18.36	18.27
Weekends (2x16)	23.62	23.53	23.38	23.27	23.17
<b>Mid Prices</b>					
On-peak (5x16)	33.02	32.61	32.14	31.72	31.26
Nights (7x8)	22.34	23.02	23.70	24.41	25.16
Weekends (2x16)	28.14	27.77	27.36	26.9	26.46
<b>High Prices</b>					
On-peak (5x16)	33.75	34.45	35.1	35.77	36.39
Nights (7x8)	22.61	22.95	23.45	23.9	24.3
Weekends (2x16)	28.59	29.14	29.7	30.22	30.84
<b>PJM</b>					
<b>Low Prices</b>					
On-peak (5x16)	26.84	27.12	27.36	27.59	27.84
Nights (7x8)	18.54	18.72	18.94	19.09	19.26
Weekends (2x16)	22.17	22.4	22.57	22.8	23.05
<b>Mid Prices</b>					
On-peak (5x16)	31.45	31.63	31.78	31.95	32.04
Nights (7x8)	20.48	21.42	22.38	23.39	24.48
Weekends (2x16)	25.74	25.98	26.16	26.32	26.54
<b>High Prices</b>					
On-peak (5x16)	34.52	35.51	36.43	37.39	38.31
Nights (7x8)	22.94	23.58	24.24	24.9	25.49
Weekends (2x16)	28.51	29.33	30.09	30.85	31.69

- **Transmission expansion costs**

As described in section 7.1.1 of the RTO Analysis report, the Companies used the MISO posted “Indicative Rates for Schedule 26A,” which is a



MWh charge that MISO applies to all load withdrawals within the MISO footprint to pay for the MISO developed MVP projects. This projected rate was reduced by 7% to account for the Companies' inclusion in the denominator of the rate calculation, then applied to the Companies' annual energy forecast. This was done for both the Mid and the High case. For the Low case, the Companies applied a 14.8% compounded annual growth rate to the Mid case values for the first 10 years. This was done to simulate a 400% increase in MISO transmission expansion spending of the study period.

As described in section 7.1.2 of the RTO Analysis report, the Companies estimated the PJM transmission expansion cost by using the PJM posted "tcic.xls" spreadsheet which is posted as part of their Schedule 12 process. As described in footnote 24 of the report, the Companies used the spreadsheet to estimate EKPC's annual per peak MW load projected allocation and scaled up this cost based on the Companies' projected peak versus EKPC's projected peak to estimate the PJM transmission expansion allocation over the study period. Please refer to the "LKE Calculation" tab of the "PJM tcic spreadsheet as of Feb 2021.xlsm" spreadsheet included in this response. The projected cost was reduced by 4% to account for the Companies' load added to the PJM calculations. The same value was used for both the Mid and the High case. For the Low case, the Companies assumed the same 14.8% compounded annual growth as was done in the MISO analysis.

Additional details on the transmission expansion cost calculation can be found in the RTO cost analysis spreadsheet submitted in response to Joint Intervenors 1-3 at the following file path:

\\2021RTOAnalysis\PSC DR1 Attach to Q57(a) - PJM tcic spreadsheet as of Feb 2021. Tab "MISO Details", section 2 for MISO and tab "PJM Details" section 2 for PJM.

- **Administrative charges** - see section 7.2 of the 2021 RTO Membership Analysis. For PJM, the Companies used the administrative costs for 2020 published in the PJM Market Monitor's (Monitoring Analytics LLC) 2020 State of the Market report.<sup>29</sup> These 2020 administrative costs were escalated on an annual basis by 2.5%. This is consistent with the PJM administrative costs increases from 2015 through 2020, which averaged 1.9% and ranged from 2.7% decrease to a 12.1% increase. For MISO, the Companies used the administrative costs from 2020 forecasted for 2021 by MISO in their annual revenue requirement budget.<sup>30</sup> These 2020

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<sup>29</sup> [https://www.monitoringanalytics.com/reports/PJM\\_State\\_of\\_the\\_Market/2020/2020-som-pjm-vol2.pdf](https://www.monitoringanalytics.com/reports/PJM_State_of_the_Market/2020/2020-som-pjm-vol2.pdf)

<sup>30</sup> [https://cdn.misoenergy.org/2021-2025\\_Budget443344.pdf](https://cdn.misoenergy.org/2021-2025_Budget443344.pdf)

administrative costs were escalated on an annual basis by 4.0% based on MISO’s guidance of using a growth rate ranges from 3% to 5%.

- **Depancaking**

As described in section 8.6 of the RTO Analysis report, the Companies assumed all payments to certain entities receiving benefits under the MMD would cease if the Companies joined MISO. The Companies further assumed they would cease all MMD payments with the exception of 26A if the Companies joined PJM. These eliminated depancaking costs were treated as a benefit of joining an RTO in the RTO analysis. The cost savings were estimated using the transition mechanism on file with FERC, which stipulates the transactions for each entity for which the Companies must provide depancaking benefits. For the High case, the expenses were increased by 20% to simulate an increase above projection of the MISO drive out transmission rate.

Additional details on the depancaking cost calculation can be found in the RTO cost analysis spreadsheet submitted in response to JI 1-3. The file is located at the following file path:

\\2021RTOAnalysis\RTOCostAnalysis\_2021.xlsx

See tab “MISO Details,” section 5 for MISO and tab “PJM Details,” section 8 for PJM.

- b. For PJM, the Companies assumed that in the first PY of the study period, 2022/2023, the Companies could only participate in the incremental capacity auction because the BRA for this PY has already taken place. The Companies used a capacity market clearing price of \$33.27/MW-day for the 2022/2023 PY and a price of \$100/MW-day for PYs thereafter. See the response to part (a) and Section 8.1.2 of the RTO Analysis.

**PJM Capacity Prices - (\$/MW-day)**

Delivery Year (June-May)	BRA	1st Incr	2nd Incr	3rd Incr
2016/2017	59.37	60	31	5.02
2017/2018	120	84	26.5	36.49
2018/2019	164.77	27.15	50	34.99
2019/2020	100	51.33	32.87	28.35
2020/2021	76.53	42.9	20.25	10
2021/2022	140	23	10.26	20.55
2022/2023	50	-	-	-

- c. Both MISO and PJM provide services (market and OATT administration), that are recovered through their respective administrative charges. The study considered these administrative charges to which the Companies would be subject and applied either stated forecasted or projected increases in these

charges. Likewise, the Companies could eliminate certain services that are currently provided by third parties, including the Independent Transmission Organization (“ITO”) and Reliability Coordinator (“RC”). The study also assumes the current reserve-sharing contract with TVA would no longer be needed and captures those cost savings.

One of the key assumptions of the study is that the purchase and sale of ancillary services (e.g., regulation, reactive, blackstart, operating and regulation reserves) has net zero cost / benefit because the Companies would be required to sell ancillary services from its generation into the market and at the same time purchase ancillary services for its load from the market. This assumption is outlined in Section 6 and is consistent with prior analysis provided to the Commission.

- d. The Companies focused on the RPM capacity market option for selling capacity in the near term as discussed in Section 8.1.2 of the 2021 RTO Membership Analysis. Given the Companies’ current capacity position compared to PJM’s reserve requirement, the RPM was considered to likely be a more favorable option in the near term for the Companies’ customers to realize value from joining an RTO versus the capacity-revenue-neutral FRR approach.

**LOUISVILLE GAS AND ELECTRIC COMPANY  
KENTUCKY UTILITIES COMPANY**

**Response to Commission Staff's First Request for Information  
Dated January 21, 2022**

**Case No. 2021-00393**

**Question No. 58**

**Responding Witness: David S. Sinclair**

- Q-58. Refer to the article titled "LG&E and KU Plan to Burn Coal for Another Four Decades," which represents that LG&E's Vice President of Energy Supply and Analysis stated that the forecast provided to the Commission as part of the IRP was a simple analysis that is not reflective of how the company plans to implement renewable- resources.<sup>31</sup> Identify, describe, and explain the differences between how the company actually plans to implement renewable resources and how it indicated renewable resources would be implemented in the IRP.
- A-58. The reporter's question was about the forecast of CO<sub>2</sub> emissions that was provided in response to data request MA-KFTC-MHC-3 Question No. 6(4) in Case Nos. 2020-00349 and 00350. As shown in response to Question No. 6(1) of that same data request, all retiring coal units from 2028 on were assumed to be replaced with a 1x1 NGCC. Thus, the assumptions associated with that particular forecast did not even consider future renewable resources or any other technologies. The 2021 IRP considered a broad range of technologies and demonstrates that renewable technologies are likely to be an important resource in the coming 15 years covered by the IRP.

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<sup>31</sup> Van Velzer, Ryan, "LG&E and KU Plan to Burn Coal for Another Four Decades," NPR WFPL (January 12, 2022) <https://wfpl.org/lge-and-ku-plan-to-burn-coal-for-another-four-decades/> (last accessed January 18, 2022).