



**EBA REPORT  
RESULTS FROM THE 2021 MARKET  
RISK BENCHMARKING EXERCISE**

**EBA/REP/2022/03**

**EBA**

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# Abbreviations

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<b>APR</b>	all price risk
<b>CA</b>	competent authority
<b>CDS</b>	credit default swap
<b>CO</b>	commodities
<b>CRD</b>	Capital Requirements Directive
<b>CRR</b>	Capital Requirements Regulation
<b>CS</b>	credit spread
<b>CS01</b>	credit spread value of 1 basis point changes
<b>CTP</b>	correlation trading portfolio
<b>CV</b>	coefficient of variation
<b>EBA</b>	European Banking Authority
<b>EQ</b>	equity
<b>ES</b>	expected shortfall
<b>EU</b>	European Union
<b>FRTB</b>	fundamental review of the trading book
<b>FX</b>	foreign exchange
<b>HPE</b>	hypothetical portfolio exercise
<b>HS</b>	historical simulation
<b>IMV</b>	initial market valuation
<b>IQD</b>	interquartile dispersion
<b>IR</b>	interest rates
<b>IRC</b>	incremental risk charge
<b>IT</b>	information technology
<b>ITS</b>	implementing technical standards
<b>LGD</b>	loss given default
<b>MC</b>	Monte Carlo
<b>MR</b>	market risk
<b>MRWA</b>	market-risk-weighted asset
<b>P&amp;L</b>	profit and loss
<b>PD</b>	probability of default
<b>Q&amp;A</b>	question and answer
<b>RTS</b>	regulatory technical standards
<b>RWA</b>	risk-weighted asset
<b>sVaR</b>	stressed value at risk
<b>VaR</b>	value at risk



# 1. Executive summary

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1. This report presents the results of the 2021 supervisory benchmarking exercise pursuant to Article 78 of the Capital Requirements Directive (CRD) and the related regulatory and implementing technical standards (RTS and ITS) that define the scope, procedures and portfolios for benchmarking internal models for market risk (MR).
2. The report summarises the conclusions drawn from a hypothetical portfolio exercise (HPE) conducted by the EBA during 2020/21. The primary objective of the exercise is to assess the level of variability observed in risk-weighted assets (RWA) for market risk produced by banks' internal models.
3. The exercise was performed on a sample of 40 European banks from 13 jurisdictions. The relevant institutions submitted data for 73 instruments recombined into 59 market portfolios across all major asset classes, i.e. equity (EQ), interest rates (IR), foreign exchange (FX), commodities (CO) and credit spreads (CS), as well as two correlation trading instruments recombined into four portfolios (CTPs), for a total of 63 benchmark portfolios. Thus, the exercise covers the entire population of EU banks with internal models for MR at the highest level of consolidation.
4. The analytical part of the exercise delivered by the EBA, as summarised in this report, provided to the competent authorities (CAs) a list of outliers to be examined in detail. The banks with the most significant number of outliers were also considered for interviews to discuss the assumptions behind banks' models that produced the outliers. In the 2021 exercise, two interviews with banks were carried out by CAs. The interviews helped CAs to better understand the nature of the deviations highlighted to banks, and to provide to the EBA good additional insight into the exercise from the submitters' standpoint. The issues detected in the benchmarking exercise were considered and addressed, where possible, by banks and CAs. Moreover, CAs and the EBA collected feedback on how to improve forthcoming benchmarking exercises.
5. Finally, taking into consideration the results of the benchmarking exercise, CAs were asked to provide the EBA with responses to a questionnaire on the actions they plan to take with regard to each participating bank's internal model.

## 1.1 Main findings of the benchmarking analysis

6. The report measures variability in terms of the interquartile dispersion (IQD)<sup>1</sup> and the coefficient of variation (CV)<sup>2</sup> observed within each benchmark portfolio. The IQD is more robust than the CV when the sample is drawn from an unknown, fat-tailed distribution. As far as the market-risk-weighted asset (MRWA) variability is concerned, the IQD metric suggests a level of dispersion for all the risk measures provided by banks that need to be monitored.
7. The primary considerations are that the 2021 results show a reduction in the dispersion of the initial market valuation (IMV) versus the 2020 exercises with regard to the FX and CO asset classes; see, for instance, Table 1. This improvement was expected and reflects the clarifications provided in the 2020 exercise. EQ and CS remained fairly stable versus the 2020 dispersion, as they were also fairly low in the second exercise. Nonetheless, the IR average IQD is high (19%). This is very different from what was observed in the previous two exercises. The reason for this is that three IR instruments (19, 36 and 37) present an IMV that is fairly low and close to zero. This has the unwelcome effect of exacerbating even minor differences in the IMV submission in absolute terms, which translate into a very high percentage difference captured by the IQD metrics. Aside from the high IQD for these three instruments, there is no evidence of a significant misunderstanding of these instruments' features. Excluding them, the average IQD of the IR asset class is 1%, which is in line with the submissions for the previous exercises.
8. Based on this submission of IMVs, we can conclude that the quality of the data has improved. Nonetheless, the quality of the data is of paramount importance for this exercise. Some types of errors persist and are sometimes trivial, such as the wrong unit being reported. In order to increase data quality, the EBA notes that several rounds of iteration with submitters will be required, which can be difficult within the short time frame of the exercise. Improving the specification of the details for the instruments is also a possibility that the EBA is exploring. In general, the valuation used therefore is robust, albeit with significant effort needed to be expanded on data quality.
9. The majority of the significant dispersions have been examined and justified by the banks and CAs. A minority of the outlier observations remain unexplained and are expected to be part of the ongoing activities of supervisors, who are expected to monitor and investigate the situation (see Section 1.2 and Chapter 6 of this report).
10. From a risk factor perspective, equity, interest rate and CO portfolios exhibit a lower level of dispersion than the FX and credit spread asset classes. Except for IMV, in general, variability is substantially higher than in the previous exercise. This is likely to be due to a substantial increase

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<sup>1</sup> IQD is defined as the absolute value of the ratio of the interquartile range (Q3 – Q1) divided by the sum of the quartiles (Q3 + Q1). The higher the IQD is, the higher the dispersion in the data.

<sup>2</sup> CV is computed as the ratio of the standard deviation to the mean.

in market volatility, which impacted the level of the risk measures, increasing the dispersion (see Table 4: Interquartile dispersion for IMV and risk metrics by risk factor, and also Annex 2).

11. Regarding the single risk measures, across all asset classes except for CS the overall variability for value at risk (VaR) is lower than the observed variability for stressed VaR (sVaR) (27% and 31% respectively, compared with 18% and 29% in 2020).<sup>3</sup> More complex measures such as the incremental risk charge (IRC) show a higher level of dispersion (43% compared with 49% in 2020). We would point out that a direct comparison of the IQD dispersion between 2020 and 2021 IQDs is still possible because the structures of the two exercises and the instruments of which they were composed are the same.
  
12. As for the past exercise, to deepen the analysis of VaR and further investigate the variability drivers, different VaR metrics were computed and compared with the banks' reported VaR, in particular:
  - an alternative estimation of VaR, called profit and loss (P&L) VaR, computed by the EBA using the 1-year daily P&L series submitted by banks using a historical simulation (HS) approach; and
  - a comparable VaR, called HS VaR, which corresponds to the regulatory VaR reported by those banks that use an HS approach (only).
  
13. When comparing the variability between the regulatory VaR and these 'alternative' risk measures, a decrease in the IQD when considering a more homogeneous sample is confirmed (i.e. HS banks only). In fact, for all the risk types, the dispersion observed for the P&L VaR tends to be lower but is still not negligible. This finding suggests that the modelling approach is not the only driver of the observed VaR variability. Other drivers, such as risks not captured in the model or the choice of absolute versus relative returns, offer further explanations for the results' variability (see Table 4: Interquartile dispersion for IMV and risk metrics by risk factor).
  
14. Even so, within the subset of banks using an HS approach, modelling choices (see Table 6: Coefficient of variation for regulatory VaR (controlling for HS) by modelling choice) seem to make a noticeable difference. 1-day VaR and the use of a lookback period of one year tend to produce lower dispersion than the longer lookback period. Other modelling configurations produce mixed results depending on the different asset classes. In terms of conservativeness, the calibration of 1-day and one-year lookback seems to produce more conservative results, at least for EQ, FX and CS (see Table 7: Average regulatory VaR by modelling choice). These observations differ from the findings of the 2020 exercise, which were run across different portfolios. Overall, it is clear that this analysis is extremely sensitive to the different portfolios used to produce the statistic and to the low number of subjects available, so it is difficult to

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<sup>3</sup> These values are derived as a simple average of the IQD across all non-correlation trading portfolios.

generalise the results and define a general 'less dispersed' and 'more conservative' configuration of modelling choices.

15. As mentioned above, the dispersion in sVaR figures is generally higher than the dispersion observed for regulatory VaR (see Table 21 and Table 22). The stressed period used was the one applied by the bank for capital purposes, so it was not harmonised in the sample. Different choices for the stressed period are permitted by the Capital Requirements Regulation (CRR), and these choices are considered and questioned as part of the regulatory approval process. While allowing banks to use their own individual stress periods reduces the comparability of the sVaR results across the sample, doing so facilitates the estimation of implied capital needs from the HPE. Nonetheless, banks in the exercise are asked to report the stressed period applied. As a result, the EBA drew up a subset of homogeneous time windows applied, and ran the benchmark for this subsample. It appears clear that when a homogeneous stress window is applied, the sVaR figures tend to be less dispersed (see Table 41: Stress VaR statistics (2008-2009 stress period only)).
16. In addition to carrying out these analyses, the EBA conducted a comparison across banks of the ratio between sVaR and VaR for each of the hypothetical portfolios included in the benchmarking exercise (see Table 5: sVaR–VaR ratio by range (number of banks as a percentage of the total)). The ratio generally varies significantly between the portfolios, especially for instruments subject to credit spread risk (from 0.25 to 13.35). However, on average the ratio comes in at around 1.48 (see Table 25: sVaR/VaR statistics), which is half the value reported for the 2020 exercise. This decrease is due to the substantial increase in VaR figures from the 2020 to 2021 exercise, as shown in Annex 2 of this report.
17. As expected, for the larger banks with significant trading activities the benchmarking portfolios are generally relevant to their actual trading book. For smaller banks, this is less the case, and this is why the EBA included simpler and more plain vanilla instruments starting from the 2019 exercise. The challenge remains to design a benchmarking exercise that can fit banks that have a specialised business model. Overall, the portfolios are, however, reflective of the risk factors experienced by most banks. In the 2021 exercise, the EBA noticed a substantial increase in the VaR dispersion, which is in many cases above the 20% IQD, especially for the CS asset class (see Table 21: VaR statistics). This substantial increase in the VaR dispersion is further analysed in Annex 2 of this report, where the VaR figures for the 2021 and 2020 exercises are compared. The aggregate portfolios also feature notably low levels of IQDs.
18. Regarding the IRC, the average variability (as measured by the average IQD for this category of portfolios) is higher than that observed for all other metrics considered in the report (43%). This high variability is slightly lower than in the previous exercise – the IQD was 49% on average in the 2020 exercise (see Table 13: IRC statistics and cluster analysis). The understanding of the IRC dispersion was further analysed by disaggregating various modelling choices (see Table 14, Table 43, Table 44, Table 45 and Table 46). While the number of risk factors applied does not seem to make a difference in terms of dispersions, applying market conventions to the source of LGD



seems to reduce the dispersion of the IRC. These results are not consistent with what was observed in the previous exercises.

19. Regarding the APR, the statistics for this risk measure are no longer reported, because after Brexit the number of the reporting entities for this metric is no longer sufficient to guarantee the anonymity of the statistics computed (see Table 15: APR statistics and cluster analysis).
20. An additional metric considered as part of the analysis was the diversification benefits observed for VaR, sVaR and IRC in the aggregated portfolios (see Table 16: Diversification benefit statistics). As expected, there is evidence that larger aggregated portfolios exhibited greater diversification benefits than smaller ones. In general, the level of dispersion observed in diversification benefits tends to be lower than that in the corresponding metrics at the level of the individual portfolios.
21. As in the previous exercise, an assessment was also carried out on the variability of the empirical estimates of the expected shortfall (ES) at a 97.5% confidence level. The results indicate that the dispersion in this metric across risk factors is similar to that found for VaR and P&L VaR (see Table 24).

#### Dispersion in the capital outcome

22. Alongside the variability analysis, the EBA also conducted the usual assessment regarding possible underestimations of capital requirements (see Table 17: Interquartile dispersion for capital proxy). As the analysis is based on hypothetical portfolios and the capital requirements were defined using a proxy, the results should be interpreted as approximations of potential capital underestimations. The proxy for the implied capital requirements was defined as the sum of VaR and sVaR across all portfolios. For purposes of comparison, the proxy was computed three times. In one case, the VaR and sVaR figures were multiplied by the banks' total multiplication factor and, in the other, by the regulatory minimum of three only, i.e. ignoring the banks' individual addend(s) set by the CAs. Finally, a subset of banks applying the same stress period was also considered for capital dispersion. This metric enables a comparison of banks and an assessment of their variability in this regard.
23. The average variability across the sample as measured by the IQD is significant (around 24%), especially for the most complex portfolios in the credit spread asset class. This dispersion slightly decreases when considering a more homogenous capital proxy (22% applying three as the multiplier, and 20% for banks with the same stress period). Moreover, an analysis of the capital proxy pattern across the HPE's trades suggests that the ranges of capital value dispersion are broadly consistent, irrespective of whether the banks' actual multiplication factors are used or not.

#### Additional analysis carried out

24. As introduced in the previous exercises, the EBA extended the analysis to other drivers of variation (see Section 5.2.5), such as the size of the bank, the business model of the bank, the

level of approval granted by the CAs and the already mentioned stressed period applied in the sVaR calibration. The size and business model analyses were further analysed as in the 2020 report.

25. In a nutshell, based on this additional analysis we can conclude that the size (in terms of RWA for market risk) of the bank has an impact on the figures, since medium-sized banks tend to produce slightly more dispersed results than larger banks (see Table 8: Asset class comparison for VaR in terms of size of the banks). Smaller banks' statistics are affected by the low number of submissions, i.e. CO and CS are not even reported. Consistently, when considering the size in terms of the trading book (as a ratio of total assets), the bigger a bank is in terms of its trading book, the (slightly) smaller the dispersion (on average).
26. The discrimination based upon the business model did not deliver strong conclusions. As in past exercises, the EBA applied the internal classification of banks as a discriminant, under which many of them are classified as cross-border universal banks (see Table 9: Asset class comparison for VaR within the same business model (cross-border universal bank)). Applying this definition of the business model, a smaller decrease in the IQD was identified due to a more homogenous sample. The business model analysis was further extended by considering the 'Level 3' assets and liabilities in the bank's books as a proxy for a more sophisticated business model linked to more exotic products (see Table 34, Table 35 and Table 36). This further specification did not prove conclusive since it reveals, first, an increase, and then a decrease of dispersion depending on the 'Level 3' assets and liabilities ratio in the bank's trading book.
27. The subsample analysis based upon the level of approval delivered interesting results. A priori, it was expected that having banks with different levels of approval would have increased the dispersion of the results of the risk measures. In line with this assumption, the IQD results seem to fluctuate among the subsamples of different approval levels. This is because more homogeneous subsamples tend to produce smaller dispersions, but this positive effect is counterbalanced by the smaller number of firms in the sample. Basically, the benchmark provided and the 25th and 75th quantiles of the distribution tend to be less dispersed with respect to the whole set of banks. This implies that the different level of approval does indeed have an impact on the dispersion of the benchmarking results, with the more 'complete' (general plus specific approval) model delivering less dispersed results (see Table 10: Asset class comparison for VaR in terms of the level of approval).
28. Finally, as already mentioned above, and in line with previous findings, sVaR figures are far less dispersed when the benchmark is computed for a homogeneous subsample of firms that applied a similar time period for the stress window used for calibrating the sVaR (see Table 11: Asset class comparison for sVaR in terms of time window applied).
29. As introduced in the 2020 Report, PV statistics are reported (see Table 42). The PVs reported generally have low IQDs, and they were useful in distinguishing true outliers and outliers due to mispricing of the portfolios. Since PVs are computed at the portfolio level, this helped to compare risk measures (VaR) for 2020 to 2021, as detailed in Annex 2 of this report.

## 1.2 CAs' assessments based on supervisory benchmarks

30. CAs shared the outcomes of their assessments at the bank level with the EBA (see Figure 16: CAs' own assessments of the levels of MR own funds requirements). The CAs' assessments confirmed the existence of some areas that require follow-up actions on the part of specific institutions whose internal models were flagged as outliers in this benchmarking exercise.
31. Overall, CAs' assessment of the over- and underestimation of RWA was encouraging in the sense that CAs were aware of and able to explain the causes of most deviations. Although the majority of the issues were identified and actions put in place in order to reduce the unwanted variability of the RWA, the effectiveness of these actions can be evaluated only by CAs via constant monitoring of the benchmarking results.
32. The CAs are expected to pay close attention to the minority of cases in which the over- and underestimations were unexplained, to closely monitor these institutions and to put in place additional efforts to reduce these cognitional gaps in future exercises.

## 1.3 2022 exercise – expected changes

33. The 2019 exercise represented a significant change from the 2016-2018 exercises in terms of the simplification of the portfolios. This simplification had a positive effect in obtaining less dispersed results than with the previous portfolios. Furthermore, it improved the significant data quality issues relating to some portfolios while focusing on the model risk elements.
34. In the 2020 exercise, the data submitted further improved in quality thanks to the clarification of the legal text description of some instruments, and also to the further practice that the banks have gained in conducting the present exercise. This had a positive effect in terms of dispersion in the data provided. Improvements in terms of less dispersed results have also stemmed from the change in the methodology to detect outliers for the risk measures.
35. In the 2021 exercise, the data quality of the submissions was acceptable. That said, the variabilities of the risk measures (VaR, PL VaR and ES) were substantially higher than in the previous year. This seems to be linked to the increased volatility of the markets in 2021 due to the Covid outbreak, as captured by the market model, which generally provided higher figures for the risk measures. These higher figures, in absolute terms, seem to exacerbate the differences in modelling outputs, producing higher IQD metrics. As a result, this higher dispersion does not seem to be the outcome of a decrease in the quality of the market model.
36. For the 2022 exercise, the set of instruments is mainly similar to the previous exercise, so the EBA expects at least a similar level in terms of the data quality of the submissions.
37. The analysis the EBA will run for the 2022 exercise will be the first in which banks are expected to report sensitivities and other figures relating to the sensitivities-based method of the alternative standardised approach (ASA) introduced with the FRTB. This new data submission is expected to result in some cost to banks and competent authorities in terms of the effort

involved in providing and analysing it. Also, the initial submissions tend to be of lower quality and then improve with time. Nonetheless, there is an expectation that additional interesting insights can be provided to competent authorities from the analysis of these additional data.

38. On a medium-term horizon, the EBA will consider reshaping the instruments and the portfolios in the exercise in a way that still keeps the instruments simple to ensure clarity regarding the instruments. This is because the different interpretations of the instruments have been a significant source of variability. Nonetheless, further enrichment of the variety of the instruments monitored could be beneficial. The aim would also be to recombine these instruments in such a way that the different portfolios have meaningful designs when compared with each other. In addition, and very importantly, the fundamental review of the trading book (FRTB) is understood to be of particular significance for the market risk benchmarking exercise. In the future, the exercise will require a major redesign to take into consideration the specific features of the FRTB.



## 2. Introduction and legal background

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39. European legislators have acknowledged the need to ensure consistency in the calculation of RWA for equivalent portfolios, and the CRR and CRD include a number of mandates for the EBA to deliver technical standards, guidelines and reports with the aim of reducing uncertainty and differences in the calculation of capital requirements.
40. In this regard, Article 78 of the CRD requires the EBA to produce a benchmarking study on both credit and market risk to assist CAs in the assessment of internal models. The study should highlight potential divergences among banks or areas in which internal approaches might have the potential to underestimate their own funds requirements that are not attributable to differences in the underlying risk profiles. CAs are required to share this evidence within colleges of supervisors as appropriate and take appropriate corrective actions to overcome these drawbacks when deemed necessary. Directive (EU) 2019/878<sup>4</sup> of the European Parliament and of the Council of 20 May 2019 amending Capital Requirements Directive IV (CRD V) has not changed this mandate.
41. The EBA has devoted significant effort to the analysis of the consistency of outcomes in RWA, to understand the causes of possible inconsistencies and to inform the regulatory repair process. The EBA's ongoing work on benchmarking, supervisory consistency and transparency is fundamental to restoring trust in internal models and the ways in which banks calculate asset risks.
42. The use of internal models gives banks the opportunity to model their risks according to their business models and the risks faced by the bank itself. The introduction of a benchmarking exercise does not change this objective; rather, it helps to identify the non-risk-based variability drivers observed across institutions.
43. This MR benchmarking exercise is an MRWA variability assessment performed over a large sample of banks (40 banks at the highest level of consolidation across 13 jurisdictions within the EU). The banks participating in this exercise are those that have been granted permission to calculate their own funds requirements using internal models for one or more of the following risk categories:
- a) general risk of equity instruments;
  - b) specific risk of equity instruments;

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<sup>4</sup> <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32019L0878&from=EN>

- c) general risk of debt instruments;
- d) specific risk of debt instruments;
- e) foreign exchange risk;
- f) commodities risk; and
- g) correlation trading.

44. Pursuant to Article 362 of the CRR, the general risk of debt instruments should refer to interest rate risk. Similarly, the general risk of equity instruments refers to the change in the value of indices.

45. Banks that have approval only for the general risk of equity or debt instruments (in accordance with Article 363 of the CRR) may use a different definition of general risk (e.g. by including credit spread risk in the interest rate general risk) if they are able to demonstrate that this leads to higher RWA. Separate permission is required for each risk category. Many banks do not have permission for internal models for all risk categories, so the number of contributions for each hypothetical portfolio in this exercise varies across the sample.

46. Banks that have permission to use the internal model for calculating MR own funds requirements for one or more – but not all – of the risk categories in accordance with Article 363(1) of the CRR ('partial use') exclude certain risks or positions from the scope of the internal model approval. In this case, the own funds requirements for the risk categories outside the scope of the internal model are calculated according to the standardised approach.

47. In addition, as set out in Article 369(1)(c) of the CRR, banks should conduct validation exercises on hypothetical portfolios to test that the model is able to account for particular structural features. These portfolios should not be limited to the portfolios defined in this exercise; however, this exercise is a useful starting point for banks to meet this legislative requirement.

48. The assessed MR results, when provided and where applicable, are VaR, sVaR, IRC and APR figures for specific and aggregated trades. Moreover, a preliminary assessment of IMV was performed, primarily to ensure that the participating banks make uniform assumptions when entering the hypothetical trades.

49. In addition to these submissions, banks using an HS approach for VaR were requested to provide one year of P&L data for each of the individual and aggregated portfolios modelled. The objective of collecting this additional information was to employ the data vector to perform alternative calculations for VaR using, where possible, a consistent 1-year lookback period and controlling, as far as possible, for the different options that banks can apply within regulation.

50. Regulation (EU) 2019/876<sup>5</sup> of the European Parliament and of the Council of 20 May 2019 amending the Capital Requirements Regulation as regards the leverage ratio, the net stable funding ratio, requirements for own funds and eligible liabilities, counterparty credit risk, market risk, exposures to central counterparties, exposures to collective investment undertakings, large exposures, reporting and disclosure requirements (CRR II) will have a significant impact on the market risk benchmarking exercise once it is fully implemented. However, for the time being the CRR framework will be applied for the purpose of the benchmark exercise in accordance with Article 78 of the CRD.

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<sup>5</sup> <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32019R0876&from=EN>

## 3. Main features of the 2020 market risk benchmarking exercise

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51. Based on the EBA benchmarking ITS, the MR benchmarking exercise is carried out by following three main steps. First, the EBA defines the hypothetical instruments and portfolios, which are the same for all banks, in order to achieve a homogeneous and comparable outcome across the sample. Second, banks are asked to submit the data accordingly. Third, and finally, the EBA processes and analyses the data, providing feedback to CAs. During the process, the EBA supports CAs' work by providing benchmarking tools to assess banks' results and detect anomalies in their submissions.

### 3.1 Definition of the market risk hypothetical portfolios

52. The MR portfolios have been defined as hypothetical portfolios composed of both non-CTPs and CTPs, as set out in Annex V of the benchmarking ITS. The exercise includes 73 instruments recombined into 59 general portfolios (53 individual and 6 aggregated), capitalised under the VaR, sVaR and IRC models, comprising mainly plain vanilla and some complex financial products in all major asset classes: EQ (18 instruments and 10 individual portfolios), IR (19 instruments and 16 individual portfolios), FX (10 instruments and six individual portfolios), CO (four instruments and three individual portfolios) and CS (22 instruments and 18 individual portfolios). The EBA also designed aggregated portfolios, obtained by combining individual ones, to take into account diversification effects. Each aggregated portfolio has a particular composition: the first (portfolio 57) encompasses all asset classes; the second (portfolio 58) is made up of only EQ portfolios; the third (portfolio 59) is made up of only IR portfolios; the fourth (portfolio 60) is made up of only FX portfolios; the fifth (portfolio 61) is made up of only CO portfolios; and the sixth (portfolio 62) is made up of only CS portfolios.

53. In addition, the set of portfolios includes two instruments and four portfolios (three individual and one aggregated) used for correlation trading activities, capitalised under the VaR, sVaR and APR models. These portfolios contain positions in index tranches referencing the iTraxx Europe index on-the-run series. The portfolios are constructed by hedging each index tranche with the iTraxx Europe index on-the-run 5-year series to achieve a zero credit spread value of 1 basis point (CS01) as at the initial valuation date (spread hedged). No further re-hedging is required.



54. A more detailed explanation of the portfolios can be found in the benchmarking ITS on the EBA website.<sup>6</sup>

## 3.2 Data collection process

55. The data for the supervisory benchmarking exercise were submitted by banks to their respective CAs using the supervisory reporting infrastructure. Banks submitted the specified templates provided in the ITS, where applicable.

### 3.2.1 IMV

56. The reference date for IMV was 24 September 2020, 5.30 p.m. CET. Banks entered all positions on 17 September 2020 ('reset or booking date'), and, once positions had been entered, each instrument aged for the duration of the exercise. Furthermore, banks did not take any action to manage the instruments in any way during the entire exercise period.

57. The IMV figure to be reported by the banks for each hypothetical instrument was defined as the mark to market of the instrument on the booking date plus the profit and loss from the booking until the valuation date and time. Therefore, it was the mark to market of the instrument on 24 September 2020, 5:30 p.m. CET.

### 3.2.2 Risk measures

58. Pursuant to the common instructions provided, banks were required to calculate the risks of the positions without taking into account the funding costs associated with the portfolios (i.e. no assumptions were admitted with regard to the means of funding the portfolios). Moreover, banks were required to exclude, as far as possible, counterparty credit risk when valuing the risks of the portfolios.

59. Banks were required to calculate the regulatory 10-day 99% VaR on a daily basis. sVaR and IRC could be calculated on a weekly basis. In such cases, sVaR and IRC had to be based on end-of-day prices for each Friday in the time window of the exercise. For the four CTPs (54-56 and 63), APR was also requested.

60. For each portfolio, banks were asked to provide results in the base currency, as indicated in Annex V of the benchmarking ITS. The choice of base currency for each trade was made to avoid polluting results with cross-dependencies on risk factors.

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<sup>6</sup> <https://eba.europa.eu/regulation-and-policy/supervisory-benchmarking-exercises/its-package-for-2020-benchmarking-exercise>. Please also refer to Commission Implementing Regulation EU 2016/2070 of 14 September 2016 and Commission Implementing Regulation 2019/439 of 15 February 2019, laying down ITS in accordance with Article 78(2) of Directive 2013/36/EU (<https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1562830373986&uri=CELEX:32019R0439>).

61. All collected data underwent a preliminary analysis to spot possible misinterpretations of the common instructions set out in the ITS/RTS on benchmarking and outliers, as defined hereafter.

### 3.3 Participating banks

62. A total of 40 banks representing 13 EU countries participated in the exercise (see Table 18 in the annex). All EU banks with MR internal models approved by CAs were asked to submit data at all levels where own funds requirements are calculated. The EBA collected the results only at the highest level of consolidation.

63. CAs are in charge of conducting similar benchmarking investigations for results at a 'solo' level within their own jurisdictions for eligible banks.

### 3.4 Data quality issues

64. The data collection process aims to ensure the reliability and validity of the data obtained. In this regard, it is obvious that an unwanted driver of variability (which would pollute the results) could be misunderstandings vis-à-vis the portfolios and the specific instruments included in them.

65. IMV results reached the EBA in November/December 2020, after which the EBA carried out a preliminary IMV analysis and provided CAs with a tool to help them spot likely anomalies or misunderstandings regarding the interpretation of each portfolio. This was done to enhance the quality of all risk measures so that they would be provided in accordance with a correct interpretation of the portfolios. This step was conducted before the computation of the risk measures by the banks. Where the price of an instrument fell outside a certain range,<sup>7</sup> more investigation had to be undertaken by the CA, which could – if necessary – ask the banks in its jurisdiction for a repricing and subsequent resubmission. The same process was carried out for the risk measure submission.

66. The issue experienced in the previous exercises linked to the aggregated portfolio figures no longer seems to be a major issue. It is worth noting that some banks reported the IMVs and risk measures for the aggregated portfolios without including all the relevant components.<sup>8</sup> The reason was that the 2018 (and previous) ITS required banks to report the value of aggregated portfolios even if not all individual portfolios are modelled for the benchmarking exercise. As a result, the submissions were not comparable with those valued in full. This issue was addressed in the 2019 exercise, and since then banks have reported the results for the aggregated

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<sup>7</sup> The range means the interval between the first and third quartiles. These quartiles were considered and subsequently updated when resubmissions were received.

<sup>8</sup> Some banks reported values for aggregated portfolios, taking into account only those components for which they had permission to use an internal model. This is clearly not a data quality issue and it is correct that banks report results only where they have permission to do so for regulatory purposes.

portfolios only if the results of all components have been submitted.<sup>9</sup> The structure of the 2019-2020 exercise, i.e. a plurality of instruments that are recombined into a plurality of individual portfolios, which are themselves the components of the aggregated portfolios, produced a similar error, i.e. the absence of some instrument components within some of the individual portfolios. Nonetheless, banks should not provide any (aggregated or individual) portfolios where any instrument is missing in order not to distort the risk measures analysis. This specification was further clarified in the ITS 2022, so the possibility that some individual portfolios could have been submitted even when some specific instruments were missing cannot be ruled out. On the other hand, the data submission seems compatible with the correct interpretation of the rule, at least for the majority of submitters.

67. In the data analysis, it was clear that minor errors in the interpretation of some instructions and instruments were present, even though the instruments were simplified from the previous exercises and some of the general instructions remain fairly stable. A complete list of the errors in the submitted data is beyond the scope of this report, but the most common and easily avoided mistakes worth mentioning are as follows:

- Equity asset class: use of the wrong notional in the future positions. Luckily, the errors generated were easy to detect and fix by resubmission. The instruction in the 2021 ITS was amended such that this error will no longer present an issue for this exercise.
- Interest rates: good results were obtained, especially where the international securities identification number was available. Minor errors were identified, such as wrong bookings (i.e. long position instead of short, or vice versa). But this was detected in a minority of the submissions. For instruments with very low IMVs, and therefore high IQD (instruments 19, 36 and 37), submission issues were more difficult to detect.
- FX: the same problems are still present for instrument 39. Instrument 39 has been wrongly booked in some cases (i.e. short position instead of long). Instrument 40 was quite problematic in the past, since banks reported the P&L or zero instead of the mark to market of the position. The instructions of the 2021 ITS were amended with the result that this error has almost disappeared in this exercise.
- Credit spread: very good results in terms of CV and IQD, with very sporadic mistakes entailing possible wrong bookings, and no long position instead of a short, or vice versa.
- P&L submission: it has been noted that a few banks still reported the P&L even though they were not required to do so. Only banks with historical simulation models have to report the P&L vectors in order to produce a consistent analysis of the risk measures. Moreover, the P&L series

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<sup>9</sup> Annex 5, Market risk 2021 BM, Section 1 (Common instructions), letter (ee)

sometimes did not respect the parameters requested in the ITS (e.g. excessively short time series, wrong dates), so again these vectors have to be dropped in the analysis.

68. Although these mistakes were detected thanks to the EBA data analysis and corrected by resubmission/cleansing of the data from the banks, unnoticed errors in data submissions could still be present in the dataset analysed, and this can potentially drive and pollute the results.
69. Data quality for the 2021 exercise has been fairly good. Ensuring data quality is a fundamental step for the benchmarking exercise. However, reporting errors might still occur in future exercises, and the process will allow both regulators and participating banks to learn from it.

## 4. Market risk benchmarking framework

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70. The benchmarking exercise aims to assess the variability in banks' MR models and to identify the drivers that account for it. Variability in banks' models can come from three types of drivers.
71. First, variability can stem from banks' modelling choices that are explicitly envisaged in the regulation. For example, when modelling VaR institutions can choose to use a lookback period longer than the minimum (i.e. the previous year), use a weighting scheme for the data series, calculate the 10-day VaR directly or, alternatively, obtain a 1-day VaR and rescale it using the square root of time approximation. Likewise, when modelling IRC, banks can choose from several sources of the probability of default (PD) and have a certain degree of freedom when choosing the transition matrices applied, or when deciding on the liquidity horizon applied to a particular instrument. It should be highlighted that all of these possibilities are, in principle, acceptable under the current regulatory framework (the CRR), provided that they have been agreed on with the CA during the approval process. Therefore, given the wide range of approaches that each institution using internal models can choose to implement, some degree of variability is expected.
72. Second, there are other modelling choices that are not explicitly envisaged in the regulations, which may cause variability. Examples include differences in simulation engines; differences in pricing model assumptions; the modelling of returns, volatility, correlations and other indirect parameter estimates; additional risk factors considered in the models; different approaches to P&L computation and attribution; and a stochastic framework for the simulated shocks.
73. Finally, another source of potential variability originates from supervisory practices. In particular, the use of regulatory add-ons in the form of both VaR and sVaR multipliers and additional capital charges (e.g. to encompass risk not in VaR issues, any information technology (IT) and organisational weaknesses, independent pricing valuations or detected flaws) and, quite significantly, the application of limits to the diversification benefits applied by banks (i.e. not allowing a single calculation at consolidated level and, instead, requesting an aggregation of the capital results at sub-consolidated and/or subsidiary levels) are likely to increase the observed variability in capital. In most cases, these supervisory actions have been established to address known flaws or model limitations, or to add an additional layer of prudence. Therefore, they typically result in higher capital requirements than would otherwise be the case. However, they can also increase the variation in market own funds requirements between banks, particularly across jurisdictions. Although the effects on capital levels of these supervisory actions can be substantial, a benchmarking portfolio exercise is not suitable for assessing some of these supervisory actions. In particular, any constraints on diversification benefits and direct capital add-ons cannot be properly assessed, since these effects are entirely portfolio-dependent. To assess these effects, it would be necessary to use a much more realistic (hypothetical) portfolio,

comprising thousands of instruments and including partial model approval. Nevertheless, some supervisory actions can be assessed and the effects of regulatory add-ons on the VaR and sVaR multipliers will be analysed as part of this assessment.

74. Possible additional drivers of variation include:

- misunderstandings regarding the positions or risk factors involved that could not be resolved during the preliminary assessment (see Section 3.2);
- non-uniform market conventions and practices adopted in the hypothetical portfolio booking;
- incompletely implemented models (e.g. because a pricing module is being tested, or an additional risk factor is being taken into consideration);
- missing risk factors not incorporated into the model;
- differences in calibration or data series used in the modelling simulation;
- additional risk factors incorporated into the model;
- alternative model assumptions applied; and
- differences attributable to the methodology used (i.e. Monte Carlo (MC) versus HS or parametric).

## 4.1 Outlier analysis

75. After the data quality assurance process, the EBA performed an ‘extreme value’ analysis with the aim of excluding from the computation of the benchmarks those values for which the IMV and risk measures (RMs: VaR, sVaR, P&L VaR and ES) were found to lie outside a certain tolerance range due to misinterpretation of the trade or mistyping of bookings by the banks.

76. The presence of clear outliers in the data used to assess variability is deemed inappropriate, since these data points are likely to weigh heavily on the results, distorting the actual level of variability observed.

77. Extreme IMVs and RMs are defined as values outside the range of two truncated standard deviations<sup>10</sup> from the median. Since some results exhibited empirical distributions that had fatter tails than expected, outliers were defined as values differing by twice the truncated standard deviation or more from the median.

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<sup>10</sup> The truncated standard deviation is computed by excluding the values below the 5th and above the 95th percentile of the data series.

78. If a bank's IMV or RM are found to be an extreme value for a particular instrument, then this observation is removed from the computation of the final benchmark statistics. The empirical evidence indicates that excluding the RMs based solely on IMV submissions, as in the previous exercise, implied that some extreme RM submissions are wrongly reflected in the benchmarking computation, while some good observations are removed. Changing this methodology did not influence the benchmarking data point, i.e. the median result. In addition, the overall dispersion of the portfolio was only marginally affected (slightly improved). The significant enhancement is in the communication to the CAs of the significant outliers to be examined with the bank. This approach, which was first adopted for the 2020 market risk benchmarking exercise, increased the overall quality of the benchmark data, providing more consistency for the benchmarks of these metrics.

79. The dispersion across the contributions is summarised by the IQD coefficient, which is more robust than the coefficient of variation (CV) for data derived from fat-tailed distributions. The higher the IQD, the more dispersed the data. IQD is defined as:

$$IQD = abs[(Q_{75th} - Q_{25th}) / (Q_{75th} + Q_{25th})],$$

where  $Q_{75th}$  and  $Q_{25th}$  denote the 75th and 25th percentiles, respectively.

80. Another metric used in the variability studies is the CV, which is defined as the ratio between the standard deviation<sup>11</sup> and the mean (in absolute values):

$$CV = abs[StD / Mean].$$

81. The analysis reports both metrics because they jointly allow detection of the highest peaks of variability.

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<sup>11</sup> The standard deviation was considered in order to gain a sense of the entire variability and a harmonised approach across the HPE. Obviously, a truncated standard deviation may appear more consistent for some highly dispersed trades.



Table 1: IMV statistics and extreme values

EU Statistics for IMV by instrument

Instr. ID	Main statistics								Percentiles			IQD	
	Min	Max	Ave.	STDev	STDev_trunc <sup>1</sup>	MAD (median absolute deviation)	Coefficient of variation (STDev/Mean)	Num obs. <sup>2</sup>	25th	50th	75th		
Equity	1	3,068,492	3,107,000	3,085,484	7,305	12,737	359	0%	29	3,083,859	3,084,000	3,085,118	0%
	2	545,825	545,100	544,216	335	782	0	0%	29	544,100	544,100	544,128	0%
	3	-532,306	-520,474	-527,066	2,416	5,579	1,085	1%	25	-528,040	-528,040	-525,802	0%
	4	-153,689	-150,743	-151,995	752	893	433	1%	26	-152,325	-151,941	-151,459	0%
	5	-1,591,744	-1,568,025	-1,579,583	6,630	16,686	4,553	0%	26	-1,585,385	-1,578,678	-1,574,718	0%
	6	-9,409	-8,888	-9,166	124	183	36	1%	22	-9,199	-9,196	-9,119	0%
	7	-69,719	-68,950	-69,197	159	274	70	0%	27	-69,244	-69,205	-69,077	0%
	8	-72,088	-69,729	-71,352	651	869	439	1%	25	-71,998	-71,445	-71,115	1%
	9	42,553	48,827	45,431	1,515	1,979	916	3%	27	44,774	45,728	46,229	2%
	10	-56,490	-49,761	-53,628	1,828	2,570	1,142	3%	25	-54,992	-53,851	-52,765	2%
	11	13,396	15,988	14,694	518	665	220	4%	24	14,479	14,696	14,924	2%
	12	23,973	27,740	26,041	903	1,234	442	4%	25	25,598	25,849	26,433	2%
	13	31,112	36,847	34,439	1,400	2,098	932	4%	26	33,524	34,756	35,410	3%
	14	-29,290	-23,786	-26,360	1,203	2,544	842	5%	26	-27,130	-26,500	-25,445	3%
	15	757	1,388	1,081	175	231	115	16%	23	985	1,102	1,220	11%
	16	3,089	4,848	3,964	391	484	253	10%	23	3,762	4,000	4,225	6%
	17	-1,146,111,682	-1,132,334,000	-1,138,363,889	3,764,642	4,310,972	3,137,218	0%	26	-1,141,500,000	-1,138,605,316	-1,135,660,506	0%
	18	1,000,598	1,048,855	1,024,529	14,349	17,162	13,040	1%	22	1,010,297	1,026,221	1,036,377	1%
Interest Rate	19	-3,756	706	-1,698	1,142	1,280	745	67%	35	-2,683	-1,420	-884	50%
	20	-81,470	-68,975	-79,081	2,123	5,606	765	3%	32	-80,055	-79,614	-78,443	1%
	21	-10,568	-3,207	-6,891	1,536	2,240	779	22%	33	-7,981	-6,845	-6,294	12%
	22	-10,195	-6,296	-8,608	635	1,765	267	7%	35	-8,872	-8,599	-8,337	3%
	23	1,079,275	1,179,861	1,121,326	33,781	33,781	25,290	3%	14	1,084,205	1,123,863	1,147,374	3%
	24	7,199,342	7,216,459	7,211,240	3,480	15,608	2,595	0%	34	7,209,209	7,211,015	7,213,989	0%
	25	-2,177,558	-2,175,832	-2,176,656	436	3,139	263	0%	33	-2,176,873	-2,176,679	-2,176,374	0%
	26	5,611,540	5,687,076	5,637,539	13,948	116,759	1,189	0%	23	5,637,435	5,637,446	5,640,800	0%
	27	1,155,744	1,158,358	1,156,345	452	986	109	0%	33	1,156,033	1,156,387	1,156,471	0%
	28	7,286,646	7,304,448	7,293,746	4,054	64,163	2,166	0%	34	7,291,050	7,293,067	7,295,381	0%
	29	-6,298,419	-6,284,117	-6,292,618	3,187	34,625	1,481	0%	34	-6,294,417	-6,292,483	-6,290,405	0%
	30	-10,710,184	-10,690,099	-10,701,066	3,801	8,197	1,377	0%	34	-10,703,280	-10,700,242	-10,698,828	0%
	31	7,460,078	7,507,386	7,485,904	8,493	26,398	2,339	0%	33	7,483,451	7,485,386	7,488,773	0%
	32	5,898,424	5,911,670	5,907,703	2,796	7,601	956	0%	33	5,906,925	5,908,229	5,908,968	0%
	33	-10,945,740	-10,894,601	-10,912,216	7,209	21,290	869	0%	31	-10,912,602	-10,911,773	-10,910,936	0%
	34	6,365,703	6,431,576	6,390,326	15,000	55,239	6,366	0%	25	6,379,873	6,389,722	6,396,945	0%
	35	5,506,466	5,552,699	5,521,106	9,916	31,556	4,251	0%	26	5,517,135	5,517,420	5,520,006	0%
	36	-2,743	12,819	4,996	4,001	4,188	1,957	80%	35	2,517	4,593	7,796	51%
	37	-2,385	3,131	303	1,339	1,558	751	442%	34	-456	82	1,079	246%
	FX	38	61,757	85,999	76,023	5,998	8,870	2,890	8%	32	74,259	76,324	80,141
39		3,831	38,968	29,093	9,272	15,610	4,155	32%	29	27,715	31,075	34,593	11%
40		847,673	885,494	858,696	5,606	21,312	351	1%	32	858,351	858,668	859,031	0%
41		48,101	54,620	52,478	1,672	2,599	851	3%	30	51,862	52,780	53,458	2%
42		995,850	1,016,324	1,004,649	4,339	6,722	2,641	0%	27	1,001,506	1,004,628	1,006,813	0%
43		-268,645	-257,080	-263,269	2,713	3,193	1,776	1%	28	-264,859	-263,083	-261,482	1%
44		-145,399	-125,569	-136,047	4,322	10,678	2,132	3%	30	-138,482	-136,212	-133,404	2%
45		1,056,239	1,083,469	1,071,947	7,526	7,839	4,806	1%	30	1,066,829	1,071,837	1,077,774	1%
46		-832,373	-806,913	-818,903	6,852	10,812	4,679	1%	28	-823,264	-820,173	-813,123	1%
47		42,887	110,952	76,420	18,086	23,296	8,763	24%	28	65,087	74,079	88,695	15%
Commodities	48	-300,860	-247,360	-277,815	22,723	33,599	5,328	8%	13	-296,239	-295,560	-297,181	7%
	49	246,595	321,739	279,143	24,667	36,038	19,514	9%	13	260,675	287,996	297,771	7%
	50	105,098	116,742	108,825	3,994	4,858	2,137	4%	10	105,603	108,688	109,876	2%
	51	-179,180	-169,272	-173,030	3,104	4,577	2,535	2%	10	-175,093	-172,457	-170,404	1%
Credit Spread	52	-26,765	-25,575	-26,176	362	342	257	1%	20	-26,418	-26,234	-25,788	1%
	53	15,785	17,317	16,438	375	581	94	2%	18	16,270	16,295	16,591	1%
	54	23,115	23,798	23,423	161	229	71	1%	19	23,344	23,392	23,492	0%
	55	30,515	34,471	32,461	1,185	1,185	975	4%	19	31,400	32,621	33,499	3%
	56	71,707	75,812	73,947	1,233	1,847	981	2%	16	73,073	73,891	75,257	1%
	57	-42,416	-41,543	-42,077	231	365	85	1%	18	-42,208	-42,118	-42,038	0%
	58	29,241	30,185	29,599	292	462	127	1%	17	29,382	29,549	29,655	0%
	59	-23,831	-23,133	-23,393	161	221	94	1%	18	-23,544	-23,412	-23,255	0%
	60	11,350	12,737	11,671	368	652	132	3%	18	11,438	11,633	11,701	1%
	61	-16,473	-15,855	-16,267	177	267	76	1%	17	-16,401	-16,346	-16,128	1%
	62	14,707	15,212	14,904	117	569	36	1%	17	14,863	14,906	14,918	0%
	63	-1,460	129	-1,147	394	1,520	38	34%	17	-1,324	-1,281	-1,195	5%
	64	35,477	36,963	36,360	489	915	234	1%	17	36,178	36,378	36,675	1%
	65	44,954	46,007	45,436	347	424	285	1%	18	45,063	45,445	45,656	1%
66	-26,946	-23,748	-24,653	835	1,662	157	3%	19	-24,639	-24,425	-24,265	1%	
67	4,127	3,483	3,837	795	1,120	128	43%	18	1,774	1,922	2,084	8%	
68	973,520	982,119	977,471	2,450	2,837	611	0%	18	974,979	978,290	978,658	0%	
69	200,083	212,083	202,505	2,805	5,568	1,227	1%	17	201,495	201,810	203,042	0%	
70	1,014,271	1,026,168	1,019,981	3,702	3,497	1,193	0%	20	1,018,333	1,020,273	1,020,565	0%	
71	1,030,144	1,034,340	1,033,505	1,094	2,848	165	0%	20	1,033,091	1,033,971	1,034,108	0%	
72	-1,005,603	-1,004,570	-1,005,206	254	524	84	0%	19	-1,005,345	-1,005,258	-1,005,028	0%	
73	1,066,659	1,068,603	1,067,904	602	3,806	192	0%	19	1,067,518	1,068,103	1,068,269	0%	
Correlation Trading	74								3				
	75								2				

<sup>1</sup> STDev trunc is the standard deviation computed excluding values below the 5th and above the 95th percentile

<sup>2</sup> Refers to the number of banks included in the computation of the statistics

Table 2: Average IMVs' interquartile dispersion by asset class

**Average Interquartile dispersion by asset class**

	<i>Interquartile range 2021 exercise</i>	<i>Interquartile range 2020 exercise</i>	<i>Interquartile range 2019 exercise</i>	<i>Interquartile range 2018 exercise</i>
Equity	2%	1%	2%	2%
IR	19%	2%	3%	8%
FX	4%	16%	15%	6%
Commodity	4%	10%	6%	8%
Credit spreads	1%	1%	3%	6%
CTP		5%	8%	103%

82. Table 1 and Table 2 depict the results at the level of both each individual instrument and each risk type. As shown, the highest dispersion at the level of the individual instruments is detected for IR instrument 37 (5 years IRS) (IQD 256%). This high dispersion is due to the very 'low value' (close to zero) of the instruments. In terms of its construction the IQD is a ratio of two absolute measures (difference of the 25<sup>th</sup> and 75<sup>th</sup> quantiles, divided by the sum of the two). Therefore, a difference of a few hundred euros in the IMV generates very high IQD statistics, which is the case for some derivative instruments that exhibit an IMV of close to zero at inception, since they are entered at market rates. The same differences in the case of instruments that are much more valuable generate IQDs close to zero.

83. Besides the 5-year IRS Instrument 37, IR instruments 36 and 19 also show an IQD above 50%. The perception with regard to these submissions, besides the minor presence of trivial errors such as inverted bookings (long instead of short), is that minimal changes in the parameter cause a significant change in the IMVs. This exacerbates the issue described for instrument 37, which is linked to the low absolute value of the instruments. This tends to inflate the IQD index of these instruments. A similar issue, though less significant, applies to instrument 21. Excluding these instruments gives us an average IQD for the IR asset class of 0%, which can be interpreted as an extremely low dispersion.

84. Besides these IR instruments, FX instrument 47 presents IQDs barely above 15%. The level of dispersion is substantially lower than in the previous exercise.

85. Overall, the IQD by asset class for the instruments of the 2021 exercise is significantly lower than in the past exercises for the FX and commodity asset classes. This means that the adjustments to the 2021 instructions have achieved the desired outcome of obtaining a generally low IQD of the instruments in the exercise.

86. Comparing the 2021 instruments with the 2020 instruments purely on the basis of the IQD, once the instruments with values of close to zero that skew the average by asset class have been excluded, it would appear that the quality of the data increased.

87. From an aggregated risk-type perspective, EQ and CS instruments show the lowest dispersion, with values in line with the 2020 exercise. The FX and CO asset classes are substantially lower than in the previous exercise.
88. CTP IMVs are no longer reported since the observations obtained are too few to provide meaningful statistics. Furthermore, the high IQD for the IR class is driven mainly by three instruments (1, 36 and 37). Excluding these anomalously high IQDs would produce an IQD of 1% also for IR.
89. A cluster analysis (see Figure 1, Figure 2, Figure 17 and Table 3) was performed to strengthen and deepen the aforementioned descriptive insights. It shows the dispersion of the IMVs by instrument and helps in identifying clusters in the instruments' pricing that could explain the scattering of IMVs for some trades. The results of this analysis suggest that the clusters are observable for IR instruments 19, 36 and 39. These clustered distributions seem to be more closely linked to the extremely low value of the instruments rather than to a misinterpretation of the instruments; this is also confirmed by an analysis of the dispersion of the risk measures relating to these portfolios.

**Table 3: IMV cluster analysis – number of banks by range**

**2020 IMV cluster analysis by instrument: number of banks by range**

(X = ratio with the median)

100 Range containing more than 15% of the total obs for that particular portfolio

	Instr. ID	300% < X	300% ≥ X > 200%	200% ≥ X > 150%	150% ≥ X > 100%	100% ≥ X > 50%	50% ≥ X > 0	0 ≥ X > -100%	-100% ≥ X > -200%	Num obs.	
Equity	1				15	16				31	
	2				12	20				32	
	3				9	20				29	
	4				14	15				29	
	5				13	16				29	
	6				8	20				28	
	7				14	15				29	
	8				14	15				29	
	9				14	15				29	
	10				14	14			1	29	
	11				14	14				28	
	12				14	14				28	
	13			1	13	15				29	
	14			1	13	15				29	
	15				2	11	13	1		27	
	16					12	15			27	
	17					14	15			29	
	18					12	13			25	
Interest Rate	19	2	8	4	6	12	3	2	2	39	
	20				18	17			1	36	
	21	1			3	16	15	3	2	40	
	22	2	1			17	19		1	40	
	23					7	7			14	
	24					19	19			38	
	25					19	19			38	
	26					17	17			34	
	27					19	19			38	
	28					19	19			38	
	29					19	19			38	
	30					19	19			38	
	31					18	19			37	
	32					18	19			37	
	33					19	19			38	
	34					14	15			29	
	35					15	16			31	
	36		3	7	3	7	11	6	2	1	40
	37		19			1	1		2	1	24
FX	38			2	15	17				34	
	39				17	9	3	5		34	
	40				17	16	1			34	
	41				16	16				32	
	42				16	16				32	
	43				16	16				32	
	44				16	15		1		32	
	45				16	16				32	
	46				16	15		1		32	
	47			2	13	15				30	
Commodities	48				7	7				14	
	49				7	7				14	
	50				5	6				11	
	51				5	6				11	
Credit Spread	52				10	11				21	
	53				10	11				21	
	54				10	11				21	
	55				9	10				19	
	56				9	9				18	
	57				10	10				20	
	58				10	11				21	
	59				10	11				21	
	60				10	11				21	
	61				10	11				21	
	62				10	11				21	
	63				10	6		1	1	18	
	64				9	10				19	
	65				10	11				21	
	66				10	11				21	
67				1	9	6	1	4	21		
68				9	10				19		
69				9	9				18		
70				9	12				21		
71				11	11				22		
72				11	11				22		
73				11	11				22		
CTP	74									0	
	75									0	

90. In particular, as shown in Table 3 and Figure 2:

- Instrument 15 (EQ) is the only relatively high IQD instrument; for the rest there are generally very few extreme outlier observations, which do not represent a substantial problem for the CAs.
- Instruments 19, 36, 37 (IR): only a few observations are extreme outliers with an IQD above 50%.
- Instruments 39 and 47 (FX): there are few outliers with a relatively high IQD (above 11%).
- Instruments (CO): there are no significant outliers.
- Instrument 67 (CS): in this sovereign CDS short position, the other IMVs are very small and close to zero, which inflates the IQD with respect to the rest of the instruments in the asset class.

91. Some of these extreme outlier banks were classified as a high priority for the CAs (see also Chapter 6), so they were followed with greater attention during the exercise in order to specifically define the reason for the extreme result.

92. CTPs are no longer reported in the cluster analysis because of the scarcity of contributions.

93. Some minor misalignments in the IMV have been detected due to the reporting of the 'clean price' (i.e. the price of a trade excluding the accrued interest) instead of the 'dirty price' (i.e. the price of a trade including any interest), which is what was intended for the mark to market valuation. This has been detected especially in the bond price, as in instruments 24-35. This problem was more frequent in the past, but it is evident that not all the banks follow the instructions in this regard. On the other hand, this mistake does not significantly prejudice the provision of the risk measures.

94. In addition, the EBA recommends that banks make better use of the Q&A tool by submitting questions before the start of the exercise to avoid misinterpretations in the future. Banks are kindly invited to provide, using the Q&A tool, their best practice and market standard conventions when further specifications of the hypothetical trades are needed.

95. Evidence from a large majority of the banks is that IMV comes from front office systems. This is acknowledged as the best practice for alignment with real market-trading activities.

96. Figure 1 and Figure 2 report the clusters found in the IMV results for a sample of low IQD instruments (0% IQD or close to zero) and high IQD (the highest in the asset class) instruments. All the instruments' IMV distributions are available in the annex in Figure 17.

Figure 1: IMV scatter plots – low-IQD instruments

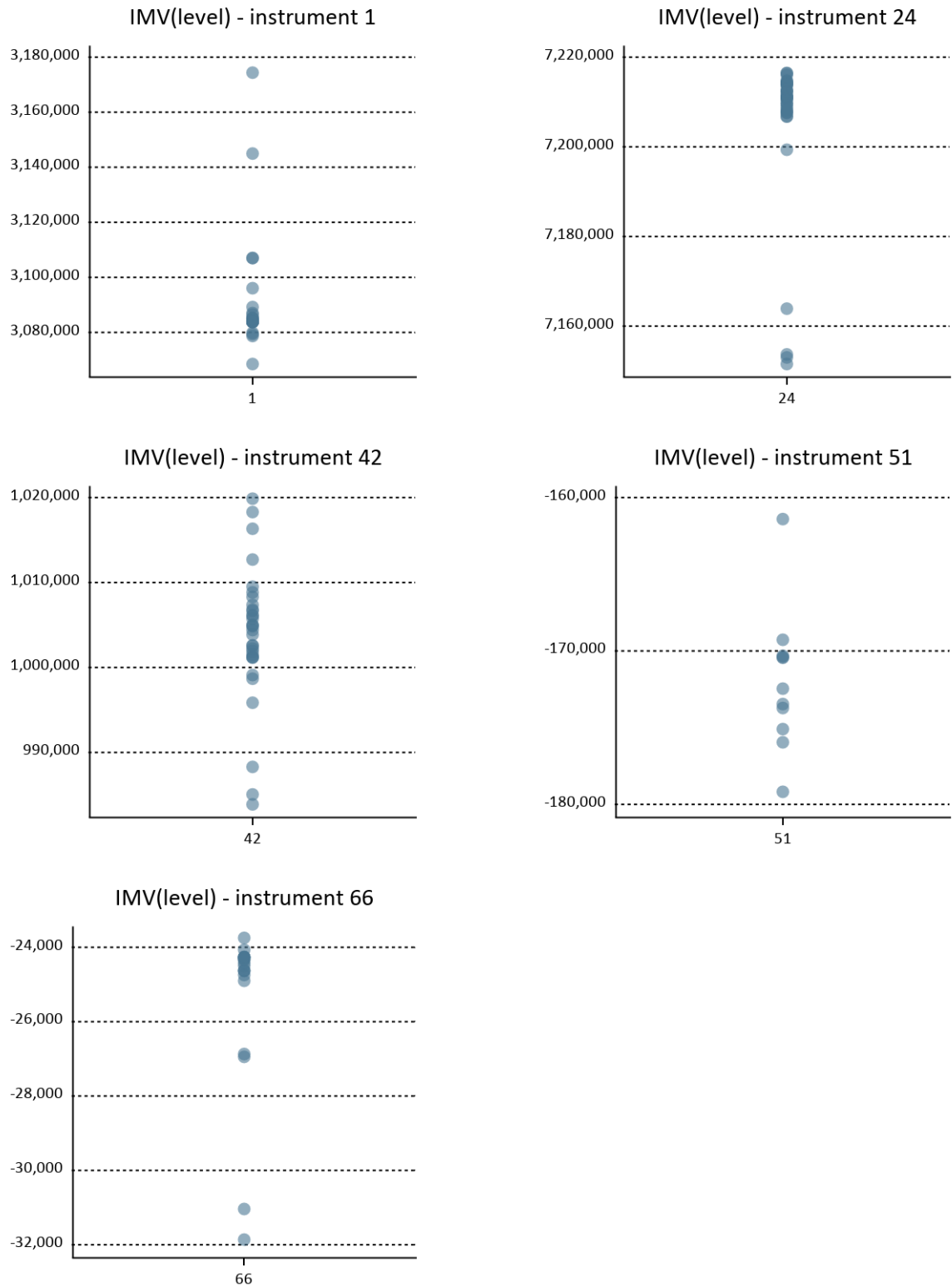
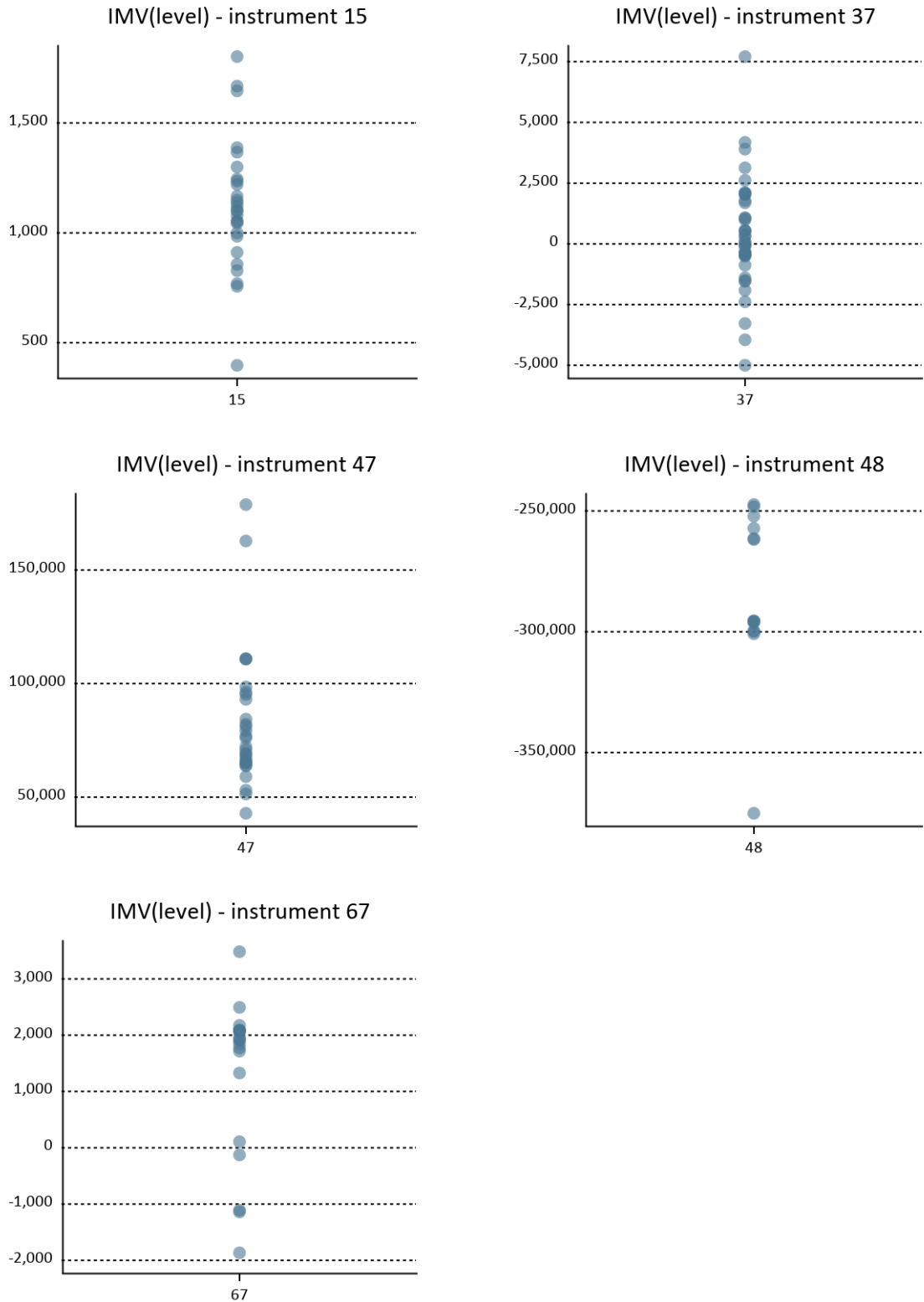


Figure 2: IMV scatter plots – high-IQD instruments



97. The 'concentration index' as per the percentage of values between 50% and 150% of the median value in Table 3 shows that, overall, 97% of the observations lie between those ranges.



98. This result is consistent with that reported following last year's MR benchmarking exercise, demonstrating once again that the simplification of the instruments resulted in a decrease in the number of outliers.
99. Given the EBA's experience of past benchmarking exercises, values lying in this range might be considered acceptable on the basis of fine-tuning as successive benchmarking exercises are run. Nevertheless, the aim will be to increase this IMV empirical range coverage in subsequent exercises.
100. For many hypothetical instruments, the IMV variability is explained by the divergence in terms of both fixings and market practice assumptions by the participating banks. Therefore, the interpretation of the deals and market practices substantially explains the observed variability.

## 4.2 Risk and stressed measures assessment

101. For VaR and sVaR, variability was assessed by using the banks' reported VaR and sVaR over a 2-week period (from 18 January 2021 to 29 January 2021). Banks submitted weekly or daily observations, depending on their models, and the final risk measures by portfolio were obtained by averaging the observations over the 2 weeks.
102. In the sample, 13 out of 40 banks calculated weekly sVaR measures. The remaining two thirds of the participating banks computed daily sVaR measures.
103. In addition, a P&L VaR measure produced by the EBA using the P&L data provided by banks via an HS approach was analysed. The relevant banks delivered a yearly 1-day P&L vector for each of the individual and aggregated portfolios modelled. These were used to compute the P&L VaR.
104. The additional P&L information for non-APR portfolios allowed the EBA to compute the alternative measure for VaR previously defined, and to check the variability of the results across banks by calculating VaR using a 1-year lookback period.
105. Additional checks were carried out for the available P&L vectors, such as the 1-day P&L versus the 10-day P&L (either overlapped or not), where applicable. Furthermore, the time series with the wrong time window were dropped. P&L vectors provided by banks with no HS model were also dropped. A final consistency check across the HS banks entailed computing the ratio between P&L VaR and the regulatory VaR provided, which can be expected to be close to 1.<sup>12</sup>

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<sup>12</sup> It should be noted that this expectation depends on the lookback period for VaR.

106. Clearly, the P&L VaR assessment is possible only for banks applying an HS approach, and with at least 185 days of results submitted. Accordingly, banks applying an MC or parametric approach, or another approach other than HS, cannot be subject to this assessment, and have been dropped from the sample (see also Section 3.4, ‘Data quality issues’).

107. The P&L VaR was computed as the absolute value of the empirical first percentile of the P&L vector rescaled to 10 days by applying the square root of time approximation, without applying any data-weighting scheme:<sup>13</sup>

$$VaR_{99\%}^{10day} = \sqrt{10} * VaR_{99\%}^{1day}$$

108. The P&L vector is used to assess the degree of P&L correlation across banks, as well as the level of volatility shown in each bank’s vector. This analysis should provide useful insights into the degree of market consensus on the relevant risk factors in terms of both market dynamics and volatility levels. Obviously, this analysis, like most of those discussed here, relies on sufficient data points and portfolios being modelled by banks to ensure robustness and consistency.

109. The IRC analysis cannot be deepened in this way for VaR because of the higher level of confidence (99.9%) and longer capital horizon (1 year) applied in these metrics. Nevertheless, a variability analysis was performed. In the paragraph concerning IRC, particular emphasis is reserved for missing, zero or unrealistically low results, which suggest that key underlying risk factors are not efficiently captured by the IRC internal model.

110. In the sample, 11 out of 22 banks computed weekly IRC measures.

111. It is apparent that more complex risk measures, such as IRC, are computed at a less frequent pace (i.e. a weekly basis instead of a daily basis).

112. For APR, only a small number of contributions were submitted because of the scarcity of approved internal models on CTPs and because most institutions consider the CTP business to be declining significantly as a result of the recent financial crisis. Therefore, the sample is quite limited.

113. In the sample, all the banks computed weekly APR measures.

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<sup>13</sup> Some banks apply data weightings at a risk factor level and these will be present in the P&L vectors. This is an implicit source of variability that cannot be controlled.

114. The ES, as an alternative risk metric to VaR, has been estimated from the daily P&L series by averaging the P&L observations below the 2.5th percentile converted by the square root of time approximation and taking the absolute value:

$$ES_{97.5\%}^{10day} = \sqrt{10} * ES_{97.5\%}^{1day} = \sqrt{10} \frac{1}{n} \sum_{i=1}^n P\&L_{t_i}$$

where  $n$  = number of days describing the 2.5th quantile rounded to the highest decimal.

115. For the aggregated portfolios, diversification effects were checked with regard to the VaR, sVaR and IRC metrics, regardless of whether they were provided or estimated.
116. For the most inclusive portfolios – i.e. the aggregate portfolios – the implied capital charges were also computed and their variability analysed. Where possible, the idiosyncratic factors that drive variability and the impact of regulatory add-ons (e.g. multipliers) were analysed.
117. It is worth noting that, although the effects on capital levels of these supervisory actions can be substantial, an HPE is not suitable for assessing such differences. This is especially the case for diversification benefits since these effects are entirely portfolio-dependent. More on this is included in the following subsection entitled ‘Limitations’.
118. Finally, to make the analysis more comprehensive, CAs were asked to complete a questionnaire about the takeaways from this benchmarking analysis and the actions they plan to take to overcome potential weaknesses in the banks’ MR models (see Section 6 of this report). Thanks to the interview process, the EBA had the opportunity to discuss directly some issues raised by CAs when challenging the models in the ongoing assessment process.

#### 4.2.1 Limitations

119. The design of the benchmarking portfolio exercise described in the ITS aims to ensure the quality of the data used in the report to be produced by the EBA and, more importantly, to identify the banks and portfolios that need specific attention on the part of the responsible CAs. Nevertheless, any conclusions regarding the total levels of capital derived from the hypothetical data should be treated with due caution. The hypothetical portfolios are very different from real portfolios in terms of size and structure. What is more, the data cannot reflect all the actions taken by supervisors.
120. From a methodological perspective, the sVaR metric variability observed could originate either from differences in modelling or from the different data periods used for sVaR computation. Further variability stems from banks’ different stress periods because there is no common benchmarking stress period. To allow more specific analysis of this aspect, since the 2019-2020 benchmarking exercise more information about the stressed VaR time window has been requested from banks by expanding the relative template envisaged in Annex VI of the benchmarking ITS (in this regard, see subsection 5.2.5.d, ‘Common stress period considered’ below).

121. Another limitation that was tackled in this exercise is that of producing a segregated analysis for institutions with partial model approval (e.g. general risk only) in order to split the result for portfolios with specific risk to filter the additional unwarranted dispersion of VaR figures. The benchmark analysis was run by splitting banks with full approval for equity and IR from those with partial approval to filter out the variability of the risk measure introduced by the partially approved banks.
122. Banks with partial model approval provided insights into how they approached the benchmarking exercise. It has been found that the differences reported by the banks in respect of the EBA's benchmark measure are almost entirely explained by considering the internal measure of risk, which is not approved for capital purposes but is more complete in terms of risk factor coverage.
123. In summary, the reporting of partial use approval results should be continued for the purpose of the exercise. However, it should be considered within the specific sample in order to assess any bias these partial use approval results could introduce into the results for the rest of the sample observed.

## 5. Overview of the results obtained

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### 5.1 Analysis of VaR and sVaR metrics

124. The dataset used to perform the assessment of risk measures for the 2021 exercise was determined on the basis of the actual dispersion of the risk measures analysed. The outcome of the IMV extreme value analysis was used as an early indication of the potential problems to be reported to banks by their CAs. As explained in Section 4.1, banks' data were taken into account only for portfolios for which the RM is between the benchmark (50<sup>th</sup> percentile) +/- two times the truncated standard deviation in the portfolio analysed. The rest was classified as an outlier. As shown in Figure 26, we can see that this methodology, contrary to what was used until the 2019 exercise, does not exclude RMs that are clearly consistent with the benchmark.
125. To check if submissions (by portfolio) were at least approximately symmetrically distributed around the mean and/or the median, the EBA checked for any significant differences between the mean and median values for the truncated sample. Table 20 in the annex reports the banks' VaR results in relation to the median, aggregated into six buckets, to enable the detection of unexpected clusters.
126. As Table 20 and Table 21 clearly show, the variability of the VaR (above 20% in IQD) has substantially increased versus the previous year, especially in portfolios 4, 7 and 8 for EQ and 17, 18, 24, 25 and 26 within the IR asset class. The analysis also identifies substantial clusters for portfolios 37 to 42, 44 to 47 and 51-52 (credit spread). It seems clear that substantially increased levels of VaR, likely due to an increase in market volatility in spring 2021, exacerbated the differences in the model outcomes that were already present in the past, triggering higher IQD ratios.
127. In contrast to the previous exercise, the VaR values for CTPs (portfolios 54 to 56) are not reported because of insufficient numbers of these data submission to guarantee the significance of the statistics provided and the anonymity of the submissions.
128. The cluster analysis presented above is superior to a simple outlier analysis that flags submissions more than a designated number of standard deviations from the mean, as this method cannot easily be used for clustered or strongly asymmetric portfolios.

#### **Interquartile dispersion**

129. Figure 3 and Table 4 summarise the variability of the results, measured via the IQD and coefficient of variation, for the IMV as well as all three VaR measures (i.e. VaR, VaR for HS banks only and VaR calculated from the 1-year P&L series submitted by HS banks). IQD and CV for IMV, PV, VaR and stress VaR, divided by risk factors, are reported at the bottom of Figure 3. Table 4 also includes the VaR results for MC simulation banks and the expected shortfall.

130. In terms of risks across different assets classes, the IQDs for VaR for all the asset classes have increased; while they are barely below 20% for the IR and CO portfolios, they are lower than for the other risk types. The asset class with the highest IQD is CS (37%; it was 23% in 2020). Overall, the IQD is substantially higher than in the 2020 exercise, where there was an average dispersion of the VaR of 17%, whereas this rose to 25% in the 2021 exercise. This substantial increase in the IQD of the VaR is likely to have stemmed from the much higher volatility in the market in 2021.

131. As usual, the IQD for sVaR is higher than for VaR (see the bottom panels of Figure 3), with an average IQD of 29% (25% in 2020). The difference between VaR and sVaR in IQD is less significant in this exercise than in the past. The CS asset class features a higher dispersion once again (34%; in 2020 it was also 34%), but the IQD ratios for IR and FX are also above 30%. Higher sVaR dispersion is likely to be due to the differences between banks in their choice of the 1-year stress period used, which is chosen based on each participating bank’s actual portfolio. It might therefore be the case that the sVaR is not calculated with respect to the 1-year period that maximises VaR for the given hypothetical portfolio.

Figure 3: Interquartile dispersion and coefficient of variation for IMV and risk metrics by portfolio



Table 4: Interquartile dispersion for IMV and risk metrics by risk factor

### Average Interquartile dispersion by risk factor

	<i>IMV</i>	<i>VaR (all sample)</i>	<i>SVaR</i>	<i>P&amp;L VaR</i>	<i>VaR HS banks</i>	<i>VaR MC banks</i>	<i>Exp shortfall</i>
Equity	2%	24%	28%	13%	23%	7%	13%
IR	19%	19%	34%	17%	16%	7%	12%
FX	4%	27%	31%	25%	26%	7%	23%
Commodity	4%	19%	19%	21%	17%	0%	19%
Credit spr.	1%	37%	34%	37%	33%	13%	36%

132. As expected, Table 4 confirms that when a homogeneous subset of banks is considered (i.e. HS or MC banks), the VaR results show less dispersion than the total sample (average 23% vs. 25%). With regard to the P&L VaR, it is evident that the dispersion (22% on average) is slightly lower with respect to both HS VaR and all-sample VaR for all the asset classes. This is consistent with the assumption that fewer differences in the methodology would imply less dispersion among the risk measures.
133. When comparing variability for HS VaR and MC VaR, this year’s result tells us that the MC VaR values are less dispersed than those of the HS VaR, as in the past exercise. Nonetheless, the analysis needs to take account of the fact that the sample of MC banks is quite small compared with that of HS banks (i.e. 6 MC banks versus 29 HS banks). As far as parametric banks are concerned, a similar analysis is not informative as the total number of parametric banks is very small (i.e. three banks in the sample).
134. The ratio between sVaR and VaR was also analysed across the sample (see Table 25 in the annex). Some banks have ratios below 1 for many portfolios, while other banks have extremely high ratios for some portfolios. While it is generally expected that the sVaR is greater than the VaR, the clear disparity between these values is usually a natural indication that something is wrong with the data submitted, and the EBA and CAs have to pay attention to these observations.
135. Table 5 shows the distribution of the sVaR–VaR ratio classified into three buckets (i.e. below 1, between 1 and 3, and above 3) for each portfolio. It is worth noting that a significant number of portfolios for EQ, IR and CS have a significant proportion of ratios below 1.



Table 5: sVaR–VaR ratio by range (number of banks as a percentage of the total)

**Distribution of sVaR / VaR ratio over portfolios**

(X = ratio with the median)

	Port. ID	X > 3	1 < X ≤ 3	X ≤ 1
Equity	1	0.0%	73.1%	26.9%
	2	0.0%	75.0%	25.0%
	3	0.0%	56.0%	44.0%
	4	0.0%	69.6%	30.4%
	5	0.0%	77.3%	22.7%
	6	0.0%	70.8%	29.2%
	7	4.8%	42.9%	52.4%
	8	0.0%	18.2%	81.8%
	9	0.0%	48.3%	51.7%
	10	0.0%	88.0%	12.0%
Interest Rate	11	18.4%	68.4%	13.2%
	12	6.3%	68.8%	25.0%
	13	30.3%	57.6%	12.1%
	14	44.7%	42.1%	13.2%
	15	36.4%	45.5%	18.2%
	16	0.0%	84.8%	15.2%
	17	0.0%	56.7%	43.3%
	18	0.0%	27.6%	72.4%
	19	0.0%	84.8%	15.2%
	20	17.9%	64.3%	17.9%
	21	5.7%	74.3%	20.0%
	22	38.7%	51.6%	9.7%
	23	0.0%	90.9%	9.1%
	24	3.7%	66.7%	29.6%
	25	42.9%	42.9%	14.3%
	26	0.0%	44.4%	55.6%
FX	27	0.0%	83.3%	16.7%
	28	0.0%	26.9%	73.1%
	29	3.7%	96.3%	0.0%
	30	3.7%	96.3%	0.0%
	31	3.7%	88.9%	7.4%
	32	28.6%	67.9%	3.6%
Commodity	33	8.3%	41.7%	50.0%
	34	0.0%	18.2%	81.8%
	35	0.0%	100.0%	0.0%
Credit Spread	36	0.0%	29.4%	70.6%
	37	0.0%	81.3%	18.8%
	38	5.9%	76.5%	17.6%
	39	0.0%	82.4%	17.6%
	40	15.8%	78.9%	5.3%
	41	15.8%	68.4%	15.8%
	42	7.1%	71.4%	21.4%
	43	11.8%	58.8%	29.4%
	44	11.1%	55.6%	33.3%
	45	11.8%	76.5%	11.8%
	46	0.0%	50.0%	50.0%
	47	27.8%	66.7%	5.6%
	48	0.0%	82.4%	17.6%
	49	0.0%	46.7%	53.3%
	50	0.0%	38.9%	61.1%
	51	0.0%	66.7%	33.3%
	52	0.0%	86.7%	13.3%
	53	0.0%	85.7%	14.3%
CTP	54	0.0%	66.7%	33.3%
	55	0.0%	100.0%	0.0%
	56	0.0%	100.0%	0.0%
ALL-IN no-CTP	57	0.0%	100.0%	0.0%
Equity Cumulative	58	0.0%	77.8%	22.2%
IR Cumulative	59	0.0%	56.0%	44.0%
FX Cumulative	60	4.5%	95.5%	0.0%
Commodity Cumulative	61	0.0%	10.0%	90.0%
CS Cumulative	62	6.3%	62.5%	31.3%
CTP Cumulative	63	0.0%	100.0%	0.0%

## 5.2 A closer look at the VaR and sVaR results

136. Figure 4 and Figure 5 give an overview of the VaR and sVaR results for portfolios 1 to 56, i.e. they do not include the aggregated portfolios, where fewer observations were available for the reasons explained above (see Section 3.4).
137. Broken down by portfolio, the figures show the average VaR and sVaR over the 10-day submission period for each bank, normalised by the median<sup>14</sup> of the given portfolio.<sup>15</sup>
138. Comparing Figure 4 and Figure 5, it looks as if the dispersion is higher for sVaR than for VaR (sVaR 31% IQD versus 27% VaR IQD on average). Differences in dispersion between VaR and sVaR seem steady but are more marked for the IR portfolios, in which sVaR shows a higher level of dispersion than in the other asset classes (approximately 34%).
139. IR and CO are the asset classes with the lowest levels of dispersion for VaR (19%), while for sVaR it was the CO asset class (19%).

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<sup>14</sup> The portfolio median is the median of the average VaR and sVaR over the submission period.

<sup>15</sup> Note that the figures are restricted to VaR–median and sVaR–median ratios below 450%.

Figure 4: VaR submissions normalised by the median of each portfolio

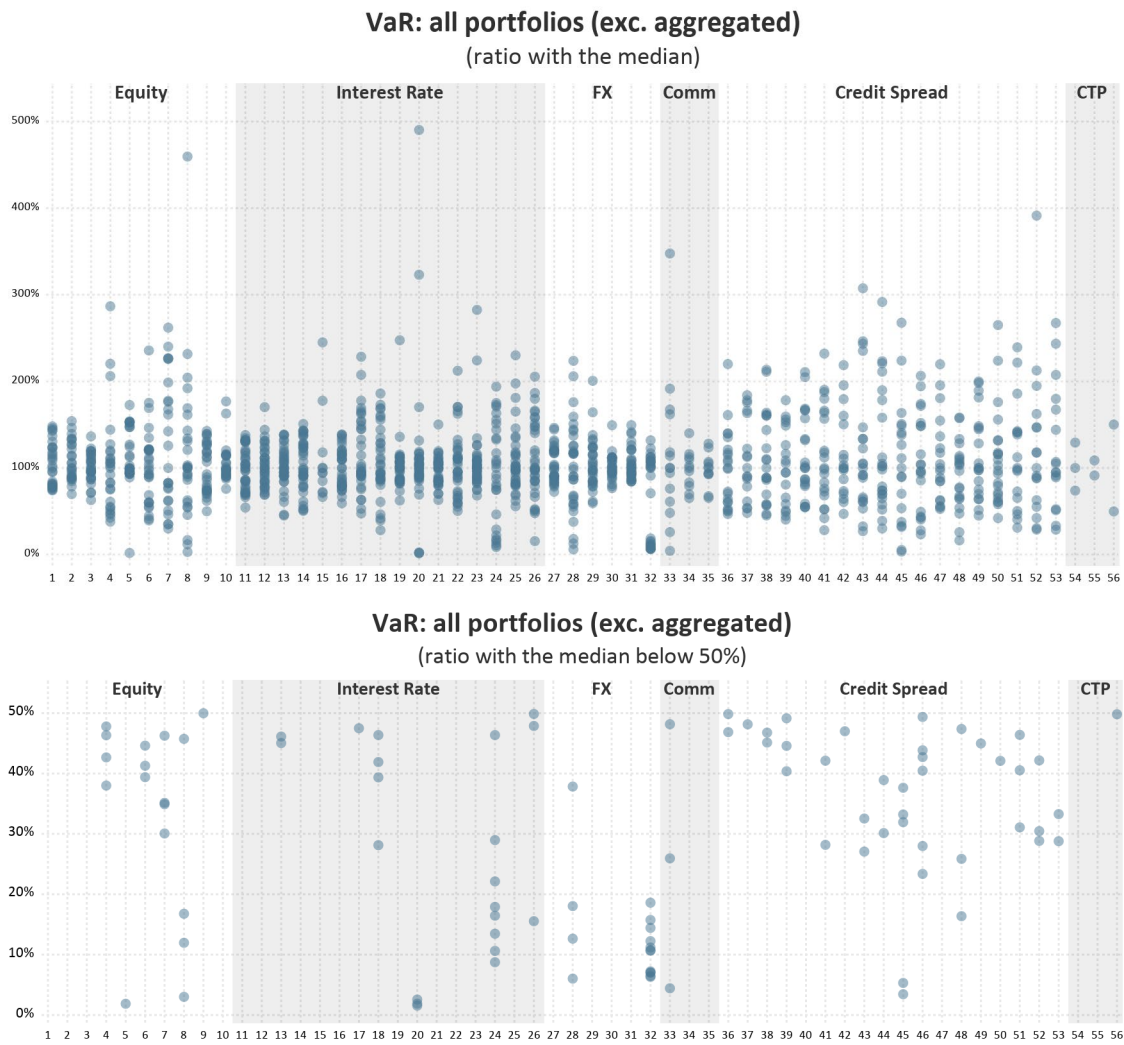
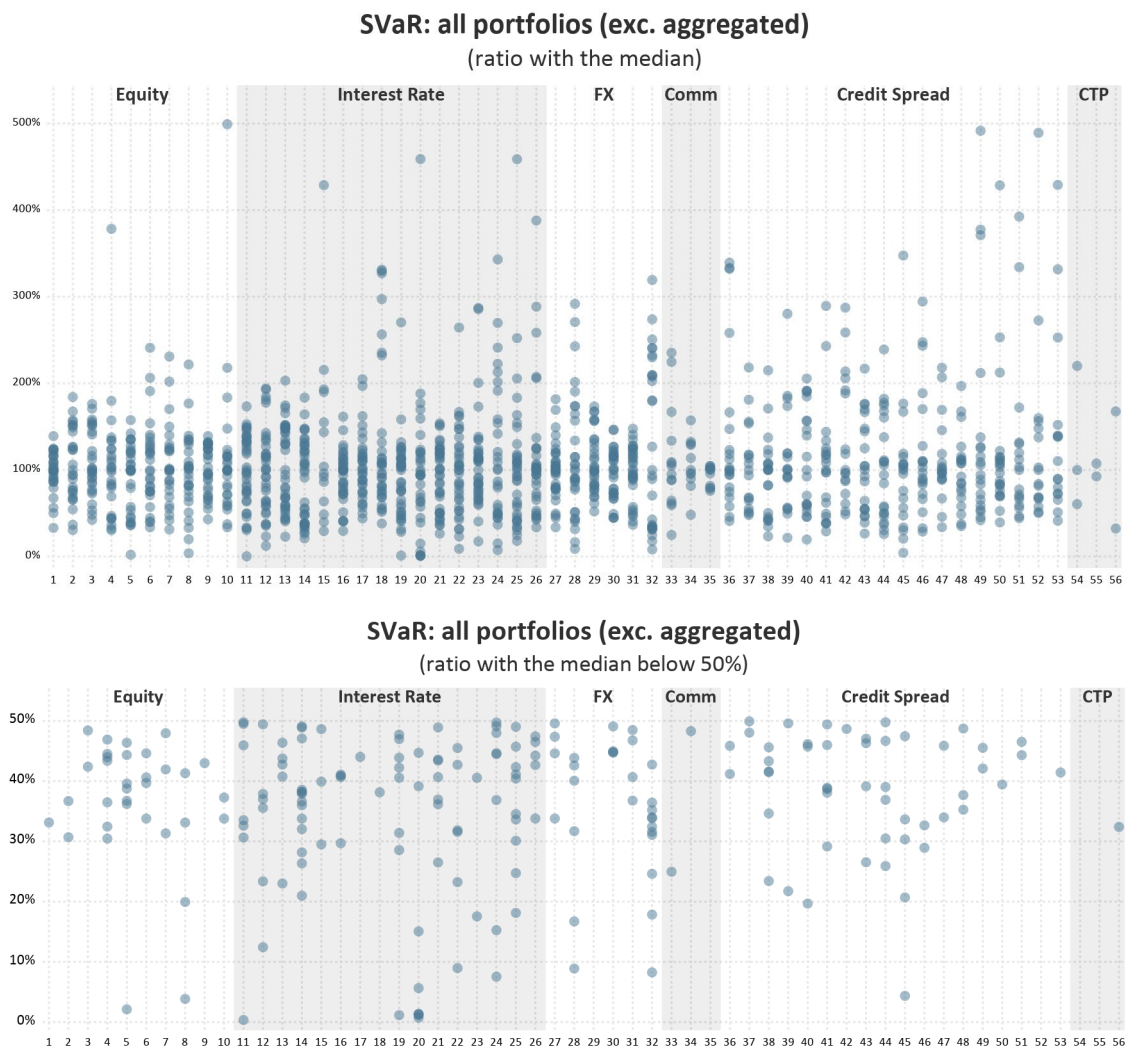


Figure 5: sVaR submissions normalised by the median of each portfolio



140. Table 21 and Table 22 in the annex report all the VaR and sVaR statistics along with EU benchmarks for all HPE portfolios.

### 5.2.1 Comparison of sVaR and VaR ratios

141. Banks were assessed in relation to the full sample not only by their VaR and sVaR values, but also by their sVaR–VaR ratios. In general, it should be expected that sVaR would be at least as high as VaR, as sVaR is calibrated to a 1-year period of significant stress. This is verified in 73% of cases. This percentage is substantially lower than in the previous exercise. It should be noted that the 2021 VaR statistics submitted in the exercise are substantially higher in absolute terms compared to the past (this percentage was usually above 90%) due to the Covid pandemic and

the higher volatility generated in the market<sup>16</sup>. The increased volatility was less evident in the sVaR, reducing the percentage of the sVaR-VaR ratio. Moreover, since the stress period is calibrated on a bank-by-bank basis using the banks' actual portfolios, for the hypothetical portfolios underlying the HPE, the sVaR-VaR ratio could in some instances conceivably be less than 1.

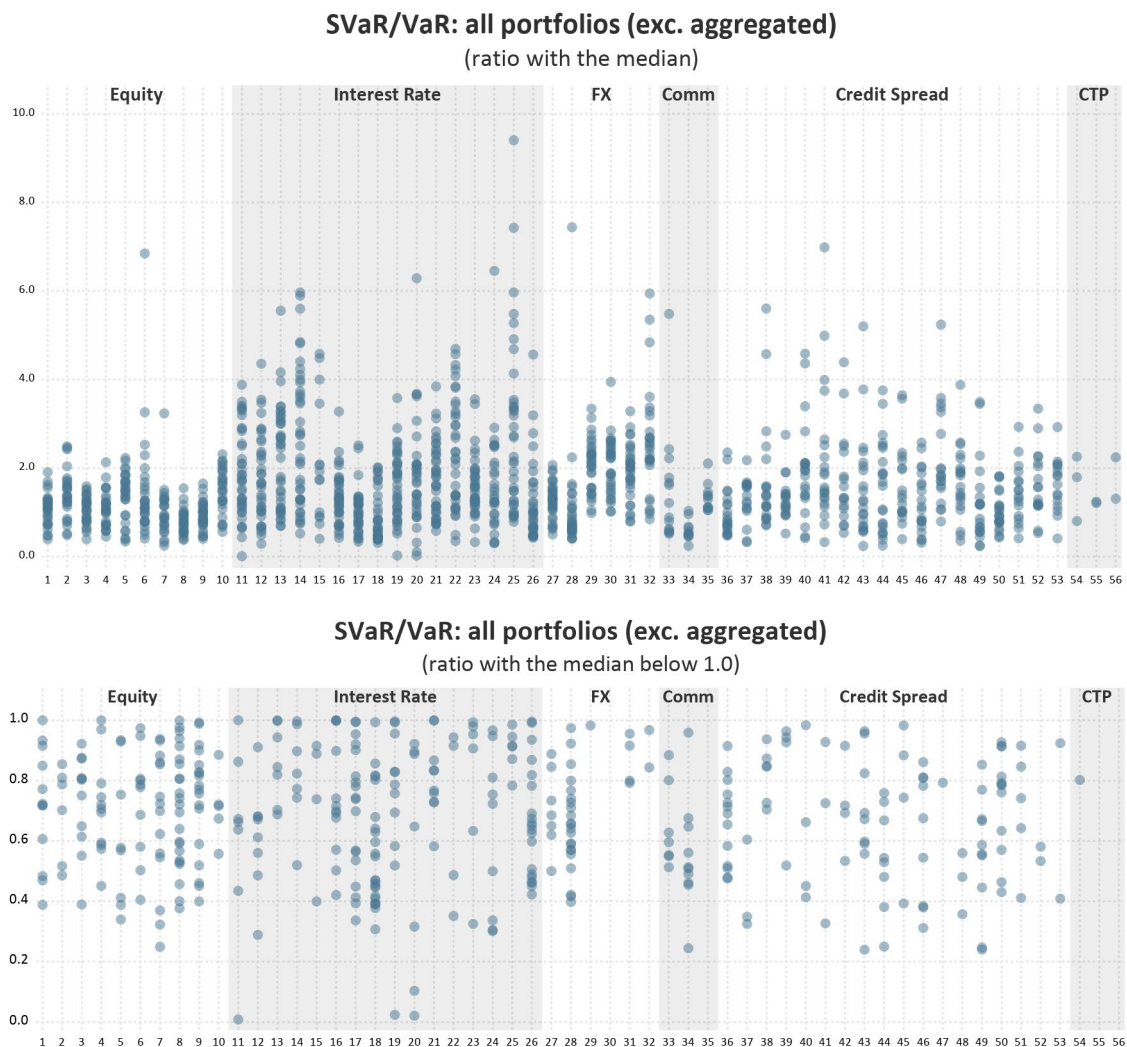
142. Figure 6 shows the ratio of the average sVaR to the average VaR for each bank. The sVaR-VaR ratio varies significantly across the portfolios. Excluding outliers, the average sVaR-VaR ratio per portfolio varies between 0.45 and 3.83 and averages 1.47.<sup>17</sup> These ratios are approximately half those in the previous exercise. The portfolios with the lowest levels of dispersion for the sVaR-VaR ratio (excluding outliers) are portfolios 1, 5 (EQ), 27, 31 (FX), 34, 35 (CO) and 39 (CS).

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<sup>16</sup> In this regard it should be borne in mind that the EBA allowed banks to postpone updating the historical period [EBA Statement on the application of the prudential framework on targeted aspects in the area of market risk in the COVID-19.pdf \(europa.eu\)](#).

<sup>17</sup> The minimum among the single asset class portfolios (1-21) between the 25th and 75th percentiles is 0.96; see Table 20.

Figure 6: sVaR–VaR ratio for the average VaR and sVaR by portfolio



143. A few banks have a high sVaR–VaR ratio for portfolios in certain asset classes only. This suggests that these asset classes dominate the banks’ real trading portfolios and, for that reason, drive the calibration of the sVaR window.

### 5.2.2 Drivers of variation

144. Based on the qualitative information provided by banks (Figure 7 to Figure 11), the most common methodological approach used by banks to model MR is HS (70%). Although the majority of banks use the same methodological approach, the dispersion of VaR remains significant because other modelling choices play a key role in producing variability of the risk measures (e.g. differences in time scaling and/or weighting scheme choices, absolute versus relative returns for different asset classes).

Figure 7: Qualitative data: VaR methodological approaches

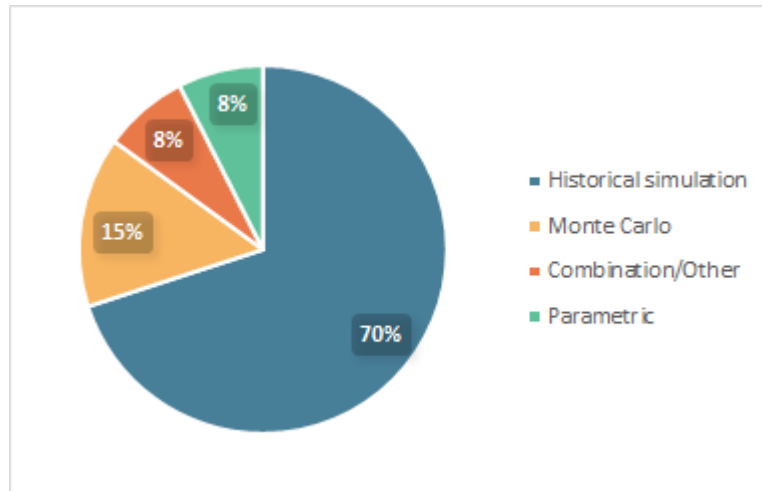
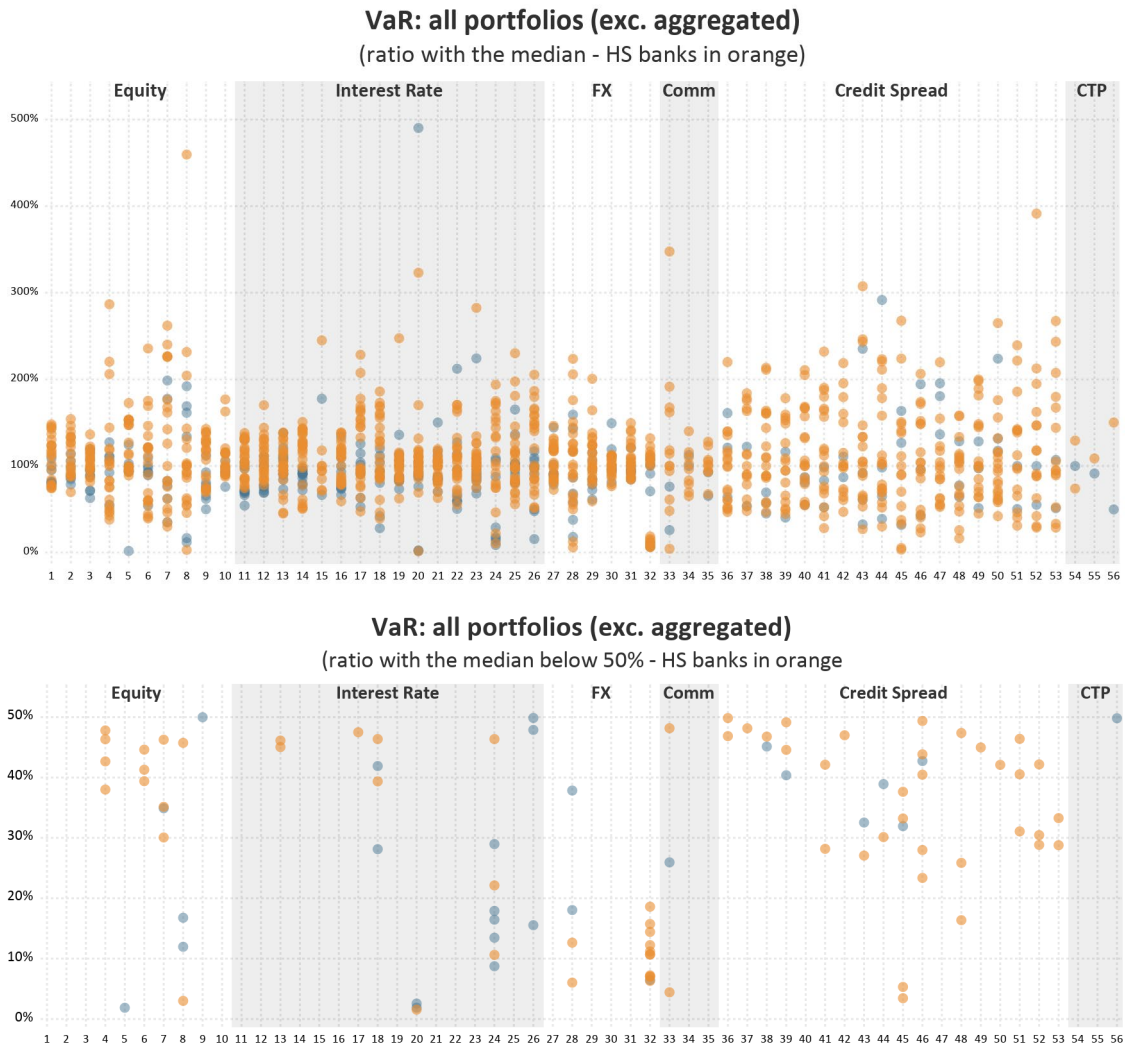


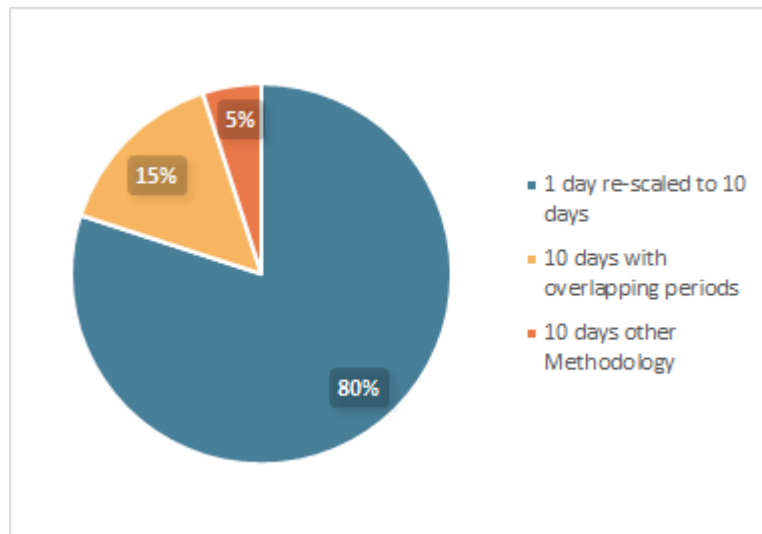


Figure 8: VaR submissions normalised by the median of each portfolio (by methodological approach)



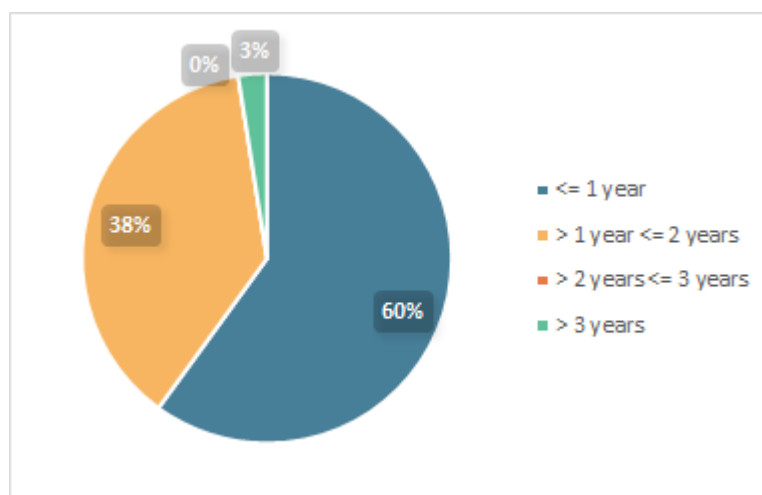
145. With regard to the regulatory 10-day VaR computation, by far the preferred method is rescaling the 1-day VaR to the 10-day VaR using the square root of time approximation.

Figure 9: Qualitative data: VaR time-scaling techniques



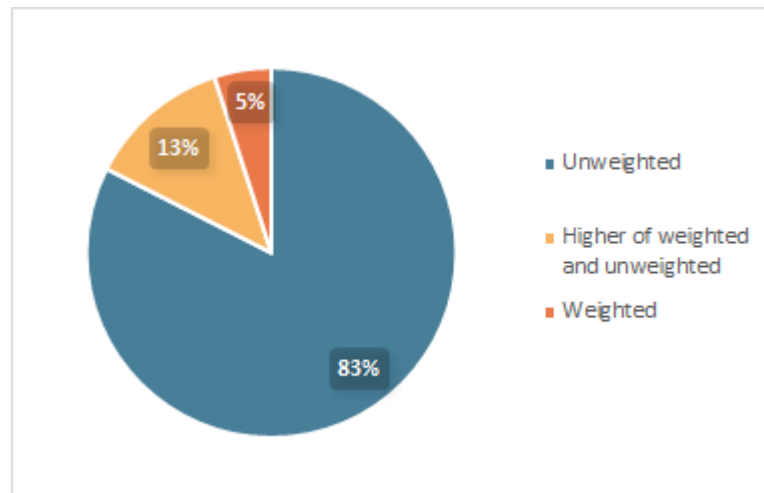
146. With regard to the historical lookback period used to calibrate banks’ VaR models, 60% of the banks use the minimum period of one year, and applying a period longer than 2 years is very unusual.

Figure 10: Qualitative data – length of VaR lookback period



147. As for the possible use of a data-weighting scheme, the great majority of banks’ models use unweighted data in the regulatory VaR computation (83% of respondents).

Figure 11: Qualitative data – VaR weighting choices



148. Finally, with regard to supervisory actions on regulatory add-ons, 72% of the banks in the sample have a total multiplication factor greater than the minimum of 3, which includes the addend resulting from the number of over-shootings (Table 1 in Article 366 of the CRR) and any supervisory extra charge(s). The average total multiplication factor in this sample is equal to 3.5, with a maximum of 5. As a result, quite a number of banks either have to correct for excessive over-shootings or are subject to supervisory measures. In addition, some banks have been assigned other kinds of added penalties that encompass risk ‘not in VaR’ and additional charges for IRC and APR. This was apparent from the additional and related information provided by some CAs about their supervised banks, and from discussions with some banks during the interviews.

149. These responses suggest that the observed variation may be due to a number of different drivers. The EBA chooses to present the analysis using the following broad headings:

- supervisory actions;
- modelling differences; and
- other drivers of variation.

### 5.2.3 Supervisory actions

150. Supervisory actions can take different forms and are therefore difficult to capture fully in the analysis. However, the effects of some types of supervisory charges can be approximated. The effect of a higher VaR or sVaR multiplier imposed by a CA because of model weaknesses, for example, can be studied using the following proxy:

$$\text{Capital proxy} = m_{VaR} * VaR + m_{sVaR} * sVaR$$

where  $m_{VaR}$  and  $m_{SVaR}$  are the total regulatory multipliers given by 3 plus any add-on resulting from excessive backtesting exceptions and other prudential extra charges imposed by the regulator (where appropriate).

151. Including the multipliers in the analysis did not significantly change the results in terms of variability across the sample; that is, the positioning across the sample changed, but, on average, the extent of the dispersion did not.
152. Other supervisory measures, such as capital add-ons, cannot be easily captured. They are normally calculated at an aggregate level on the basis of the banks' actual portfolios and cannot therefore be readily computed for the hypothetical portfolios used for benchmarking. Moreover, it tends to be the case that these add-ons are intended to capture difficulties in modelling risks associated with more exotic trades not represented well in the HPE.

#### 5.2.4 Modelling differences

153. As outlined in Chapter 4, the CRR permits banks to tailor their VaR models to their specific requirements by making different modelling choices. To test the impact of different modelling choices in a controlled manner, four portfolios were selected based on low IQD. Obviously, the average sample size in this analysis is limited.
154. The portfolios – portfolios 3, 13, 31 and 48 – cover the main asset classes (i.e. EQ, IR, FX and CS) and were chosen due to the low variability of the submissions received for them. Six subsets of banks were defined within (and hence controlling for) the sample of banks using historical simulation, distinguishing the following modelling choices:
- 1-day scaled versus 10-day overlapping returns<sup>18</sup>;
  - the length of the historical lookback period (1 year versus > 1 year)<sup>19</sup>; and
  - keeping constant the 1-day and unweighted modelling choices and varying the length of the lookback period (1 year versus > 1 year).<sup>20</sup>
155. As shown in Table 6 and Table 7, there seems to be evidence that the modelling choices matter in terms of dispersion and the conservativeness of the VaR. For instance, for the EQ portfolio the 1-day calibration, more than 1 year and unweighted choices produce less dispersed and more conservative results.
156. For the IR portfolio the 1-day and more than 1-year calibrations produce less dispersed and more conservative results.

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<sup>18</sup> 20 banks adopted 1-day returns, while 7 banks adopted 10-day returns.

<sup>19</sup> 14 banks adopted 1-year, while 13 banks adopted > 1 year.

<sup>20</sup> 9 banks adopted 1-day, unweighted & 1-year, while 9 banks adopted 1-day, unweighted & >1 year.

157. For the EQ, FX and CS portfolios, the ‘1 year’ calibration produces less dispersed and more conservative results.
158. Columns 5 and 6 of Table 6 and Table 7 illustrate the effect of increasing the lookback period (1-year compared to ‘more than 1 year’) when we keep the other factors (1-day & unweighted shocks) the same. We see the ‘1 year’ calibration tending to produce less dispersed and more conservative results across assets classes (except IR).
159. These results cannot be directly matched to the previous year’s results because of the difference in the instruments selected. It is also clear that these results depend on the portfolios’ selection for this analysis. Therefore, based on this analysis, it is difficult to support the idea that one specific model choice will lead to consistently more conservative and less dispersed risk measures.

Table 6: Coefficient of variation for regulatory VaR (controlling for HS) by modelling choice (%)

Coefficient of Variation for regulatory VaR (controlling for HS)						
Port.	1-day	10-day	1y	>1y	1d, 1y, unw	1d, >1y, unw
EQ 3	9.2%	7.3%	10.9%	10.9%	6.8%	10.2%
IR 13	12.5%	16.4%	14.8%	13.3%	11.2%	12.9%
FX 31	13.3%	13.8%	9.0%	16.0%	10.3%	17.1%
CS 48	35.5%	26.9%	31.5%	44.0%	29.8%	54.4%
mean	17.6%	16.1%	16.5%	21.1%	14.5%	23.6%

Table 7: Average regulatory VaR by modelling choice

Average VaR subsamples						
	1-day	10-day	1y	>1y	1d, 1y, unw	1d, >1y, unw
EQ 3	15,075	12,636	14,993	13,664	15,675	14,173
IR 13	125,591	103,857	115,730	127,548	119,810	132,761
FX 31	548,956	528,013	563,315	523,881	560,406	547,265
CS 48	28,688	24,092	28,126	24,489	31,953	22,400

## 5.2.5 Other drivers of variation

160. In addition to the drivers of variation discussed in the preceding two subsections, there may be other drivers of variation.

161. In subsection 5.2.4 ‘Modelling differences’, for instance, only results obtained with HS VaR were discussed, although the methodological aspects considered are expected to be important for other model types (e.g. MC simulation) as well.
162. Another driver of variation are the risks not captured in a model. Due to the simplification of the exercise compared to past exercises (2016-2018), the majority of the most exotic instruments were deleted, so most of the possible risk factors not in the models are no longer present in the exercise. Moreover, banks that are not able to model specific trades are allowed by the Benchmarking RTS not to submit the risk measure. This is shown, for example, in instrument 23 (IR ‘Cap and Floor’ on 10-year note), where only 14 observations (across 40 banks) are available. Nonetheless, for this non-vanilla product the IQD is 24% for the VaR, which is similar to other IR portfolios, which means that the submitting banks presented some consistent risk measures. As a result, it is likely that few risks not in VaR were present.
163. The use of proxies probably leads to spurious variability in some of the hypothetical portfolios characterised by less liquid risk factors, for example some credit spreads. This consideration also applies to the sVaR.
164. As in the previous exercise, the EBA also presents an analysis of aspects not considered in the past (2016-2018). Four additional drivers of variation will therefore be tested in the following areas: (a) size of the bank, (b) business model, (c) level of approval of model (e.g. general interest risk versus general and specific interest risk approval, or general equity risk versus general and specific equity risk approval) and (d) time window selected for the calibration of the stressed VaR. As for the previous exercise (2020), the EBA also tested different definitions of size and business models.
- a. Size of the bank**
165. The size of the bank could have some impact on the internal model. Larger banks are expected to invest more in internal modelling, and this could have an impact on the quality of the model and the results submitted. The same can be said of banks that invest more in market activities in terms of their whole bank activity. The composition of the bank’s trading portfolio could also have some influence on the design and performance of the internal model. Nonetheless, size is not a uniquely definable variable.
166. For the scope of the analysis, the size of the banks was selected based on banks’ common reporting results concerning the RWA for market risk. The market risk RWA was preferred in selecting the size because a bigger bank in terms of total RWA can have a smaller market risk trading book in relative terms. The market risk RWA variable was therefore preferred. It should be noted that market risk RWA also incorporates the standardised measure, but classifying the bank by the internal model market risk RWA did not change the composition of the sample substantially.

167. The banks were divided into three subsamples: large (above the 75th quantile), medium (between the 75th and 25th quantiles) and small (lower than the 25th quantile). Detailed VaR tables are presented in the annex (see Table 27, Table 28 and Table 29).
168. Table 8 summarises the effect of the bank’s size. Because of the decreased number of submitters, the ‘small banks’ sample lost a little of its significance. Fewer banks means fewer submissions, and the smaller banks usually report less information. Therefore, it is more interesting to look at the difference in dispersion among medium and large banks. For all asset classes other than CS, it seems that dispersion decreases with the size of the banks. This implies that the banks’ size does matter and that variability in size increases the dispersion of the general results submitted.
169. Further analysis of this aspect can be carried out in terms of the factors selected to define the size. If we run the same analysis using the size of the trading book<sup>21</sup> instead of the size of the bank (defined by RWA for market risk), we can see that dispersion varies again across different asset classes and different sizes of banks. The results are reported in Table 30, Table 31 and Table 32. Looking solely at the trading book size, we obtain different results. The average IQD ratio is not monotonic with the size of the trading book. The average IQD is 20% for small TB banks, 24% for medium TB and 19% for large TB banks.
170. The results concerning the impact of size on variability are mixed, but interesting, and these results merit investigation in the exercises.

Table 8: Asset class comparison for VaR in terms of banks’ size

	VaR - Avg. Interquartile Range			
	All Banks	Small Banks	Medium Banks	Large Banks
Equity	24%	11%	24%	17%
Interest Rate	19%	20%	19%	15%
FX	27%	25%	26%	23%
Commodities	19%		25%	13%
Credit Spread	37%		25%	27%
CTP				
All-in	15%	5%	13%	17%

**b. Business model**

171. The business model of the banks in the sample was selected based on a previous analysis run by the EBA (EBA – LCR Report<sup>22</sup>). In the sample of 40 banks, 25 were classified as cross-border universal banks, which is by far the most numerous business model in the sample. The

<sup>21</sup> The size of the trading book was defined as: (assets held for trading + liabilities held for trading) / (total assets \* 2). Data source: FINREP data)

<sup>22</sup> <https://eba.europa.eu/-/eba-reports-on-the-monitoring-of-the-lcr-implementation-in-the-eu>

remaining banks were either not classified or had different business models (e.g. local universal banks), but they were too few to use as a subsample for this kind of analysis. As a result, the cross-border universal bank business model was selected.

172. Specific VaR results for banks classified as cross-border universal banks are shown in Table 33 of the annex. Table 9 summarises the impact of the business model on different asset classes. It is clear that the business model selected is so predominant in the sample that it does not allow for proper discrimination among the whole sample; therefore, the dispersion of the banks belonging to the same business model is very close to the dispersion of the whole sample for the banks. Judging from the results, there is some weak evidence that the business model has some effect in increasing the dispersion of the VaR submission.

173. Further analysis of the business model can be carried out in terms of factors selected to define the business model. If we run the analysis based on the amount of ‘Level 3 assets and liabilities’ in relation to the size of the trading book<sup>23</sup> (FINREP data), the results are reported in Table 34, Table 35 and Table 36. The average IQD is 19% for the low level of Level 3 A&L banks, 23% for the medium level and 19% for the high level of Level 3 A&L banks. Therefore, it seems that a more exotic composition of the bank’s trading book does not affect the variability of the results.

Table 9: Asset class comparison for VaR within the same business model (cross-border universal bank)

	VaR - Avg. Interquartile Range	
	All Banks	Cross-border Universal bank
Equity	24%	20%
Interest Rate	19%	19%
FX	27%	25%
Commodities	19%	19%
Credit Spread	37%	27%
CTP		
All-in	15%	14%

### c. Level of approval

174. Banks can have different levels of approval for equity and interest rate risks. To be more specific, banks can apply to obtain approval for the general equity or interest rate risk or they can apply for approval of the specific equity or interest rate risk as well. See also the discussion in Section 4.2 on this point. In general, having approval for both the general and the specific parts of the equity and interest rate risks allows banks to fully model the instruments in the equity and credit spread sections of the exercise. Nonetheless, banks with only general approval are required to report these instruments as well, but this has been known to generate additional

<sup>23</sup>  $(\text{Level 3 assets held for trading} + \text{level 3 liabilities held for trading}) / (\text{assets held for trading} + \text{liabilities held for trading})$



dispersion in the risk measures submitted. For this reason, in this exercise the EBA filtered all the results submitted and produced IQD statistics for the banks belonging to the sample of banks with different levels of approval.

- 175. Among the banks that submitted results for interest rate risk, 20 banks in the report have general and specific approval (see Table 31) and 17 banks have only general approval (see Table 32). Among the banks that submitted results for equity asset risk, 24 banks in the report have general and specific approval (see Table 33) and 10 banks have only general approval (see Table 34).
- 176. Table 10 summarises the result of the analysis when the filter for the level of approval is applied. It is clear that the presence of banks with different levels of approval tends to slightly impact the benchmarking results.
- 177. Looking at Table 10, we see that the EQ asset class IQD is smaller when considering only the subsample of firms with the full level of approval with respect to the full sample. The CS asset class also decreases slightly since almost no banks without specific IR approval submitted any CS results. Finally, for the IR asset class splitting the sample between banks with general and specific approval and banks with only general approval produces some marginal changes in the benchmark for this asset class, confirming that the submissions from banks with partial approval tends to increase the IQD of the submissions.

**Table 10: Asset class comparison for VaR in terms of level of approval**

	<b>VaR - Avg. Interquartile Range</b>			
	<i>All Banks</i>	<i>IR Gen + Specific</i>	<i>IR Gen only</i>	<i>Eq Gen + Specific</i>
<i>Equity</i>	24%			21%
<i>Interest Rate</i>	19%	16%	20%	
<i>Credit Spread</i>	37%	31%		

**d. Common stress period considered**

- 178. The stress window applied by the participating banks has always been understood as one of the main sources of the greater dispersion of the sVaR compared to the VaR, but this hypothesis was tested only from the 2019 exercise onwards due to a lack of information regarding the time window applied by the banks to calibrate the sVaR. This information was collected for the 2020 and 2021 exercises as well and applied to test the impact of the stress time window selected to calibrate the sVaR.
- 179. Generally speaking, in their time window for the sVaR the banks select periods that include either 2008-2009 or 2011 in order to calibrate their sVaR, with a preference for 2008-2009. Because of the higher number of banks selecting 2008-2009, the EBA filtered the sample of the

banks that applied a 2008–2009-time window for sVaR calibration, obtaining a subsample of 30 banks. The benchmark and the related statistics for this subsample of banks are available in Table 35 in the annex, and they are easily comparable with the full sample sVaR statistics in Table 22.

180. Table 11 summarises this stress period filtering analysis. It seems clear that the different time window selected for the bank actually has a significant impact on sVaR statistics. This means that the subsample with the same stress period generally exhibits smaller dispersion results for sVaR than the whole sample.

**Table 11: Asset class comparison for sVaR in terms of the time window applied**

	SVaR - Avg. Interquartile	
	All Banks	Stressed Period
<i>Equity</i>	28%	18%
<i>Interest Rate</i>	34%	24%
<i>FX</i>	31%	24%
<i>Commodities</i>	19%	17%
<i>Credit Spread</i>	34%	31%
<i>CTP</i>	44%	24%
<i>All-in</i>	16%	14%

### 5.2.6 Portfolio comparison

181. Selective comparison of VaR results across portfolios can be informative in instances where the riskiness of those portfolios may be ranked in a model-independent way. For example, all else being equal, it is expected that a more diversified and hedged portfolio would lead to a lower VaR than a more concentrated and unhedged portfolio.

182. This hypothesis can be tested with several portfolios in the 2021 exercise. Use of the following portfolios is suggested:

- portfolio 16, which is composed of instruments 24 (long 5 million German bond – 10 years) and 25 (short 2 million German bond – 5 years);
- portfolio 17, which is composed of instruments 24 (long 5 million German bond – 10 years), 25 (short 2 million German bond – 5 years) and 26 (long 5 million Italian bond – 10 years), so it is equal to portfolio 16 plus instrument 26.

183. Both of these portfolios comprise sovereign bond instruments, yet portfolio 16 is concentrated on only one issuer and is partially hedged (long and short positions). Portfolio 17 adds a second issuer to this portfolio without any hedge. Against this backdrop and in view of the specific portfolio definitions, we would expect the following result:

$$VaR_{Portfolio\ 17} > 200\% \times VaR_{Portfolio\ 16}$$

184. Table 12 reports when this hypothesis holds true.

**Table 12: Portfolio comparison for VaR, sVaR and IRC**

	$VaR(P17) > VaR(P16)$	$sVaR(P17) > sVaR(P16)$	$IRC(P17) > IRC(P16)$
<i>Num of banks</i>	<b>33 out of 34</b>	<b>33 out of 34</b>	<b>21 out of 22</b>
	$VaR(P17) > 1.5 * VaR(P16)$	$sVaR(P17) > 1.5 * sVaR(P16)$	$IRC(P17) > 1.5 * IRC(P16)$
<i>Num of banks</i>	<b>33 out of 34</b>	<b>31 out of 34</b>	<b>21 out of 22</b>
	$VaR(P17) > 1.75 * VaR(P16)$	$sVaR(P17) > 1.75 * sVaR(P16)$	$IRC(P17) > 1.75 * IRC(P16)$
<i>Num of banks</i>	<b>32 out of 34</b>	<b>27 out of 34</b>	<b>21 out of 22</b>
	$VaR(P17) > 2 * VaR(P16)$	$sVaR(P17) > 2 * sVaR(P16)$	$IRC(P17) > 2 * IRC(P16)$
<i>Num of banks</i>	<b>29 out of 34</b>	<b>17 out of 34</b>	<b>21 out of 22</b>

185. The comparison between the two portfolios with respect to regulatory VaR shows that only 5 out of 34 banks do not meet the initial expectation. The same comparison based on sVaR yields 17 banks that are not in line with this expectation. With regard to the IRC model, one bank does not meet the a priori expectation.

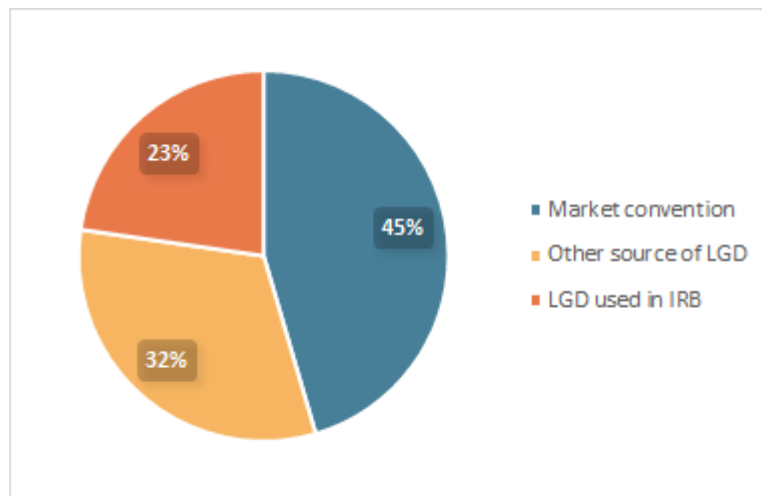
### 5.3 Analysis of IRC

186. Banks with an approved IRC model constitute a subsample of those with an approved VaR model; only banks using internal models for specific risks of debt instruments are permitted to use IRC models (Article 372 of the CRR).
187. The full set of submissions for IRC results for each trade, after the data-cleaning process has been run as previously described, is reported in Table 13.
188. In the context of the HP exercise, only a subset of banks made submissions for IRC, and a number of those banks submitted very low figures. This suggests that important risk factors (in the context of the HPE) have not been modelled. While the submission of low figures may be linked to risk factors not modelled, this should not be taken to mean that banks with higher IRC figures included all risk factors from a given portfolio in their model.
189. The number of submissions is limited for some of the all-in portfolios. Statistical inferences for these portfolios are thus not appropriate. A prerequisite for consideration of banks' submissions for the all-in portfolios is that a bank needs to be able to model all the corresponding underlying portfolios.
190. As in the case of VaR, a selective comparison of IRC results across portfolios can be informative in instances where the riskiness of those portfolios may be ranked in a model-independent way. As shown in subsection 5.2.6, the expected diversification relationship holds true for all but one of the banks that submitted such results.
191. It is recommended that CAs assess the extent to which these missing risk factors are important in the context of banks' overall risk, and whether or not they need to be added to the model.
192. CAs should devote particular attention to portfolios 15-23, 44-48, 50 and 51, i.e. where IRC shows a higher level of dispersion (above 50%) above the average.
193. As is the case for VaR and sVaR, banks can choose from a range of permitted modelling approaches for IRC. For example, banks need to choose:
- a source of credit risk estimates such as PD and loss given default (LGD);
  - the number of systemic factors used to model the co-movement among obligors in their portfolios;
  - the size and granularity of credit spread shocks to apply to positions with an obligor following a rating transition; and
  - the liquidity horizons to assign to positions with a particular obligor.
194. The responses to the qualitative questionnaire relating to the IRC methodological aspects suggest that the use of market LGD predominates among respondents (Figure 12), with 10 out of 22 banks using market convention as the source of LGD. A minority of banks – 5 out of 22 –

use their own IRB models as the source of LGD. The rest – 7 banks – use various other sources to obtain the LGD.

195. The PDs are provided by rating agencies in 64% of cases, by the IRB in 27% and by other sources in 9%. The transition matrices are mostly taken from rating agencies (17 respondents out of 22), and the rest of the banks use their IRB, ‘market implied transition matrices’ and various other sources.

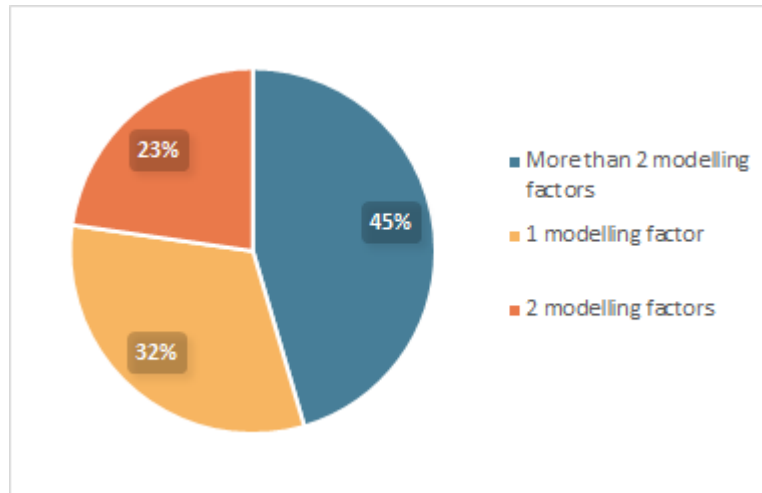
**Figure 12: Qualitative data: source of LGD for IRC modelling**



196. Moreover, a majority of respondents stated that they use more than two systemic modelling factors at the overall IRC model level (Figure 13).

197. The liquidity horizon applied at the portfolio level for the IRC model is predominantly between nine and 12 months (17 respondents out of 19).

Figure 13: Qualitative data – number of modelling factors for IRC



198. Hence, in the context of IRC the modelling practices across the sample of banks participating in the benchmarking exercise seem to be consistent.

Table 13: IRC statistics and cluster analysis

EU Statistics for IRC

Port. ID	Main statistics									Percentiles			
	Min	Max	Ave.	STDev	STDev_trunc <sup>1</sup>	MAD (median absolute deviation)	Coefficient of variation (STDev/Mean)	Num obs. <sup>2</sup>	25th	50th	75th	IQD	
Interest Rate	15	79,483	350,766	186,942	97,760	141,028	98,987	52%	10	86,506	189,317	284,479	53%
	16	9,240	400,440	129,391	116,073	269,903	51,389	90%	19	44,029	115,537	187,567	62%
	17	76,675	3,779,449	1,736,402	1,222,883	1,192,441	891,354	70%	21	641,254	1,547,004	2,822,900	63%
	18	391,212	5,445,435	2,415,065	1,598,565	1,876,068	960,564	66%	19	1,095,754	2,334,193	3,786,474	55%
	23	77,713	1,346,554	470,468	374,372	489,694	181,582	80%	19	178,375	385,140	846,083	65%
	24	3,077,400	6,814,833	5,248,175	1,095,594	1,619,603	770,398	21%	17	4,956,114	5,111,878	6,099,447	10%
	26	596,874	6,497,426	3,011,123	1,825,019	1,943,768	1,190,590	61%	20	1,472,928	2,943,851	3,848,737	45%
Credit Spread	36	6,306	261,207	78,577	59,940	107,614	29,138	76%	18	42,988	75,600	94,903	38%
	37	10,210	116,229	68,195	30,149	47,141	20,415	44%	17	48,509	70,057	90,713	30%
	38	9,000	88,289	46,760	20,039	23,646	12,199	43%	18	30,384	53,502	60,931	33%
	39	6,607	347,827	105,022	100,600	169,213	38,019	96%	16	44,410	74,511	120,868	46%
	40	20,000	88,289	52,472	19,365	21,309	14,016	37%	18	38,380	52,378	66,413	27%
	41	475,102	1,015,718	683,152	135,486	187,302	80,137	20%	18	623,168	645,803	766,642	10%
	42	72,200	273,300	161,475	44,478	64,926	18,770	28%	16	149,127	166,465	174,608	8%
	43	267,003	1,071,295	653,205	200,043	227,380	95,154	31%	18	575,086	636,084	739,571	13%
	44	192	238,058	115,887	77,528	74,748	57,023	67%	21	49,042	95,504	192,280	59%
	45	7	68,244	17,237	21,879	37,940	3,086	127%	18	1,302	9,556	27,428	91%
	46	731	28,408	7,066	6,842	32,491	3,113	97%	16	2,337	7,488	10,017	62%
	47	14,400	479,559	128,013	111,166	198,359	59,904	87%	17	58,522	113,731	174,089	50%
	48	2,527	43,197	15,358	12,076	19,016	6,643	79%	18	5,825	13,100	19,112	53%
	49	6,673	347,827	101,675	98,068	140,906	32,637	97%	17	48,661	74,082	112,898	40%
	50	1,607	221,665	56,304	75,344	105,683	11,389	134%	18	6,502	45,786	73,725	84%
51	2,987	453,471	110,275	127,153	215,561	36,138	115%	16	27,689	79,305	99,475	56%	
52	156,358	2,449,442	1,337,479	534,193	645,309	69,546	40%	16	1,378,417	1,434,576	1,518,958	5%	
53	232,768	2,519,254	1,352,175	534,871	645,526	79,754	40%	16	1,379,366	1,434,576	1,536,488	5%	
ALL-IN no-CTP **	57	693,050	6,521,420	3,264,443	2,437,752	3,130,608	1,181,845	75%	12	1,187,899	2,159,849	5,734,216	66%
CS Cumulative **	62	319,665	1,432,213	772,633	240,638	1,585,719	114,604	31%	18	639,707	776,627	837,022	13%

<sup>1</sup> STDev trunc is the standard deviation computed excluding values below the 5th and above the 95th percentile

<sup>2</sup> Refers to the number of banks included in the computation of the statistics

\*\* For the aggregated portfolios (57 to 63), banks that reported at least a missing portfolio IMV among the ones composing the aggregate are not included in the computation of the benchmarks for that particular aggregate portfolio.

199. Table 13 shows that the average variability of IRC is higher than that observed for VaR. This table presents a summary of the descriptive statistics concerning the IRC values submitted, along with the median, first and third quartiles used to select out-of-range values to be discussed with the banks during the interviews. EBA received on average 18 submissions for IRC in relation to the IR and CS hypothetical trades.

200. In this exercise, the EBA also provided a disaggregated analysis of sources of LGD and numbers of modelling factors. It is possible to split the sample between market convention and non-market convention (IRB and other sources) and the number of modelling factors (1-2 vs. more than 2). In Table 14 below, the average interquartile is reported. The full set of results is also reported in Table 43, Table 44, Table 45 and Table 46.

201. The IQD dispersion of the subsample is very stable for the CS portfolios among different model choices. Market convention and 1-2 modelling factors seem to produce less dispersed results for IR portfolios.

Table 14: Coefficient of variation for regulatory IRC by modelling choice (%)

	All Banks	Source of LGDs		No. modelling factors	
		Market Convention	Non-market Convention	1-2 factors	>2 factors
Interest Rate	51%	41%	42%	38%	43%
Credit Spread	39%	30%	45%	37%	34%
All-in	40%	27%	42%	27%	34%

## 5.4 Analysis of APR

202. This report is no longer reporting the summary of the responses to the qualitative questionnaire relating to the APR methodological aspects, since only 3 responses are available at the overall CTP model level, so no disclosure is possible without disclosing some specific information on the submitters.

203. The average variability of the APR charge is also no longer reported, since the limited data available do not allow a meaningful computation of the IQD of each CTP. Therefore, data on Table 15 are no longer reported, not even for referencing.

**Table 15: APR statistics and cluster analysis**

**EU Statistics for APR**

	Port. ID	Main statistics							Percentiles				
		Min	Max	Ave.	STDev	STDev_trunc <sup>1</sup>	MAD (median absolute deviation)	Coefficient of variation (STDev/Mean)	Num obs. <sup>2</sup>	25th	50th	75th	IQD
CTP	54												
	55												
	56												
CTP Cumulative	63												

<sup>1</sup> STDev trunc is the standard deviation computed excluding values below the 5th and above the 95th percentile  
<sup>2</sup> Refers to the number of banks included in the computation of the statistics  
 \*\* For the aggregated portfolios (57 to 63), banks that reported at least a missing portfolio IMV among the ones composing the aggregate are not included in the computation of the benchmarks for that particular aggregate portfolio.

## 5.5 P&L analysis

204. The P&L analysis is complementary to the outcome of the assessment of variability based on VaR modelling. For each individual portfolio, the P&L vectors provided by banks using HS were compared, and a benchmark analysis is provided in the annex (see Table 23).
205. A graphic exemplification of low and high IQD portfolios is presented below in Figure 14 and Figure 15. Even though the P&L vectors available are much longer, only 3 months (1 November 2020 to 1 February 2021) are reported to simplify the representation. Additional examples of low and high IQD portfolios can be found in the annex in Figure 24 and Figure 25. It is clear that P&L vector series that perform better tend to be closer to the benchmark. On the other hand, the low absolute value of the P&L, as per the risk measures, tends to provide misleading information if we consider the IQD figures alone.

**Figure 14: P&L chart example of low IQD**

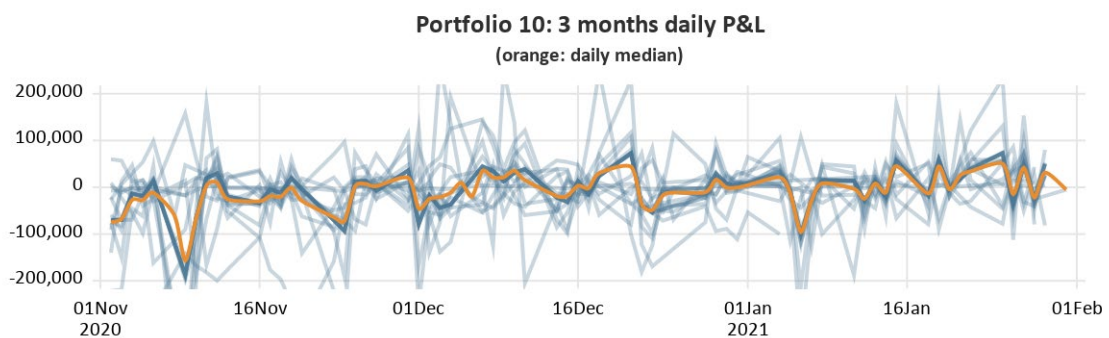
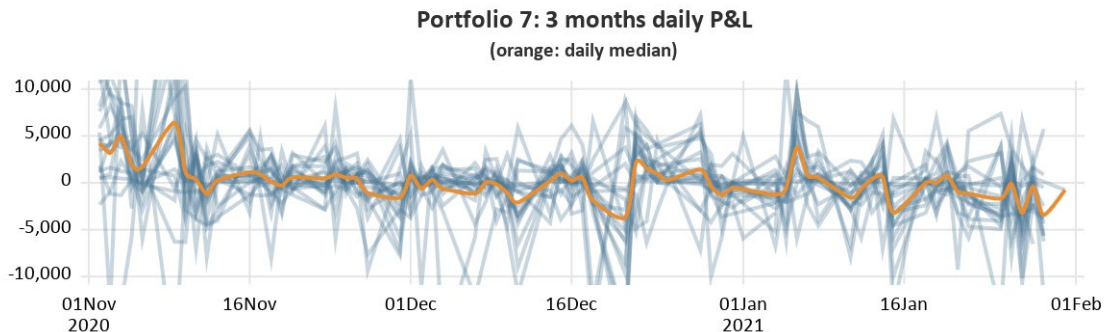




Figure 15: P&L chart example of high IQD



206. Another useful check for the P&L results submitted was a comparison of the ratio between the P&L VaR computed by the EBA (see Section 4.2 and Table 26) and the regulatory VaR submitted by the participating banks. A significant deviation of this ratio from 1 indicates an incoherent submission by the bank (see Table 26 in the annex). Moreover, it allows the tightness or the width of the realised P&L distribution for each bank to be checked at each hypothetical trade position. This can be done by referring to the standard deviation of the P&L series.
207. Another metric computed by the EBA from the P&L series provided by HS banks is the empirical ES (see Table 24 in the annex). The empirical ES results have approximately the same level of dispersion as the P&L VaR (see Table 4 in Section 5.1).

## 5.6 Diversification benefit

208. An additional metric considered as part of the analysis was the diversification benefit observed for VaR, sVaR and IRC in the aggregated portfolios.
209. The diversification benefit of a given metric (e.g. VaR) is computed as the absolute benefit, i.e. the difference between the sum of the single results for each individual position and the result for the aggregated portfolio, divided by the sum of the single results from each individual portfolio. Table 16 summarises the results of the analysis.
210. As expected, there is evidence that larger aggregated portfolios exhibited greater diversification benefits than smaller ones. The diversification benefit for all-in portfolio 57 (all-in no-CTP portfolio), for instance, clearly exceeds the benefit for the other risk types, whose all-in portfolios are based on fewer individual instruments. With regard to the dispersion shown by the diversification benefits, it is possible to observe a significantly higher IQD for some portfolios than for others, and – in some cases – a quite comparable dispersion across VaR, sVaR and IRC (e.g. interest rate and commodity risk categories).

Table 16: Diversification benefit statistics

### Diversification benefit statistics

Diversification benefit = (Sum of single portfolios VaR - Aggregated Port. VaR)/Sum of single portfolios VaR

#### VaR

	Port.	Other statistics			Percentiles			Interquartile dispersion
		Ave.	STDev	Num obs. <sup>3</sup>	25th	50th	75th	
ALL-IN no-CTP	57	84%	3%	7	82%	84%	85%	2%
Equity Cumulative	58	81%	5%	22	78%	80%	83%	3%
IR Cumulative	59	47%	8%	33	42%	46%	50%	9%
FX Cumulative	60	41%	6%	26	38%	41%	47%	10%
Commodity Cumulative	61	2%	2%	9	1%	3%	4%	45%
Credit spread Cumulative	62	36%	17%	19	22%	34%	45%	34%

#### sVaR

	Port.	Other statistics			Percentiles			Interquartile dispersion
		Ave.	STDev	Num obs. <sup>3</sup>	25th	50th	75th	
ALL-IN no-CTP	57	76%	3%	7	74%	75%	80%	4%
Equity Cumulative	58	76%	9%	22	71%	74%	80%	6%
IR Cumulative	59	49%	11%	33	44%	51%	58%	14%
FX Cumulative	60	37%	9%	26	30%	34%	41%	15%
Commodity Cumulative	61	5%	4%	8	3%	5%	6%	26%
Credit spread Cumulative	62	29%	23%	18	14%	22%	33%	41%

#### IRC

	Port.	Other statistics			Percentiles			Interquartile dispersion
		Ave.	STDev	Num obs. <sup>3</sup>	25th	50th	75th	
Credit spread (36 to 53)**	27	0%	167%	17	18%	46%	51%	49%

## 5.7 Dispersion in capital outcome

211. As a final means of comparison, for each individual position a variable equating to the sum of the regulatory VaR and sVaR was computed. This variable was used in two ways: using the banks' total multiplication factor, and using only the regulatory multiplication factor, i.e. ignoring the banks' individual addend(s) set by the CAs. The results were averaged across a given risk type, thus arriving at a proxy for the implied capital outcome.
212. In addition, the exercise also attempted to isolate the effect of the time windows selected as the stress period. Therefore, the same statistics were reported for banks applying the 2008-9 stress period.

Table 17: Interquartile dispersion for capital proxy

### Interquartile dispersion for capital proxy

	<i>Capital proxy (banks own mult)</i>	<i>Capital proxy (fixed mult, =3)</i>	<i>Capital proxy Stressed period (fixed mult, =3)</i>
Equity	22%	19%	14%
IR	23%	23%	18%
FX	28%	26%	24%
Commodity	17%	14%	14%
Credit spreads	29%	28%	28%
CTP			

213. Table 17 suggests that variability is slightly exacerbated by regulatory add-ons. In any case, the ranges of capital value dispersion remain broadly aligned whether or not the banks' actual multiplication factors are used. Moreover, filtering for banks with the same stress window seems to have a further impact in decreasing the variability. Nonetheless, we need to take into consideration the fact that the sample of banks decreases in number when analysing the subsample of banks with the same stress period, which – other things being equal – tends to increase the IQD.

## 5.8 Present value

214. The 2020 exercise introduced the PV as a statistic to be provided by the banks. The full set of statistics is provided in Table 42 for this year's exercise as well.

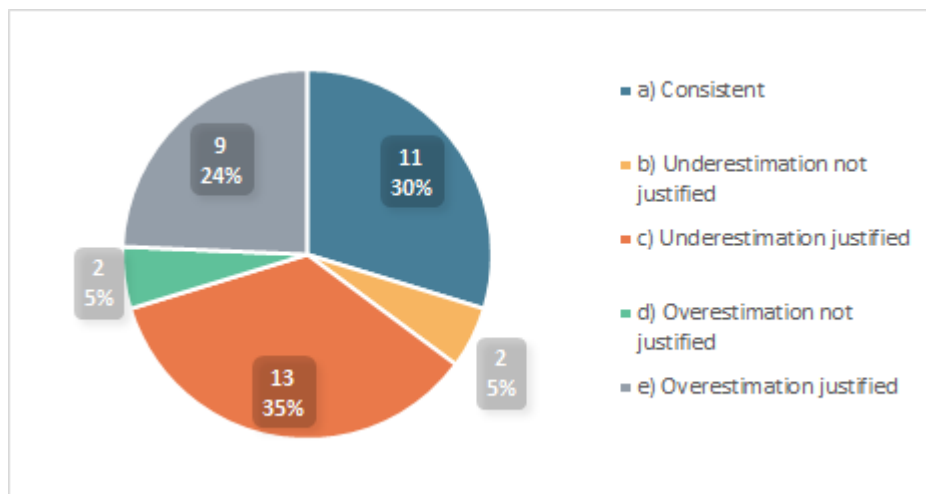
215. The average IQD of the PV among the single portfolios is 11%. This IQD would be much lower, at 2%, if 2 portfolios with a relatively high IQD (Portfolios 32 and 33) were excluded. By asset class, the IQD is distributed as follows: EQ (2%), IR (4%), FX (70%, but 0% once portfolio 32 has been excluded), CO (18%, but only 2% once portfolio 33 has been excluded) and CS (1%). The extremely high IQD of the FX asset class is driven by Portfolio 32 (IQD 417%), where the highly disperse PV of the portfolio, which ranges from negative to positive PV, signals some errors in a unified understanding of instrument 47 (CCSwap) to produce a very high IQD. The high IQD of the CO asset class is driven by Portfolio 33 (IQD 49%), where the low PV of the portfolio and the 75<sup>th</sup> quantile being close to zero naturally produce a high IQD measure despite the absolute difference in the PV being very limited.
216. PV measures are useful to CAs to verify the RM values. The ratio of RM over PV helps the CAs to quickly verify if the RM outlier comes from a simple mispricing of the portfolio or if it is indeed a true outlier with respect to the RM benchmark. Further analysis of these aspects is expected to be carried out in future.

## 6. Competent authorities' assessment

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217. For each participating institution, the CAs provided individual assessments of any potential underestimation of the capital requirement as required by Article 78(4) of the CRD and Articles 9 and 10 of the draft RTS on supervisory benchmarking. This chapter highlights some key information derived from these assessments.
218. The EBA designed a questionnaire about this assessment, which asked CAs to provide detailed information concerning the level of priority, based on both judgemental and qualitative/quantitative examination results, the overall assessment concerning the MR capital requirements of the internal models and, finally, the CAs' ongoing monitoring activities.
219. A total of 37 questionnaires from 13 jurisdictions, provided by the CAs, have been considered in this assessment of the MR benchmarking exercise.
220. Regarding the level of priority of the assessments, six banks (16%) are reported to be high priority for intervention by CAs. CAs gave high priority to those banks that were outliers in the analysis, are particularly significant for the jurisdiction, have a history of incorrect submissions or were identified as potential candidates for the interview process. The criteria for selecting banks as high priority were substantially based on firms' results in terms of the capital requirement proxy (below the 25th percentile or above the 75th percentile) alongside other aspects such as the relative importance of the bank in the jurisdiction and recent changes in the methodology for computing the risk measures.
221. Figure 16 reports the CAs' own overall assessments of the levels of own funds requirements. When it comes to benchmark deviations, justified or not, 26 banks were reported by CAs as under- or overestimating MR own funds requirements, of which 22 provided justifications for this. Obviously, 'not justified' implies that further and targeted CA investigation is required. Finally, 11 banks had consistent results (i.e. no benchmark deviations).
222. CAs' assessments acknowledge four cases out of 37 of unjustified under- or overestimation of internal model market capital requirements that require further in-depth analysis. Obviously, CAs – and the joint supervisory teams, where applicable – pay close attention to the potential cases of underestimation, both across the portfolio and across the risk categories.

Figure 16: CAs' own assessments of the levels of MR own funds requirements 2019



223. The main factors and reasons that may explain possible underestimations are as follows: benchmarking portfolios that do not represent the actual composition of the real trading portfolios of the institutions (4/26); missing risk factors not incorporated into the models (6/26); differences in calibration or data used in modelling estimation and/or simulation (9/26); proxies applied (10/26); and differences attributable to the methodology used (12/26). These explanations, and very often a combination of these explanations, were offered by a large majority of the applicable respondents.
224. Two banks were identified as possibly underestimating, without justification, during the banks' internal assessment process run by the CAs. Both cases were classified as 'low priority' by the CA and were not considered as extreme outliers by the EBA. CAs are currently undertaking some monitoring activities (both ongoing and on-site) of the internal models to check all the issues relating to these banks.
225. To be more specific, for one bank the internal validation function has identified some sources of improvement to the model, which are being followed up by the CA. In addition, the CAs had additional examinations in place that provided further reassurance as to the quality of the internal model results for the bank.
226. For the second subject, the inability to fully justify the underestimation was only partial. In this specific case, the CA accepted that the underestimation was present only for a minority of portfolios, with a specific level of approval that was not sufficient to fully capture the risk of such portfolios compared to peers.
227. The two banks identified as possibly overestimating, without justification, are also classified as 'low priority' by the CA. Differences in calibration or data used in modelling estimations and/or simulations were also identified by the CA, which was nonetheless unable to fully explain

and investigate the misalignment; these misalignments did not raise any substantial concerns for CAs.

228. Overall, CAs planned some action in respect of 13 banks, such as:

- a. reviewing the banks' internal VaR and IRC models;
- b. extra supervisory charges;
- c. stringent conditions on any extension of the internal model approach;
- d. further internal model investigations at the peer level.

229. Currently, three banks have a due date for making improvements to their MR internal models as already requested by CAs.

## 7. Conclusion

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230. This report has presented an analysis of the observed variability across results provided by EU banks that have been granted permission to adopt internal models for MR own funds requirements.
231. It must be remembered and emphasised that, as the quantitative analysis is based on hypothetical portfolios, this report focuses solely on potential rather than actual variations. The analysis shows the extent of the variability in these hypothetical portfolios, but this cannot automatically lead to conclusions regarding real under- or overestimations for the MR capital charge.
232. However, the analysis might help in determining possible supervisory activities to address uniformity and harmonisation across the Member States, and in promoting in-depth future cross investigations of this matter.
233. The objective of the benchmarking exercise was not to reach a final judgement on the key drivers of variation and the calculation of the implied capital charges, but to provide supervisors with insights into how to increase comparability and reduce the variability between banks that is attributable to non-risk-driven behaviours.
234. In particular, the report provides inputs for CAs on areas that may require their further investigation, such as IMV variability for some credit spread products. Supervisors should pay attention to the materiality of risk factors not in VaR and, in particular, not encompassed in the IRC models.
235. Moreover, the conclusions reached in regular supervisory model monitoring activities will take into account the outcome of the supervisory benchmarking exercises to achieve greater alignment between CAs' targeted internal model reviews and the EU's benchmarking analysis.
236. Overall, this exercise exhibits a reduced IMV variability for FX and CO. IR IMV is substantially higher than last year, but this is due to a few instruments with very low IMVs that distort the IQD ratio. Some minor errors in data submission are still present, but this third submission of the same instruments and portfolios is satisfactory overall. The variability of risk measures, especially the VaR, is higher than in the previous exercise, but this is due to the much higher volatility in the market encountered in 2021, which implied an absolute increase in the VaR measures, and an intensification of the dispersion verified in the previous exercises. The variability of the VaR aggregated portfolios is limited: the 'all-in portfolio' IQD is 16%. Aggregated by asset class, the portfolio IQD of the others is 15% on average, and never above 20%, except for CS. This increase in variability is also partially due to a smaller sample in the submission (we remind readers that the number of submitting banks fell from 50 to 40, since UK banks are no longer part of the exercise). Another side-effect of the reduced sample is that same statistics are no longer reported, especially on CTP and APR, due to the insufficiency of the



data available. The analysis carried out in the 2019-2020 exercise – relating to the considerations of the level of approval, size of banks, business model adopted and stress period – was repeated in the 2021 exercise, and should not be considered a consolidated piece of information in the benchmarking report. Two interviews were conducted in the 2021 exercise to allow CAs to conduct closer monitoring of the deviations from the benchmark of the banks flagged as outliers.

237. Finally, this report provides a framework that can be considered useful for the purpose of future benchmarking exercises under Article 78 of the CRD. Therefore, the type of analysis conducted (i.e. the statistical tools provided to CAs, the graphs and tables created and the methodology defined, etc.) offers a clear direction for future investigations into and activities relating to these issues.

## 8. Annex

Table 18: Banks participating in the 2021 EBA MR benchmarking exercise

Country	Bank name
AT	Erste Group Bank AG
AT	Raiffeisen Bank International AG
BE	Belfius Bank
BE	Dexia
BE	KBC Groep
DE	COMMERZBANK Aktiengesellschaft
DE	DekaBank Deutsche Girozentrale
DE	DEUTSCHE BANK AKTIENGESELLSCHAFT
DE	DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main
DE	Landesbank Baden-Württemberg
DE	Landesbank Hessen-Thüringen Girozentrale
DE	Norddeutsche Landesbank - Girozentrale -
DE	HSBC Germany Holdings GmbH
DK	Danske Bank A/S
DK	Nykredit Realkredit A/S
ES	Banco Bilbao Vizcaya Argentaria, S.A.
ES	BFA, TENEDORA DE ACCIONES, S.A.
ES	Banco Santander, S.A.
ES	CaixaBank, S.A.
FI	Nordea Bank Abp
FR	BNP Paribas
FR	Groupe Crédit Agricole
FR	Groupe BPCE
FR	HSBC Continental Europe
FR	Société générale
GR	Alpha Bank S.A.
GR	Eurobank Ergasias Services and Holdings S.A.
GR	National Bank of Greece, S.A.
IE	Barclays Bank Ireland plc
IT	BANCO BPM SOCIETA' PER AZIONI
IT	Intesa Sanpaolo S.p.A.
IT	UNICREDIT, SOCIETA' PER AZIONI
NL	ABN AMRO Bank N.V.
NL	Coöperatieve Rabobank U.A.
NL	ING Groep N.V.
NL	NIBC Holding N.V.
NL	RBS Holdings N.V.
PT	Banco Comercial Português, SA
SE	Skandinaviska Enskilda Banken - group
SE	Swedbank - group

Country	AT	BE	DE	DK	ES	FI	FR	GR	IE	IT	NL	PT	SE
N.banks	2	3	8	2	4	1	5	3	1	3	5	1	2

Table 19: Instruments/portfolios underlying the HPE

## Instruments

EQUITY	
1	Long EURO STOXX 50 index
2	Long 10,000 BAYER (ticker: BAYN GR) shares
3	Short future, BAYER (ticker: BAYN GR) (1 contract = 100 shares)
4	Short future, PEUGEOT PSA
5	Short future, ALLIANZ
6	Short future, BARCLAYS
7	Short future, DEUTSCHE BANK
8	Short future, CRÉDIT AGRICOLE
9	Long call option, underlying BAYER
10	Short call option, underlying BAYER
11	Long call option, underlying PFIZER
12	Long put option, underlying PFIZER
13	Long call option, underlying BAYER
14	Short call option, underlying BAYER
15	Long call option, underlying AVIVA
16	Long put option, underlying AVIVA
17	Short future NIKKEI 225
18	Autocallable equity product
IR	
19	5-year IRS EUR – receive fixed rate and pay floating rate
20	Two-year EUR swaption on 5-year interest rate swap
21	5-year IRS USD. Receive fixed rate and pay floating rate
22	2-year IRS GBP. Receive fixed rate and pay floating rate
23	Long position on ‘cap and floor’ 10-year UBS AG (ticker: UBSG VX) notes
24	Long GERMANY GOVT EUR 5 MLN (ISIN DE0001135085)
25	Short GERMANY GOVT EUR 2 MLN (ISIN DE0001102358))
26	Long ITALY GOVT EUR 5 MLN (ISIN IT0005246134)
27	Long ITALY GOVT EUR 1 MLN (ISIN IT0004953417)
28	Long SPAIN GOVT EUR 5 MLN (ISIN ES00000124C5)
29	Short FRANCE GOVT EUR 5 MLN (ISIN FR0011317783)
30	Short GERMANY GOVT EUR 10 MLN (ISIN DE0001102390)
31	Long UNITED KINGDOM GOVT GBP 5 MLN (ISIN GB0002404191)
32	Long PORTUGAL GOVT EUR 5 MLN (ISIN PTOTETOE0012)
33	Short UNITED STATES GOVT USD 10 MLN (ISIN US9128283P31)
34	Long BRAZIL GOVT 5 MLN USD (ISIN US105756BT66)
35	Long MEXICO GOVT 5 MLN USD (ISIN US91086QBC15)
36	10-year IRS EURO – receive floating rate and pay fixed rate
37	5-year IRS EURO – receive floating rate and pay fixed rate
FX	
38	6-month USD/EUR forward contract
39	6-month EUR/GBP forward contract

40	Long 1 MLN USD cash
41	Long call option, EUR 10 MLN
42	Long call option, EUR 10 MLN
43	Short call option, EUR 10 MLN
44	Short call option, EUR 10 MLN
45	Long put option, EUR 10 MLN
46	Short put option, EUR 10 MLN
47	5-year mark to market (MtM) cross-currency EUR/USD swap

#### COMMODITIES

48	Long 3,500,000 6-month ATM London Gold Forwards
49	Short 3,500,000 12-month ATM London Gold Forwards contracts
50	Long 30 contracts of 6-month WTI crude oil call option
51	Short 30 contracts of 6-month WTI crude oil put option

#### CREDIT SPREAD

52	Long (i.e. buy protection) USD 1 MLN CDS on PORTUGAL
53	Long (i.e. buy protection) USD 1 MLN CDS on ITALY
54	Short (i.e. sell protection) USD 1 MLN CDS on SPAIN
55	Long (i.e. buy protection) USD 1 MLN CDS on MEXICO
56	Long (i.e. buy protection) USD 1 MLN CDS on BRAZIL
57	Long (i.e. buy protection) USD 1 MLN CDS on UK
58	Short (i.e. sell protection) EUR 1 MLN CDS on AXA (Ticker CS FP)
59	Long (i.e. buy protection) EUR 1 MLN CDS on AXA (Ticker CS FP)
60	Short (i.e. sell protection) EUR 1 MLN CDS on Aviva (Ticker AV LN)
61	Long (i.e. buy protection) EUR 1 MLN CDS on Aviva (Ticker AV LN)
62	Short (i.e. sell protection) EUR 1 MLN CDS on Vodafone (Ticker VOD LN)
63	Short (i.e. sell protection) EUR 1 MLN CDS on ENI SpA (Ticker ENI IM)
64	Short (i.e. sell protection) USD 1 MLN CDS on Eli Lilly (Ticker LLY US)
65	Short (i.e. sell protection) EUR 1 MLN CDS on Unilever (Ticker UNA NA)
66	Long (i.e. buy protection) EUR 1 MLN CDS on Total SA (Ticker FP FP)
67	Long (i.e. buy protection) EUR 1 MLN CDS on Volkswagen Group (Ticker VOW GR)
68	Long position on TURKEY govt. notes USD 1 MLN (ISIN US900123CF53)
69	Long (i.e. buy protection) USD 1 MLN CDS on TURKEY, effective date as per booking date
70	Long position on AXA notes EUR 1 MLN (ISIN FR0011524248)
71	Long position on Volkswagen Group notes EUR 1 MLN (ISIN XS1586555861)
72	Short position Volkswagen Group notes EUR 1 MLN (ISIN XS1586555606)
73	Long position on Total SA notes EUR 1 MLN (ISIN XS0830194501)

#### CTP

74	Short position in spread-hedged super senior tranche of iTraxx Europe index on-the-run series
75	Long (i.e. buy protection) USD 1 MLN first to default basket swap on {Brazil, Mexico and Turkey}

**Individual portfolio**      **Combination of instruments:**

1	1 – 1,000 instruments
2	3 – 1,000 instruments; 4 – 1,000 instruments; 5 – 1,000 instruments
3	13 – 100 instruments; 10 – 100 instruments
4	15 – 100 instruments; 16 – 100 instruments
5	17 – 1000 instruments
6	9 – 500 instruments; 10 – 500 instruments
7	18 – 1 instrument
8	11 – 1000 instruments; 12 – 1000 instruments
9	2 – 1 instruments; 14 – 100 instruments
10	6 – 1,000 instruments; 7 – 1,000 instruments; 8 – 1,000 instruments
11	19 – 1 instrument
12	20 – 1 instrument
13	21 – 1 instrument
14	22 – 1 instrument
15	23 – 1 instrument
16	24 – 1 instrument; 25 – 1 instrument
17	24 – 1 instrument; 25 – 1 instrument; 26 – 1 instrument
18	24 – 1 instrument ; 25 – 1 instrument ; 26 – 1 instrument ; 27 – 1 instrument ; 28 – 1 instrument; 29 – 1 instrument ; 30 – 1 instrument
19	19 – 1 instrument; 36 – 1 instrument
20	19 – 1 instrument; 37 – 1 instrument
21	36 – 1 instrument; 37 – 1 instrument
22	19 – 1 instrument; 20 – 1 instrument
23	31 – 1 instrument
24	33 – 1 instrument; 34 – 1 instrument; 35 – 1 instrument
25	21 – 1 instrument; 33 – 1 instrument
26	26 – 1 instrument; 27 – 1 instrument; 28 – 1 instrument; 32 – 1 instrument
27	38 – 1 instrument; 39 – 1 instrument
28	40 – 1 instrument; 41 – 1 instrument
29	41 – 1 instrument; 42 – 1 instrument; 43 – 1 instrument
30	44 – 1 instrument; 45 – 1 instrument
31	46 – 1 instrument
32	47 – 1 instrument
33	48 – 1 instrument; 49 – 1 instrument
34	50 – 1 instrument; 51 – 1 instrument
35	48 – 1 instrument; 51 – 1 instrument
36	52 – 1 instrument; 53 – 1 instrument; 54 – 1 instrument
37	55 – 1 instrument; 56 – 1 instrument
38	58 – 1 instrument; 59 – 1 instrument
39	54 – 1 instrument; 55 – 1 instrument
40	60 – 1 instrument; 61 – 1 instrument
41	62 – 1 instrument ; 63 – 1 instrument ; 65 – 1 instrument ; 66 – 1 instrument ; 67 – 1 instrument
42	68 – 1 instrument; 69 – 1 instrument
43	70 – 1 instrument; 71 – 1 instrument; 73 – 1 instrument
44	71 – 1 instrument; 72 – 1 instrument
45	70 – 1 instrument; 59 – 1 instrument
46	66 – 1 instrument; 73 – 1 instrument
47	64 – 1 instrument
48	71 – 1 instrument; 72 – 1 instrument; 67 – 1 instrument

<b>49</b>	57 – 1 instrument; 54 – 1 instrument
<b>50</b>	53 – 1 instrument; 27 – 1 instrument
<b>51</b>	55 – 5 instruments; 35 – 1 instrument
<b>52</b>	56 – 5 instruments; 34 – 1 instrument
<b>53</b>	55 – 5 instruments; 35 – 1 instrument; 56 – 5 instruments; 34 – 1 instrument
<b>54</b>	74 – 1 instrument
<b>55</b>	75 – 1 instrument
<b>56</b>	75 – 5 instruments; 68 – 5 instruments; 34 – 1 instrument; 35 – 1 instrument
<b>Aggregated portfolio</b>	Combination of individual portfolios:
<b>57 ALL-IN no-CTP</b>	1, 2, 6, 7, 9, 11, 12, 18, 21, 27, 28, 30, 31, 32, 33, 34, 38, 41, 43
<b>58 EQUITY Cumulative</b>	1, 2, 6, 7, 9
<b>59 IR Cumulative</b>	11, 12, 18, 21
<b>60 FX Cumulative</b>	27, 28, 30, 31, 32

For a detailed description of the portfolios, please refer to the EBA website:

<https://www.eba.europa.eu/regulation-and-policy/supervisory-benchmarking-exercises/its-package-2021-benchmarking-exercise>

Adopted as:

Commission Implementing Regulation (EU) 2021/1971 of 13 September 2021 amending Implementing Regulation (EU) 2016/2070 laying down implementing technical standards for templates, definitions and IT solutions to be used by institutions when reporting to the European Banking Authority and to competent authorities in accordance with Article 78(2) of Directive 2013/36/EU of the European Parliament and of the Council (text with EEA relevance)

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32021R1971&qid=1638961385624>

Table 20: VaR cluster analysis – number of banks by range

2021 VaR cluster analysis: number of banks by range

(X = ratio with the median)

100

	Port. ID	300% < X	300% ≥ X >200%	200% ≥ X >150%	150% ≥ X >100%	100% ≥ X >50%	50% ≥ X >0	Num obs.
Equity	1				14	16		30
	2				11	14		25
	3				13	13		26
	4				10	10	4	24
	5				8	14		22
	6			1	11	12	3	27
	7		3	5	2	9	4	23
	8		1	3	7	10	4	25
	9				15	14	1	30
	10			2	9	14		25
Interest Rate	11				20	19		39
	12				16	18		34
	13				17	17		34
	14				20	18		38
	15		1	1	2	7		11
	16				19	19		38
	17			7	8	16	1	32
	18			6	10	13	4	33
	19				18	18		36
	20				17	17		34
	21				19	17		36
	22			1	13	18		32
	23				16	19		35
	24			7	7	7	8	29
	25		1	3	13	19		36
	26			5	9	15	2	31
FX	27				15	17		32
	28			3	11	12	3	29
	29				14	16		30
	30				15	14		29
	31				13	16		29
	32				14	3	12	29
Commodity	33		3	3	4	3	13	
	34				5	6		11
	35				5	6		11
CTP	36			1	8	9	2	20
	37			5	3	8	1	17
	38			4	4	9	2	19
	39			4	5	6	3	18
	40			4	4	11		19
	41			6	3	9	2	20
	42			4	3	8	1	16
	43				6	9	2	17
	44		1	3	4	9	2	19
	45		1	2	5	5	5	18
	46			4	5	4	6	19
	47		1	3	4	10		18
	48			2	8	7	1	18
	49			2	6	9	1	18
	50			2	7	10	1	20
	51		1	1	5	6	3	16
	52		1	2	4	6	3	16
	53		2	2	3	6	2	15
CTP	54							0
	55							0
	56							0
ALL-IN no-CTP	57				6	6		12
Equity Cumulative	58				10	9		19
IR Cumulative	59				15	14		29
FX Cumulative	60				12	14		26
Commodity Cumulative	61				5	5		10
CS Cumulative	62			2	6	9	1	18
CTP Cumulative	63							0











Table 25: sVaR/VaR statistics

EU Statistics for sVaR/VaR

Port. ID	Main statistics								Percentiles				
	Min	Max	Ave.	STDev	STDev_trunc <sup>1</sup>	MAD (median absolute deviation)	Coefficient of variation (STDev/Mean)	Num obs. <sup>2</sup>	25th	50th	75th	IQR	
Equity	1	0.61	1.69	1.12	0.26			24%	26	0.95	1.12	1.25	14%
	2	0.49	2.49	1.38	0.55			40%	24	1.06	1.34	1.65	22%
	3	0.39	1.59	1.03	0.31			30%	25	0.81	1.05	1.30	23%
	4	0.57	2.13	1.08	0.36			33%	23	0.77	1.07	1.22	23%
	5	0.57	2.22	1.49	0.47			32%	22	1.31	1.58	1.80	16%
	6	0.58	2.53	1.23	0.47			38%	24	0.91	1.11	1.44	22%
	7	0.25	3.24	1.05	0.61			58%	21	0.72	0.94	1.28	28%
	8	0.40	1.54	0.78	0.25			32%	22	0.59	0.75	0.90	21%
	9	0.40	1.65	0.94	0.29			31%	29	0.77	0.92	1.14	19%
	10	0.56	2.31	1.55	0.45			29%	25	1.26	1.61	1.91	20%
Interest Rate	11	0.43	3.88	1.92	0.95			49%	38	1.17	1.73	2.77	40%
	12	0.29	3.48	1.65	0.88			53%	32	0.99	1.60	2.33	40%
	13	0.69	3.96	2.21	0.96			43%	33	1.24	2.54	3.07	43%
	14	0.52	5.97	2.75	1.56			57%	38	1.28	2.76	3.88	50%
	15	0.74	4.58	2.45	1.37			56%	11	1.36	2.06	3.73	46%
	16	0.57	2.36	1.37	0.44			32%	33	1.08	1.31	1.72	23%
	17	0.39	2.51	1.03	0.42			41%	30	0.75	0.99	1.24	24%
	18	0.31	2.02	0.82	0.50			61%	29	0.45	0.63	0.99	38%
	19	0.69	2.90	1.66	0.62			37%	33	1.12	1.76	2.14	31%
	20	0.02	11.63	2.15	2.05			95%	28	1.21	1.88	2.13	28%
	21	0.73	3.23	1.74	0.74			42%	35	1.10	1.80	2.35	36%
	22	0.49	4.69	2.54	1.21			48%	31	1.38	2.37	3.47	43%
	23	0.33	2.62	1.50	0.51			34%	33	1.19	1.43	1.81	20%
	24	0.30	6.45	1.62	1.21			74%	27	0.88	1.31	2.09	41%
	25	0.78	9.41	2.87	2.02			70%	35	1.21	2.26	3.51	49%
	26	0.42	2.79	1.02	0.58			57%	27	0.64	0.87	1.16	29%
FX	27	0.50	1.96	1.28	0.35			27%	30	1.11	1.30	1.48	14%
	28	0.40	2.24	0.84	0.42			49%	26	0.58	0.70	0.96	25%
	29	0.98	3.14	2.01	0.54			27%	27	1.49	2.13	2.32	22%
	30	1.21	3.95	2.19	0.57			26%	27	1.75	2.31	2.54	18%
	31	0.79	3.28	2.03	0.59			29%	27	1.77	2.10	2.38	15%
	32	0.84	12.07	2.91	2.14			74%	28	2.12	2.46	3.21	20%
Commodity	33	0.51	5.48	1.49	1.32			89%	12	0.59	1.05	1.70	49%
	34	0.24	1.03	0.59	0.22			36%	11	0.48	0.51	0.66	16%
	35	1.05	2.10	1.36	0.31			23%	10	1.11	1.33	1.43	13%
Credit Spread	36	0.48	1.48	0.82	0.30			36%	17	0.58	0.73	1.00	26%
	37	0.33	2.18	1.26	0.49			39%	16	1.07	1.31	1.61	20%
	38	0.85	4.57	1.66	0.91			55%	17	1.13	1.39	1.59	17%
	39	0.52	2.75	1.30	0.47			36%	17	1.04	1.18	1.41	15%
	40	0.66	4.58	2.11	1.00			48%	19	1.46	1.95	2.11	18%
	41	0.33	6.99	2.02	1.47			73%	19	1.26	1.50	2.13	26%
	42	0.53	4.39	1.68	0.97			58%	14	1.10	1.33	2.23	34%
	43	0.56	5.20	1.74	1.20			69%	17	0.82	1.49	2.12	44%
	44	0.25	3.75	1.73	1.02			59%	18	0.74	1.78	2.49	54%
	45	0.74	13.95	2.31	2.99			129%	17	1.02	1.39	2.17	36%
	46	0.31	2.45	1.19	0.64			54%	16	0.76	0.96	1.71	39%
	47	0.79	5.24	2.22	1.13			51%	18	1.56	1.83	3.14	34%
	48	0.36	2.57	1.51	0.65			43%	17	1.14	1.44	1.94	26%
	49	0.45	1.93	0.98	0.41			42%	15	0.63	0.85	1.19	31%
	50	0.46	1.82	0.95	0.31			33%	18	0.79	0.91	1.11	17%
	51	0.41	2.37	1.29	0.51			39%	15	0.88	1.32	1.60	29%
	52	0.53	2.90	1.54	0.64			42%	15	1.16	1.29	2.08	28%
	53	0.41	2.92	1.58	0.61			39%	14	1.17	1.52	2.00	26%
Correlation Trading	54								3				
	55								2				
	56								2				
ALL-IN no-CTP **	57	1.27	2.92	1.94	0.43			22%	12	1.66	1.90	2.21	14%
Equity Cumulative **	58	0.69	2.54	1.63	0.56			35%	18	1.12	1.84	1.96	27%
IR Cumulative **	59	0.41	2.32	1.02	0.40			39%	25	0.76	1.01	1.21	23%
FX Cumulative **	60	1.18	3.08	2.18	0.57			26%	22	1.92	2.29	2.55	14%
Commodity Cumulative **	61	0.41	0.98	0.61	0.18			29%	10	0.50	0.54	0.66	14%
CS Cumulative **	62	0.58	5.41	1.46	1.09			75%	16	0.91	1.21	1.62	28%
CTP Cumulative **	63								2				

<sup>1</sup> STDev trunc is the standard deviation computed excluding values below the 5th and above the 95th percentile

<sup>2</sup> Refers to the number of banks included in the computation of the statistics

\*\* For the aggregated portfolios (57 to 63), banks that reported at least a missing portfolio IMV among the ones composing the aggregate are not included in the computation of the benchmarks for that particular aggregate portfolio.

Table 26: P&L VaR/VaR statistics

EU Statistics for P&L VaR/VaR

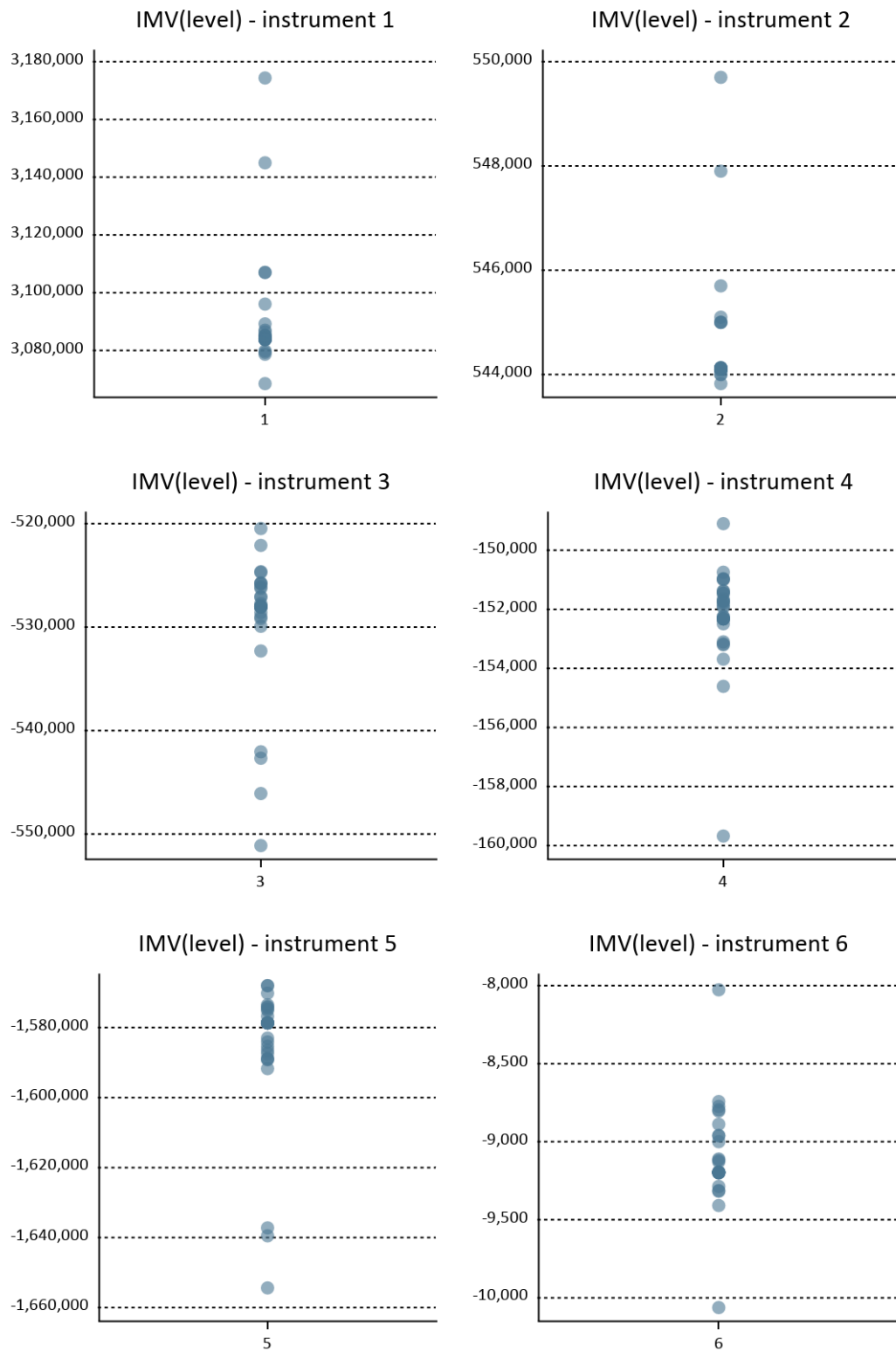
Part. ID	Main statistics								Percentiles			
	Min	Max	Ave.	STDev	STDev_trunc <sup>1</sup>	MAD (median absolute deviation)	Coefficient of variation (STDev/Mean)	Num obs. <sup>2</sup>	25th	50th	75th	
Equity	1	0.33	1.73	1.09	0.33			30%	21	0.99	1.12	1.27
	2	0.34	1.66	0.96	0.31			32%	18	0.80	1.06	1.10
	3	0.35	1.34	1.00	0.28			28%	20	0.90	1.09	1.17
	4	0.34	1.84	0.95	0.47			49%	18	0.53	0.90	1.34
	5	0.33	101.26	7.25	24.28			335%	16	0.79	1.05	1.22
	6	0.24	1.17	0.70	0.29			41%	19	0.47	0.75	0.92
	7	0.27	2.00	1.02	0.41			41%	17	0.85	1.03	1.15
	8	0.17	22.29	1.92	4.81			250%	19	0.61	0.95	1.04
	9	0.33	1.38	1.01	0.29			29%	22	0.91	1.07	1.21
	10	0.34	1.43	1.00	0.25			25%	20	0.96	1.07	1.07
Interest Rate	11	0.32	1.69	1.02	0.27			27%	28	0.99	1.06	1.10
	12	0.35	1.59	1.04	0.26			25%	24	1.01	1.08	1.11
	13	0.32	1.42	0.97	0.26			27%	23	0.92	1.03	1.06
	14	0.32	2.13	1.19	0.47			39%	26	0.99	1.12	1.58
	15	0.32	1.21	0.96	0.25			26%	9	0.88	1.03	1.11
	16	0.32	1.42	1.05	0.28			27%	27	0.98	1.06	1.26
	17	0.32	2.33	1.10	0.41			37%	23	0.92	1.15	1.28
	18	0.32	1.47	1.00	0.26			26%	24	0.96	1.04	1.10
	19	0.32	1.10	0.93	0.19			21%	26	0.93	1.00	1.03
	20	0.32	1.53	0.97	0.25			26%	25	0.93	1.01	1.09
	21	0.32	1.08	0.93	0.20			22%	26	0.94	1.01	1.05
	22	0.31	1.64	1.07	0.29			27%	23	0.97	1.02	1.26
	23	0.34	1.13	0.95	0.21			22%	25	0.87	1.04	1.08
	24	0.34	1.30	0.95	0.25			26%	21	0.87	1.01	1.09
	25	0.32	1.55	0.96	0.29			30%	26	0.86	1.02	1.12
	26	0.32	1.93	1.03	0.31			30%	22	1.00	1.06	1.14
FX	27	0.33	1.37	0.98	0.23			24%	25	0.93	1.02	1.11
	28	0.34	1.28	0.87	0.26			30%	21	0.71	0.88	1.08
	29	0.35	1.75	1.05	0.34			32%	22	0.99	1.09	1.19
	30	0.33	1.17	0.95	0.22			23%	22	0.98	1.02	1.06
	31	0.32	1.21	0.95	0.25			27%	21	0.82	1.05	1.13
	32	0.32	2.26	1.06	0.31			30%	23	0.99	1.05	1.10
Commodity	33	0.33	1.58	0.88	0.36			41%	11	0.67	1.00	1.07
	34	0.33	1.09	0.85	0.26			31%	9	0.75	0.96	1.02
	35	0.32	1.36	0.98	0.28			28%	9	1.01	1.04	1.06
Credit Spread	36	0.34	1.68	1.12	0.28			25%	17	1.04	1.07	1.35
	37	0.32	1.13	0.89	0.24			27%	15	0.69	1.02	1.09
	38	0.32	1.59	1.12	0.31			27%	16	1.01	1.18	1.31
	39	0.34	1.05	0.85	0.22			26%	16	0.62	1.00	1.01
	40	0.32	1.92	1.20	0.38			31%	16	1.06	1.19	1.45
	41	0.33	1.82	1.09	0.31			28%	17	1.00	1.04	1.15
	42	0.33	1.18	0.98	0.21			22%	14	0.98	1.03	1.11
	43	0.32	1.30	1.00	0.23			23%	14	1.00	1.05	1.14
	44	0.32	2.96	1.25	0.62			49%	16	1.01	1.11	1.21
	45	0.33	1.65	1.02	0.28			28%	15	1.00	1.01	1.06
	46	0.33	2.18	1.06	0.35			33%	16	0.99	1.02	1.09
	47	0.32	2.38	1.19	0.51			43%	15	1.01	1.05	1.19
	48	0.33	1.89	1.04	0.33			31%	15	1.01	1.05	1.13
	49	0.67	1.99	1.15	0.31			27%	15	1.01	1.04	1.27
	50	0.32	1.33	0.99	0.27			27%	18	0.80	1.05	1.20
	51	0.32	1.61	0.92	0.34			37%	14	0.67	1.00	1.15
	52	0.34	2.04	0.93	0.40			43%	14	0.67	0.98	1.07
	53	0.33	1.91	0.97	0.46			48%	13	0.60	0.96	1.12
Correlation Trading	54								2			
	55								1			
	56								1			
ALL-IN no-CTP **	57	0.32	1.35	0.96	0.29			30%	10	0.94	1.06	1.11
Equity Cumulative **	58	0.32	1.10	0.93	0.24			26%	15	0.98	1.04	1.05
IR Cumulative **	59	0.33	1.45	1.01	0.26			26%	23	0.94	1.02	1.18
FX Cumulative **	60	0.33	1.15	0.96	0.18			19%	20	0.91	1.02	1.05
Commodity Cumulative **	61	0.32	1.09	0.82	0.26			32%	8	0.69	0.94	1.02
CS Cumulative **	62	0.35	1.74	1.11	0.30			27%	15	1.02	1.03	1.26
CTP Cumulative **	63								1			

<sup>1</sup> STDev trunc is the standard deviation computed excluding values below the 5th and above the 95th percentile

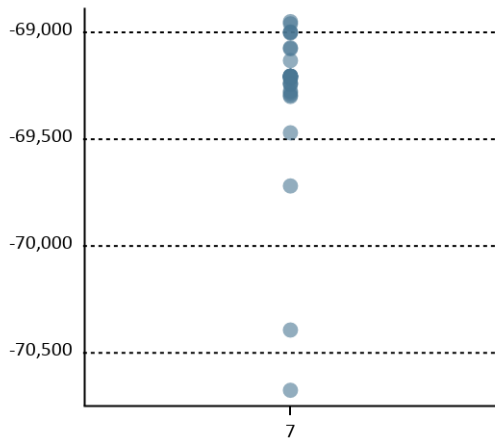
<sup>2</sup> Refers to the number of banks included in the computation of the statistics

\*\* For the aggregated portfolios (57 to 63), banks that reported at least a missing portfolio IMV among the ones composing the aggregate are not included in the computation of the benchmarks for that particular aggregate portfolio.

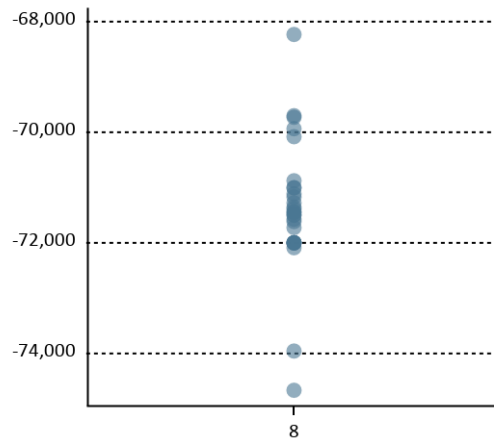
Figure 17: IMV scatter plots (all)



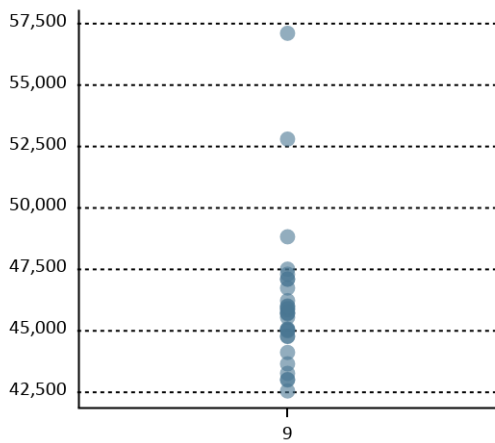
IMV(level) - instrument 7



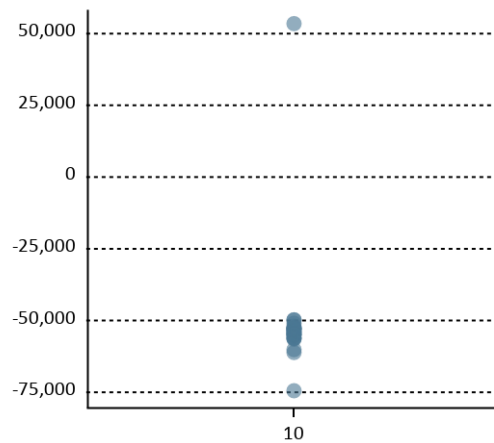
IMV(level) - instrument 8



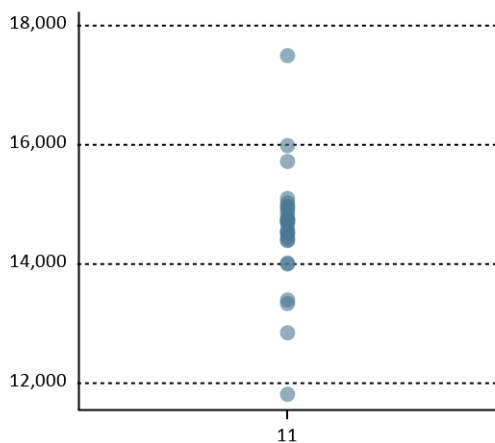
IMV(level) - instrument 9



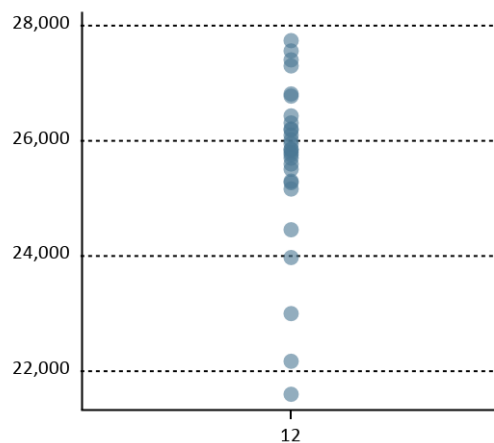
IMV(level) - instrument 10



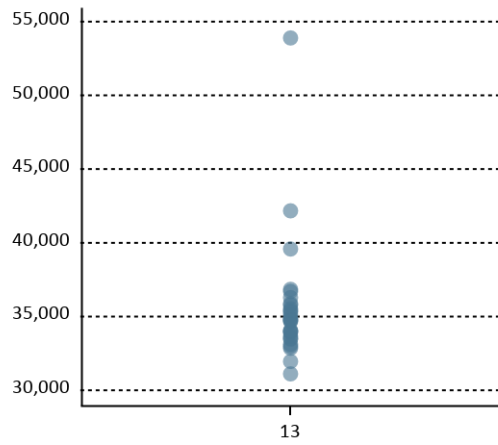
IMV(level) - instrument 11



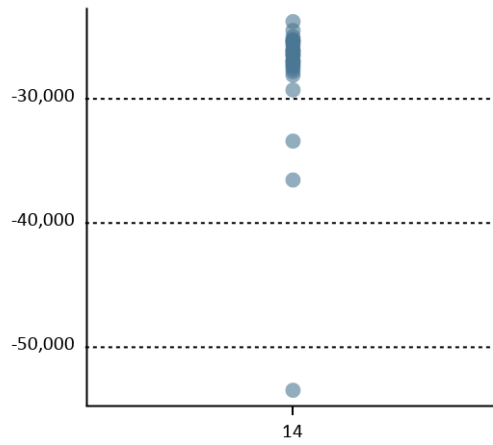
IMV(level) - instrument 12



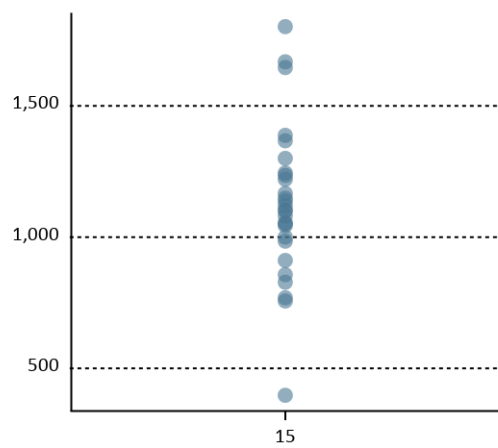
IMV(level) - instrument 13



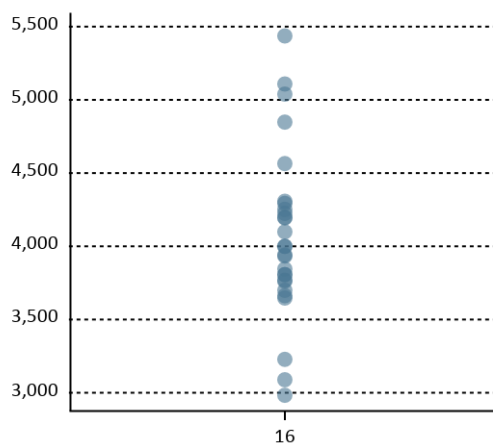
IMV(level) - instrument 14



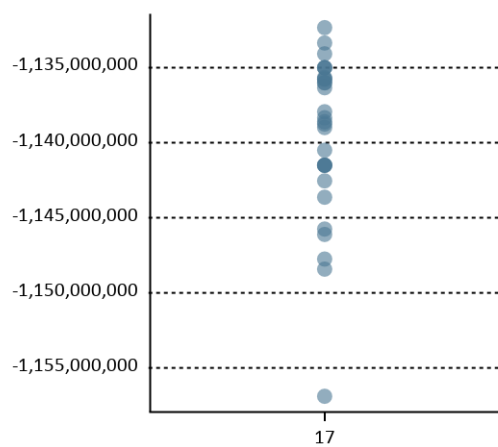
IMV(level) - instrument 15



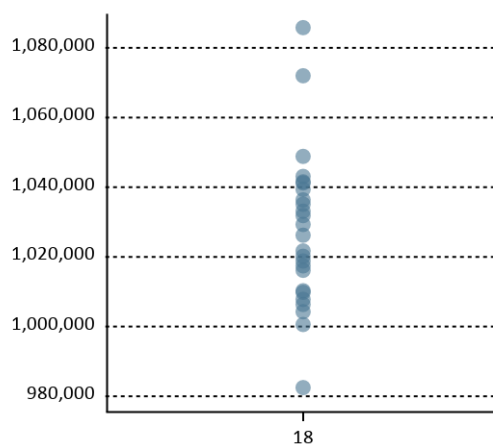
IMV(level) - instrument 16



IMV(level) - instrument 17

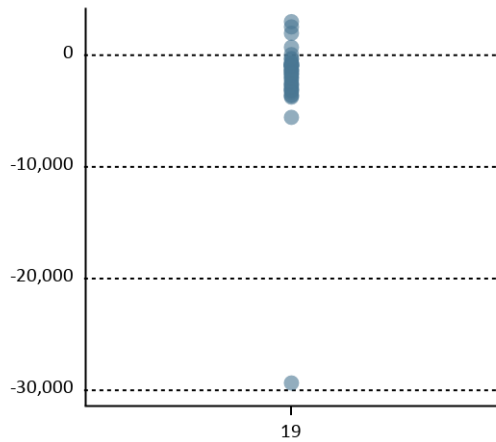


IMV(level) - instrument 18

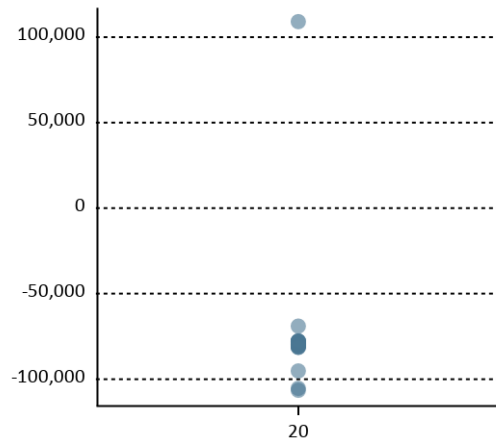




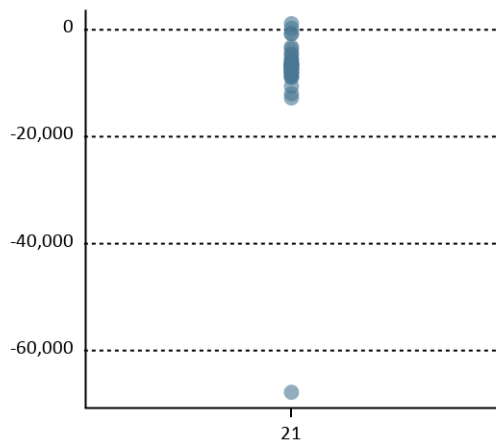
IMV(level) - instrument 19



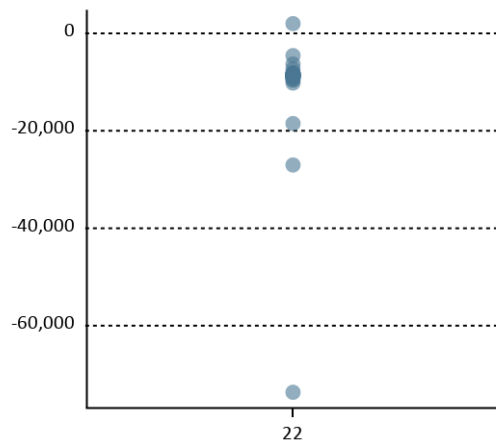
IMV(level) - instrument 20



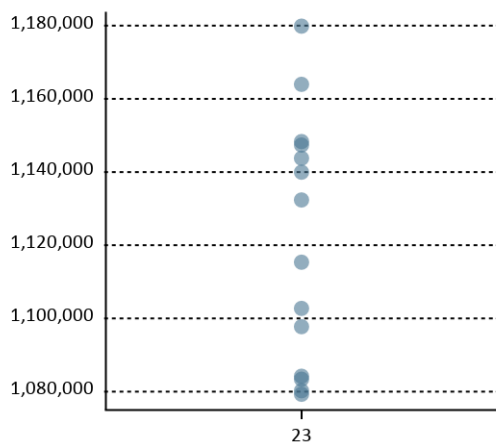
IMV(level) - instrument 21



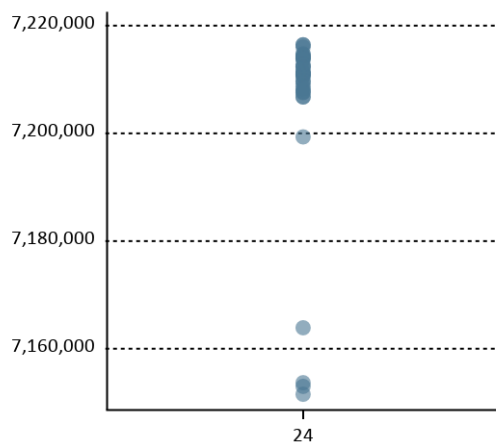
IMV(level) - instrument 22



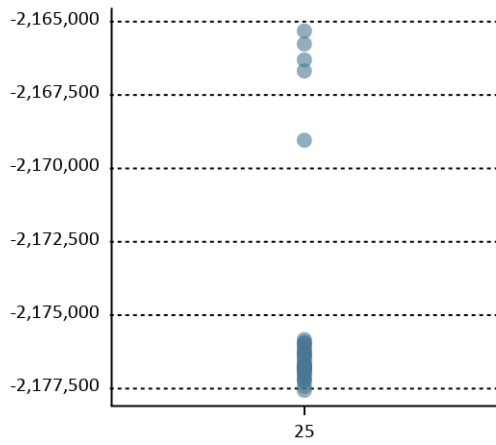
IMV(level) - instrument 23



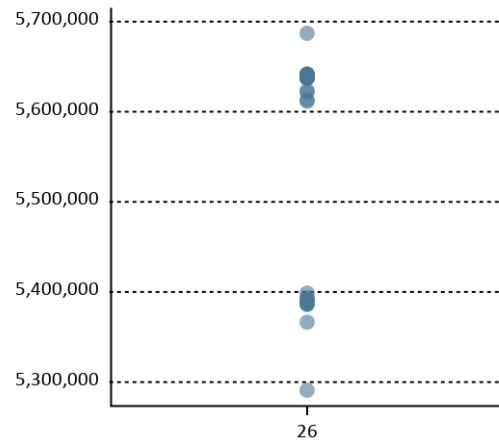
IMV(level) - instrument 24



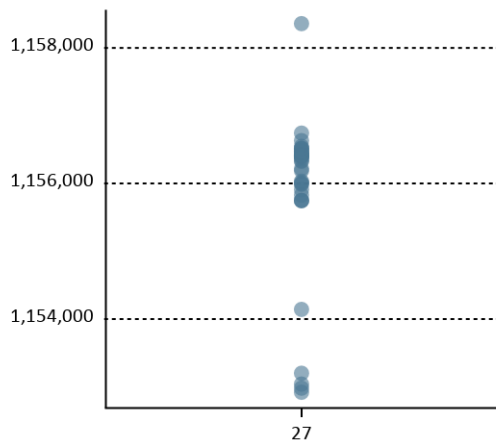
IMV(level) - instrument 25



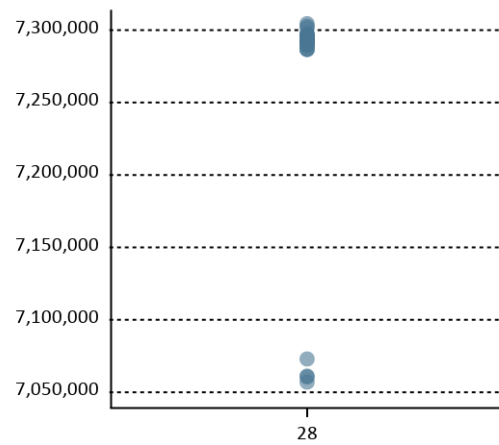
IMV(level) - instrument 26



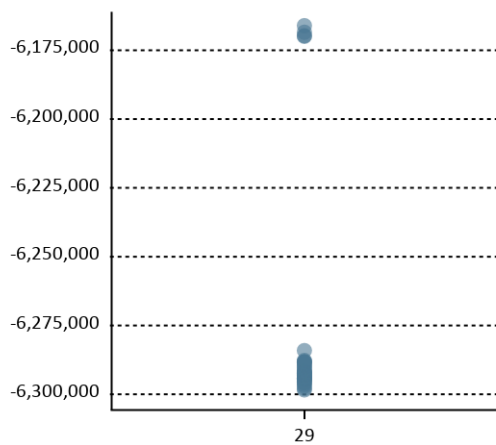
IMV(level) - instrument 27



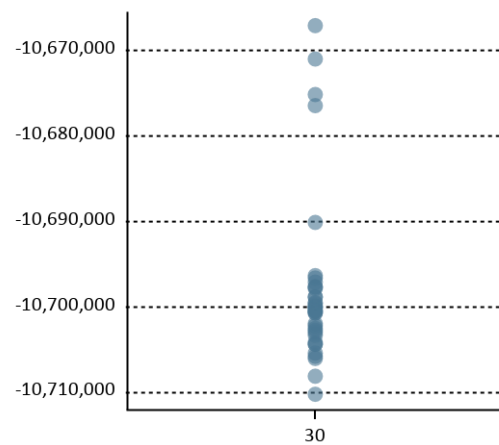
IMV(level) - instrument 28



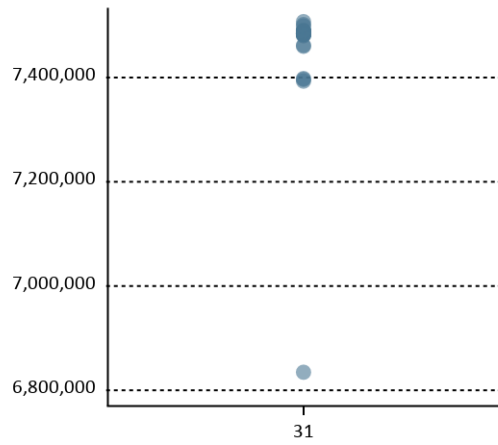
IMV(level) - instrument 29



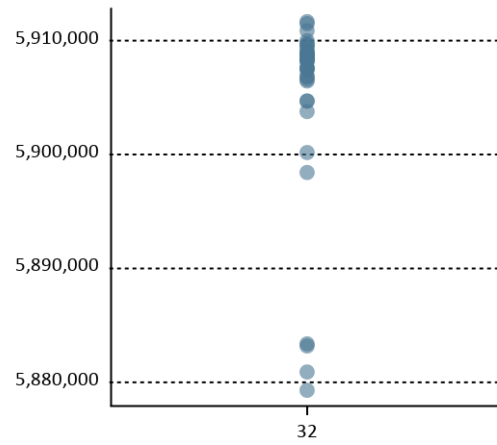
IMV(level) - instrument 30



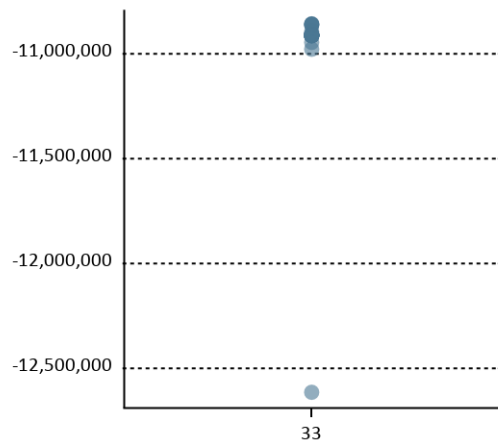
IMV(level) - instrument 31



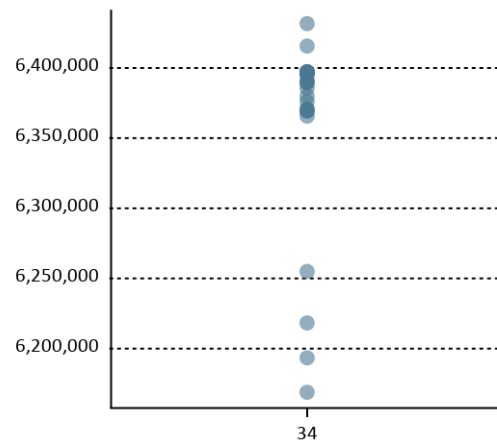
IMV(level) - instrument 32



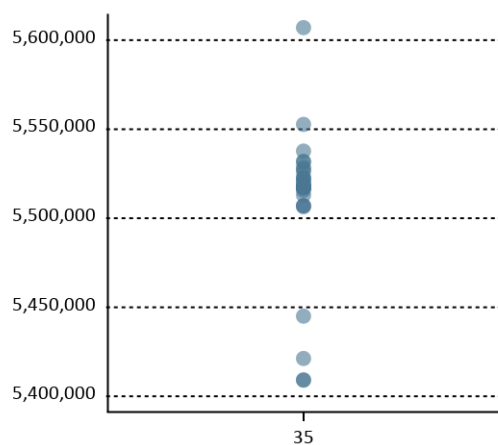
IMV(level) - instrument 33



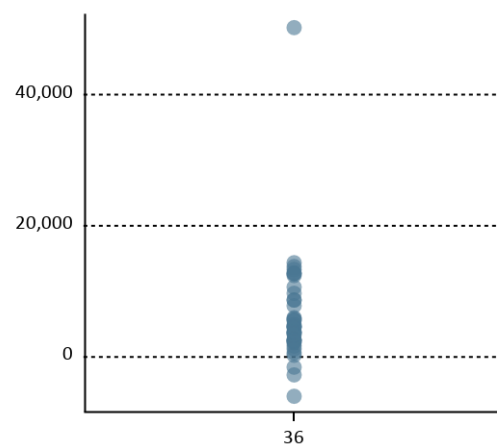
IMV(level) - instrument 34



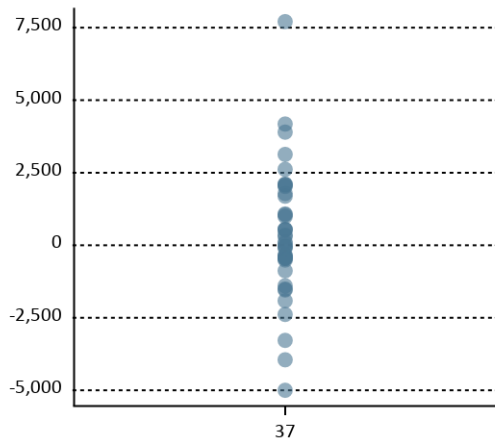
IMV(level) - instrument 35



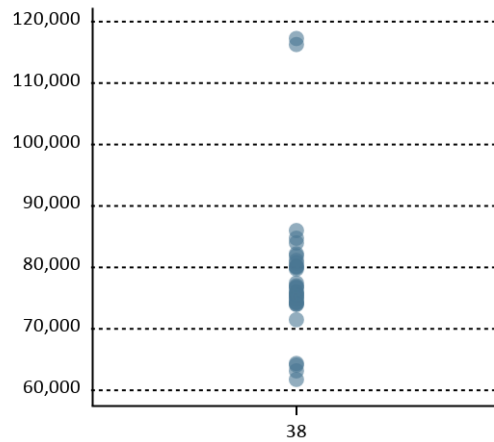
IMV(level) - instrument 36



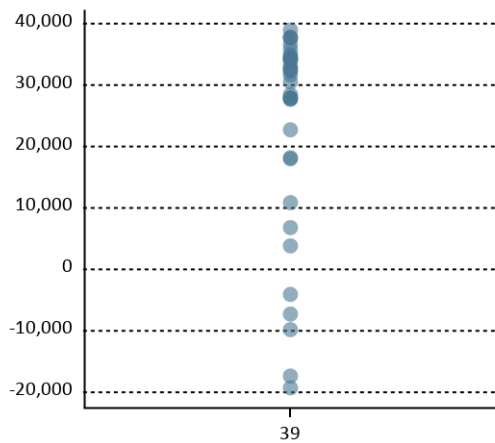
IMV(level) - instrument 37



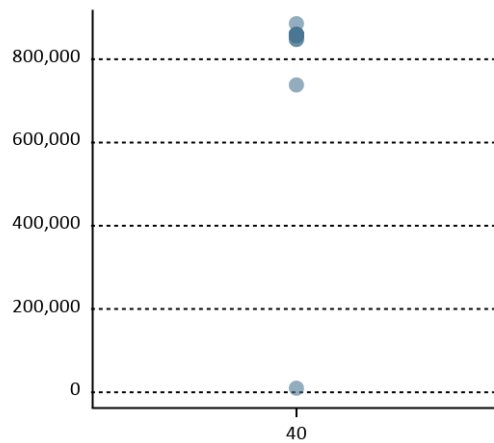
IMV(level) - instrument 38



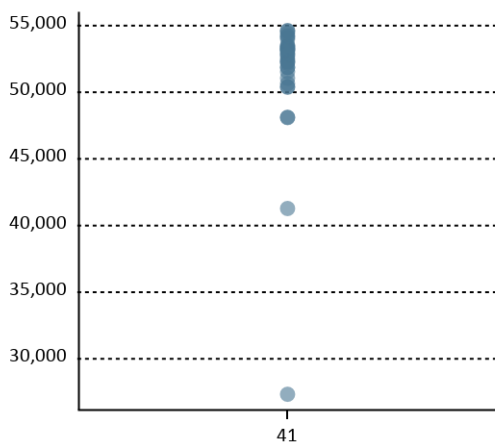
IMV(level) - instrument 39



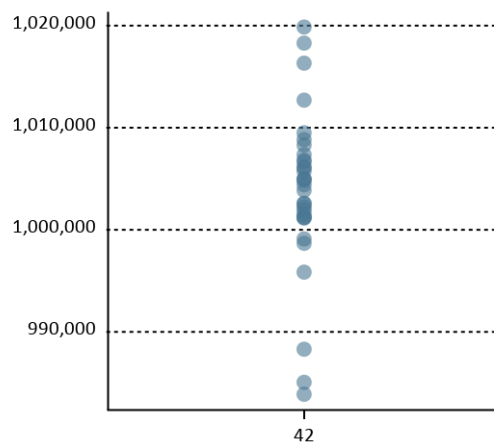
IMV(level) - instrument 40



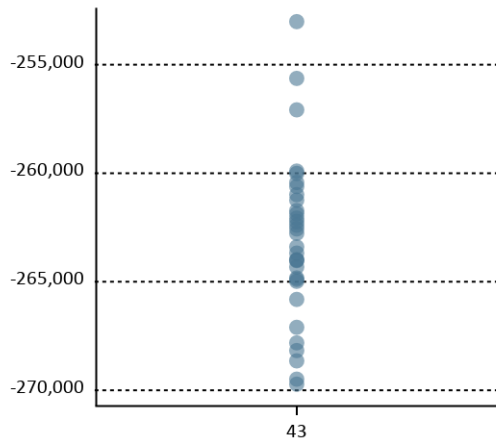
IMV(level) - instrument 41



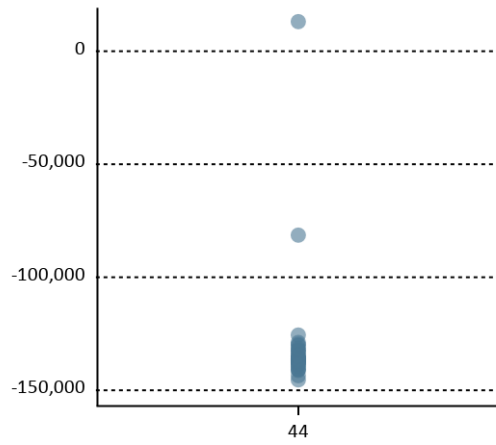
IMV(level) - instrument 42



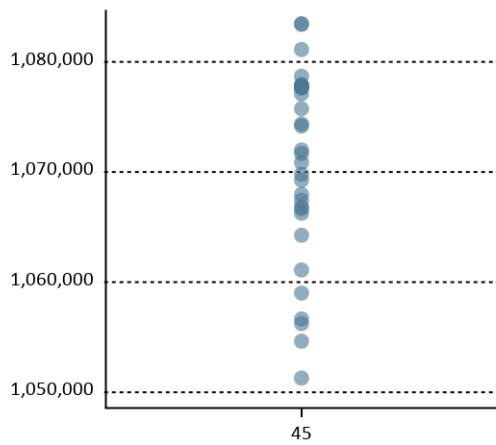
IMV(level) - instrument 43



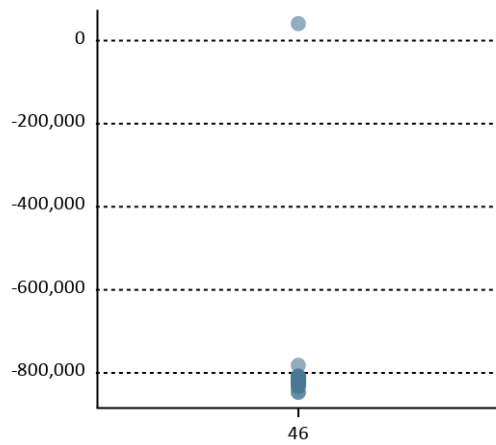
IMV(level) - instrument 44



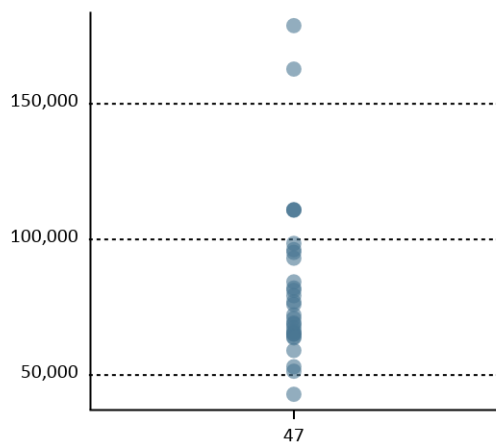
IMV(level) - instrument 45



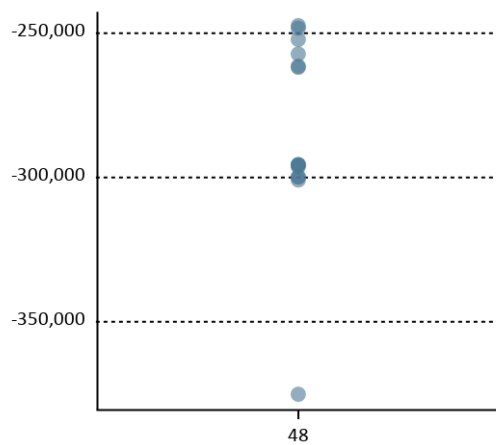
IMV(level) - instrument 46



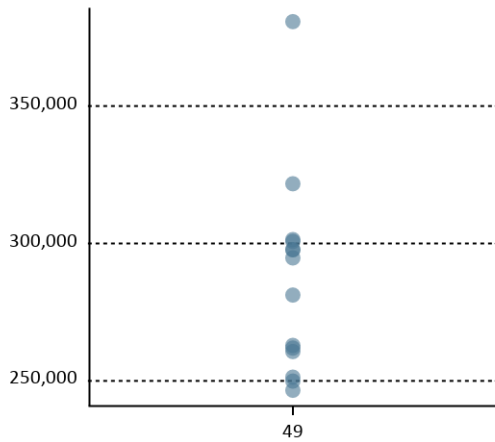
IMV(level) - instrument 47



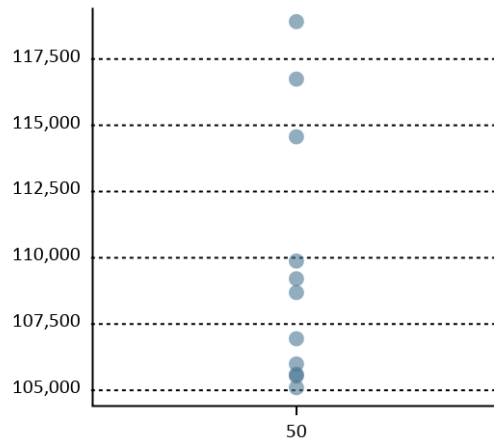
IMV(level) - instrument 48



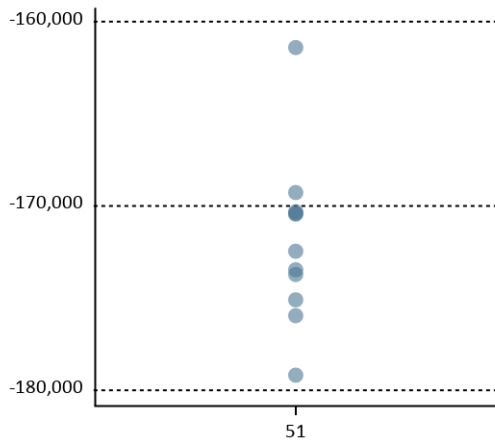
IMV(level) - instrument 49



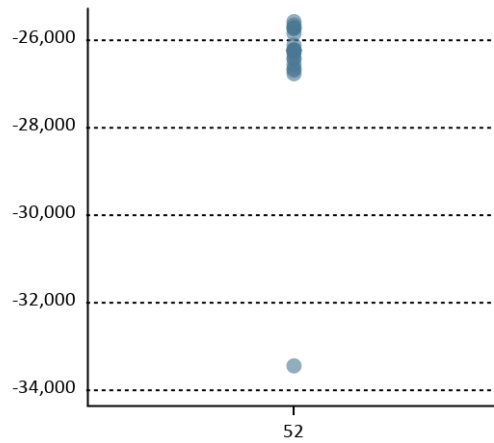
IMV(level) - instrument 50



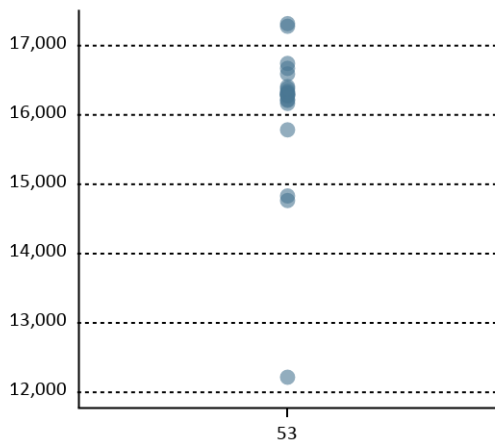
IMV(level) - instrument 51



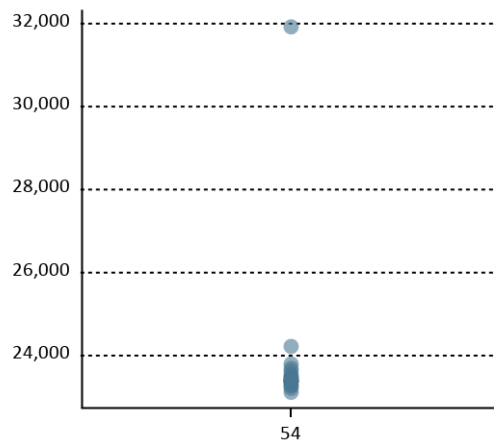
IMV(level) - instrument 52



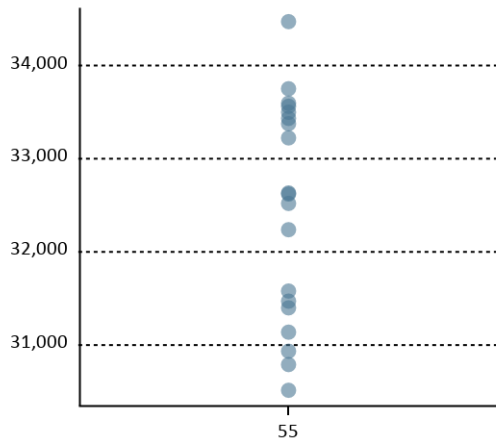
IMV(level) - instrument 53



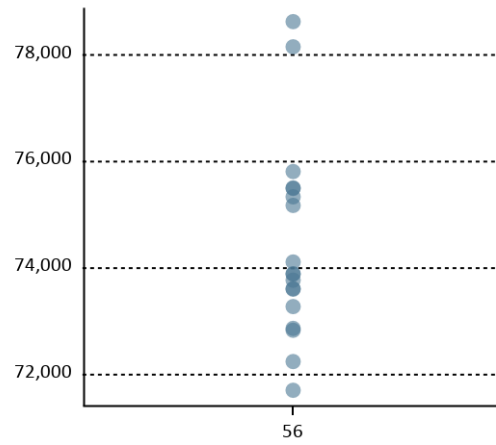
IMV(level) - instrument 54



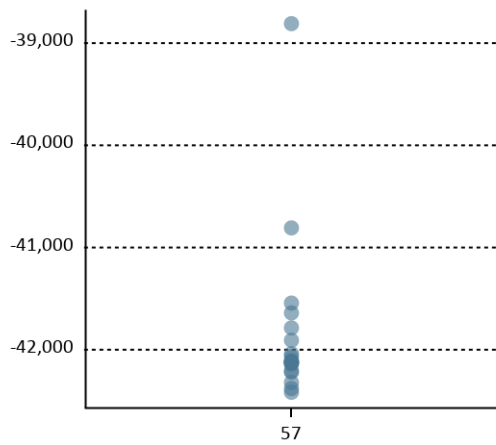
IMV(level) - instrument 55



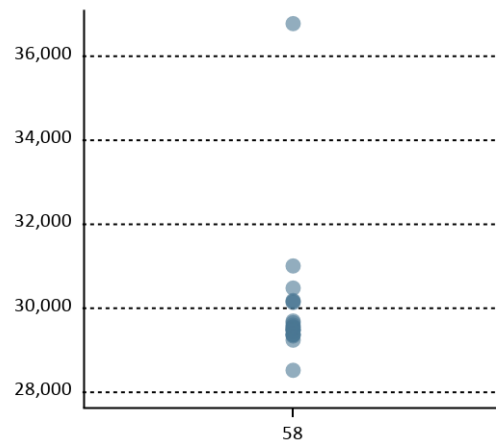
IMV(level) - instrument 56



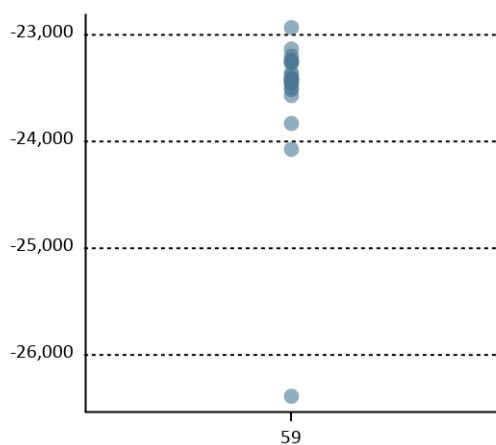
IMV(level) - instrument 57



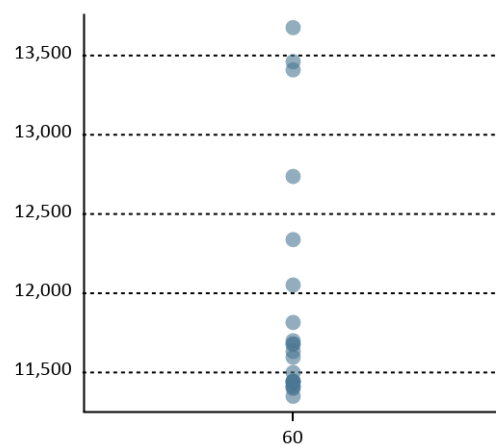
IMV(level) - instrument 58



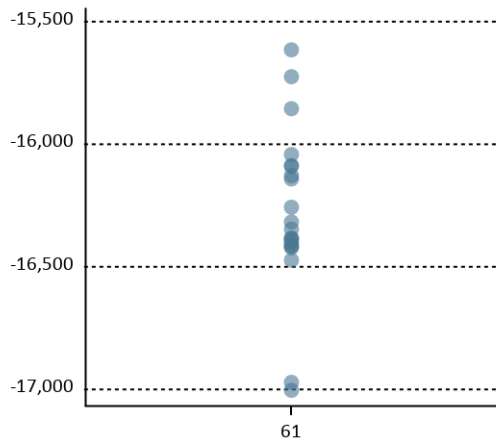
IMV(level) - instrument 59



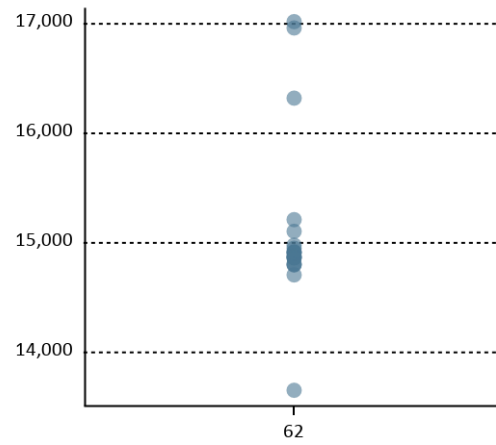
IMV(level) - instrument 60



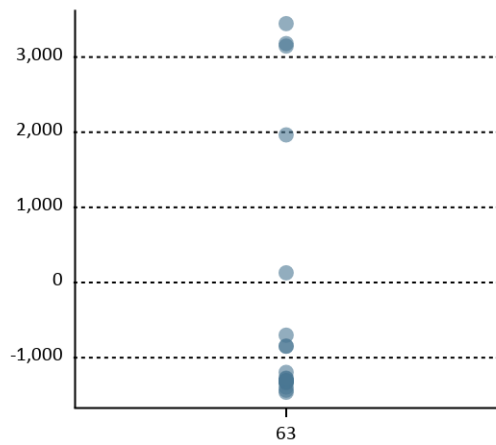
IMV(level) - instrument 61



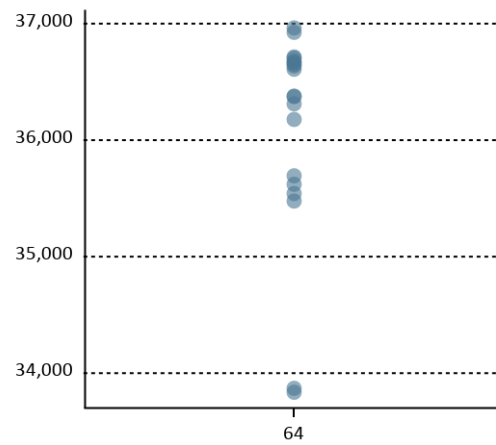
IMV(level) - instrument 62



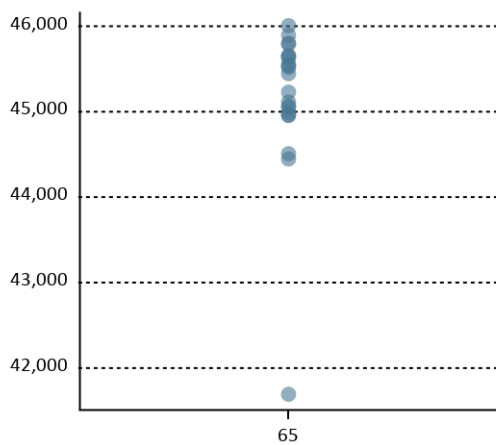
IMV(level) - instrument 63



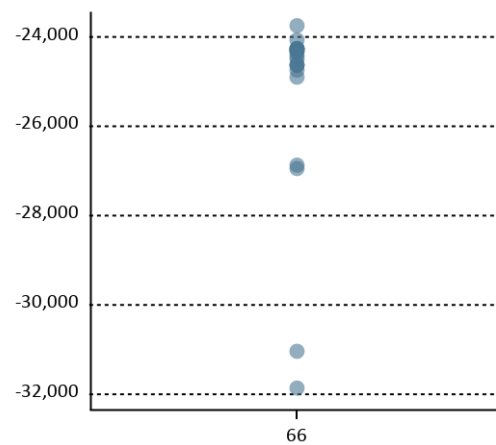
IMV(level) - instrument 64



IMV(level) - instrument 65

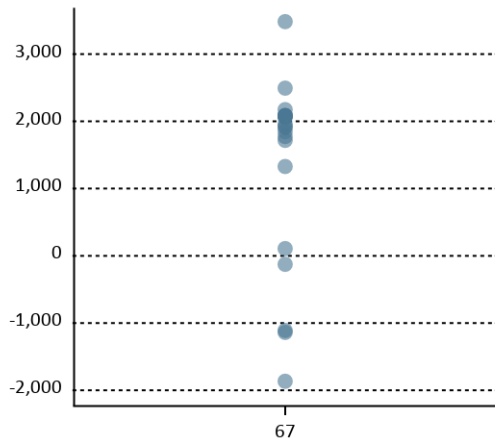


IMV(level) - instrument 66

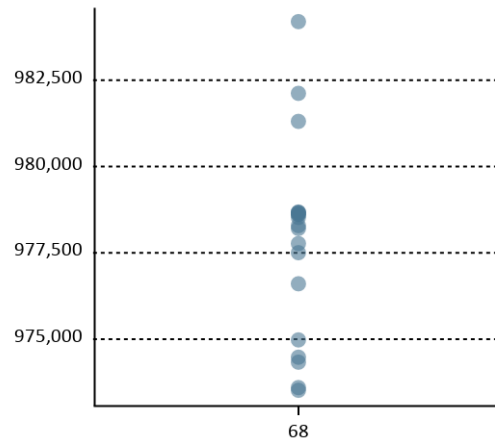




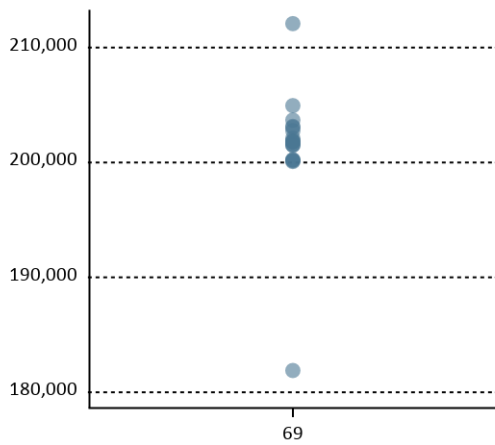
IMV(level) - instrument 67



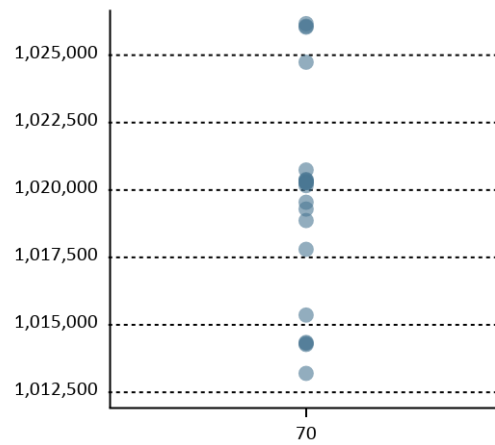
IMV(level) - instrument 68



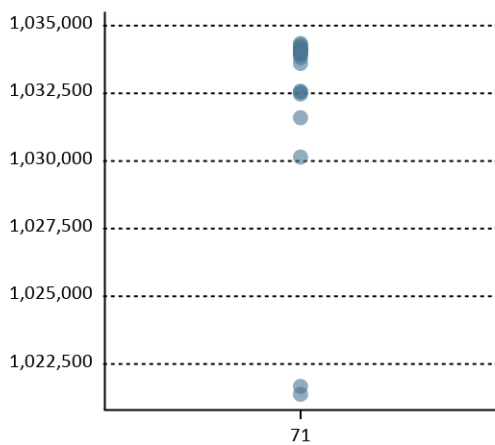
IMV(level) - instrument 69



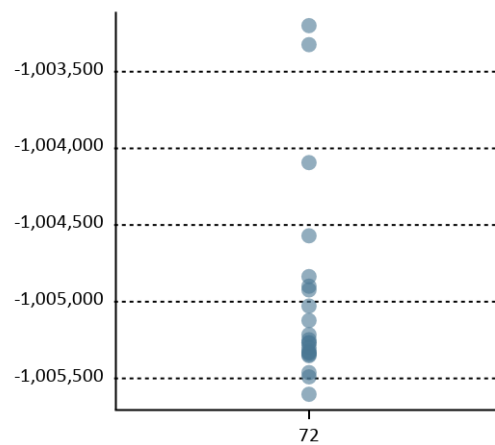
IMV(level) - instrument 70



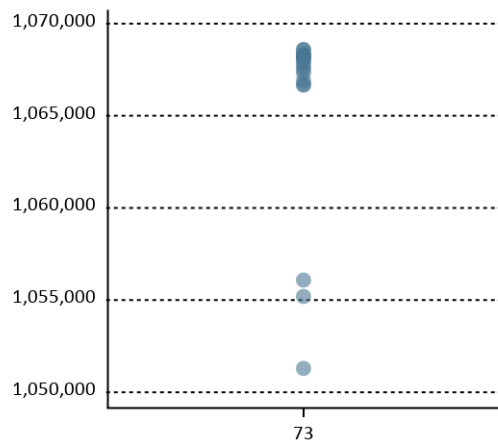
IMV(level) - instrument 71



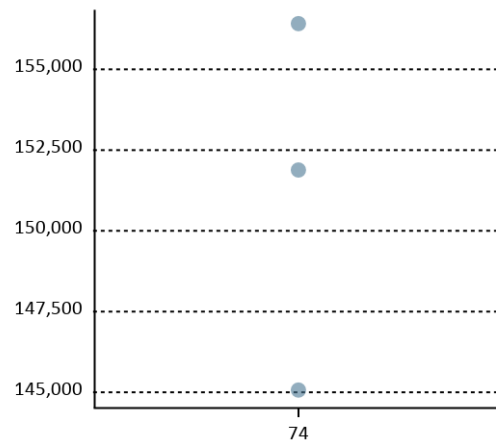
IMV(level) - instrument 72



IMV(level) - instrument 73



IMV(level) - instrument 74



IMV(level) - instrument 75

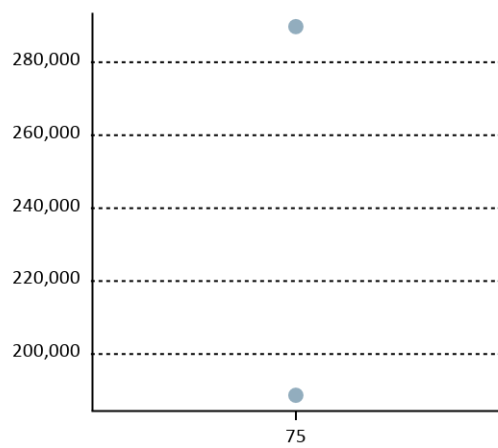
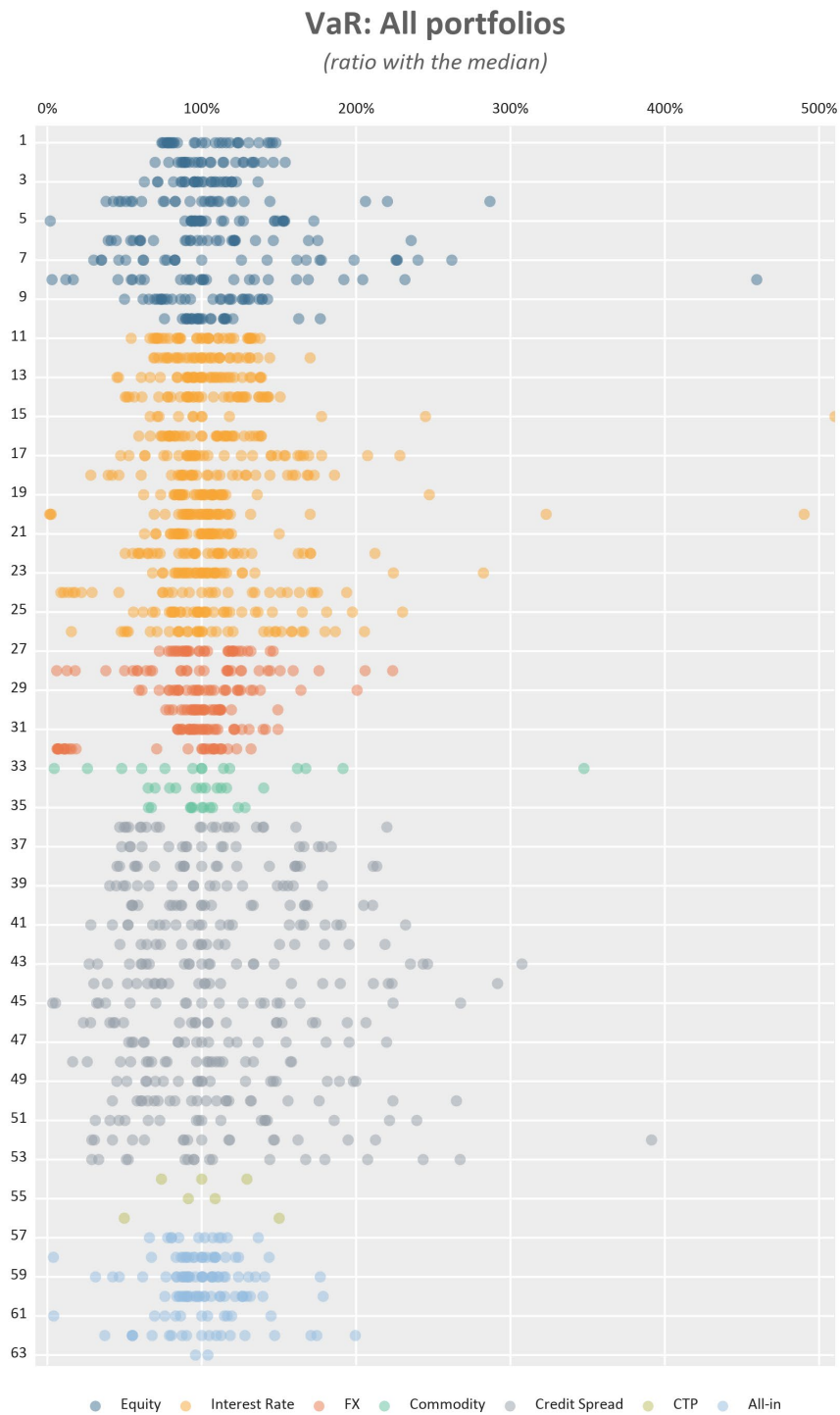
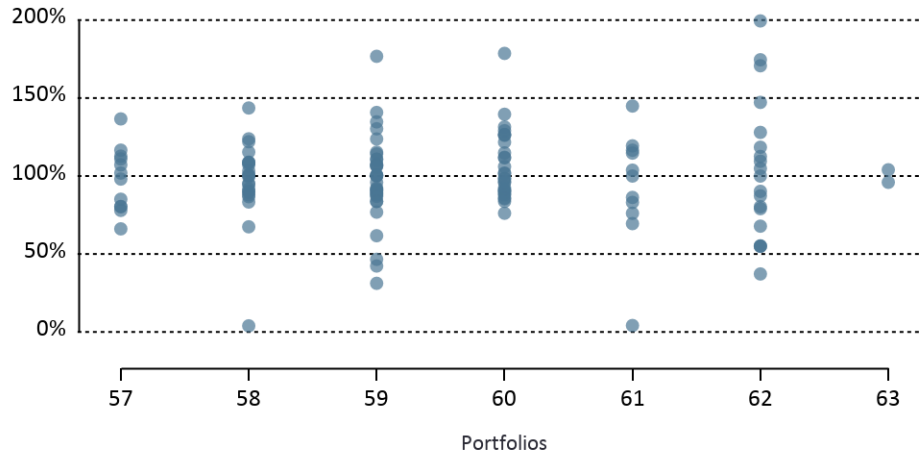


Figure 18: VaR submissions normalised by the median of each portfolio (by asset class)



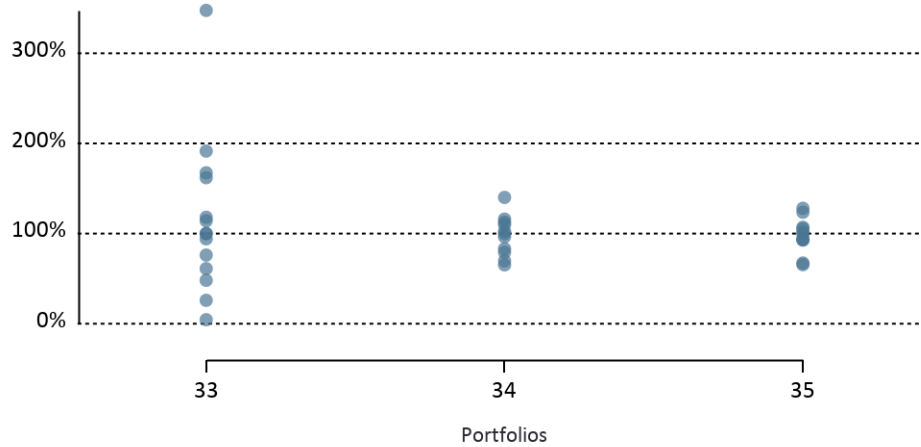
### VaR: Aggregated portfolios

(ratio with the median)



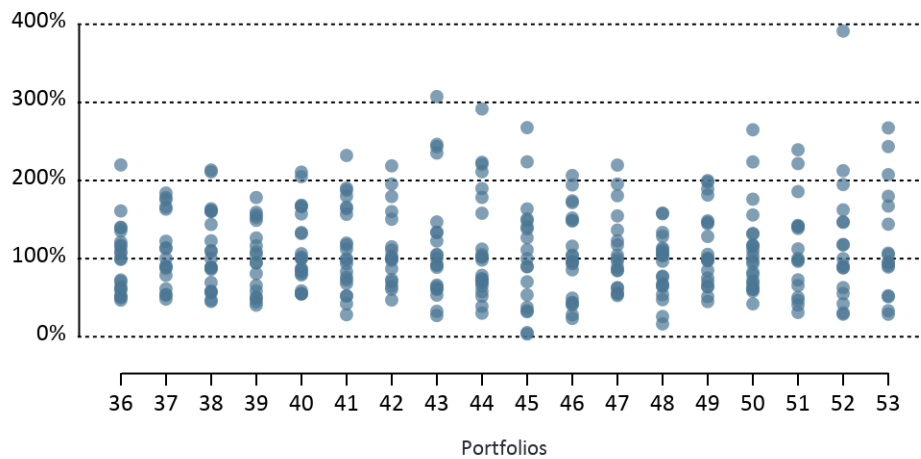
### VaR: Commodity portfolios

(ratio with the median)



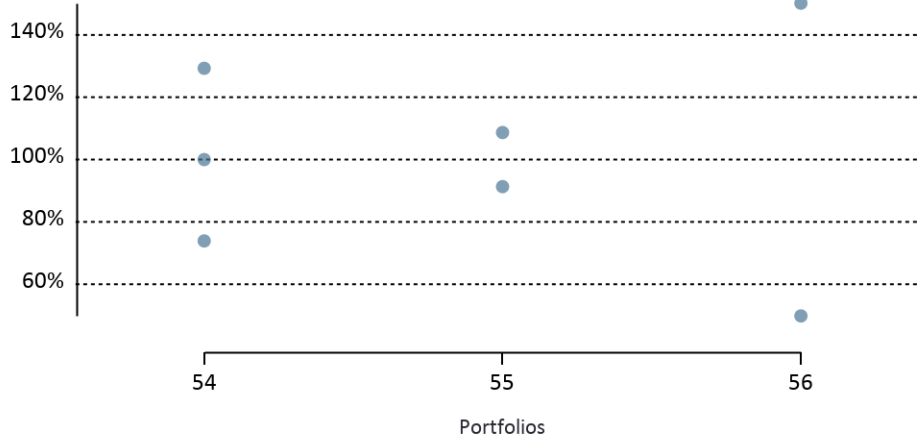
### VaR: Credit Spread portfolios

(ratio with the median)



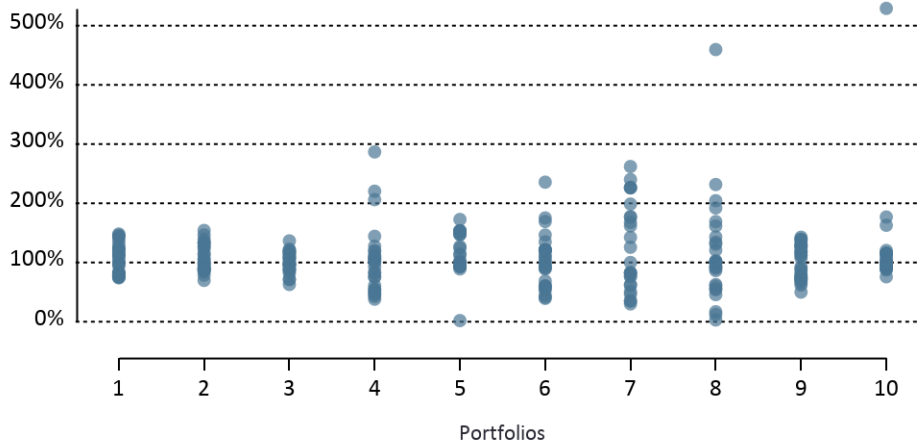
### VaR: CTP portfolios

(ratio with the median)



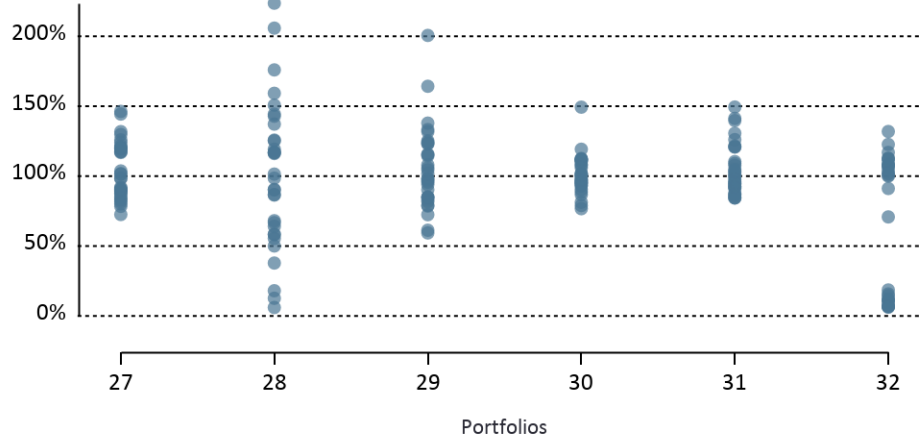
### VaR: Equity portfolios

(ratio with the median)



### VaR: FX portfolios

(ratio with the median)



### VaR: Interest Rate portfolios

(ratio with the median)

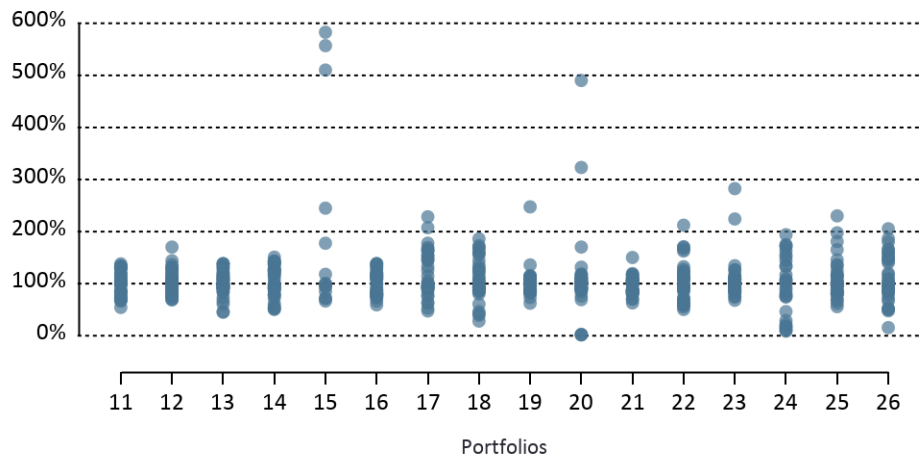
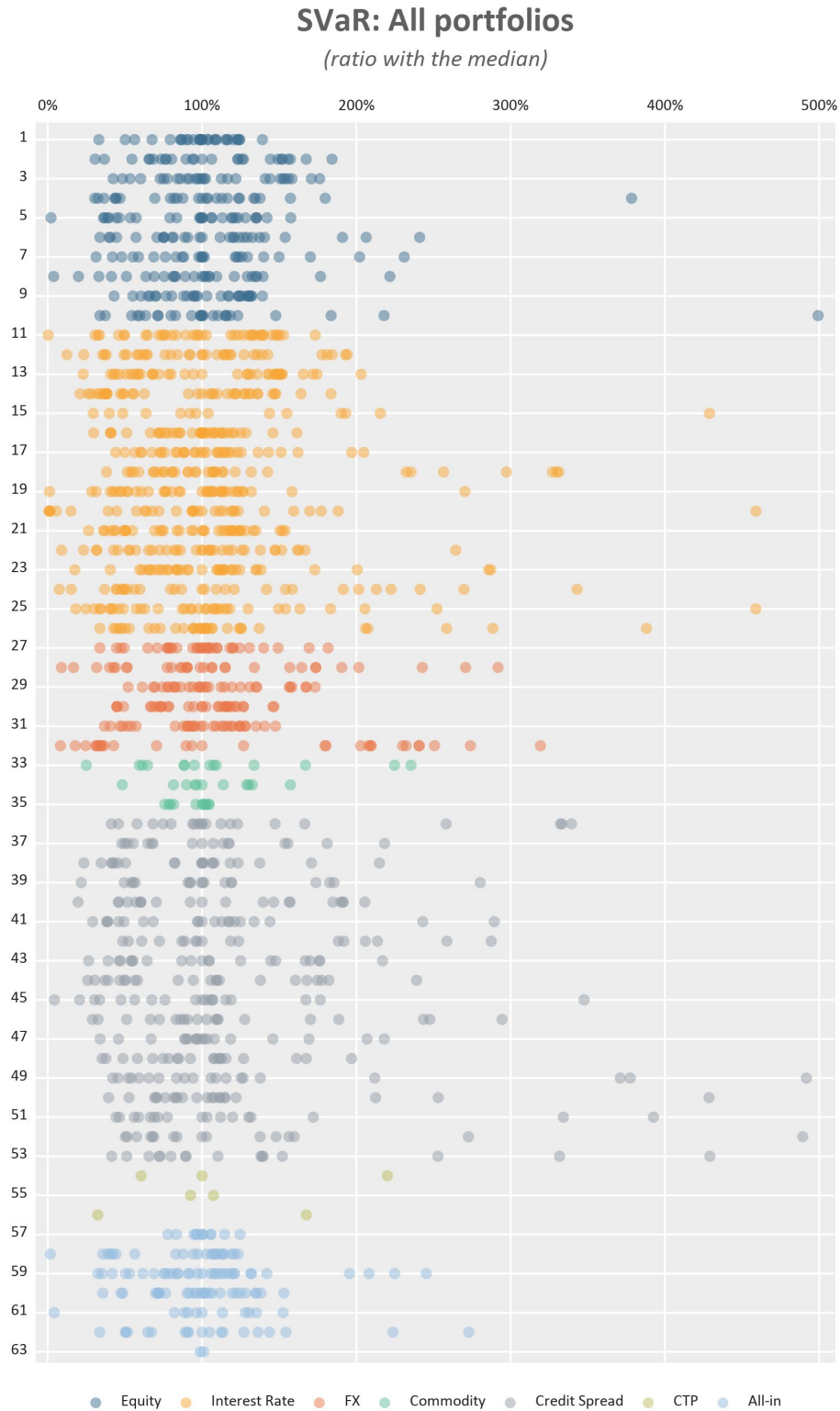


Figure 19: sVaR submissions normalised by the median of each portfolio (by asset class)

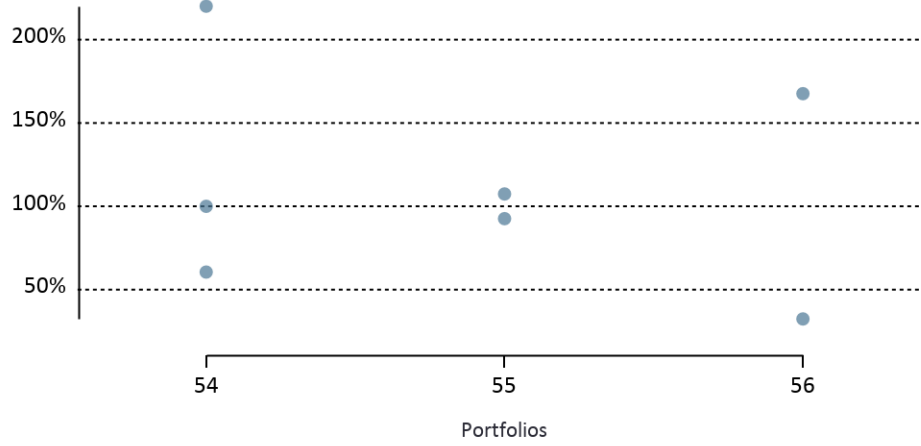






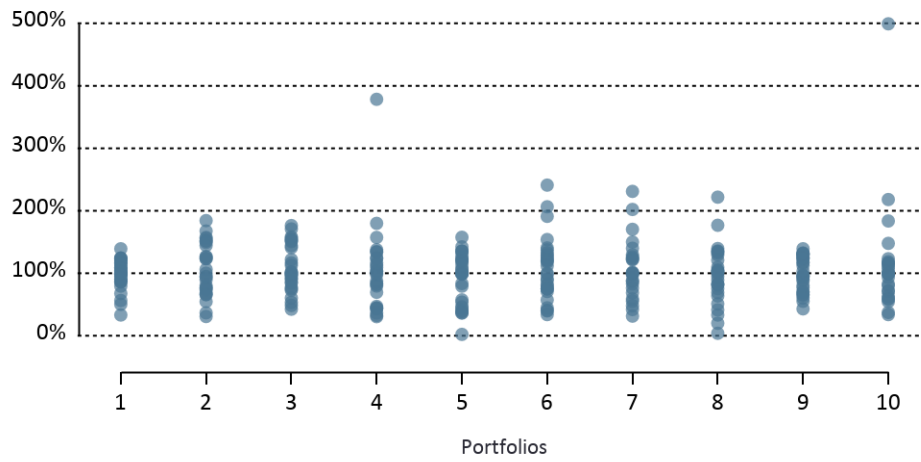
### SVaR: CTP portfolios

(ratio with the median)



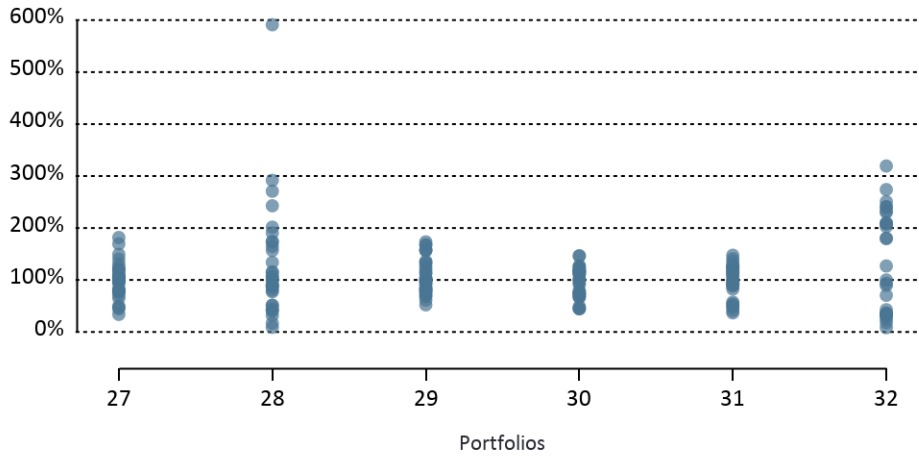
### SVaR: Equity portfolios

(ratio with the median)



### SVaR: FX portfolios

(ratio with the median)



### SVaR: Interest Rate portfolios

(ratio with the median)

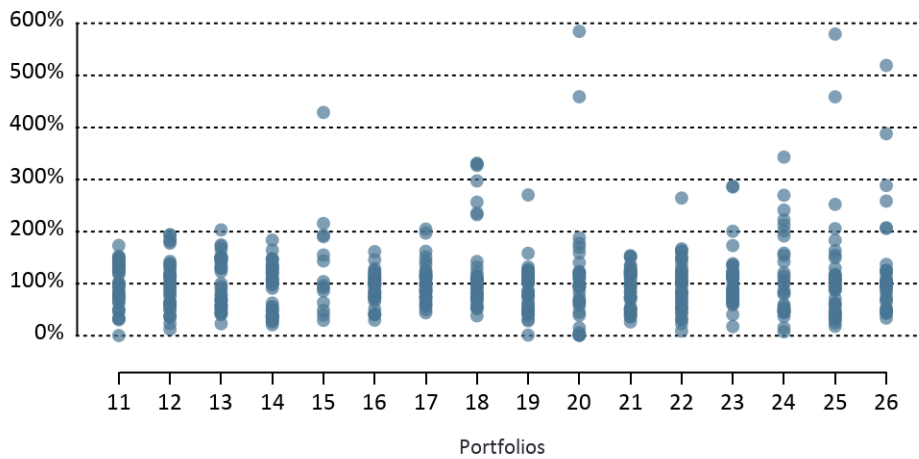


Figure 20: sVaR submissions normalised by the median of each portfolio (by methodological approach)

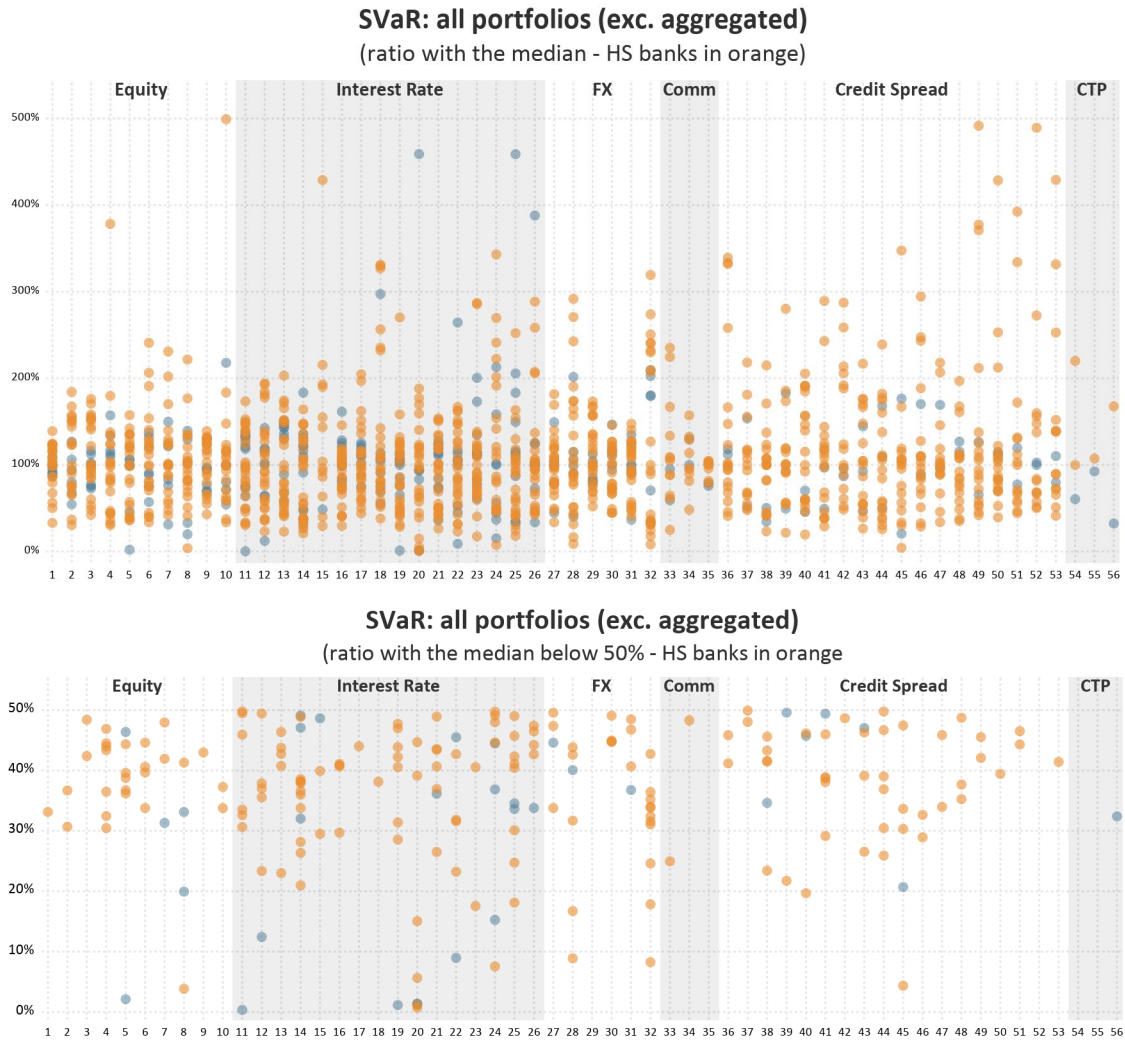


Table 27: VaR statistics (small banks only)

EU Statistics for VaR

Port. ID	Other stats							Percentiles								Interquartile range	
	Min	Max	Ave.	STDev	STDev_trunc <sup>2</sup>	MAD (median absolute deviation)	Coefficient of variation (STDev/Mean)	Num. obs.	5th	10th	25th	50th (Median)	75th	90th	95th		
Equity	1																
	2																
	3																
	4																
	5	1,647,154,594	2,596,289,673	1,866,619,316	410,717,605			22%	4								
	6	15,734	49,274	30,941	12,984			40%	5	1,647,287,629	1,647,420,664	1,647,819,770	1,677,097,250	1,764,735,292	2,263,667,921	2,429,978,797	3%
	7								3	17,837	19,940	26,250	28,340	35,107	43,607	46,441	14%
	8								4								
	9	56,465	132,700	95,913	30,121			31%	6	60,937	65,409	76,701	92,293	120,742	150,038	151,366	22%
	10	406,432	947,372	571,134	214,680			38%	5	421,449	436,466	481,517	500,075	520,273	776,532	861,952	4%
Interest Rate	11	65,676	125,106	84,354	19,422			23%	10	66,152	66,627	68,665	77,919	96,872	102,464	113,785	17%
	12	39,463	75,084	56,087	14,123			25%	8	40,750	42,038	46,223	51,132	69,207	74,206	74,645	20%
	13	100,098	155,864	127,819	17,335			14%	9	105,106	110,114	118,770	127,611	132,787	151,159	153,512	6%
	14	17,919	34,052	28,054	5,385			19%	9	19,817	21,715	24,239	29,168	31,988	33,038	33,545	14%
	15								1								
	16	80,991	163,395	125,989	30,182			24%	8	88,102	95,213	105,527	120,697	156,138	160,013	161,704	19%
	17	155,329	553,767	292,819	126,668			43%	7	170,795	186,261	230,145	278,666	300,842	404,523	479,145	13%
	18	127,355	782,626	372,749	209,241			56%	8	145,141	162,928	201,970	389,285	445,026	562,389	670,507	38%
	19	128,815	181,880	149,218	18,061			12%	9	130,521	132,226	134,827	142,432	161,711	168,825	175,352	9%
	20	5,026	7,693	6,365	935			15%	8	5,229	5,432	5,824	6,090	7,228	7,431	7,562	11%
	21	246,844	324,928	286,110	32,088			11%	9	251,590	256,257	260,953	268,772	317,723	324,642	324,785	10%
	22	29,217	71,628	49,642	15,296			31%	7	30,964	32,711	38,691	51,739	58,763	67,355	69,491	21%
	23	113,730	204,079	151,876	30,580			20%	7	118,212	122,894	131,482	145,819	168,269	183,843	193,961	12%
	24	32,848	445,913	218,429	170,557			78%	6	35,051	37,254	67,115	226,478	330,266	391,555	418,734	66%
	25	38,549	109,154	64,689	27,836			43%	7	41,314	44,079	48,870	53,595	76,894	103,642	106,398	22%
	26	295,313	830,127	457,684	191,449			42%	7	298,201	301,089	307,764	420,811	521,006	654,059	742,093	26%
FX	27	526,375	780,996	604,802	99,598			16%	7	530,313	534,252	541,375	543,910	649,792	736,516	758,756	9%
	28	3,853	38,185	23,671	12,565			53%	7	6,157	8,462	15,935	26,352	32,720	36,519	37,352	34%
	29	72,741	150,800	115,126	28,195			24%	7	77,540	82,339	96,420	120,063	134,718	145,193	147,997	17%
	30	348,803	450,829	395,958	39,836			10%	7	353,400	357,997	372,628	386,359	420,230	450,388	450,609	6%
	31	443,967	687,012	530,763	92,903			18%	8	444,718	445,469	476,739	502,972	550,543	670,273	678,642	7%
	32	24,254	393,761	155,509	177,887			114%	6	24,962	25,670	33,831	36,531	295,916	384,326	389,044	79%
	Commodity	33							2								
34								1									
35								2									
Credit Spread	36							3									
	37							2									
	38							4									
	39							4									
	40							4									
	41							4									
	42							4									
	43							3									
	44							3									
	45							3									
CTP	46							3									
	47							3									
	48							2									
	49							2									
	50							3									
	51							1									
	52							2									
	53							1									
	54																
All-in no-CTP	55							1									
	56							3									
	57							3									
	58							5									
	59	321,112	521,976	437,631	72,945			17%	5	344,047	366,982	435,788	452,286	456,994	495,983	508,980	2%
	60	773,411	1,137,887	990,111	137,354			14%	6	810,984	848,557	936,186	985,675	1,100,165	1,136,102	1,136,994	8%
	61								1								
62								3									
63								5									

Figure 21: VaR ratio with median (focus on small banks)

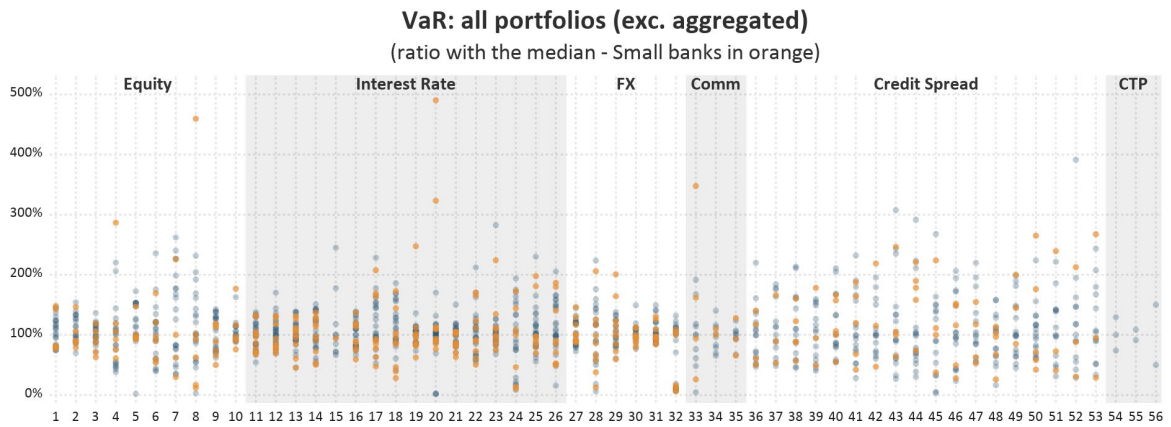


Table 28: VaR statistics (medium-sized banks only)

EU Statistics for VaR

Port. ID	Other stats					Percentiles											Interquartile range
	Min	Max	Ave.	STDev	STDev_trunc'	MAD (median absolute deviation)	Coefficient of variation (STDev/Mean)	Num obs.	5th	10th	25th	50th (Median)	75th	90th	95th		
Equity																	
1	4,783,699	9,306,031	6,741,109	1,415,812			21%	11	4,813,409	4,980,465	5,393,225	6,812,554	7,511,205	8,628,170	8,957,522	16%	
2	3,940,627	7,573,480	6,108,209	1,105,349			18%	11	4,483,085	5,025,543	5,446,146	6,419,403	7,026,195	7,187,250	7,380,365	13%	
3	11,291	16,518	14,143	1,723			12%	12	11,713	12,083	12,948	14,261	15,552	16,043	16,260	9%	
4	1,105	3,734	2,233	889			40%	18	1,162	1,308	1,320	2,590	2,780	3,211	3,474	56%	
5	1,572,817,976	2,631,068,121	2,007,105,577	372,438,942			19%	11	1,606,874,002	1,640,930,027	1,714,672,127	1,990,335,735	2,218,630,128	2,599,327,809	2,615,197,965	13%	
6	11,473	42,632	26,054	10,719			41%	13	12,585	13,637	17,417	26,000	35,273	38,505	40,611	34%	
7	24,529	159,339	87,152	49,636			57%	11	24,612	24,694	42,967	100,022	124,374	139,600	149,470	49%	
8	3,767	256,550	129,081	73,627			57%	13	35,969	59,600	75,670	117,185	179,734	233,510	247,340	41%	
9	70,059	157,024	117,139	32,005			27%	14	75,586	79,611	86,329	123,840	144,238	152,839	155,640	25%	
10	468,567	644,354	536,091	57,563			11%	10	473,893	479,219	491,302	529,874	561,086	615,011	629,683	7%	
11	63,600	128,635	100,175	21,724			22%	19	67,766	70,607	81,069	100,002	119,885	126,008	126,611	19%	
12	39,846	78,115	57,519	10,596			18%	16	40,937	42,694	50,803	58,170	63,890	69,467	72,897	11%	
13	86,840	157,013	121,651	16,430			14%	16	102,655	108,150	112,614	118,222	131,342	139,891	144,846	8%	
14	15,211	35,581	27,326	6,253			23%	20	19,141	19,826	22,395	28,129	32,305	35,327	35,480	18%	
15							4%										
16	91,067	189,180	130,413	30,397			22%	20	99,933	106,183	111,144	143,152	159,697	179,881	183,576	17%	
17	172,858	542,525	371,976	113,533			31%	16	197,922	250,746	305,000	331,539	477,700	516,325	533,674	22%	
18	189,671	761,908	494,236	162,751			33%	16	253,862	319,639	393,092	484,275	590,227	723,140	736,106	20%	
19	134,300	187,931	164,570	17,973			11%	18	137,726	140,065	147,338	169,235	179,243	184,430	185,474	10%	
20	5,757	8,678	6,879	753			11%	16	5,939	6,071	6,379	6,843	7,268	7,753	8,030	7%	
21	245,509	368,131	311,236	40,332			13%	18	253,916	259,070	272,543	314,143	343,282	361,750	363,120	11%	
22	32,039	94,242	57,172	16,820			29%	18	33,700	34,208	40,761	62,867	65,904	71,181	76,912	24%	
23	103,400	192,025	147,519	24,955			17%	18	111,843	121,446	130,256	146,091	163,699	180,807	191,639	11%	
24	27,036	541,675	275,370	184,591			67%	13	41,363	51,816	68,479	250,779	415,650	497,774	519,785	72%	
25	34,270	127,115	58,882	20,236			34%	19	37,287	43,044	45,599	56,194	63,131	76,418	85,172	16%	
26	283,526	994,096	674,909	215,638			32%	18	367,168	431,483	511,266	621,382	879,187	939,035	950,689	25%	
27	436,628	793,595	626,330	116,632			19%	17	464,792	483,929	505,688	624,270	724,253	750,871	765,069	18%	
28	5,500	48,542	28,227	12,664			45%	14	11,841	15,748	18,266	28,700	36,186	43,345	45,588	33%	
29	75,117	168,998	122,361	25,808			21%	16	91,004	96,637	103,192	118,769	140,612	156,823	163,308	15%	
30	327,093	452,964	407,315	38,676			9%	14	346,390	362,601	385,869	403,930	442,239	449,620	451,041	7%	
31	443,590	639,193	531,838	69,860			13%	14	450,334	455,527	480,592	514,260	576,990	635,853	637,270	9%	
32	26,311	494,617	282,942	183,818			65%	15	26,342	32,578	57,795	384,420	420,459	451,270	470,282	76%	
Commodity																	
33	1,253	54,281	29,745	20,011			67%	6	4,352	7,452	17,327	30,915	49,959	50,868	52,574	43%	
34	532,160	1,142,147	773,370	262,261			34%	5	539,408	546,656	568,399	678,028	946,117	1,063,735	1,102,941	25%	
35	624,523	991,994	878,213	149,331			17%	5	674,004	723,485	871,929	927,136	975,484	985,390	988,692	6%	
Credit Spread																	
36	14,394	49,466	29,548	12,618			43%	8	14,839	15,284	17,780	31,611	35,554	43,972	46,719	33%	
37	69,318	157,004	116,961	39,820			34%	6	71,283	73,248	82,741	121,734	152,107	155,900	156,452	30%	
38	6,280	17,636	11,516	4,502			39%	7	6,638	6,996	8,376	10,766	14,590	17,500	17,568	27%	
39	18,701	58,661	40,512	16,722			41%	7	20,352	22,003	26,979	40,013	56,125	57,894	58,278	35%	
40	6,177	19,089	11,511	4,300			37%	7	7,015	7,853	9,385	9,871	13,335	16,705	17,897	17%	
41	10,071	34,660	21,249	8,626			41%	7	11,257	12,443	16,478	19,262	25,897	31,981	33,321	22%	
42	26,323	79,878	58,112	20,178			35%	6	30,287	34,251	47,000	63,473	71,379	76,612	78,245	21%	
43	10,942	44,959	29,153	12,627			43%	7	13,785	16,629	21,309	29,860	37,847	44,909	44,934	28%	
44	6,269	16,458	11,831	3,659			31%	7	7,186	8,103	10,337	11,275	14,170	16,426	16,442	16%	
45	449	21,329	13,642	8,878			65%	6	1,420	2,390	7,753	18,174	19,130	20,363	20,846	42%	
46	6,635	31,868	18,760	9,928			53%	7	6,801	6,967	11,442	17,075	26,431	29,857	30,862	40%	
47	2,600	10,244	5,657	2,600			46%	6	2,986	3,371	4,323	5,295	6,205	8,305	9,274	18%	
48	12,818	42,823	26,492	10,961			41%	7	13,350	13,882	17,634	29,599	32,467	37,992	40,408	30%	
49	7,734	32,536	18,975	9,179			48%	9	9,028	10,523	11,053	17,153	25,161	31,455	31,996	39%	
50	14,337	36,455	24,191	7,291			30%	8	14,987	15,638	20,439	23,382	27,998	32,557	34,506	16%	
51	165,907	380,961	257,087	80,147			31%	6	172,727	179,547	204,456	241,575	300,710	350,139	365,550	19%	
52	209,124	346,527	273,332	50,050			18%	5	219,404	229,684	260,523	261,669	288,817	323,443	334,985	5%	
53	268,921	718,802	511,325	173,091			34%	5	300,213	331,505	425,382	530,867	612,651	676,342	697,572	18%	
CTP																	
54								1									
55																	
56																	
All-IN no-CTP																	
57								4									
Equity Cumulative																	
58	2,156,738	2,888,271	2,498,993	248,940			10%	7	2,178,685	2,200,632	2,352,696	2,495,702	2,633,426	2,768,058	2,818,165	6%	
59	399,625	732,294	545,414	89,336			16%	14	442,149	467,715	484,728	537,373	571,542	670,593	711,903	8%	
FX Cumulative																	
60	867,000	1,285,860	1,053,436	165,182			15%	13	870,674	881,335	921,713	999,846	1,236,518	1,284,412	1,285,514	15%	
Commodity Cumulative																	
61	545,181	1,137,076	778,669	250,592			32%	5	555,588	565,994	597,214	677,150	936,723	1,056,935	1,097,005	22%	
Credit Cumulative																	
62	35,216	76,042	49,161	13,978			28%	7	36,313	37,410	39,523	46,696	53,566	64,620	70,331	15%	
CTP Cumulative																	

Figure 22: VaR ratio with median (focus on medium-sized banks)

VaR: all portfolios (exc. aggregated)

(ratio with the median - Medium banks in orange)

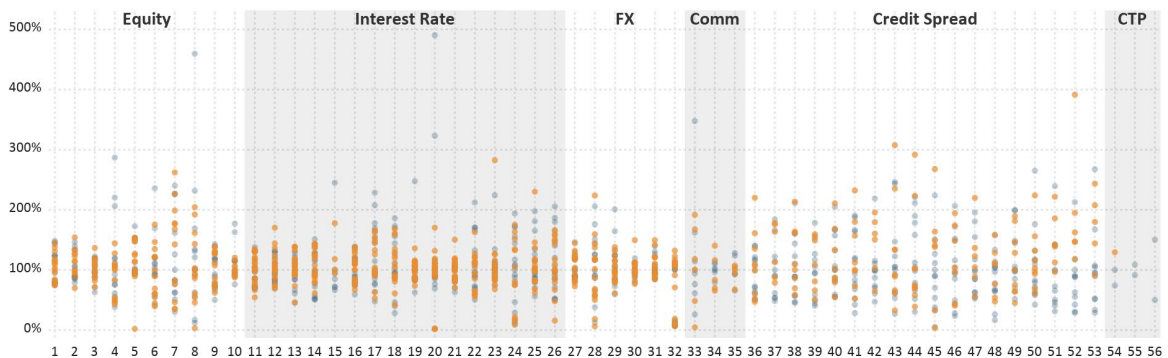




Table 30: VaR statistics (small TB banks only)

EU Statistics for VaR

Port ID	Other stats						Percentiles							Extreme Values range (Full Sample)					
	Min	Max	Ave.	STDDev	Coefficient of variation (STDDev/Mean)	Num obs.	5th	10th	25th	50th (Median)	75th	90th	95th	Interquartile range	STDDev_trunc <sup>1</sup>	-2*STDDev_trunc	+2*STDDev_trunc		
Equity	1	4,783,699	8,841,352	6,721,822	1,725,111	26%	6	4,793,602	4,803,506	5,230,248	6,733,791	8,065,372	8,828,170	8,734,761	21%	1,537,866	3,375,325	9,526,789	
	2	3,940,627	6,455,081	5,315,488	924,178	17%	5	4,157,610	4,374,593	5,025,543	5,511,961	5,646,229	6,150,340	6,291,711	6%	1,136,194	3,375,840	7,918,618	
	3						4												
	4						4												
	5	1,572,817,976	2,196,186,022	1,832,022,999	258,162,268	14%	5	1,586,440,386	1,600,062,796	1,640,980,027	1,759,845,233	1,990,335,735	2,113,845,907	2,155,015,965	10%	439,704,511	885,326,270	2,644,144,314	
	6						4												
	7						3												
	8						4												
	9	82,057	132,700	109,655	23,856	22%	5	82,813	83,570	85,839	121,181	126,498	150,219	131,460	19%	29,821	53,326	172,611	
	10						3												
Interest Rate	11	71,674	128,635	95,151	17,883	19%	8	74,633	77,593	81,538	96,419	101,476	112,742	120,689	11%	21,084	53,430	137,768	
	12	39,846	67,776	55,514	9,095	16%	6	43,360	46,874	54,232	56,354	58,512	63,316	65,546	4%	11,479	34,331	80,248	
	13	86,840	157,015	123,888	19,406	16%	9	96,630	106,421	118,727	123,519	130,448	144,035	150,524	5%	20,464	77,820	159,677	
	14	19,879	32,784	27,049	4,616	17%	9	20,475	21,071	22,813	29,168	30,513	31,086	31,955	14%	6,404	12,955	38,571	
	15						3												
	16	91,067	179,503	135,637	30,627	23%	8	96,582	102,098	108,055	142,819	156,063	164,636	172,070	18%	28,990	78,696	194,657	
	17	155,329	410,924	266,511	103,198	39%	6	159,711	164,094	181,213	259,904	333,495	375,537	393,230	30%	127,275	342,663	851,565	
	18	189,671	542,687	351,481	146,805	42%	6	194,729	199,787	226,241	347,184	458,973	507,474	525,081	34%	166,661	453,963	1,138,606	
	19	118,815	385,040	258,289	19,144	12%	8	133,013	137,210	143,831	159,852	172,663	176,242	181,641	9%	18,271	52,594	198,677	
	20	6,289	8,678	7,212	797	12%	7	6,355	6,421	6,721	7,198	7,508	8,087	8,368	6%	1,572	3,512	9,795	
	21	245,509	361,541	305,066	44,253	15%	8	251,880	258,251	263,909	305,797	345,541	353,615	357,578	13%	38,106	231,466	383,892	
	22	33,993	73,854	56,654	14,219	23%	6	37,837	41,681	50,282	58,539	65,216	69,722	71,788	13%	18,783	20,402	95,535	
	23	113,333	192,025	141,098	24,301	17%	8	117,390	121,446	125,936	137,291	147,331	163,886	177,956	8%	38,257	75,313	228,342	
24	27,036	488,104	220,072	209,942	94%	5	31,812	36,588	50,915	143,483	410,824	445,192	456,649	78%	166,493	-23,514	642,460		
25	34,270	109,154	61,233	25,417	42%	8	35,443	36,616	43,186	53,934	76,674	80,105	99,128	28%	52,303	-49,367	159,844		
26	283,526	692,885	472,676	172,291	36%	6	290,292	297,057	331,703	450,525	612,507	670,447	681,666	30%	234,837	122,496	1,061,846		
FX	27	477,833	732,390	572,204	105,263	18%	7	477,833	483,829	495,650	549,410	630,248	717,073	724,732	12%	110,521	380,819	822,903	
	28	16,897	48,542	27,131	11,766	43%	7	17,181	17,465	18,689	20,762	33,170	40,662	46,602	28%	14,001	2,478	58,482	
	29	75,117	141,732	111,906	26,206	23%	6	80,581	86,045	97,777	108,688	134,475	140,985	141,359	16%	27,838	66,801	178,234	
	30	327,093	490,094	402,579	51,329	13%	9	338,546	349,999	384,358	401,346	450,029	450,028	450,076	8%	40,000	322,131	482,131	
	31	443,590	663,099	529,867	86,219	16%	7	448,263	453,397	471,069	495,734	582,805	646,217	654,656	11%	84,093	357,648	694,020	
	32	26,355	459,852	261,430	192,557	74%	6	26,538	26,720	86,705	324,993	400,082	432,577	446,215	64%	179,731	15,429	734,354	
	33						1												
Credit Spread	34						1												
	35						2												
	36						1												
	37						1												
	38						2												
	39						1												
	40						2												
	41						2												
	42						2												
	43						1												
	44						2												
	45						2												
	46						2												
47						1													
48						1													
49						1													
50						1													
51						1													
52						1													
53						1													
CTP	54						1												
	55						1												
	56						1												
All-in no-CTP	57						1												
	58						3												
	59						4												
	60	914,180	1,285,860	1,024,510	161,223	16%	5	915,687	917,193	921,713	923,702	1,077,093	1,202,353	1,244,107	8%	171,608	672,624	1,359,056	
	61						1												
	62						2												



Table 31: VaR statistics (medium TB banks only)

EU Statistics for VaR

Port ID	Other stats				Coefficient of variation (STDDev/Mean)	Num obs.	Percentiles							Interquartile range	Extreme Values range (Full Sample)			
	Min	Max	Ave.	STDDev			5th	10th	25th	50th (Median)	75th	90th	95th		STDDev_trunc <sup>1</sup>	-2*STDDev_trunc	+2*STDDev_trunc	
Equity	1	4,885,258	9,306,031	6,601,831	1,541,731	23%	16	4,964,816	5,064,476	5,195,579	6,398,477	7,710,853	8,609,964	9,237,075	19%	1,537,866	3,375,325	9,526,789
	2	4,440,420	7,869,708	6,140,565	1,241,267	20%	12	4,689,086	4,897,776	4,972,574	6,201,588	7,239,949	7,563,936	7,706,783	19%	1,136,194	3,373,840	7,918,618
	3	9,896	16,507	14,000	1,901	14%	13	11,194	12,107	13,107	15,389	15,734	16,038	16,232	9%	1,377	9,888	17,775
	4	2,238	3,734	2,513	771	33%	15	1,334	1,404	1,581	2,394	2,728	3,198	3,474	27%	1,162	1,568	4,911
	5	1,647,154,594	2,631,068,121	1,911,542,508	385,833,518	20%	10	1,649,946,086	1,652,737,578	1,680,087,525	1,718,196,905	1,954,107,780	2,602,501,840	2,616,784,981	8%	439,704,511	885,326,270	2,644,144,514
	6	15,734	42,632	28,569	8,545	50%	14	16,868	17,515	21,517	28,732	35,226	38,125	40,443	24%	10,428	8,266	49,980
	7	21,125	159,339	90,411	56,976	63%	13	23,167	24,562	35,666	113,593	139,600	158,941	159,134	59%	48,504	-26,745	167,269
	8	15,018	256,550	134,609	69,946	52%	14	18,941	47,253	113,622	125,248	166,550	232,519	246,573	19%	69,581	-15,596	264,728
	9	56,465	161,190	115,560	38,255	34%	16	66,661	72,206	79,724	112,500	147,271	157,180	158,300	30%	35,851	53,324	172,611
	10	406,432	644,454	550,796	67,502	12%	13	462,618	500,822	519,795	532,174	616,193	620,995	631,018	8%	987,875	-1,439,976	2,511,523
Interest Rate	11	63,600	126,785	96,744	24,641	25%	20	65,572	66,627	69,014	102,939	117,812	125,961	126,406	26%	21,084	53,431	137,768
	12	39,463	75,216	55,524	12,385	22%	18	41,024	42,589	44,774	51,876	63,911	74,206	75,104	18%	11,479	34,331	80,248
	13	100,098	149,983	118,308	12,878	11%	16	105,970	107,973	108,428	113,123	126,070	133,406	138,014	8%	20,464	77,820	159,677
	14	15,138	35,511	25,897	6,487	25%	19	15,004	17,377	22,532	24,299	31,612	34,081	34,574	17%	6,404	12,955	38,571
	15						4											
	16	80,991	189,180	137,979	34,195	25%	19	98,459	101,126	108,732	137,009	164,786	184,029	187,236	20%	28,990	78,696	194,657
	17	206,882	581,027	403,716	120,158	30%	17	244,103	268,563	307,593	434,548	501,927	538,441	550,225	24%	127,275	72,463	811,565
	18	127,355	765,825	515,099	191,040	37%	17	188,009	289,680	395,606	558,174	652,707	741,266	762,691	25%	166,661	119,363	786,006
	19	134,300	187,931	159,638	20,341	13%	18	134,748	136,893	138,133	165,176	179,195	183,499	184,732	13%	18,271	125,994	198,677
	20	4,561	7,814	6,455	900	15%	17	4,933	5,465	6,000	6,156	7,318	7,647	7,716	10%	1,572	3,512	6,795
21	251,929	368,131	301,515	39,694	13%	18	254,879	257,647	261,428	313,915	330,043	347,497	363,120	12%	38,106	231,466	383,892	
22	29,217	94,242	53,630	17,831	32%	18	33,538	34,818	38,834	55,282	68,881	73,177	79,408	27%	18,783	20,402	95,535	
23	103,400	191,571	151,739	21,438	14%	18	124,880	131,369	135,719	151,793	165,520	174,190	178,501	10%	38,257	75,313	228,242	
24	33,848	541,675	307,143	171,606	56%	15	39,016	47,163	236,884	323,003	448,439	522,665	536,522	31%	166,493	-23,514	642,460	
25	45,630	137,115	59,904	18,039	31%	18	44,285	44,490	50,700	55,544	65,323	71,042	82,338	11%	52,369	-49,267	159,844	
26	295,313	984,096	691,813	236,242	34%	16	302,533	362,875	584,868	653,383	907,378	957,726	977,348	23%	234,837	122,496	1,061,846	
FX	27	482,690	793,595	653,095	96,644	15%	16	523,269	540,021	580,519	683,927	723,518	763,578	784,146	11%	110,521	380,819	822,903
	28	3,853	45,962	29,534	13,788	47%	15	5,006	7,914	22,000	35,653	38,263	43,128	44,587	27%	14,001	2,478	58,482
	29	72,741	168,998	119,645	28,054	23%	15	83,938	91,762	102,900	115,146	138,458	158,233	163,689	15%	27,858	66,801	178,234
	30	348,803	452,864	404,121	29,924	7%	16	367,384	375,014	385,051	398,783	427,946	446,551	449,783	9%	40,000	322,131	482,131
Commodity	31	446,113	687,012	550,052	71,281	13%	13	466,325	481,259	498,773	550,934	590,601	638,621	658,311	8%	84,009	337,648	694,020
	32	23,644	494,617	293,564	183,682	63%	13	24,010	27,786	45,861	381,336	417,996	435,149	460,886	80%	179,731	15,429	734,554
	33	1,253	54,281	31,303	18,873	60%	8	3,388	5,523	23,106	32,909	46,296	49,502	51,892	33%	24,211	-20,082	76,764
	34	532,160	1,142,147	834,963	194,590	23%	7	575,920	619,681	746,555	834,921	921,201	1,024,529	1,083,338	10%	180,851	453,378	1,176,784
	35	607,279	1,187,155	926,820	189,478	20%	6	673,442	739,604	885,731	951,310	987,867	1,089,575	1,138,565	5%	180,005	567,127	1,287,145
	36	15,865	49,327	30,285	9,878	32%	10	15,900	16,135	23,847	31,774	36,296	41,759	42,360	21%	10,779	9,157	52,275
	37	42,450	162,181	104,781	46,208	44%	10	47,469	50,888	71,283	93,399	152,107	157,522	159,851	96%	41,547	5,066	171,255
	38	5,036	17,636	11,765	5,131	44%	8	5,434	5,832	8,502	10,659	17,304	17,478	17,557	84%	4,959	847	20,684
	39	16,416	58,662	39,682	16,411	41%	10	18,700	20,984	25,592	38,866	55,949	57,510	58,086	37%	16,453	3,917	69,729
	40	6,847	19,089	12,364	4,760	38%	8	7,460	8,273	9,122	10,519	16,056	18,942	19,016	28%	4,967	1,398	21,267
41	5,429	36,639	21,081	11,242	53%	9	7,279	9,130	10,071	21,598	30,195	35,056	35,847	50%	9,351	561	37,963	
42	26,323	79,978	47,893	18,934	40%	10	27,417	28,510	32,621	43,731	60,868	73,998	76,358	30%	35,462	-124	81,845	
43	9,102	49,416	30,943	14,575	47%	8	12,180	15,257	19,934	30,339	44,897	46,296	47,856	99%	21,500	-9,574	76,626	
44	4,854	30,567	13,921	7,489	54%	9	6,260	7,665	9,326	11,934	16,458	19,645	25,106	28%	9,688	-3,267	35,487	
45	692	29,201	13,419	9,622	72%	9	2,081	3,470	4,331	18,017	19,396	21,567	25,384	63%	9,249	-5,459	31,537	
46	3,832	28,516	16,485	8,772	53%	10	5,260	6,689	8,900	16,385	23,009	28,195	28,955	44%	8,415	-434	33,228	
47	2,550	10,244	5,306	2,827	53%	8	2,683	2,816	3,690	4,402	5,917	9,451	9,947	23%	5,866	-6,952	16,273	
48	14,592	42,823	28,489	9,519	33%	9	17,025	19,458	20,974	28,817	30,162	42,648	42,735	18%	9,125	8,807	45,309	
49	12,030	32,536	21,161	7,641	36%	9	12,386	12,741	16,737	17,233	25,495	31,455	31,996	21%	7,787	1,620	32,766	
50	14,159	36,455	25,234	6,432	25%	10	15,329	16,500	23,042	26,336	27,407	31,444	33,949	9%	10,038	3,305	43,459	
51	53,407	319,317	186,702	77,861	42%	10	79,922	106,437	135,303	182,524	241,634	252,330	285,824	28%	106,157	-40,453	384,175	
52	51,287	346,527	206,483	85,962	42%	9	85,411	135,536	157,984	209,124	280,519	300,399	323,443	25%	196,651	-135,417	491,106	
53	98,238	718,922	386,403	194,612	50%	6	164,291	230,244	268,921	315,852	494,960	639,881	676,342	30%	214,953	-134,676	735,135	
54																		
55																		
56																		
All-in no-CTP	57	1,915,791	3,959,137	2,967,521	742,074	25%	6	2,019,634	2,123,476	2,486,695	3,110,178	3,350,774	3,668,908	3,814,023	15%	587,787	1,721,819	4,072,965
	58	2,186,000	2,707,149	2,464,323	216,809	9%	9	2,033,558	2,121,116	2,240,036	2,485,702	2,699,701	2,702,430	2,704,789	9%	339,874	1,605,851	3,105,348
	59	435,788	732,294	554,663	88,924	16%	15	447,337	457,390	473,411	555,425	588,231	678,090	710,334	11%	114,700	290,753	749,552
	60	867,000	1,335,657	1,048,363	160,929	15%	12	881,068	895,995	929,122	989,761	1,159,867	1,280,407	1,307,951	11%	177,608	672,024	1,359,056
	61	545,181	1,137,076	835,083	207,450	25%	6	578,173	611,166	721,429	857,185	927,569	1,036,900	1,086,988	13%	287,899	208,860	1,360,456
CTP Cumulative	62	16,567	77,757	47,407	21,900	46%	10	20,129	23,691	27,256	48,411	63,436	76,214	76,985	40%	19,901	4,734	84,338





**Table 33: VaR statistics (same business model – cross-border universal bank)**

**EU Statistics for VaR**

Port.ID	Other stats						Percentiles										Interquartile range
	Min	Max	Ave.	STDev	STDev_trunc'	MAD (median absolute deviation)	Coefficient of variation (STDev/Mean)	Num obs.	5th	10th	25th	50th (Median)	75th	90th	95th		
Equity	1	4,783,699	9,409,963	6,663,884	1,560,475			23%	19	4,875,102	4,998,160	5,201,309	6,451,057	7,707,279	9,232,478	9,316,424	19%
	2	3,940,627	7,573,480	5,979,319	1,080,100			18%	15	4,527,336	4,859,988	5,291,466	5,952,884	6,672,442	7,506,147	7,539,464	12%
	3	12,059	16,920	14,386	1,698			12%	17	12,252	12,310	13,198	13,819	16,049	16,511	16,598	10%
	4	984	3,300	2,196	767			35%	15	1,135	1,215	1,490	2,148	2,818	3,019	3,165	23%
	5	1,572,817,976	2,631,068,121	1,963,362,014	381,599,278			19%	14	1,645,885,096	1,686,377,754	1,710,056,655	1,755,069,399	2,151,447,502	2,598,416,368	2,610,436,918	11%
	6	11,473	48,274	28,674	10,572			37%	17	11,915	15,297	20,022	29,123	35,273	40,611	43,960	28%
	7	24,529	159,339	83,358	49,281			59%	17	24,661	29,381	53,427	58,154	124,732	158,830	159,065	40%
	8	3,767	241,200	130,887	57,926			44%	15	49,655	71,861	110,613	124,929	166,401	193,542	214,284	20%
	9	70,059	161,193	116,727	30,777			26%	20	78,137	79,956	85,300	126,937	143,522	155,108	157,232	25%
	10	468,567	947,372	604,086	136,173			23%	15	480,881	491,689	521,677	565,852	619,296	781,218	894,934	9%
Interest Rate	11	63,600	132,060	100,613	21,603			21%	24	67,983	69,121	82,026	99,970	124,241	126,244	126,725	20%
	12	39,846	78,115	57,734	11,128			19%	23	41,579	44,209	48,834	57,095	63,900	73,295	75,077	13%
	13	79,011	157,013	117,557	17,818			15%	21	86,840	99,760	108,372	117,175	127,611	136,589	143,696	8%
	14	13,138	37,435	25,988	7,253			28%	24	14,174	16,452	20,997	24,182	31,807	34,772	35,248	20%
	15	19,811	72,877	33,615	16,784			50%	10	20,421	21,031	22,462	28,660	33,779	54,848	63,893	20%
	16	80,991	189,389	138,079	32,166			24%	25	92,924	101,390	108,611	137,009	159,782	185,534	188,748	19%
	17	155,329	581,027	378,500	127,693			34%	21	172,858	246,595	302,086	340,149	501,927	595,719	542,525	25%
	18	178,173	782,626	513,467	187,504			37%	22	190,683	225,314	402,529	501,256	691,646	758,468	765,629	26%
	19	134,300	187,931	163,374	18,194			11%	21	138,281	138,331	142,295	164,790	180,548	184,168	185,004	12%
	20	5,757	7,814	6,732	609			9%	22	5,918	6,002	6,208	6,744	7,132	7,657	7,691	7%
FX	21	251,929	368,131	308,866	36,930			12%	21	255,400	260,643	272,500	310,107	334,246	361,541	362,236	10%
	22	32,039	94,242	56,305	15,335			27%	21	33,993	34,300	49,369	55,430	64,506	71,628	73,854	13%
	23	103,400	204,079	149,842	22,392			15%	25	115,921	127,232	135,311	150,988	162,709	170,357	187,923	9%
	24	27,036	600,230	293,249	186,370			64%	20	32,557	49,108	130,029	277,726	454,742	529,424	537,609	56%
	25	30,813	127,115	62,298	22,657			36%	25	43,784	44,452	45,679	56,032	65,314	96,470	107,317	18%
	26	283,526	984,096	657,374	223,949			34%	20	302,868	310,023	531,796	612,289	874,401	940,454	916,309	24%
	27	471,533	780,996	621,893	103,398			17%	19	481,604	496,116	520,363	612,217	720,740	728,534	740,645	16%
	28	3,853	53,642	31,510	13,665			44%	19	5,335	15,246	23,616	35,409	42,689	46,478	49,052	29%
	29	75,117	163,335	124,147	23,047			19%	19	94,182	96,838	112,895	120,532	137,055	154,069	161,605	10%
	30	327,093	479,518	410,796	40,384			10%	20	347,718	355,982	388,233	407,913	449,043	451,043	454,292	7%
Commodity	31	443,590	687,012	545,372	70,862			13%	19	452,928	458,426	497,004	530,247	576,958	643,974	665,490	7%
	32	23,644	494,617	232,845	186,895			80%	20	26,178	26,351	40,103	303,633	403,720	420,036	441,209	82%
	33	1,253	54,281	28,937	15,776			55%	11	7,452	13,650	19,451	28,325	39,691	47,454	50,868	34%
Credit Spread	34	532,160	1,142,147	794,776	190,525			24%	10	548,468	564,775	653,791	810,673	912,247	965,720	1,053,934	17%
	35	624,523	1,187,155	938,650	157,830			17%	10	730,322	836,121	866,140	923,550	987,867	1,150,539	1,168,847	7%
	36	15,665	49,466	32,491	10,358			32%	13	18,082	20,088	22,316	33,533	41,618	42,995	45,603	30%
	37	42,450	162,181	99,285	40,303			41%	13	45,466	51,845	77,178	88,161	144,039	153,137	157,750	30%
	38	4,859	17,536	12,160	4,669			39%	13	4,965	5,234	9,278	11,868	17,269	17,387	17,500	30%
	39	14,867	65,631	39,075	16,151			41%	13	15,796	17,974	29,752	38,766	54,867	59,192	61,450	30%
	40	6,244	19,089	13,188	4,616			35%	13	6,486	7,112	9,871	12,043	17,822	18,909	18,986	29%
	41	5,429	36,639	21,582	9,892			46%	13	8,214	10,684	14,684	21,598	30,195	35,301	36,332	35%
	42	24,820	79,878	44,517	16,651			37%	12	25,647	26,682	34,146	40,799	50,639	65,079	71,960	19%
	43	9,102	49,416	31,126	12,210			39%	12	10,114	12,068	27,944	32,270	36,876	44,509	46,919	14%
	44	4,854	34,024	16,105	8,604			53%	14	5,774	7,186	11,429	14,235	17,785	29,038	31,777	22%
	45	692	29,201	14,584	7,485			51%	13	2,875	5,297	11,658	14,514	19,396	20,995	24,478	25%
	46	3,832	31,868	17,518	8,212			47%	13	5,846	7,370	15,323	17,020	24,345	27,399	29,643	23%
	47	2,550	10,244	5,026	2,319			46%	12	2,742	2,902	3,690	4,327	5,700	8,212	9,379	21%
	48	14,592	42,604	26,483	8,427			32%	13	16,265	17,447	18,274	27,959	30,162	35,841	38,706	25%
	49	8,840	32,536	20,525	7,627			37%	12	10,057	11,240	15,840	20,095	25,245	30,616	31,793	23%
50	15,224	41,167	24,701	7,016			28%	13	16,146	17,120	19,310	24,063	27,152	30,863	34,999	17%	
51	53,407	380,961	191,863	99,297			52%	12	67,892	80,414	115,439	180,861	243,290	311,874	347,057	56%	
52	51,287	378,051	195,717	106,210			54%	12	64,327	77,310	108,374	185,358	268,456	340,756	360,713	42%	
53	98,238	718,802	360,453	195,825			54%	12	127,288	151,419	240,360	295,230	503,262	604,473	660,419	35%	
CTP	54								2								
	55								2								
	56								2								
All-IN no-CTP	57	1,915,791	3,959,137	2,849,481	603,677			21%	10	2,101,475	2,287,158	2,365,014	2,897,392	3,187,621	3,436,725	3,697,931	15%
	58	2,071,678	3,079,003	2,554,261	325,500			13%	13	2,122,714	2,171,369	2,279,339	2,565,601	2,701,250	2,999,873	3,051,266	8%
	59	321,112	732,294	543,333	99,760			18%	19	423,711	455,929	475,271	552,496	584,805	682,433	704,060	10%
	60	850,608	1,335,657	1,055,369	167,306			16%	19	865,361	871,899	917,947	999,846	1,201,645	1,290,913	1,313,579	13%
	61	545,181	1,137,076	793,832	193,153			24%	9	565,994	586,807	651,805	784,658	914,575	976,794	1,056,935	17%
	62	16,567	77,757	47,696	18,338			38%	13	21,308	26,618	35,786	46,696	57,005	73,950	76,728	23%
	63								2								

**Table 34: VaR statistics (low L3 A&L banks only)**

**EU Statistics for VaR**

Port ID	Other stats				Coefficient of variation (STDDev/Mean)	Num obs.	Percentiles					Interquartile range	Extreme Values range (Full Sample)					
	Min	Max	Ave.	STDDev			5th	10th	25th	50th (Median)	75th		90th	95th	STDDev_trunc <sup>1</sup>	-2*STDDev_trunc	+2*STDDev_trunc	
Equity	1	4,991,335	8,414,987	6,157,600	1,347,360	22%	7	5,037,536	5,083,737	5,223,238	5,435,966	6,907,219	7,941,635	8,178,311	14%	1,537,866	3,375,325	9,526,789
	2	4,440,420	7,160,586	5,565,996	1,022,163	18%	6	4,566,541	4,692,661	4,971,259	5,215,331	6,159,635	6,789,995	6,975,290	11%	1,136,194	3,373,840	7,918,618
	3	9,896	15,993	13,680	2,340	17%	5	10,950	11,203	13,164	14,644	14,703	15,477	15,795	6%	1,977	9,868	17,773
	4	3,200	3,794	2,469	855	35%	6	1,992	1,584	2,074	2,567	2,770	3,257	3,496	14%	1,161	156	4,911
	5	1,647,154,594	2,017,231,942	1,769,300,997	146,418,706	8%	5	1,653,143,125	1,659,131,656	1,677,097,250	1,740,285,905	1,764,735,292	1,916,233,282	1,966,732,612	3%	439,704,511	885,326,270	2,644,144,514
	6	11,473	35,468	22,478	9,030	40%	6	12,558	13,604	16,201	21,926	27,818	31,904	33,686	26%	10,428	8,266	49,980
	7						4											
	8	3,767	236,550	90,067	97,618	106%	6	6,580	9,393	16,527	69,119	124,420	191,691	224,120	77%	69,581	-15,596	364,718
	9	56,465	142,653	88,891	29,575	33%	6	60,937	65,409	75,405	81,155	94,114	120,111	131,301	21%	29,821	53,316	172,611
	10	406,432	539,372	498,951	47,895	10%	6	429,820	453,208	500,006	510,174	525,748	553,473	536,422	3%	987,875	-1,439,976	2,511,523
Interest Rate	11	65,676	109,229	82,939	18,646	22%	8	66,046	66,416	70,084	72,371	101,484	106,920	108,073	18%	21,084	53,430	137,768
	12	39,463	78,115	55,105	15,122	27%	8	39,597	39,731	42,317	53,167	62,912	75,993	77,054	20%	11,479	34,331	80,248
	13	86,840	149,983	121,551	19,429	16%	9	92,143	97,446	117,175	123,519	132,787	142,629	146,306	6%	20,464	77,820	159,677
	14	17,919	33,778	25,912	5,786	22%	9	18,491	19,062	22,664	24,822	30,513	33,023	33,500	15%	6,404	12,955	58,571
	15						1											
	16	91,067	158,205	119,555	23,426	20%	8	94,651	98,236	105,527	113,321	128,929	152,818	155,942	10%	28,990	78,696	194,673
	17	172,858	434,548	285,449	83,789	29%	7	183,065	193,272	242,774	295,214	304,988	361,811	398,179	11%	127,275	72,463	581,565
	18	127,355	583,368	366,419	160,204	44%	7	146,050	164,745	286,318	389,677	445,948	531,121	557,244	22%	166,661	119,363	786,006
	19	118,815	175,328	154,872	18,731	12%	8	130,919	133,023	137,040	160,197	168,809	179,190	179,200	10%	18,271	125,994	198,677
	20	6,156	8,678	7,137	855	12%	7	6,232	6,308	6,988	6,935	7,506	8,087	8,383	7%	1,572	3,511	9,795
	21	258,610	390,318	297,089	35,914	12%	8	259,430	260,250	263,022	294,551	325,814	335,746	342,982	11%	38,106	231,466	383,892
	22	29,217	69,972	45,220	15,737	35%	8	30,205	31,192	33,505	38,691	57,317	65,860	67,916	26%	18,783	20,402	95,535
	23	113,333	192,025	154,213	27,520	18%	7	119,621	125,909	135,618	156,348	173,274	182,526	187,276	12%	38,217	75,313	228,242
	24	41,659	541,675	242,238	187,462	77%	6	43,973	46,287	95,987	240,991	315,993	439,436	490,956	53%	166,493	-23,514	642,460
	25	45,040	80,512	56,059	12,444	22%	7	45,183	45,527	47,746	51,595	58,889	70,265	75,556	10%	52,360	-49,367	159,844
	26	283,526	939,553	515,856	222,020	43%	7	287,062	290,598	358,062	536,680	567,555	732,674	836,113	23%	234,837	122,496	1,061,846
FX	27	477,833	793,995	650,871	117,432	19%	8	483,682	495,532	533,857	568,316	710,786	750,752	772,173	14%	110,521	380,819	822,903
	28	11,534	38,185	26,051	11,525	44%	5	12,796	14,058	17,844	26,352	36,341	37,447	37,816	34%	14,001	2,478	58,482
	29	72,741	168,998	108,174	34,343	32%	7	73,454	74,167	81,927	104,102	123,762	147,025	158,012	20%	27,858	66,801	178,234
	30	327,093	444,379	380,327	35,898	9%	7	335,999	344,905	366,482	381,128	388,903	411,971	428,175	3%	40,000	322,131	482,131
	31	443,950	636,335	497,731	66,786	13%	7	444,347	445,104	450,040	498,213	502,972	557,777	597,006	6%	84,093	357,648	694,020
	32	24,254	459,852	235,835	204,782	87%	5	24,665	25,077	26,311	285,566	403,192	437,188	448,520	88%	179,731	15,429	734,554
	33						2											
	34						1											
35						1												
Credit Spread	36																	
	37																	
	38																	
	39																	
	40																	
	41																	
	42																	
	43																	
	44																	
	45																	
	46																	
	47																	
	48																	
49																		
50																		
51																		
52																		
53																		
CTP	54																	
	55																	
	56																	
	57																	
All-in no-CTP	58																	
	59	435,788	599,824	486,577	65,360	13%	5	439,088	442,387	452,286	465,047	479,842	551,871	575,848	3%	114,700	290,753	749,552
	60	873,124	1,035,236	946,878	61,455	6%	5	881,335	889,546	914,180	938,215	973,637	1,010,596	1,022,916	3%	171,608	672,624	1,359,056
	61																	
	62																	
	63																	

Table 35: VaR statistics (medium L3 A&L banks only)

EU Statistics for VaR

Port ID	Other stats						Percentiles										Interquartile range	Extreme Values range (Full Sample)		
	Min	Max	Ave.	STDev	Coefficient of variation (STDev/Mean)	Num. obs.	5th	10th	25th	50th (Median)	75th	90th	95th	STDev_Trunc <sup>1</sup>	-2*STDev_Trunc	+2*STDev_Trunc				
1	4,783,699	9,306,031	6,725,038	1,601,756	24%	14	4,849,712	4,927,596	5,156,294	6,529,820	7,959,318	8,851,614	9,246,269	21%	1,537,866	3,375,325	9,526,789			
2	3,940,627	7,869,708	6,228,768	1,279,085	21%	12	4,464,179	4,901,466	5,147,400	6,218,427	7,489,751	7,568,621	7,706,783	19%	1,136,194	3,373,840	7,918,618			
3	11,059	16,920	14,469	1,618	11%	12	12,695	13,116	13,221	13,904	15,927	16,517	16,699	9%	1,377	9,688	17,775			
4	1,238	3,107	2,125	669	51%	11	1,318	1,398	1,505	2,144	2,749	2,886	2,997	29%	1,161	2,568	4,911			
5	1,571,817,976	2,599,327,809	1,856,719,589	329,566,444	18%	1	1,605,033,949	1,637,249,922	1,689,058,949	1,734,477,403	1,813,040,859	2,276,814,379	2,438,071,094	4%	439,704,511	885,326,270	2,644,144,514			
6	17,478	42,632	30,957	6,953	22%	12	18,877	20,714	28,578	32,180	35,232	35,354	38,634	10%	10,428	8,266	49,980			
7	24,529	158,997	84,133	45,964	55%	13	31,211	37,294	53,427	58,154	117,835	151,921	158,830	38%	48,504	-26,745	167,269			
8	75,670	212,264	140,828	40,188	29%	12	93,664	108,832	115,188	126,283	165,419	199,310	207,700	18%	69,581	-15,596	264,728			
9	70,059	161,193	112,229	31,997	25%	15	77,095	81,423	88,591	132,700	145,684	157,211	158,492	24%	35,851	53,324	172,611			
10	468,567	872,461	594,587	106,740	18%	11	486,188	503,809	525,965	611,304	616,329	622,128	747,295	8%	987,875	-1,459,976	2,511,523			
11	68,229	126,785	101,246	21,060	21%	18	69,118	73,663	82,014	102,912	122,587	125,714	126,045	20%	21,084	53,430	137,768			
12	44,087	75,216	55,645	9,258	17%	16	44,544	44,853	47,965	54,563	61,235	67,087	71,525	12%	11,479	34,331	80,248			
13	99,760	157,013	120,354	16,805	14%	13	104,660	107,945	108,972	113,046	130,448	142,275	149,023	9%	20,464	77,820	159,677			
14	13,138	37,435	26,959	7,294	27%	16	14,693	18,390	22,655	26,734	32,331	35,399	35,965	18%	6,404	12,955	38,571			
15	19,811	72,877	35,351	18,559	52%	8	20,286	20,760	21,431	29,748	39,533	58,855	85,866	30%	57,490	-85,532	144,727			
16	106,815	189,180	143,301	29,111	20%	18	107,731	108,402	113,204	143,603	163,844	184,403	187,344	18%	28,990	78,696	194,657			
17	159,319	581,027	409,412	126,887	31%	17	228,342	277,113	313,530	410,924	530,723	547,022	559,119	26%	127,275	72,463	581,565			
18	209,902	765,825	527,504	159,096	30%	17	333,195	383,808	419,108	506,222	652,707	741,266	762,491	23%	166,661	119,363	786,006			
19	133,079	187,991	161,896	18,290	11%	10	137,018	138,464	141,907	163,806	178,900	184,604	185,763	10%	18,271	125,994	198,677			
20	4,561	7,691	6,518	855	13%	17	5,397	5,697	6,214	6,571	7,249	7,524	7,686	10%	1,572	3,511	6,995			
21	246,844	343,982	303,424	33,568	11%	16	250,658	256,266	268,508	313,528	330,416	337,713	341,881	10%	38,106	231,466	383,892			
22	37,618	94,242	57,876	15,869	27%	16	37,824	38,633	47,331	55,563	67,016	75,322	81,153	17%	18,783	20,402	95,535			
23	113,730	191,571	152,252	18,190	12%	17	123,764	130,024	145,819	151,827	164,328	168,871	176,979	6%	38,257	75,313	228,242			
24	55,419	600,230	335,701	138,676	47%	13	108,237	161,099	242,233	323,003	481,228	528,489	960,689	33%	166,493	-23,514	642,460			
25	38,549	109,154	59,636	16,228	27%	18	42,868	44,219	48,761	56,419	65,005	74,724	80,499	14%	32,389	-49,267	159,844			
26	310,588	984,096	689,015	205,016	30%	16	428,585	484,288	597,198	638,917	882,380	956,208	977,348	23%	234,837	122,496	1,061,846			
27	436,628	723,273	595,638	104,018	17%	14	466,568	487,725	516,324	574,656	707,603	721,507	722,873	16%	110,521	380,819	822,903			
28	17,708	53,642	36,519	9,889	27%	14	23,403	26,772	30,523	35,686	43,123	47,768	50,327	18%	14,001	2,478	58,482			
29	96,973	161,413	130,153	22,952	18%	12	99,643	102,042	113,882	127,280	151,324	153,840	157,041	14%	27,858	66,801	178,234			
30	373,844	479,518	419,998	30,795	7%	13	378,577	384,315	401,348	409,313	445,447	450,076	461,884	9%	40,000	312,131	482,131			
31	443,957	663,099	552,792	69,821	13%	12	452,533	462,297	518,967	549,946	594,192	638,770	649,951	7%	84,009	397,648	694,020			
32	23,644	438,998	234,332	190,024	81%	15	25,542	26,647	40,054	376,883	405,837	420,491	427,028	82%	179,731	-15,429	734,554			
33	1,253	54,281	28,045	15,791	56%	9	6,212	11,171	21,583	28,325	32,345	47,584	50,933	20%	24,211	-10,082	76,764			
34	568,399	1,142,147	828,647	188,408	23%	8	595,459	622,518	669,949	865,603	924,705	1,004,926	1,073,537	16%	180,851	453,378	1,176,784			
35	624,523	1,187,155	921,012	157,690	17%	8	706,811	789,099	863,066	992,550	979,612	1,050,542	1,118,849	6%	180,005	567,127	1,287,145			
36	14,394	49,466	28,540	11,604	41%	14	15,220	15,822	18,951	26,516	36,759	42,604	45,261	32%	13,779	9,157	52,275			
37	42,450	162,181	88,377	38,218	43%	11	44,964	47,477	61,683	79,009	104,145	144,039	153,110	26%	41,547	5,096	171,255			
38	4,859	17,636	10,525	4,665	44%	14	4,974	5,377	6,579	9,515	14,579	17,368	17,489	38%	4,959	847	20,684			
39	14,867	58,662	33,622	15,206	45%	12	15,719	16,645	20,794	32,316	43,777	55,355	57,368	36%	16,453	3,917	69,729			
40	6,177	19,089	11,380	4,255	37%	14	6,221	6,365	9,021	10,597	14,238	17,750	18,953	22%	4,967	1,398	21,267			
41	5,429	36,639	20,046	9,170	46%	13	8,607	10,061	13,911	18,930	26,642	31,826	33,388	31%	9,351	501	37,965			
42	24,820	79,878	40,122	15,293	38%	11	25,571	26,323	29,335	40,736	43,731	47,030	68,454	20%	33,462	-124	81,845			
43	5,102	49,416	31,035	13,304	43%	9	12,619	16,136	20,614	30,913	41,206	45,784	47,600	33%	21,500	-9,574	76,626			
44	4,854	34,024	15,771	9,065	58%	11	6,611	8,368	9,895	12,655	16,660	30,567	32,296	25%	9,688	-3,267	35,487			
45	692	29,201	12,931	8,389	65%	12	2,602	4,182	6,318	12,400	18,662	21,162	24,871	49%	9,249	-5,459	31,537			
46	3,832	31,868	16,687	8,783	53%	13	5,736	7,043	8,095	15,774	24,945	27,510	29,643	50%	8,415	-434	33,228			
47	2,550	10,244	5,394	2,481	46%	14	2,583	2,699	3,948	4,586	6,098	8,903	9,958	28%	5,866	-6,952	16,273			
48	14,592	42,604	26,032	8,586	33%	13	16,285	17,447	18,274	26,157	30,794	35,841	38,705	25%	9,125	8,807	45,309			
49	7,734	32,536	18,177	7,764	43%	13	8,398	9,478	12,919	16,814	22,068	30,047	31,725	26%	7,787	1,620	32,766			
50	9,843	41,167	22,493	8,293	37%	14	12,648	14,212	15,608	23,382	27,123	29,786	34,408	27%	10,038	3,305	43,459			
51	53,407	244,887	149,469	63,944	43%	11	66,575	79,749	99,389	169,907	182,524	242,758	243,823	29%	106,157	-40,453	384,175			
52	51,287	288,617	153,621	71,984	47%	10	61,996	72,625	101,545	157,096	201,204	217,909	258,888	33%	156,651	-135,417	491,106			
53	98,238	718,892	515,790	177,213	56%	11	124,648	151,057	209,024	280,322	370,617	494,060	606,451	38%	214,953	-134,626	735,135			
54						-2														
55						-2														
56						-2														
57	1,915,791	3,078,679	2,744,175	507,161	18%	9	2,080,843	2,245,895	2,331,161	2,841,486	3,215,111	3,289,382	3,334,031	16%	587,787	1,721,819	4,072,965			
58	2,156,738	3,079,003	2,524,133	307,667	12%	11	2,171,369	2,186,000	2,254,617	2,504,512	2,704,200	2,868,271	2,979,637	9%	339,874	1,605,851	3,165,348			
59	321,112	732,294	541,492	96,634	18%	17	412,311	456,404	489,087	523,761	576,638	666,674	707,187	7%	114,700	290,753	749,552			
60	850,608	1,335,657	1,075,114	174,593	16%	13	876,117	894,867	921,713	1,031,834	1,236,518	1,285,745	1,305,779	15%	171,608	672,424	1,358,056			
61	597,214	1,137,076	830,664	194,532	23%	7	613,591	629,699	664,478	900,106	925,649	1,016,864	1,076,970	16%	287,899	208,860	1,360,456			
62	16,567	77,757	42,988	17,769	41%	12	20,921	24,495	32,563	41,705	50,820	64,723	71,060	22%	19,901	4,734	84,338			
63						-2														

**Table 36: VaR statistics (high L3 A&L banks only)**

**EU Statistics for VaR**

Port. ID	Other stats					Percentiles						Interquartile range	Extreme Values range (Full Sample)						
	Min	Max	Ave.	STDev	Coefficient of variation (STDev/Mean)	Num. obs.	5th	10th	25th	50th (Median)	75th		90th	95th	STDev_Trunc <sup>1</sup>	-2*STDev_Trunc	+2*STDev_Trunc		
Equity	1	4,823,312	9,409,963	6,799,583	1,684,569	25%	6	4,882,843	4,942,375	5,550,209	7,099,305	7,273,652	8,357,069	8,883,516	13%	1,537,866	3,375,325	9,526,789	
	2	4,778,782	7,187,250	5,623,973	939,269	17%	5	4,828,134	4,877,486	5,025,543	5,511,961	5,616,331	6,558,882	6,873,066	6%	1,136,194	3,373,840	7,918,618	
	3		12,316	16,049	14,437	1519	11%	5	12,547	12,777	13,489	14,947	15,405	15,920	7%	1,977	9,866	17,773	
	4						4												
	5	1,685,228,930	2,631,068,121	2,061,510,450	385,452,532	18%	5	1,700,152,191	1,715,075,451	1,759,845,233	1,900,335,735	2,241,074,233	2,475,070,566	2,553,069,343	12%	439,704,511	885,326,270	2,644,144,314	
	6		12,025	38,264	21,745	11,452	53%	5	12,219	12,412	12,993	17,417	27,028	34,370	36,817	35%	10,428	8,266	49,980
	7						3												
	8						4												
	9	81,057	154,995	120,715	35,293	29%	5	82,382	81,707	83,681	134,901	148,043	152,154	153,525	28%	39,821	53,326	172,611	
	10	480,402	644,354	540,567	67,842	13%	5	481,553	482,705	486,159	523,597	568,324	613,942	629,148	8%	987,875	-1,439,976	2,511,523	
	Interest Rate	11	67,662	132,060	98,505	24,553	25%	9	67,773	67,884	80,129	95,730	124,031	127,521	129,790	22%	11,084	53,430	137,768
12		54,584	73,830	64,827	6,604	10%	7	56,410	58,235	61,261	63,921	69,467	72,226	73,028	6%	11,479	34,331	80,248	
13		79,011	138,991	118,106	19,128	16%	8	88,663	98,315	111,111	122,248	130,344	135,514	137,253	8%	20,464	77,820	159,677	
14		15,991	35,581	26,759	7,658	29%	9	16,139	18,286	19,879	29,553	31,988	34,710	35,145	23%	6,404	12,955	38,571	
15							1												
16		80,991	189,389	139,139	37,705	27%	8	88,651	96,311	107,068	150,138	161,225	178,774	184,081	20%	28,990	78,696	194,675	
17		206,277	501,927	343,051	109,069	32%	7	220,416	234,556	277,747	322,929	407,366	485,521	493,724	19%	127,275	72,463	581,565	
18		178,173	718,775	431,310	178,089	41%	7	207,299	236,425	334,745	422,301	515,218	622,414	670,595	21%	166,661	119,563	786,006	
19		138,281	183,212	159,947	19,745	12%	9	139,052	139,823	140,808	160,380	180,548	182,146	182,679	12%	18,271	125,994	198,677	
20		5,026	7,834	6,591	823	12%	8	5,375	5,724	6,223	6,833	6,938	7,240	7,327	5%	1,572	3,511	9,795	
21		245,509	368,131	307,524	47,776	16%	9	252,441	259,372	268,772	308,470	361,541	363,415	365,773	15%	38,106	231,466	383,892	
22		55,133	71,628	63,617	5,975	9%	5	56,498	57,863	61,958	63,775	65,589	69,212	70,420	3%	18,783	20,402	95,535	
23		128,670	162,709	142,269	13,023	9%	7	128,919	129,167	132,405	138,797	150,447	158,571	160,640	6%	38,257	75,313	228,342	
24		27,038	528,881	224,769	216,831	96%	7	28,780	30,523	50,664	89,668	413,237	460,942	494,912	78%	166,493	-23,514	642,460	
25		30,813	127,115	64,828	33,533	52%	7	32,856	34,988	45,675	53,820	75,351	105,580	116,946	25%	52,303	-49,367	159,844	
26		304,839	873,040	610,490	214,070	35%	7	331,972	359,005	484,984	582,510	771,488	859,271	886,155	23%	234,837	122,496	1,061,846	
FX	27	491,827	780,996	663,180	116,106	18%	7	509,102	526,377	570,578	724,253	752,049	767,161	774,079	14%	110,521	380,619	822,903	
	28	3,853	43,998	23,795	13,287	56%	7	7,274	10,695	17,995	20,762	31,581	38,941	41,470	29%	14,001	2,478	58,482	
	29	100,190	163,335	122,930	22,435	18%	7	101,391	102,592	107,419	120,063	131,042	150,373	156,854	10%	27,858	66,801	178,234	
	30	348,803	452,964	413,344	40,860	10%	8	357,692	366,581	390,618	422,608	445,496	450,843	451,904	7%	40,000	312,131	482,131	
	31	459,168	687,012	545,831	78,652	14%	6	468,310	477,451	502,320	533,459	560,837	626,585	656,796	6%	84,003	357,648	694,020	
32	41,912	494,617	353,412	158,466	45%	6	125,197	208,402	377,273	393,064	417,618	458,770	476,693	5%	179,731	15,429	734,554		
Commodity	33																		
	34																		
	35																		
Credit Spread	36																		
	37																		
	38																		
	39																		
	40																		
	41																		
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53																			
CTP	54																		
	55																		
56																			
ALL-IN no-CTP	57																		
Equity Cumulative	58																		
IR Cumulative	59	399,625	677,810	523,936	99,241	19%	6	415,002	430,379	464,335	514,682	570,619	626,747	652,279	10%	114,700	290,753	749,552	
FX Cumulative	60	999,846	1,311,126	1,160,662	132,894	11%	5	1,015,295	1,030,745	1,077,093	1,134,316	1,280,928	1,299,047	1,305,086	9%	171,608	672,624	1,359,056	
Commodity Cumulative	61																		
CS Cumulative	62																		
CTP Cumulative	63																		

Table 37: VaR statistics (IR and CS asset classes – only banks with general and specific IR risk approval)

EU Statistics for VaR

Port. ID	Other stats							Percentiles							Interquartile range
	Min	Max	Ave.	STDev	Coefficient of variation (STDev/Mean)	Num obs.	5th	10th	25th	50th (Median)	75th	90th	95th		
11	66,733	132,060	100,939	21,247	21%	20	69,148	71,008	81,702	102,083	117,812	126,001	127,049	18%	
12	43,141	78,115	57,724	10,616	18%	18	44,463	44,915	49,096	57,061	63,074	72,375	75,651	12%	
13	79,011	143,696	119,712	16,535	14%	17	95,610	104,660	108,446	120,072	132,787	137,550	139,932	10%	
14	13,138	37,435	27,208	8,121	30%	19	13,906	14,967	22,017	30,741	34,472	35,496	35,766	22%	
15	19,811	72,877	32,918	16,861	51%	10	20,421	21,031	22,462	28,086	29,789	54,848	63,863	14%	
16	101,308	189,389	144,145	28,122	20%	20	107,562	108,747	115,922	150,340	160,835	187,236	189,190	16%	
17	246,595	581,027	414,096	105,821	26%	18	287,921	296,223	315,880	422,736	500,148	537,761	548,300	23%	
18	389,677	782,626	566,885	147,494	26%	19	393,775	395,331	415,024	580,952	711,700	762,691	767,505	26%	
19	137,778	187,931	163,242	17,701	11%	18	138,248	138,517	144,355	165,743	174,067	184,430	185,474	9%	
20	4,561	7,814	6,646	826	12%	17	5,564	5,874	6,141	6,591	7,249	7,687	7,716	8%	
21	251,929	362,236	307,703	34,105	11%	18	259,336	260,860	274,124	320,007	330,830	342,021	346,720	9%	
22	32,039	94,242	58,183	16,510	28%	18	34,590	37,036	43,681	61,100	68,606	74,735	79,408	22%	
23	126,273	204,079	161,907	17,969	11%	17	137,811	146,807	152,704	158,943	165,897	182,345	194,073	4%	
24	68,479	600,230	374,123	141,561	38%	18	206,794	231,434	274,274	349,717	499,201	536,522	550,458	29%	
25	30,813	99,968	58,725	15,698	27%	18	41,707	44,259	46,149	57,836	65,060	74,724	79,081	27%	
26	467,917	984,096	721,028	187,140	26%	17	494,110	522,271	574,264	648,009	897,666	954,091	977,538	22%	
36	14,994	49,466	30,084	10,833	36%	18	15,474	16,030	20,186	31,774	36,928	42,916	43,993	29%	
37	42,450	162,181	100,597	40,755	41%	16	46,220	50,763	75,213	93,795	144,655	155,900	158,298	32%	
38	4,859	17,636	11,335	4,655	41%	16	4,992	5,605	7,176	11,268	15,930	17,352	17,467	38%	
39	14,867	65,631	38,600	16,211	42%	17	16,106	17,787	24,205	38,766	54,867	57,894	60,056	39%	
40	6,177	19,089	12,127	4,668	38%	16	6,227	6,446	9,122	10,597	15,792	18,898	18,960	27%	
41	5,429	36,639	21,378	9,623	45%	17	9,130	10,065	14,684	19,262	30,195	35,247	36,230	35%	
42	24,820	79,878	45,439	17,149	38%	15	25,872	27,295	32,736	40,861	54,247	70,199	75,305	25%	
43	9,102	49,416	30,788	11,780	38%	14	14,817	18,653	21,010	30,866	39,685	44,934	46,519	31%	
44	4,854	34,024	15,859	8,013	51%	16	7,490	8,847	10,976	14,235	17,204	20,818	21,431	22%	
45	449	29,201	12,886	8,172	63%	16	631	2,429	6,318	13,137	18,597	20,494	23,297	49%	
46	3,832	31,868	17,239	8,490	49%	16	5,934	6,821	12,321	16,997	24,349	28,338	29,354	33%	
47	2,550	10,244	5,150	2,339	45%	16	2,588	2,750	3,690	4,586	5,884	8,764	9,394	23%	
48	12,818	42,823	26,965	9,204	34%	16	14,149	15,987	19,935	28,120	31,315	39,356	42,659	22%	
49	7,734	32,536	18,290	7,532	41%	17	8,619	10,118	12,030	17,153	24,876	27,771	31,455	33%	
50	14,159	36,455	22,858	6,608	29%	17	14,301	14,869	16,760	22,701	27,152	30,816	32,001	24%	
51	53,407	380,961	188,321	91,476	49%	15	71,842	82,425	118,716	171,861	242,432	289,545	337,810	34%	
52	51,287	378,051	196,305	96,382	49%	15	67,883	84,250	134,193	177,845	261,096	323,443	355,984	32%	
53	98,238	718,802	350,333	182,252	52%	14	132,570	152,143	264,759	295,230	476,891	588,116	649,804	29%	
IR Cumulative	435,111	732,294	554,911	86,095	16%	19	450,569	466,937	478,082	552,496	596,875	682,433	704,060	11%	
CS Cumulative	16,567	77,757	44,417	18,252	41%	16	22,493	24,476	32,563	42,354	53,828	70,811	76,471	25%	

Table 38: VaR statistics (IR and CS asset classes – only banks with general IR risk approval)

EU Statistics for VaR

Port. ID	Other stats							Percentiles							Interquartile range
	Min	Max	Ave.	STDev	Coefficient of variation (STDev/Mean)	Num obs.	5th	10th	25th	50th (Median)	75th	90th	95th		
11	63,600	128,635	90,466	22,859	25%	16	65,157	66,669	68,157	87,313	101,484	126,007	126,948	20%	
12	39,463	75,084	56,309	12,181	22%	14	39,712	40,282	45,392	57,039	63,911	72,014	74,269	17%	
13	86,840	157,013	119,795	18,540	15%	15	96,121	102,694	109,844	117,717	127,443	146,306	152,092	7%	
14	17,919	34,492	25,812	4,821	19%	17	19,072	19,671	22,400	24,822	29,553	31,192	32,489	14%	
15						1									
16	80,991	183,281	127,571	33,496	26%	16	88,548	95,734	105,838	110,970	156,063	176,864	180,448	19%	
17	155,329	501,927	279,335	92,864	33%	12	164,970	176,200	206,731	290,376	313,372	337,487	412,949	21%	
18	127,355	558,174	341,290	141,445	41%	12	155,305	179,323	204,844	373,491	434,791	493,886	524,137	36%	
19	134,300	181,880	156,514	17,640	11%	15	134,669	136,209	141,552	156,882	173,455	178,460	180,948	10%	
20	5,026	8,678	6,659	883	13%	14	5,501	5,830	6,056	6,799	7,132	7,322	7,797	8%	
21	245,509	368,131	297,959	40,705	14%	15	252,433	256,684	263,407	302,717	321,147	357,012	363,518	10%	
22	19,217	71,638	50,567	14,053	28%	13	32,083	34,054	37,618	53,020	64,098	65,925	68,257	26%	
23	103,400	192,025	139,369	20,832	15%	16	110,850	119,128	129,292	136,127	146,139	161,090	175,771	6%	
24	27,036	468,104	157,074	163,946	104%	10	29,651	32,267	43,973	72,544	223,955	416,552	442,328	67%	
25	34,270	127,115	62,668	25,996	41%	16	36,784	41,011	48,740	53,981	62,888	100,189	113,644	13%	
26	283,526	850,091	485,087	180,955	37%	12	290,009	296,276	309,176	463,406	592,817	683,072	763,628	31%	
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53															
IR Cumulative	321,112	575,684	464,574	82,907	18%	8	348,592	376,071	426,747	463,090	514,094	564,085	569,885	9%	
CS Cumulative															

**Table 39: VaR statistics (EQ asset class – only banks with general and specific EQ risk approval)**

**EU Statistics for VaR**

Port. ID	Other stats					Num obs.	Percentiles								Interquartile range
	Min	Max	Ave.	STDev	Coefficient of variation (STDev/Mean)		5th	10th	25th	50th (Median)	75th	90th	95th		
1	4,783,699	9,409,963	6,645,280	1,576,152	24%	22	4,826,409	4,895,866	5,162,086	6,529,820	7,862,747	9,093,265	9,301,434	21%	
2	3,940,627	7,869,708	6,058,447	1,174,075	19%	19	4,797,349	4,934,430	5,037,937	5,952,884	7,173,918	7,534,604	7,603,103	17%	
3	9,896	16,920	14,200	1,722	12%	21	12,059	12,300	13,198	13,989	15,405	16,507	16,518	8%	
4	984	3,734	2,197	799	36%	20	1,189	1,234	1,421	2,146	2,768	3,126	3,322	32%	
5	1,572,817,976	2,631,068,121	1,902,518,860	335,086,030	18%	16	1,633,222,926	1,665,227,580	1,688,100,994	1,745,289,735	2,041,798,307	2,420,201,021	2,607,262,887	9%	
6	11,473	42,632	27,579	9,424	34%	20	11,997	12,896	19,386	29,296	35,232	35,848	39,432	29%	
7	21,125	159,339	91,434	47,311	52%	18	30,799	34,718	54,558	94,183	124,553	158,802	159,048	39%	
8	3,767	256,550	132,667	65,257	49%	21	21,053	68,250	108,387	126,831	168,964	212,264	241,200	22%	
9	74,352	161,193	119,168	31,473	26%	22	80,208	82,191	86,329	130,078	146,227	156,811	157,319	26%	
10	468,567	872,461	568,686	91,387	16%	19	479,219	496,067	511,783	532,174	613,972	626,573	667,165	9%	
Equity Cumulative	58	2,156,738	3,079,003	2,533,963	303,286	12%	15	2,177,221	2,203,558	2,259,674	2,495,702	2,704,200	2,966,973	3,046,643	9%

**Table 40: VaR statistics (EQ asset class – only banks with general EQ risk approval)**

**EU Statistics for VaR**

Port. ID	Other stats					Num obs.	Percentiles								Interquartile range
	Min	Max	Ave.	STDev	Coefficient of variation (STDev/Mean)		5th	10th	25th	50th (Median)	75th	90th	95th		
1	5,023,255	8,841,352	6,134,072	1,545,748	25%	9	5,038,528	5,053,801	5,137,617	5,265,000	7,016,525	8,500,260	8,670,806	15%	
2	4,440,420	5,646,229	5,086,903	448,950	9%	6	4,525,011	4,609,601	4,846,669	5,072,012	5,407,394	5,579,095	5,612,662	5%	
3	9,896	16,475	12,374	2,205	18%	6	10,245	10,594	11,459	12,132	12,312	14,396	15,435	4%	
4	1,105	3,300	2,522	863	34%	5	1,363	1,621	2,394	2,739	3,071	3,208	3,254	12%	
5	1,640,930,027	2,596,289,673	1,828,189,425	378,906,498	21%	6	1,642,486,169	1,644,042,311	1,647,320,888	1,662,458,510	1,739,158,237	2,178,067,453	2,387,178,563	3%	
6	15,734	49,274	28,353	10,675	38%	8	15,902	16,071	23,554	27,684	30,619	39,357	44,316	13%	
7	24,529	139,600	66,463	44,138	66%	5	28,336	32,143	43,565	54,359	70,262	111,865	125,732	23%	
8	15,018	241,200	82,703	92,408	112%	5	16,225	17,432	21,053	57,437	78,805	176,242	208,721	58%	
9	56,465	127,376	90,219	24,780	27%	8	61,223	65,981	73,279	85,741	105,925	123,040	125,208	18%	
10	406,432	947,372	551,661	196,749	36%	6	425,203	443,975	482,678	487,284	497,158	723,724	835,548	1%	
Equity Cumulative	58					3									

Table 41: Stress VaR statistics (2008-2009 stress period only)

EU Statistics for SVaR

Port. ID	Other stats					Percentiles											Interquartile range
	Min	Max	Ave.	STDev	STDev_trunc <sup>2</sup>	MAD (median absolute deviation)	Coefficient of variation (STDev/Mean)	Num obs.	5th	10th	25th	50th (Median)	75th	90th	95th		
Equity	1	5,433,112	8,512,575	7,279,417	848,484			12%	23	6,171,866	6,264,279	6,744,317	7,113,033	7,965,187	8,416,764	8,491,672	8%
	2	5,440,368	13,327,973	9,769,334	2,397,540			25%	18	6,245,432	6,907,735	7,643,973	9,917,573	12,026,938	12,427,305	12,637,895	2%
	3	6,648	21,732	15,212	4,817			32%	20	8,195	9,836	11,328	14,752	20,016	21,148	21,432	28%
	4	821	4,240	2,639	951			36%	18	857	1,093	2,247	2,764	3,287	3,608	3,718	19%
	5	1,108,810,204	4,506,136,975	3,219,260,656	732,388,642			23%	20				3,320,354,927			4,087,382,601	13%
	6	15,872	52,592	35,783	10,529			29%	20	19,261	23,721	27,136	39,249	43,591	47,009	48,223	23%
	7	21,096	114,672	68,464	24,642			36%	17	26,819	39,079	55,994	67,047	83,499	96,954	103,734	20%
	8	32,476	136,800	95,901	31,579			33%	17	38,902	56,827	79,562	98,048	126,835	132,332	133,646	23%
	9	59,911	131,138	106,813	22,737			21%	23	69,109	70,847	93,549	115,915	126,615	129,461	130,588	15%
	10	510,381	1,722,085	995,894	260,943			26%	19	654,987	733,712	901,608	943,501	1,085,168	1,201,427	1,419,537	9%
Interest Rate	11	54,385	289,221	190,952	63,586			33%	26	78,121	94,250	153,614	215,007	233,019	249,280	253,823	21%
	12	12,466	181,611	97,989	45,365			46%	25	25,876	36,254	62,075	102,693	127,592	141,645	171,246	35%
	13	134,408	421,383	301,812	88,105			29%	25	149,077	168,021	227,932	343,972	361,455	386,761	411,733	23%
	14	19,301	134,460	79,682	28,138			35%	27	35,857	38,476	69,018	85,280	96,038	107,993	116,689	16%
	15	28,090	151,678	83,100	44,855			54%	16	30,851	33,612	48,776	70,365	125,634	137,455	144,567	44%
	16	94,540	269,539	183,268	40,558			21%	24	132,575	134,207	151,179	186,458	206,702	218,898	236,485	16%
	17	173,140	471,850	319,035	83,438			26%	24	197,687	209,079	254,305	313,256	388,446	409,673	430,964	21%
	18	121,160	452,558	277,266	77,497			28%	24	172,301	179,679	225,189	275,215	339,355	355,277	381,839	30%
	19	121,487	455,478	297,675	84,840			29%	23	127,133	142,924	291,807	321,400	348,999	364,158	378,149	31%
	20	146	23,971	12,093	6,625			55%	21	717	1,917	7,999	12,433	15,313	21,617	22,566	9%
	21	200,151	851,258	569,635	201,305			35%	26	228,880	240,743	405,284	643,399	691,195	789,782	839,814	26%
	22	43,392	223,825	143,699	51,968			36%	25	59,449	66,486	112,682	144,800	175,083	206,026	219,510	22%
23	41,843	412,710	249,948	76,203			30%	24	110,000	189,813	205,027	266,582	285,989	322,638	328,725	16%	
24	24,765	793,086	378,370	226,375			60%	21	121,155	146,177	184,649	333,805	520,820	700,049	731,369	6%	
25	79,742	410,377	191,828	77,364			40%	24	94,995	106,583	149,230	177,126	219,319	288,520	329,066	19%	
26	192,500	714,677	487,241	157,605			32%	25	247,464	266,966	379,383	539,496	585,986	689,103	712,119	22%	
FX	27	519,221	1,195,800	859,499	144,819			17%	25	630,417	666,897	785,044	836,948	952,227	1,036,729	1,114,243	10%
	28	3,753	45,279	22,394	10,973			49%	21	9,000	9,568	17,381	20,338	25,852	39,006	39,039	20%
	29	194,733	378,814	268,295	58,943			22%	22	196,750	199,426	227,293	247,898	309,725	369,799	375,943	15%
	30	612,333	1,290,809	934,245	198,745			21%	24	634,986	646,068	775,813	989,921	1,050,945	1,116,331	1,259,401	15%
	31	949,476	1,591,664	1,211,076	186,535			15%	24	973,788	978,972	1,026,890	1,223,838	1,343,677	1,433,772	1,507,341	13%
	32	102,160	1,137,237	545,244	383,785			70%	23	129,204	131,791	143,596	227,020	869,729	999,524	1,036,791	72%
	33	6,868	45,958	25,329	10,282			41%	12	12,073	16,386	17,557	25,244	29,714	36,118	40,918	26%
Commodity	34	344,485	664,837	476,051	101,296			21%	10	360,596	376,708	404,527	451,842	549,209	570,839	617,838	15%
	35	986,869	1,313,046	1,192,482	134,951			11%	10	990,813	994,757	1,069,715	1,260,519	1,286,553	1,309,930	1,311,488	9%
	36	8,935	36,128	21,344	7,100			33%	15	11,474	13,460	16,775	21,191	25,015	29,856	33,213	20%
Credit Spread	37	56,963	198,704	114,277	45,674			40%	13	59,244	62,848	73,839	117,683	139,173	170,397	181,977	27%
	38	6,748	33,307	17,096	7,962			47%	16	7,749	8,094	8,776	19,523	21,355	25,400	28,407	42%
	39	22,131	83,810	46,357	21,680			47%	13	23,376	24,322	25,393	41,248	51,283	80,732	82,037	34%
	40	9,512	42,750	26,215	12,348			47%	16	11,264	12,190	12,538	29,753	38,716	39,808	40,551	51%
	41	14,800	55,963	35,868	14,370			40%	15	14,964	15,067	21,658	38,859	46,417	50,587	53,181	36%
	42	26,318	115,566	67,440	31,743			47%	12	29,969	34,365	47,725	53,223	102,350	110,562	113,226	36%
	43	12,033	79,953	49,942	22,988			46%	16	16,319	19,374	35,735	47,418	69,157	78,469	79,849	42%
	44	6,105	42,940	24,467	13,018			53%	15	6,859	7,787	13,521	25,725	36,035	41,589	42,181	35%
	45	885	35,924	16,525	10,425			63%	15	3,210	4,991	8,248	15,451	22,580	30,077	34,590	46%
	46	4,321	28,169	14,701	6,498			44%	15	4,710	5,982	12,633	14,485	16,459	22,886	26,253	13%
	47	6,141	18,953	10,210	3,411			33%	14	7,430	8,139	8,448	9,040	9,787	14,867	16,717	7%
	48	13,280	59,053	35,521	12,584			35%	15	16,007	20,841	28,604	37,907	40,185	51,999	57,500	17%
	49	7,134	33,214	14,979	6,993			47%	14	7,818	8,280	9,517	14,331	17,850	21,059	25,653	30%
	50	8,521	26,677	19,659	5,337			27%	16	10,789	13,328	15,449	20,101	24,349	25,085	25,497	22%
	51	95,115	369,338	198,463	80,014			40%	12	108,999	120,971	138,581	190,456	244,562	277,272	319,933	28%
	52	114,493	607,276	250,462	140,627			56%	12	122,120	130,385	151,868	204,611	334,289	355,129	469,023	38%
	53	163,480	997,836	428,535	222,675			52%	12	216,057	261,637	286,668	353,077	546,100	594,872	779,059	31%
CTP	54	5,360	19,490	11,235	7,360			66%	3	5,710	6,059	7,108	8,855	14,173	17,363	18,427	33%
	55	73,635	85,425	79,530	8,337			10%	2	74,225	74,814	76,583	79,530	82,478	84,246	84,836	4%
	56	322,181	1,666,526	994,354	950,595			96%	2	389,398	456,616	658,267	994,354	1,330,440	1,532,092	1,599,309	34%
All-in no-CTP	57	4,137,597	6,614,645	5,307,769	658,805			12%	12	4,298,512	4,490,412	5,085,707	5,308,371	5,605,418	6,034,028	6,320,938	5%
	58	2,598,077	5,678,055	4,763,989	780,494			16%	5,512,398	3,929,687	4,443,142	4,965,726	5,236,118	5,520,980	5,590,730	8%	
	59	184,134	804,925	516,769	173,708			34%	24	212,088	289,893	417,638	519,034	662,498	727,703	747,870	23%
	60	1,535,293	3,037,434	2,289,085	462,689			20%	22	1,568,537	1,587,872	2,032,313	2,232,916	2,669,372	2,948,239	2,967,285	14%
	61	344,700	840,710	469,425	99,810			21%	10	357,001	369,302	387,069	447,914	545,975	575,742	608,226	17%
	62	19,523	89,603	55,167	21,207			38%	15	26,331	29,539	38,393	52,921	69,819	81,669	85,258	29%
	63	1,344,348	1,376,298	1,360,323	22,592			2%	-1	1,345,946	1,347,543	1,352,336	1,360,323	1,368,311	1,373,103	1,374,701	1%



Table 42: PV statistics

EU Statistics for PV

Port. ID	Main statistics							Percentiles			Interquantic range		
	Min	Max	Ave	STDev	STDev_trunc <sup>1</sup>	MAD (median absolute deviation)	Coefficient of variation (STDev/Ave)	Num obs. <sup>2</sup>	25th	50th (Median)		75th	
Equity	1	34,909,244	35,905,074	35,261,048	263,614	11,518,986	27,246	1%	26	35,131,607	35,142,000	35,204,206	0%
	2	-26,867,268	-19,941,313	-25,155,043	1,452,263	6,979,683	521,394	6%	24	-25,929,815	-25,111,408	-24,875,683	2%
	3	-16,433	-13,702	-14,688	656	1,066	314	5%	24	-14,980	-14,571	-14,261	2%
	4	3,959	5,906	4,678	510	798	312	11%	24	4,278	4,513	5,061	8%
	5	-14,295,319,799	-14,114,898,156	-14,162,001,992	48,732,057	4,151,196,561	19,918,923	0%	24	-14,194,000,000	-14,128,853,403	-14,127,134,239	0%
	6	-85,275	-63,430	-75,635	5,441	11,159	2,000	7%	25	-78,126	-76,495	-72,852	3%
	7	1,010,573	1,064,617	1,032,870	12,541	17,249	8,507	1%	22	1,022,963	1,033,185	1,040,377	1%
	8	201,512	251,043	223,209	12,578	15,900	6,352	6%	23	215,563	224,404	229,945	3%
	9	504,577	508,071	506,456	915	1,377	521	0%	26	505,942	506,285	507,147	0%
	10	-3,339,931	871,704	-1,655,661	919,814	3,280,032	11,791	56%	26	-2,011,096	-2,004,216	-1,974,799	1%
Interest Rate	11	-11,740	-6,100	-8,675	1,263	2,333	668	15%	36	-9,402	-8,576	-8,017	8%
	12	-54,161	-45,281	-51,447	1,373	5,688	534	3%	31	-52,196	-51,589	-51,081	1%
	13	-67,245	-57,032	-62,167	2,362	2,907	1,365	4%	33	-63,437	-62,109	-60,604	2%
	14	-8,488	-3,604	-6,316	959	3,472	306	15%	32	-6,983	-6,036	-5,778	9%
	15	1,083,053	1,164,709	1,125,680	26,185	26,185	22,944	2%	14	1,099,089	1,129,958	1,143,052	2%
	16	5,034,152	5,065,169	5,048,305	5,154	12,642	1,245	0%	34	5,046,850	5,049,247	5,050,328	0%
	17	10,688,299	10,968,318	10,849,370	99,561	165,310	6,728	1%	29	10,779,497	10,921,039	10,924,792	1%
	18	2,101,085	2,386,114	2,265,946	101,334	165,720	5,654	5%	29	2,199,373	2,337,499	2,341,741	3%
	19	12,200	20,927	16,665	2,343	3,283	1,978	14%	34	14,662	16,762	18,708	12%
	20	-23,929	-18,628	-22,528	1,020	2,873	281	5%	34	-23,037	-22,775	-22,400	1%
	21	5,378	20,606	12,331	4,122	4,875	3,246	33%	34	9,503	11,798	15,170	23%
	22	-77,810	-53,829	-61,377	4,647	10,722	744	8%	33	-61,340	-60,110	-59,599	1%
	23	7,288,880	7,336,084	7,313,752	8,895	20,222	1,205	0%	33	7,311,689	7,312,657	7,313,936	0%
	24	900,765	1,148,934	1,079,358	61,468	255,984	11,400	6%	27	1,070,620	1,101,953	1,107,252	2%
	25	-10,854,247	-10,827,683	-10,841,757	5,327	14,645	2,312	0%	35	-10,844,400	-10,842,384	-10,839,225	0%
	26	19,583,663	20,514,941	20,022,650	168,390	1,019,204	68,321	1%	32	19,888,782	20,114,330	20,121,345	1%
FX	27	-587,957	-554,206	-579,611	6,688	165,811	2,157	1%	30	-583,637	-581,788	-577,522	1%
	28	531,654	1,040,995	863,878	76,624	259,531	1,144	9%	28	864,696	865,634	866,912	0%
	29	929,163	939,206	935,640	2,036	3,399	1,092	0%	29	934,630	935,377	936,703	0%
	30	751,123	763,375	758,201	3,168	6,655	1,805	0%	29	758,501	758,970	759,781	0%
	31	-1,298,894	-1,271,774	-1,284,531	5,316	7,236	2,679	0%	29	-1,287,284	-1,284,522	-1,282,555	0%
	32	-132,462	101,982	-5,749	45,581	64,011	15,050	793%	25	-22,209	-18,881	36,208	417%
Commodity	33	882	13,815	5,098	4,369	8,831	523	86%	13	2,553	2,946	7,526	49%
	34	259,746	264,966	262,475	1,655	3,139	1,491	1%	10	261,053	262,982	263,587	0%
	35	-407,198	-343,764	-363,504	18,254	23,587	9,332	5%	10	-367,500	-364,725	-347,763	3%
Credit Spread	36	-3,912	-2,920	-3,223	205	383	81	6%	17	-3,261	-3,224	-3,110	2%
	37	24,977	29,311	28,215	1,190	2,520	286	4%	15	28,167	28,468	28,839	1%
	38	8,789	9,435	9,030	134	737	28	2%	19	8,978	9,999	9,060	0%
	39	23,746	25,038	24,750	353	600	76	1%	16	24,730	24,847	24,921	0%
	40	4,075	4,784	4,360	165	231	35	4%	17	4,302	4,337	4,369	1%
	41	38,006	39,286	38,336	330	864	127	1%	19	38,157	38,262	38,488	0%
	42	1,163,580	1,176,117	1,169,502	2,757	4,370	1,125	0%	16	1,167,993	1,169,583	1,170,577	0%
	43	3,120,311	3,131,513	3,126,846	2,438	4,037	1,073	0%	17	3,125,689	3,127,684	3,128,078	0%
	44	28,780	30,054	29,666	407	600	86	1%	18	29,517	29,877	29,931	1%
	45	991,155	1,005,307	997,055	3,609	12,217	879	0%	18	995,406	996,313	997,163	0%
	46	1,036,946	1,038,689	1,037,951	476	637	295	0%	17	1,037,558	1,038,146	1,038,263	0%
	47	32,521	34,895	34,041	461	1,792	152	1%	18	33,985	34,040	34,213	0%
	48	18,498	20,958	19,571	617	664	237	3%	17	19,009	19,744	19,895	2%
	49	-12,678	-12,000	-12,418	193	215	109	2%	18	-12,558	-12,426	-12,346	1%
	50	1,161,685	1,163,416	1,162,678	514	3,942	243	0%	19	1,162,201	1,162,970	1,163,027	0%
	51	5,502,012	5,587,521	5,518,821	20,717	48,696	8,789	0%	16	5,505,639	5,517,332	5,519,888	0%
	52	6,395,584	6,660,758	6,502,872	55,754	516,639	14,798	1%	16	6,474,683	6,498,353	6,514,043	0%
	53	11,193,419	12,072,844	11,957,283	214,133	553,652	24,504	2%	15	11,982,461	12,003,397	12,032,779	0%
Correlation Trading	54								3				
	55								2				
ALL-IN no-CTP **	56								2				
	57	14,912,509	18,351,565	16,491,427	931,391	11,705,711	348,024	6%	11	15,965,892	16,226,600	16,903,595	3%
	58	5,476,957	16,664,834	11,313,027	2,038,256	3,210,755	596,430	18%	19	10,649,963	10,754,577	11,799,005	5%
	59	1,743,638	2,403,785	2,195,824	137,576	425,879	80,214	6%	30	2,071,558	2,241,469	2,294,143	5%
	60	-603,780	-143,048	-286,813	129,475	297,256	52,834	45%	23	-286,875	-258,075	-197,146	19%
	61	261,896	297,151	270,519	11,097	108,935	4,370	4%	9	263,529	263,842	272,492	2%
	62	3,168,356	3,185,060	3,175,699	4,148	44,629	1,528	0%	18	3,173,843	3,174,862	3,176,713	0%
63									2				

<sup>1</sup> STDev trunc is the standard deviation computed excluding values below the 5th and above the 95th percentile

<sup>2</sup> Refers to the number of banks included in the computation of the statistics

\*\* For the aggregated portfolios (57 to 63), banks that reported at least a missing portfolio MV among the ones composing the aggregate are not included in the computation of the benchmarks for that particular aggregate portfolio.

Table 43: IRC – modelling choice: source of LGD – market convention

EU Statistics for IRC

Port. ID	Other stats					Percentiles							Extreme Values range (Full Sample)					
	Min	Max	Ave.	STDev	Coefficient of variation (STDev/Mean)	Num. obs.	5th	10th	25th	50th (Median)	75th	90th	95th	Interquartile range	STDev_trunc <sup>1</sup>	-2*STDev_trunc	+2*STDev_trunc	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15	86,506	293,640	195,028	84,539	43%	6	94,178	101,850	134,180	194,176	264,162	289,060	291,350	33%	141,028	-92,740	471,374	
16	9,240	370,866	124,546	125,295	101%	9	17,316	25,393	32,527	63,401	187,567	289,484	330,175	70%	269,903	-424,269	655,342	
17	519,483	3,779,449	1,621,105	1,090,610	67%	10	574,280	629,077	884,279	1,185,503	2,236,537	3,036,315	3,407,882	43%	1,192,441	-837,879	3,931,887	
18	576,793	5,311,977	2,189,517	1,557,652	71%	10	799,125	1,021,456	1,170,811	1,618,037	2,483,832	4,616,606	4,964,291	36%	1,876,068	-1,417,942	6,086,329	
19																		
20																		
21																		
22																		
23	77,713	908,357	395,823	314,033	79%	9	88,025	98,338	178,375	293,484	607,009	858,538	883,447	55%	489,694	-594,247	1,364,528	
24	3,493,288	6,685,107	5,354,180	936,009	17%	9	4,078,418	4,663,549	5,107,610	5,115,344	6,099,447	6,371,624	6,528,365	9%	1,619,600	1,872,671	8,351,084	
25	596,874	6,151,539	2,690,598	1,899,729	71%	10	858,603	1,120,331	1,346,421	2,175,945	3,055,514	5,829,412	5,990,475	39%	1,943,768	-943,684	6,831,387	
27																		
28																		
29																		
30																		
31																		
32																		
33																		
34																		
35																		
36	24,345	156,593	65,759	41,353	63%	9	25,429	26,512	42,988	53,030	85,330	107,241	131,917	33%	107,614	-139,629	290,829	
37	46,460	106,218	73,609	21,481	29%	8	49,334	52,208	61,444	69,557	82,132	104,521	105,369	14%	47,141	-24,224	164,339	
38	19,862	88,289	49,186	19,997	41%	9	23,325	26,788	40,891	45,262	57,475	66,403	77,346	17%	23,646	6,209	100,794	
39	18,141	128,839	66,080	38,896	59%	7	19,614	21,088	37,697	72,277	83,956	106,609	117,724	38%	169,213	-263,914	412,937	
40	28,495	88,289	59,240	20,529	35%	9	32,449	36,403	40,235	58,735	76,492	81,592	84,941	31%	21,309	9,761	94,995	
41	623,011	752,219	660,352	51,546	8%	7	623,065	633,109	633,615	640,216	679,510	728,816	740,518	4%	187,303	271,200	1,020,407	
42	149,140	275,300	182,259	42,572	23%	7	149,900	150,664	160,282	169,809	181,502	224,500	248,900	6%	64,926	38,614	298,316	
43	267,003	1,071,295	662,961	193,315	29%	10	425,000	582,998	635,578	643,561	702,485	771,203	921,249	5%	227,380	181,323	1,080,845	
44	83,183	238,058	143,889	63,713	44%	9	83,771	84,359	88,434	139,270	192,280	233,820	235,939	37%	74,748	-55,992	242,999	
45	331	50,650	13,029	17,702	136%	8	671	1,011	1,839	3,184	20,619	32,073	41,362	84%	37,940	-66,324	85,436	
46	1,611	12,585	4,954	3,754	76%	7	1,792	1,973	2,237	4,645	5,581	8,695	10,640	41%	33,491	-57,495	72,471	
47	58,512	479,359	189,368	145,569	77%	7	63,511	68,501	81,838	188,646	217,587	335,803	407,681	45%	198,359	-282,987	510,448	
48	3,928	36,735	15,936	10,220	64%	7	6,201	8,475	11,994	13,100	16,900	24,069	31,402	17%	19,016	-24,932	51,131	
49	14,155	89,469	52,971	27,410	52%	7	16,824	19,493	35,857	51,243	72,110	80,947	85,208	34%	140,900	-207,730	355,895	
50	2,371	221,665	44,129	71,251	161%	9	2,837	3,302	6,502	10,799	55,969	103,313	162,489	79%	105,683	-165,581	257,153	
51	17,802	319,732	101,477	110,659	109%	8	21,427	25,053	41,286	72,334	89,841	207,051	263,392	37%	215,561	-351,817	510,416	
52	156,358	2,448,442	1,453,143	626,080	43%	8	587,773	1,018,198	1,417,192	1,494,568	1,569,030	1,813,539	2,181,501	9%	645,309	141,959	2,725,194	
53	232,768	2,519,254	1,477,849	621,558	42%	8	637,439	1,042,111	1,417,192	1,495,449	1,599,875	1,943,468	2,231,361	6%	645,526	143,525	2,725,628	
54																		
55																		
56																		
57	All-in/No-CTP	693,050	5,971,556	2,705,360	2,066,386	76%	7	929,297	1,165,545	1,529,762	1,725,891	3,743,751	5,585,214	5,778,385	42%	3,120,608	-4,101,368	8,421,065
58	Equity Cumulative																	
59	IR Cumulative																	
60	FX Cumulative																	
61	Commodity Cumulative																	
62	CS Cumulative	627,070	1,432,213	816,290	275,889	94%	8	632,104	637,137	639,707	663,561	805,555	1,161,637	1,296,925	11%	1,585,719	-2,394,812	3,948,065
63	CTP Cumulative																	

Table 44: IRC – modelling choice: source of LGD – non-market convention

EU Statistics for IRC

Port. ID	Other stats					Num obs.	Percentiles							Interquartile range	Extreme Values range (Full Sample)			
	Min	Max	Ave.	STDev	Coefficient of variation (STDev/Mean)		5th	10th	25th	50th (Median)	75th	90th	95th		STDev_trunc <sup>1</sup>	-2*STDev_trunc	+2*STDev_trunc	
1																		
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14																		
15						4												
16	18,876	400,440	133,752	113,783	85%	10	30,195	41,514	60,367	108,082	141,195	261,803	331,122	40%	269,903	-424,269	655,342	
17	76,675	3,771,783	1,841,217	1,376,597	75%	11	245,189	413,703	488,451	2,003,381	2,986,884	3,543,523	3,657,653	72%	1,192,441	-837,879	3,931,887	
18	391,212	5,445,435	2,665,674	1,698,782	64%	9	529,493	667,774	1,488,752	2,907,236	3,786,474	4,216,127	4,830,781	44%	1,876,068	-1,417,942	6,086,529	
19																		
20																		
21																		
22																		
23	100,298	1,346,554	537,649	426,687	79%	10	123,405	146,512	232,981	385,141	787,958	1,121,096	1,233,825	54%	489,694	-594,247	1,364,528	
24	3,077,400	6,814,833	5,128,918	1,308,292	26%	8	3,305,332	3,533,263	4,099,196	5,564,349	5,894,690	6,453,899	6,634,366	18%	1,619,603	1,872,671	8,351,084	
25																		
26	892,517	6,497,426	3,331,649	1,787,230	54%	10	1,009,780	1,137,042	2,238,189	3,451,760	3,879,869	5,684,008	6,090,717	27%	1,943,768	-943,684	6,831,387	
27																		
28																		
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34																		
35																		
36	6,306	261,207	91,396	74,531	82%	9	18,310	30,315	51,960	75,600	113,144	158,765	209,986	37%	107,614	-139,620	290,829	
37	10,210	116,229	63,383	36,863	58%	9	13,481	16,752	38,400	66,875	90,713	102,495	109,362	41%	47,141	-24,224	164,339	
38	9,000	65,971	44,334	20,981	47%	9	13,400	17,800	30,384	53,502	61,699	65,874	65,923	34%	23,646	6,209	100,794	
39	6,607	347,827	135,310	124,427	92%	9	18,708	30,809	50,360	72,900	262,748	286,346	317,087	67%	169,213	-263,914	412,937	
40	20,000	74,607	45,703	16,504	36%	9	24,751	29,502	34,336	41,909	54,052	63,296	68,951	22%	21,309	9,761	94,995	
41	475,102	1,015,718	697,725	170,326	24%	11	478,453	483,804	564,798	694,130	807,679	837,266	926,492	18%	187,302	271,200	1,020,407	
42	72,200	199,010	145,309	40,964	28%	9	80,854	89,507	127,501	150,250	169,647	182,345	190,678	14%	64,926	38,614	298,316	
43	373,000	1,028,598	641,009	220,977	34%	8	386,069	399,137	465,604	657,329	754,631	845,423	937,010	24%	227,380	181,323	1,090,845	
44	192	235,307	94,885	82,785	87%	12	16,515	30,014	37,600	49,046	159,300	214,873	224,949	62%	74,748	-55,992	242,999	
45	7	68,244	20,603	25,142	122%	10	233	459	1,084	9,363	30,586	58,256	63,250	93%	37,940	-66,324	85,436	
46	0	28,408	7,838	8,369	107%	10	329	658	2,151	6,548	10,364	12,960	20,684	66%	32,491	-57,495	72,471	
47	14,460	174,089	85,056	63,531	63%	10	20,813	27,225	40,693	85,891	113,449	140,807	157,448	50%	108,359	-282,987	510,448	
48	2,517	43,197	14,991	13,596	91%	11	2,529	2,550	4,385	11,573	19,288	35,700	39,448	63%	19,016	-24,932	51,131	
49	6,673	347,827	135,767	116,018	85%	10	20,013	33,353	55,801	92,899	231,074	274,054	310,941	61%	140,906	-207,730	355,895	
50	1,607	209,699	68,479	81,566	119%	9	3,545	5,482	8,362	37,600	86,027	200,765	205,232	82%	105,683	-165,581	257,153	
51	2,987	453,471	115,954	141,645	123%	10	9,831	16,675	29,665	71,207	99,545	294,592	374,032	54%	215,561	-351,817	510,426	
52	307,991	1,511,344	1,221,814	434,668	36%	8	481,168	654,345	1,227,711	1,415,017	1,489,504	1,496,759	1,504,051	9%	845,309	149,959	2,725,194	
53	311,535	1,542,216	1,226,500	436,588	36%	8	483,898	656,372	1,229,444	1,415,017	1,489,463	1,505,020	1,524,116	9%	845,526	143,525	2,725,628	
54																		
55																		
56																		
57	ALL IN No CTP	829,000	6,521,420	4,047,160	2,936,751	73%	5	842,251	855,502	895,256	5,496,876	6,498,247	6,510,151	6,515,785	76%	3,130,608	-4,101,368	8,421,065
58	Equity Cumulative																	
59	FX Cumulative																	
60	Commodity Cumulative																	
61	CS Cumulative																	
62	CTP Cumulative	319,665	1,023,866	728,976	206,516	28%	9	392,022	464,379	706,041	776,627	837,022	890,220	957,040	8%	1,585,719	-2,394,812	3,948,065
63																		

Table 45: IRC – modelling choice: source of LGD – 1-2 modelling factors

EU Statistics for IRC

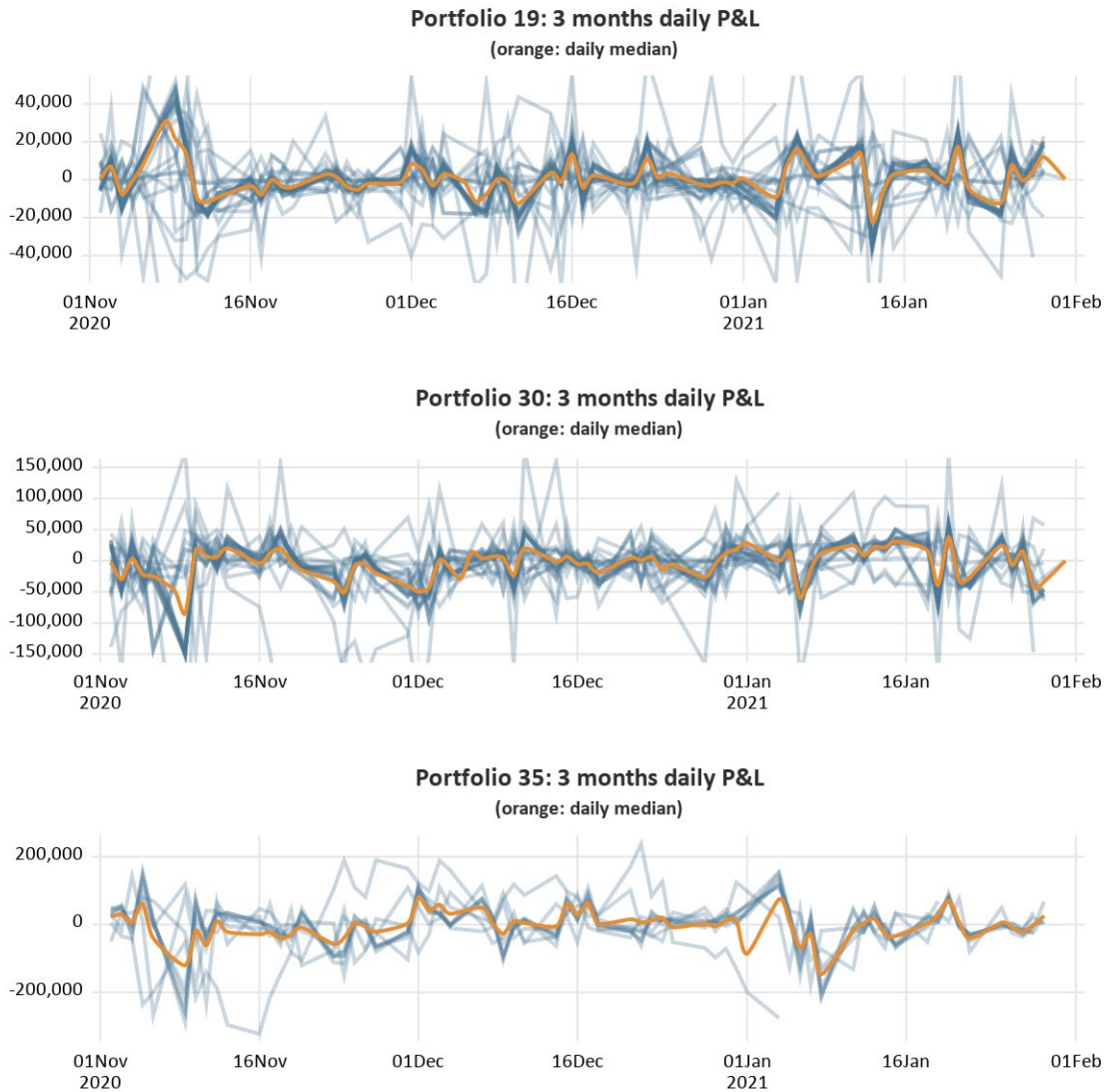
Port. ID	Other stats					Num obs.	Percentiles							Interquartile range	Extreme Values range (Full Sample)		
	Min	Max	Ave.	STDev	Coefficient of variation (STDev/Mean)		5th	10th	25th	50th (Median)	75th	90th	95th		STDev_trunc <sup>1</sup>	-2*STDev_trunc	+2*STDev_trunc
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63																	

Table 46: IRC – modelling choice: source of LGD – >2 modelling factors

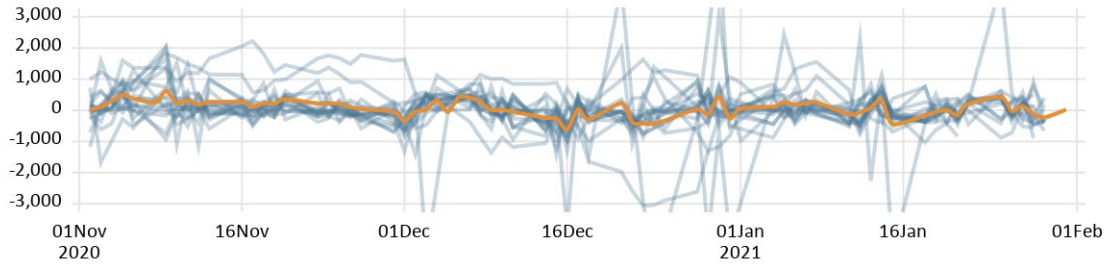
EU Statistics for IRC

Port. ID	Other stats					Num obs.	Percentiles							Interquartile range	Extreme Values range (Full Sample)			
	Min	Max	Ave.	STDev	Coefficient of variation (STDev/Mean)		5th	10th	25th	50th (Median)	75th	90th	95th		STDev_trunc <sup>1</sup>	-2*STDev_trunc	+2*STDev_trunc	
1																		
2																		
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8																		
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11																		
12																		
13																		
14																		
15		86,506	293,640	177,974	80,940	45%	5	92,644	98,781	117,194	189,317	203,212	257,469	275,554	27%	141,028	-92,740	471,374
16		9,240	370,866	116,059	120,591	104%	9	17,316	25,393	32,527	54,931	142,389	271,292	321,079	63%	269,903	-424,269	655,342
17		413,703	3,771,783	1,626,563	1,322,000	81%	10	435,027	456,350	549,926	1,109,745	2,650,699	3,566,349	3,669,066	66%	1,192,441	-837,879	3,931,887
18		576,793	4,539,342	1,672,770	1,248,779	75%	8	632,836	688,878	987,376	1,442,366	1,662,676	2,786,245	3,662,793	25%	1,876,068	-1,417,942	6,086,329
19																		
20																		
21																		
22		77,713	1,346,554	483,089	481,723	100%	9	88,025	98,338	151,647	224,978	846,083	1,146,147	1,246,350	70%	489,694	-594,247	1,364,528
23		4,222,717	6,814,833	5,618,487	922,133	16%	8	4,479,406	4,736,095	5,069,736	5,434,130	6,391,217	6,724,025	6,769,429	12%	1,619,605	1,872,671	8,351,084
24		596,874	6,151,539	2,211,020	1,782,349	81%	8	696,849	798,824	1,135,565	1,741,032	2,432,851	4,062,486	5,107,012	36%	1,943,768	-943,684	6,831,387
25																		
26																		
27																		
28																		
29																		
30																		
31																		
32																		
33																		
34																		
35																		
36		24,345	156,593	83,437	41,868	66%	9	25,429	26,512	36,317	51,960	85,330	102,995	129,794	40%	107,614	-139,620	290,829
37		18,987	116,229	63,423	27,131	45%	9	29,616	40,845	48,509	63,701	74,912	88,895	102,562	21%	47,141	-24,224	164,339
38		19,882	88,289	51,399	21,795	42%	8	22,892	25,922	40,215	51,369	62,767	72,666	80,478	22%	23,646	6,209	100,794
39		18,141	270,976	84,778	83,209	98%	8	19,860	21,579	33,408	62,119	89,301	171,480	221,228	46%	169,213	-263,914	412,937
40		28,495	88,289	59,310	19,722	33%	9	32,449	36,403	41,909	60,468	74,607	78,851	83,570	28%	21,309	9,761	94,995
41		481,804	857,266	659,587	111,650	17%	7	524,169	566,534	623,095	640,276	705,789	786,238	811,752	6%	187,302	271,200	1,020,407
42		93,834	276,279	151,079	28,380	19%	8	105,617	117,401	143,730	159,567	170,116	173,180	175,679	8%	64,926	38,614	286,316
43		575,086	1,071,295	708,150	156,783	22%	8	590,144	605,201	631,590	648,745	725,086	846,763	959,028	7%	227,380	181,323	1,090,845
44		31,299	238,058	155,903	82,590	53%	9	38,396	45,493	84,653	192,280	232,760	235,857	236,958	47%	74,748	-55,992	242,999
45		331	68,244	16,273	22,365	137%	9	402	473	1,302	3,062	24,112	35,591	51,918	90%	37,940	-66,324	85,436
46		1,611	10,710	5,443	3,229	59%	8	1,701	1,791	3,632	4,853	6,908	9,740	10,225	31%	32,491	-97,495	72,471
47		58,522	470,559	166,856	124,918	81%	8	64,243	70,164	85,180	131,999	179,369	280,514	380,037	36%	198,359	-282,887	510,448
48		2,530	36,735	12,346	10,622	86%	9	2,696	2,861	3,828	11,506	12,482	22,514	29,625	52%	19,016	-24,932	51,131
49		14,155	265,857	73,978	86,998	118%	7	16,824	19,493	29,685	51,243	63,613	151,502	208,679	36%	140,906	-207,730	355,895
50		1,607	221,665	62,166	85,317	137%	10	2,475	3,342	7,351	13,378	78,513	210,896	216,280	83%	105,683	-165,581	257,153
51		18,196	453,471	142,909	196,386	110%	8	29,130	40,065	57,519	72,326	190,711	359,854	406,662	43%	215,561	-351,817	510,426
52		156,358	2,449,442	1,235,689	655,108	49%	8	382,806	608,855	1,241,306	1,425,768	1,515,151	1,803,453	2,126,438	10%	845,309	149,959	2,725,194
53		232,768	2,519,254	1,378,944	663,213	48%	8	432,706	632,644	1,241,615	1,424,555	1,580,838	1,943,468	2,231,361	12%	645,526	143,525	2,725,628
54																		
55																		
56																		
57	ALL IN No-CTP	693,050	6,521,420	2,685,777	2,467,321	92%	7	733,835	774,620	1,154,771	1,578,983	3,848,724	6,191,502	6,356,461	54%	3,130,608	-4,101,368	8,421,065
58	Equity Cumulative																	
59	IT Cumulative																	
60	FX Cumulative																	
61	Commodity Cumulative																	
62	CS Cumulative	319,665	1,432,213	787,962	300,021	38%	10	457,997	596,330	640,083	731,698	843,996	1,127,815	1,280,014	14%	1,585,719	-2,394,812	3,948,065
63	CTP Cumulative																	

**Figure 24: Additional P&L charts with examples of low IQD**



**Portfolio 44: 3 months daily P&L**  
(orange: daily median)



**Portfolio 58: 3 months daily P&L**  
(orange: daily median)

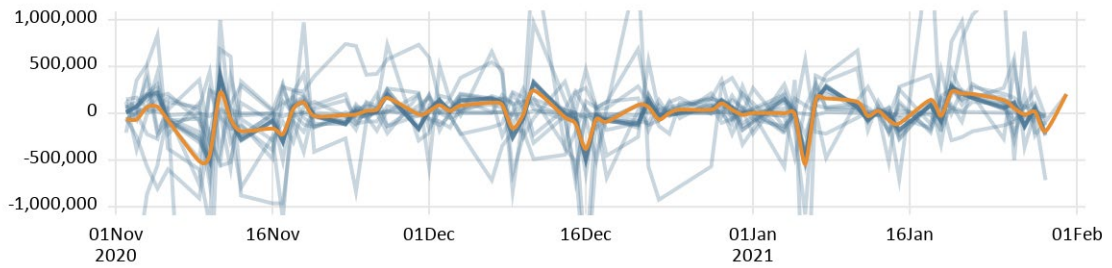
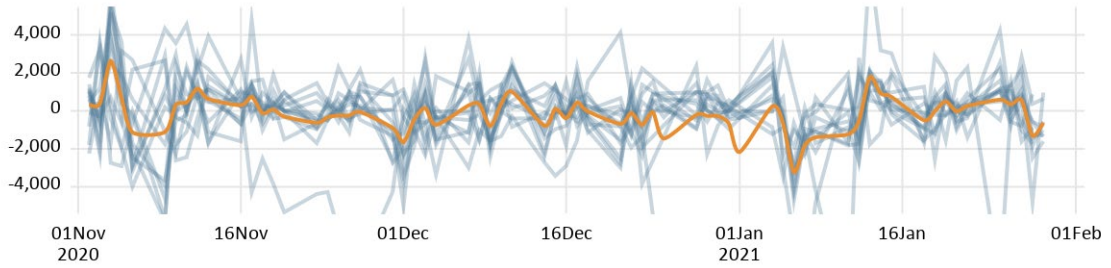
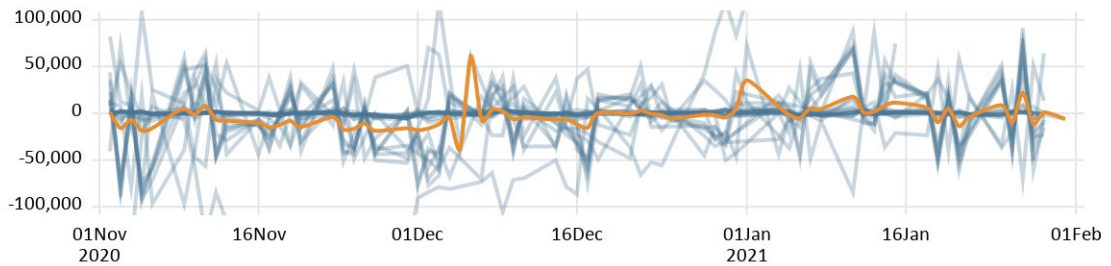


Figure 25: Additional P&L charts with examples of high IQD

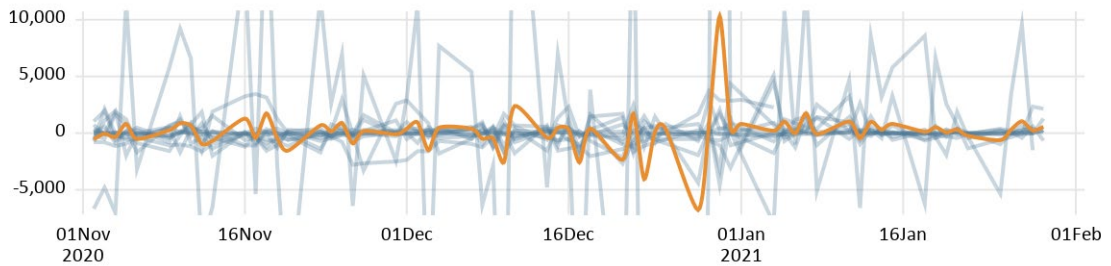
**Portfolio 15: 3 months daily P&L**  
(orange: daily median)



**Portfolio 32: 3 months daily P&L**  
(orange: daily median)

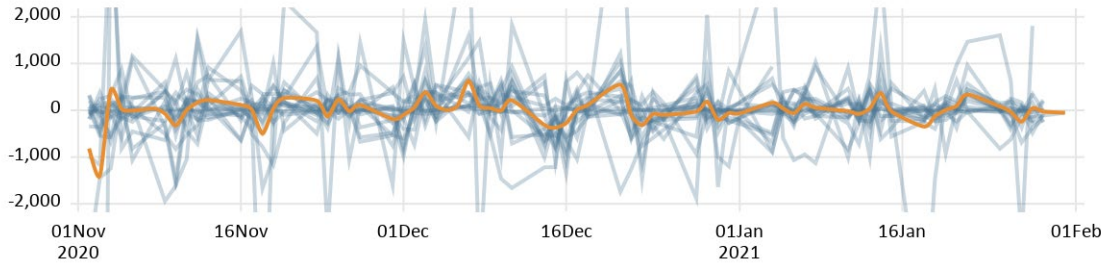


**Portfolio 33: 3 months daily P&L**  
(orange: daily median)





**Portfolio 45: 3 months daily P&L**  
(orange: daily median)



**Portfolio 62: 3 months daily P&L**  
(orange: daily median)

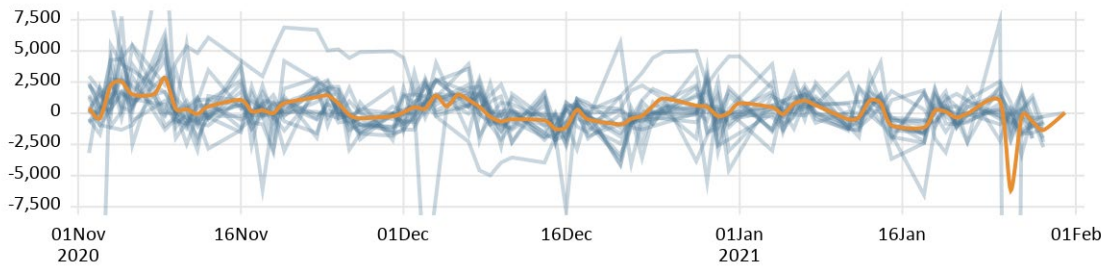


Figure 26: Comparison between IMV and truncated STD deviation method to select outliers for risk measures

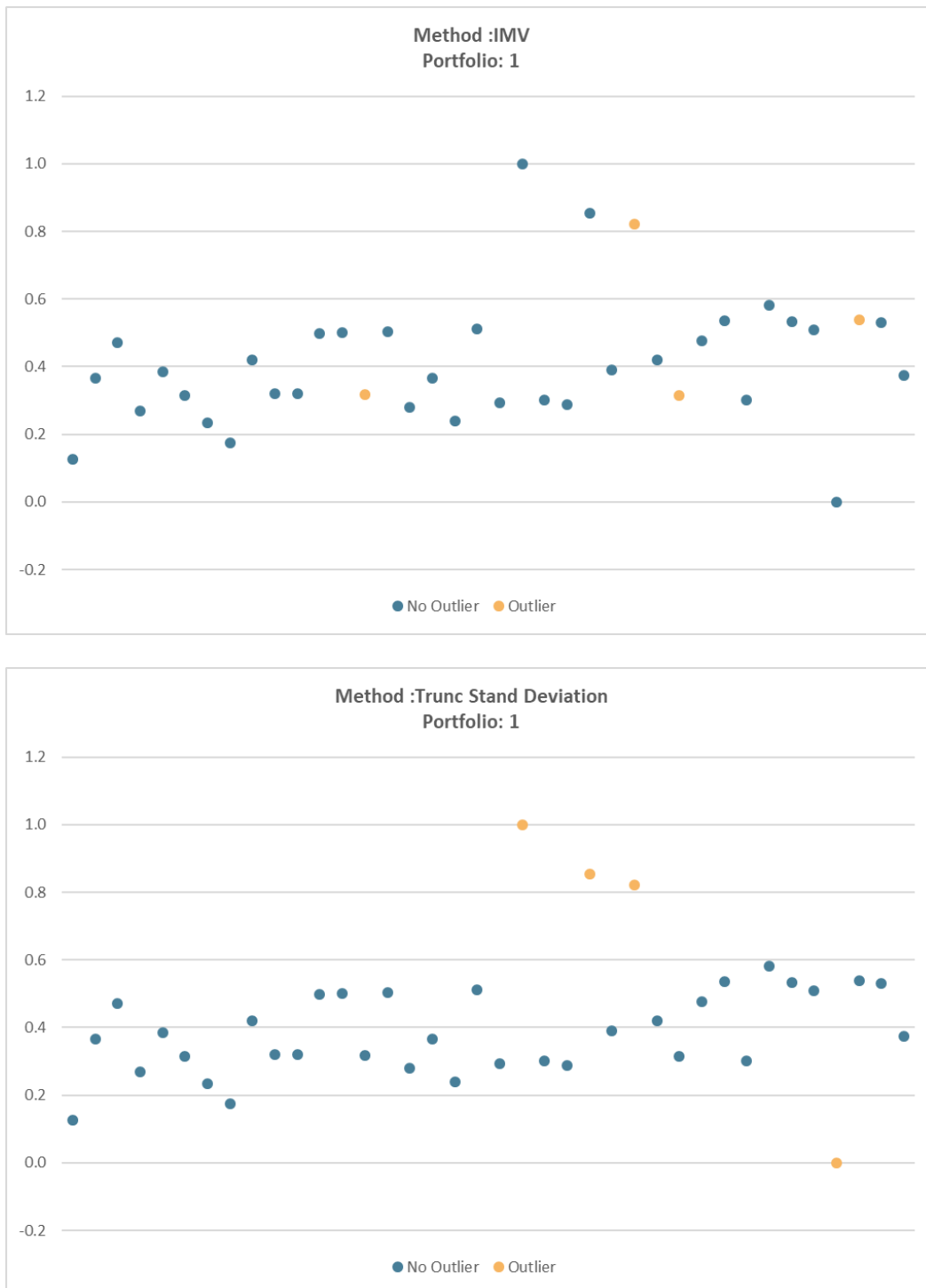


Figure 26. Example of dispersion in VaR submission for portfolio 1. Above the chart, marked in yellow: the portfolios which would have been excluded based on the IMV methodology outlier, which was used in 2019 (and before) to detect outliers among risk measures. Below the chart: the same submission, but marked in yellow, indicating the submissions that have been excluded in VaR and benchmarking statistics in the 2020 exercise based on the +/- two times truncated standard deviation of the sample.

## 9. Annex 2

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1. In this annex, the difference in VaR figures presented in this 2021 exercise versus the previous one is examined to substantiate the striking increase in the 2021 figures, which present a relatively high dispersion in comparison with the previous exercises.
2. Comparing an absolute value of a VaR on the same instruments can be very misleading when the value of that instrument changes substantially over time. In order to mitigate this problem, the PVs of the portfolio for the 2020 and 2021 exercises are compared (see columns PV 2020 and PV 2021 for Table 47). All the PVs on the same portfolios changed from one year to the next. Some moved very little, for example, portfolios 17 and 18 (approximately 0%), while others moved substantially (for example, portfolio 24 – +154% in PV).
3. All the VaR figures reported increased. The 50th percentile of the VaR (the benchmarking) increased by an average of 147%.
4. However, it is sensible to focus on portfolios with very little change in the PV to see what happened to their VaR figures in 2021. Let's take, for example, EQ portfolios 1, 7 and 10. We see an increase in the VaR of +147%, +536%, and +89% for these portfolios.
5. Less remarkable, but still quite substantial, are the figures for IR portfolios 17 and 18 (PV +0%), where the VaR increased by 30% and 54%. Many similar examples of the same increase in VaR, with little substantial change in the PV, can be found in the other assets classes, even though this seems more evident for equity portfolios.
6. These substantial increases in the VaR figures seem to trigger a higher IDQ index, which is probably more remarkable for directional portfolios, as in most of the portfolios in the benchmarking exercises.
7. In Table 48, we see the same data as Table 48 (comparison of VaR figures for the 2020 and 2021 exercise), but now in relative terms (VaR divided by the PV reported).
8. This increase in the absolute and relative value of VaR was fully expected since the pandemic outbreak in March 2020.
9. Figure 27: VIX Index, for example, report the VIX index of the last four years. We see that for 1/3/2019 – 28/2/2020, the VIX average was 15.25, with its 99th percentile being 33.17. This period coincides with the VaR window for the 2020 exercise. The same figures for 1/3/2020 – 28/2/2021 were an average of 30.47, with the 99th percentile coming in at 76.17.
10. This substantial jump in volatility is captured by market risk models, which explain the significant increase in the VaR figures submitted. The positive note for the supervisor is that the models respond correctly to more volatile (riskier) situations. The negative aspect of this, which

supervisors should carefully monitor, is that this increased volatility seems to reflect in the figures' dispersion, making them less precise. Once again, it is worth remembering that these portfolios are mainly directional and that variability would be reduced in the case of hedged portfolios (a situation closer to the reality of the banks' trading books).

11. It is noticeable that this substantial increase in VaR (+147% on average) is not reflected in the stress VaR figures (+5%, on average, from 2020 to 2021). 2021 SVaR figures are remarkably similar to the ones presented in 2020 (see Table 49: Comparison SVaR 2021 – 2021). This was expected because the stress VaR, already reflecting a stressed situation in its figures, is less sensitive to increased market volatility. Indeed, the time windows applied by the majority of the banks reporting the SVaR is still centred around the 2008 economic crisis period. Banks' supervisors endorsed the choice of the same stress period to limit the potential increase in the capital requirement. Therefore, it will be interesting to see in the future exercise if the time window for the stress period will be modified in light of this new stress period, and what impact it will have on the stress VaR figures.

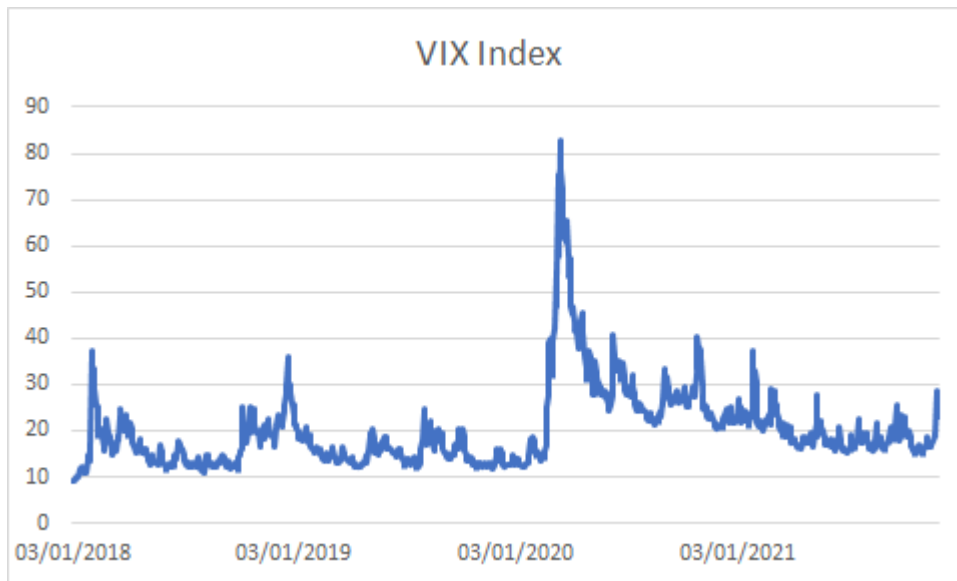
Table 47: Comparison VaR 2021 – 2021

Port. ID	PV 2020			PV 2021			Change 2021-2020			VaR 2020			VaR 2021	Change 2021-2020																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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	25th	50th (Median)	75th	25th	50th (Median)	75th	25th	50th (Median)	75th	25th	50th (Median)	75th		25th	50th (Median)	75th																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
<b>Equity</b>																	1	36,431,000	36,431,486	36,463,416	35,131,607	35,142,000	35,204,206	-4%	-4%	-3%	2,242,440	2,606,789	2,901,742	13%	5,137,617	6,451,057	7,941,664	21%	129%	147%	174%	9%	2	-30,133,278	-30,076,236	-30,021,068	-29,929,815	-29,111,408	-24,875,683	-14%	-17%	-17%	2,102,021	2,316,907	2,592,041	10%	5,025,545	5,646,229	6,891,803	16%	139%	144%	166%	5%	3	-38,550	-38,231	-37,988	-14,980	-14,571	-14,261	-61%	-62%	-62%	16,842	19,832	23,213	16%	13,819	15,734	19	9%	-24%	-30%	-38%	-7%	4	5,287	5,410	5,598	4,218	4,513	5,061	31%	23%	41%	403	708	1,030	40%	1,413	2,590	4,838	25%	25%	267%	155%	13%	5	-11,697,998	-11,677,500,000	-11,662,359,678	-14,194,000,000	-14,128,853,403	-14,117,134,339	21%	21%	21%	763,573,830	833,996,540	902,262,743	8%	1,677,097,250	1,764,795,292	2,013,753,942	9%	120%	107%	124%	1%	6	-49,850	-48,534	-46,073	-78,126	-76,495	-72,852	57%	58%	58%	26,812	35,126	40,554	20%	17,478	20,233	25,128	34%	-35%	-17%	-13%	13%	7	1,061,069	1,068,429	1,075,554	1,022,963	1,033,185	1,040,377	-4%	-3%	-3%	9,066	11,039	13,280	19%	43,565	70,262	124,015	48%	381%	536%	834%	29%	8	153,905	156,839	163,108	215,563	224,404	229,945	40%	43%	41%	66,744	98,925	115,331	27%	75,670	125,566	155,333	77%	13%	27%	43%	0%	9	698,391	699,838	700,600	505,942	506,285	507,147	-28%	-28%	-28%	55,754	61,151	71,503	12%	83,681	112,969	143,164	26%	50%	85%	100%	14%	10	-2,171,191	-2,164,120	-2,155,141	-2,011,096	-2,004,216	-1,974,799	-7%	-7%	-7%	288,798	283,355	289,486	6%	499,953	535,713	611,752	10%	86%	89%	111%	0%	11	-76,586	-74,934	-73,892	-42,027	-42,576	-42,017	-88%	-89%	-89%	67,285	70,167	73,717	5%	73,067	95,599	113,738	23%	9%	36%	37%	18%	12	-38,148	-37,470	-36,592	-52,196	-51,989	-51,081	37%	38%	40%	34,800	41,382	45,293	13%	48,203	57,900	69,321	14%	39%	38%	41%	1%	13	73,186	77,710	82,660	-63,437	-62,109	-60,604	-187%	-180%	-173%	139,357	148,407	162,088	6%	108,446	118,748	132,787	10%	-22%	-20%	-18%	3%	14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11
1	36,431,000	36,431,486	36,463,416	35,131,607	35,142,000	35,204,206	-4%	-4%	-3%	2,242,440	2,606,789	2,901,742	13%	5,137,617	6,451,057	7,941,664	21%	129%	147%	174%	9%	2	-30,133,278	-30,076,236	-30,021,068	-29,929,815	-29,111,408	-24,875,683	-14%	-17%	-17%	2,102,021	2,316,907	2,592,041	10%	5,025,545	5,646,229	6,891,803	16%	139%	144%	166%	5%	3	-38,550	-38,231	-37,988	-14,980	-14,571	-14,261	-61%	-62%	-62%	16,842	19,832	23,213	16%	13,819	15,734	19	9%	-24%	-30%	-38%	-7%	4	5,287	5,410	5,598	4,218	4,513	5,061	31%	23%	41%	403	708	1,030	40%	1,413	2,590	4,838	25%	25%	267%	155%	13%	5	-11,697,998	-11,677,500,000	-11,662,359,678	-14,194,000,000	-14,128,853,403	-14,117,134,339	21%	21%	21%	763,573,830	833,996,540	902,262,743	8%	1,677,097,250	1,764,795,292	2,013,753,942	9%	120%	107%	124%	1%	6	-49,850	-48,534	-46,073	-78,126	-76,495	-72,852	57%	58%	58%	26,812	35,126	40,554	20%	17,478	20,233	25,128	34%	-35%	-17%	-13%	13%	7	1,061,069	1,068,429	1,075,554	1,022,963	1,033,185	1,040,377	-4%	-3%	-3%	9,066	11,039	13,280	19%	43,565	70,262	124,015	48%	381%	536%	834%	29%	8	153,905	156,839	163,108	215,563	224,404	229,945	40%	43%	41%	66,744	98,925	115,331	27%	75,670	125,566	155,333	77%	13%	27%	43%	0%	9	698,391	699,838	700,600	505,942	506,285	507,147	-28%	-28%	-28%	55,754	61,151	71,503	12%	83,681	112,969	143,164	26%	50%	85%	100%	14%	10	-2,171,191	-2,164,120	-2,155,141	-2,011,096	-2,004,216	-1,974,799	-7%	-7%	-7%	288,798	283,355	289,486	6%	499,953	535,713	611,752	10%	86%	89%	111%	0%	11	-76,586	-74,934	-73,892	-42,027	-42,576	-42,017	-88%	-89%	-89%	67,285	70,167	73,717	5%	73,067	95,599	113,738	23%	9%	36%	37%	18%	12	-38,148	-37,470	-36,592	-52,196	-51,989	-51,081	37%	38%	40%	34,800	41,382	45,293	13%	48,203	57,900	69,321	14%	39%	38%	41%	1%	13	73,186	77,710	82,660	-63,437	-62,109	-60,604	-187%	-180%	-173%	139,357	148,407	162,088	6%	108,446	118,748	132,787	10%	-22%	-20%	-18%	3%	14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																	
2	-30,133,278	-30,076,236	-30,021,068	-29,929,815	-29,111,408	-24,875,683	-14%	-17%	-17%	2,102,021	2,316,907	2,592,041	10%	5,025,545	5,646,229	6,891,803	16%	139%	144%	166%	5%	3	-38,550	-38,231	-37,988	-14,980	-14,571	-14,261	-61%	-62%	-62%	16,842	19,832	23,213	16%	13,819	15,734	19	9%	-24%	-30%	-38%	-7%	4	5,287	5,410	5,598	4,218	4,513	5,061	31%	23%	41%	403	708	1,030	40%	1,413	2,590	4,838	25%	25%	267%	155%	13%	5	-11,697,998	-11,677,500,000	-11,662,359,678	-14,194,000,000	-14,128,853,403	-14,117,134,339	21%	21%	21%	763,573,830	833,996,540	902,262,743	8%	1,677,097,250	1,764,795,292	2,013,753,942	9%	120%	107%	124%	1%	6	-49,850	-48,534	-46,073	-78,126	-76,495	-72,852	57%	58%	58%	26,812	35,126	40,554	20%	17,478	20,233	25,128	34%	-35%	-17%	-13%	13%	7	1,061,069	1,068,429	1,075,554	1,022,963	1,033,185	1,040,377	-4%	-3%	-3%	9,066	11,039	13,280	19%	43,565	70,262	124,015	48%	381%	536%	834%	29%	8	153,905	156,839	163,108	215,563	224,404	229,945	40%	43%	41%	66,744	98,925	115,331	27%	75,670	125,566	155,333	77%	13%	27%	43%	0%	9	698,391	699,838	700,600	505,942	506,285	507,147	-28%	-28%	-28%	55,754	61,151	71,503	12%	83,681	112,969	143,164	26%	50%	85%	100%	14%	10	-2,171,191	-2,164,120	-2,155,141	-2,011,096	-2,004,216	-1,974,799	-7%	-7%	-7%	288,798	283,355	289,486	6%	499,953	535,713	611,752	10%	86%	89%	111%	0%	11	-76,586	-74,934	-73,892	-42,027	-42,576	-42,017	-88%	-89%	-89%	67,285	70,167	73,717	5%	73,067	95,599	113,738	23%	9%	36%	37%	18%	12	-38,148	-37,470	-36,592	-52,196	-51,989	-51,081	37%	38%	40%	34,800	41,382	45,293	13%	48,203	57,900	69,321	14%	39%	38%	41%	1%	13	73,186	77,710	82,660	-63,437	-62,109	-60,604	-187%	-180%	-173%	139,357	148,407	162,088	6%	108,446	118,748	132,787	10%	-22%	-20%	-18%	3%	14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																							
3	-38,550	-38,231	-37,988	-14,980	-14,571	-14,261	-61%	-62%	-62%	16,842	19,832	23,213	16%	13,819	15,734	19	9%	-24%	-30%	-38%	-7%	4	5,287	5,410	5,598	4,218	4,513	5,061	31%	23%	41%	403	708	1,030	40%	1,413	2,590	4,838	25%	25%	267%	155%	13%	5	-11,697,998	-11,677,500,000	-11,662,359,678	-14,194,000,000	-14,128,853,403	-14,117,134,339	21%	21%	21%	763,573,830	833,996,540	902,262,743	8%	1,677,097,250	1,764,795,292	2,013,753,942	9%	120%	107%	124%	1%	6	-49,850	-48,534	-46,073	-78,126	-76,495	-72,852	57%	58%	58%	26,812	35,126	40,554	20%	17,478	20,233	25,128	34%	-35%	-17%	-13%	13%	7	1,061,069	1,068,429	1,075,554	1,022,963	1,033,185	1,040,377	-4%	-3%	-3%	9,066	11,039	13,280	19%	43,565	70,262	124,015	48%	381%	536%	834%	29%	8	153,905	156,839	163,108	215,563	224,404	229,945	40%	43%	41%	66,744	98,925	115,331	27%	75,670	125,566	155,333	77%	13%	27%	43%	0%	9	698,391	699,838	700,600	505,942	506,285	507,147	-28%	-28%	-28%	55,754	61,151	71,503	12%	83,681	112,969	143,164	26%	50%	85%	100%	14%	10	-2,171,191	-2,164,120	-2,155,141	-2,011,096	-2,004,216	-1,974,799	-7%	-7%	-7%	288,798	283,355	289,486	6%	499,953	535,713	611,752	10%	86%	89%	111%	0%	11	-76,586	-74,934	-73,892	-42,027	-42,576	-42,017	-88%	-89%	-89%	67,285	70,167	73,717	5%	73,067	95,599	113,738	23%	9%	36%	37%	18%	12	-38,148	-37,470	-36,592	-52,196	-51,989	-51,081	37%	38%	40%	34,800	41,382	45,293	13%	48,203	57,900	69,321	14%	39%	38%	41%	1%	13	73,186	77,710	82,660	-63,437	-62,109	-60,604	-187%	-180%	-173%	139,357	148,407	162,088	6%	108,446	118,748	132,787	10%	-22%	-20%	-18%	3%	14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																													
4	5,287	5,410	5,598	4,218	4,513	5,061	31%	23%	41%	403	708	1,030	40%	1,413	2,590	4,838	25%	25%	267%	155%	13%	5	-11,697,998	-11,677,500,000	-11,662,359,678	-14,194,000,000	-14,128,853,403	-14,117,134,339	21%	21%	21%	763,573,830	833,996,540	902,262,743	8%	1,677,097,250	1,764,795,292	2,013,753,942	9%	120%	107%	124%	1%	6	-49,850	-48,534	-46,073	-78,126	-76,495	-72,852	57%	58%	58%	26,812	35,126	40,554	20%	17,478	20,233	25,128	34%	-35%	-17%	-13%	13%	7	1,061,069	1,068,429	1,075,554	1,022,963	1,033,185	1,040,377	-4%	-3%	-3%	9,066	11,039	13,280	19%	43,565	70,262	124,015	48%	381%	536%	834%	29%	8	153,905	156,839	163,108	215,563	224,404	229,945	40%	43%	41%	66,744	98,925	115,331	27%	75,670	125,566	155,333	77%	13%	27%	43%	0%	9	698,391	699,838	700,600	505,942	506,285	507,147	-28%	-28%	-28%	55,754	61,151	71,503	12%	83,681	112,969	143,164	26%	50%	85%	100%	14%	10	-2,171,191	-2,164,120	-2,155,141	-2,011,096	-2,004,216	-1,974,799	-7%	-7%	-7%	288,798	283,355	289,486	6%	499,953	535,713	611,752	10%	86%	89%	111%	0%	11	-76,586	-74,934	-73,892	-42,027	-42,576	-42,017	-88%	-89%	-89%	67,285	70,167	73,717	5%	73,067	95,599	113,738	23%	9%	36%	37%	18%	12	-38,148	-37,470	-36,592	-52,196	-51,989	-51,081	37%	38%	40%	34,800	41,382	45,293	13%	48,203	57,900	69,321	14%	39%	38%	41%	1%	13	73,186	77,710	82,660	-63,437	-62,109	-60,604	-187%	-180%	-173%	139,357	148,407	162,088	6%	108,446	118,748	132,787	10%	-22%	-20%	-18%	3%	14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																			
5	-11,697,998	-11,677,500,000	-11,662,359,678	-14,194,000,000	-14,128,853,403	-14,117,134,339	21%	21%	21%	763,573,830	833,996,540	902,262,743	8%	1,677,097,250	1,764,795,292	2,013,753,942	9%	120%	107%	124%	1%	6	-49,850	-48,534	-46,073	-78,126	-76,495	-72,852	57%	58%	58%	26,812	35,126	40,554	20%	17,478	20,233	25,128	34%	-35%	-17%	-13%	13%	7	1,061,069	1,068,429	1,075,554	1,022,963	1,033,185	1,040,377	-4%	-3%	-3%	9,066	11,039	13,280	19%	43,565	70,262	124,015	48%	381%	536%	834%	29%	8	153,905	156,839	163,108	215,563	224,404	229,945	40%	43%	41%	66,744	98,925	115,331	27%	75,670	125,566	155,333	77%	13%	27%	43%	0%	9	698,391	699,838	700,600	505,942	506,285	507,147	-28%	-28%	-28%	55,754	61,151	71,503	12%	83,681	112,969	143,164	26%	50%	85%	100%	14%	10	-2,171,191	-2,164,120	-2,155,141	-2,011,096	-2,004,216	-1,974,799	-7%	-7%	-7%	288,798	283,355	289,486	6%	499,953	535,713	611,752	10%	86%	89%	111%	0%	11	-76,586	-74,934	-73,892	-42,027	-42,576	-42,017	-88%	-89%	-89%	67,285	70,167	73,717	5%	73,067	95,599	113,738	23%	9%	36%	37%	18%	12	-38,148	-37,470	-36,592	-52,196	-51,989	-51,081	37%	38%	40%	34,800	41,382	45,293	13%	48,203	57,900	69,321	14%	39%	38%	41%	1%	13	73,186	77,710	82,660	-63,437	-62,109	-60,604	-187%	-180%	-173%	139,357	148,407	162,088	6%	108,446	118,748	132,787	10%	-22%	-20%	-18%	3%	14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																									
6	-49,850	-48,534	-46,073	-78,126	-76,495	-72,852	57%	58%	58%	26,812	35,126	40,554	20%	17,478	20,233	25,128	34%	-35%	-17%	-13%	13%	7	1,061,069	1,068,429	1,075,554	1,022,963	1,033,185	1,040,377	-4%	-3%	-3%	9,066	11,039	13,280	19%	43,565	70,262	124,015	48%	381%	536%	834%	29%	8	153,905	156,839	163,108	215,563	224,404	229,945	40%	43%	41%	66,744	98,925	115,331	27%	75,670	125,566	155,333	77%	13%	27%	43%	0%	9	698,391	699,838	700,600	505,942	506,285	507,147	-28%	-28%	-28%	55,754	61,151	71,503	12%	83,681	112,969	143,164	26%	50%	85%	100%	14%	10	-2,171,191	-2,164,120	-2,155,141	-2,011,096	-2,004,216	-1,974,799	-7%	-7%	-7%	288,798	283,355	289,486	6%	499,953	535,713	611,752	10%	86%	89%	111%	0%	11	-76,586	-74,934	-73,892	-42,027	-42,576	-42,017	-88%	-89%	-89%	67,285	70,167	73,717	5%	73,067	95,599	113,738	23%	9%	36%	37%	18%	12	-38,148	-37,470	-36,592	-52,196	-51,989	-51,081	37%	38%	40%	34,800	41,382	45,293	13%	48,203	57,900	69,321	14%	39%	38%	41%	1%	13	73,186	77,710	82,660	-63,437	-62,109	-60,604	-187%	-180%	-173%	139,357	148,407	162,088	6%	108,446	118,748	132,787	10%	-22%	-20%	-18%	3%	14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																															
7	1,061,069	1,068,429	1,075,554	1,022,963	1,033,185	1,040,377	-4%	-3%	-3%	9,066	11,039	13,280	19%	43,565	70,262	124,015	48%	381%	536%	834%	29%	8	153,905	156,839	163,108	215,563	224,404	229,945	40%	43%	41%	66,744	98,925	115,331	27%	75,670	125,566	155,333	77%	13%	27%	43%	0%	9	698,391	699,838	700,600	505,942	506,285	507,147	-28%	-28%	-28%	55,754	61,151	71,503	12%	83,681	112,969	143,164	26%	50%	85%	100%	14%	10	-2,171,191	-2,164,120	-2,155,141	-2,011,096	-2,004,216	-1,974,799	-7%	-7%	-7%	288,798	283,355	289,486	6%	499,953	535,713	611,752	10%	86%	89%	111%	0%	11	-76,586	-74,934	-73,892	-42,027	-42,576	-42,017	-88%	-89%	-89%	67,285	70,167	73,717	5%	73,067	95,599	113,738	23%	9%	36%	37%	18%	12	-38,148	-37,470	-36,592	-52,196	-51,989	-51,081	37%	38%	40%	34,800	41,382	45,293	13%	48,203	57,900	69,321	14%	39%	38%	41%	1%	13	73,186	77,710	82,660	-63,437	-62,109	-60,604	-187%	-180%	-173%	139,357	148,407	162,088	6%	108,446	118,748	132,787	10%	-22%	-20%	-18%	3%	14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																					
8	153,905	156,839	163,108	215,563	224,404	229,945	40%	43%	41%	66,744	98,925	115,331	27%	75,670	125,566	155,333	77%	13%	27%	43%	0%	9	698,391	699,838	700,600	505,942	506,285	507,147	-28%	-28%	-28%	55,754	61,151	71,503	12%	83,681	112,969	143,164	26%	50%	85%	100%	14%	10	-2,171,191	-2,164,120	-2,155,141	-2,011,096	-2,004,216	-1,974,799	-7%	-7%	-7%	288,798	283,355	289,486	6%	499,953	535,713	611,752	10%	86%	89%	111%	0%	11	-76,586	-74,934	-73,892	-42,027	-42,576	-42,017	-88%	-89%	-89%	67,285	70,167	73,717	5%	73,067	95,599	113,738	23%	9%	36%	37%	18%	12	-38,148	-37,470	-36,592	-52,196	-51,989	-51,081	37%	38%	40%	34,800	41,382	45,293	13%	48,203	57,900	69,321	14%	39%	38%	41%	1%	13	73,186	77,710	82,660	-63,437	-62,109	-60,604	-187%	-180%	-173%	139,357	148,407	162,088	6%	108,446	118,748	132,787	10%	-22%	-20%	-18%	3%	14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																											
9	698,391	699,838	700,600	505,942	506,285	507,147	-28%	-28%	-28%	55,754	61,151	71,503	12%	83,681	112,969	143,164	26%	50%	85%	100%	14%	10	-2,171,191	-2,164,120	-2,155,141	-2,011,096	-2,004,216	-1,974,799	-7%	-7%	-7%	288,798	283,355	289,486	6%	499,953	535,713	611,752	10%	86%	89%	111%	0%	11	-76,586	-74,934	-73,892	-42,027	-42,576	-42,017	-88%	-89%	-89%	67,285	70,167	73,717	5%	73,067	95,599	113,738	23%	9%	36%	37%	18%	12	-38,148	-37,470	-36,592	-52,196	-51,989	-51,081	37%	38%	40%	34,800	41,382	45,293	13%	48,203	57,900	69,321	14%	39%	38%	41%	1%	13	73,186	77,710	82,660	-63,437	-62,109	-60,604	-187%	-180%	-173%	139,357	148,407	162,088	6%	108,446	118,748	132,787	10%	-22%	-20%	-18%	3%	14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																	
10	-2,171,191	-2,164,120	-2,155,141	-2,011,096	-2,004,216	-1,974,799	-7%	-7%	-7%	288,798	283,355	289,486	6%	499,953	535,713	611,752	10%	86%	89%	111%	0%	11	-76,586	-74,934	-73,892	-42,027	-42,576	-42,017	-88%	-89%	-89%	67,285	70,167	73,717	5%	73,067	95,599	113,738	23%	9%	36%	37%	18%	12	-38,148	-37,470	-36,592	-52,196	-51,989	-51,081	37%	38%	40%	34,800	41,382	45,293	13%	48,203	57,900	69,321	14%	39%	38%	41%	1%	13	73,186	77,710	82,660	-63,437	-62,109	-60,604	-187%	-180%	-173%	139,357	148,407	162,088	6%	108,446	118,748	132,787	10%	-22%	-20%	-18%	3%	14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																							
11	-76,586	-74,934	-73,892	-42,027	-42,576	-42,017	-88%	-89%	-89%	67,285	70,167	73,717	5%	73,067	95,599	113,738	23%	9%	36%	37%	18%	12	-38,148	-37,470	-36,592	-52,196	-51,989	-51,081	37%	38%	40%	34,800	41,382	45,293	13%	48,203	57,900	69,321	14%	39%	38%	41%	1%	13	73,186	77,710	82,660	-63,437	-62,109	-60,604	-187%	-180%	-173%	139,357	148,407	162,088	6%	108,446	118,748	132,787	10%	-22%	-20%	-18%	3%	14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																													
12	-38,148	-37,470	-36,592	-52,196	-51,989	-51,081	37%	38%	40%	34,800	41,382	45,293	13%	48,203	57,900	69,321	14%	39%	38%	41%	1%	13	73,186	77,710	82,660	-63,437	-62,109	-60,604	-187%	-180%	-173%	139,357	148,407	162,088	6%	108,446	118,748	132,787	10%	-22%	-20%	-18%	3%	14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																			
13	73,186	77,710	82,660	-63,437	-62,109	-60,604	-187%	-180%	-173%	139,357	148,407	162,088	6%	108,446	118,748	132,787	10%	-22%	-20%	-18%	3%	14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																									
14	40,400	41,342	41,854	-6,983	-6,036	-5,778	-117%	-115%	-114%	26,122	27,836	28,768	5%	22,400	25,763	31,988	18%	-14%	-7%	-11%	13%	15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																															
15	1,064,734	1,097,302	1,118,071	1,099,089	1,129,958	1,143,052	3%	3%	2%	11,728	15,841	16,770	18%	21,519	29,748	38,005	24%	83%	88%	109%	6%	16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																					
16	5,180,907	5,181,821	5,184,170	5,046,850	5,049,247	5,050,328	-2%	-2%	-2%	98,856	102,776	108,445	5%	108,621	136,677	159,878	19%	10%	33%	47%	14%	17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																											
17	10,746,069	10,875,126	10,879,521	10,779,497	10,821,039	10,824,793	0%	0%	0%	230,496	252,258	264,847	9%	295,935	327,014	480,837	24%	34%	30%	62%	15%	18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																	
18	2,181,498	2,336,986	2,340,570	2,199,373	2,237,499	2,241,741	1%	0%	0%	230,004	294,245	358,870	22%	394,230	462,685	583,389	19%	71%	54%	63%	-3%	19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																							
19	48,089	51,000	54,755	14,662	16,762	18,708	-70%	-67%	-66%	139,014	147,805	155,159	5%	140,590	162,135	173,983	11%	1%	10%	12%	5%	20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																													
20	-14,508	-13,965	-13,477	-23,037	-22,775	-22,400	59%	63%	66%	3,605	4,059	5,386	19%	6,023	6,655	7,289	9%	6%	64%	36%	-10%	21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																			
21	183,501	183,933	190,282	9,503	11,798	15,170	-95%	-94%	-92%	271,289	281,550	309,019	7%	263,283	307,679	329,877	11%	-3%	9%	7%	5%	22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
22	-114,819	-112,579	-111,232	-61,340	-60,110	-59,599	-47%	-47%	-46%	45,947	49,057	54,904	9%	40,295	57,969	63,048	23%	-12%	18%	18%	15%	23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
23	7,428,514	7,431,579	7,432,807	7,311,689	7,312,857	7,313,938	-2%	-2%	-2%	152,435	167,118	181,074	9%	181,752	215,827	268,389	10%	-12%	-9%	-9%	1%	24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
24	382,230	434,454	530,285	1,070,620	1,101,953	1,107,252	180%	154%	109%	116,765	190,979	267,160	39%	143,483	309,473	445,313	15%	23%	62%	67%	12%	25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
25	-10,298,401	-10,294,205	-10,290,401	-10,844,400	-10,842,384	-10,839,225	5%	5%	5%	29,856	40,586	55,978	30%	45,599	55,238	66,805	17%	53%	60%	16%	13%	26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
26	19,911,090	20,083,900	20,087,777	19,888,782	20,134,330	20,121,345	0%	0%	0%	341,636	375,364	423,004	11%	500,658	592,171	830,021	26%	47%	58%	101%	15%	27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
27	520,913	520,610	530,832	-583,637	-581,788	-577,522	-212%	-210%	-209%	438,613	485,157	517,961	8%	527,064	601,861	720,378	8%	20%	24%	39%	7%	28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
28	911,740	912,972	915,083	864,696	865,634	866,912	-5%	-5%	-5%	9,779	11,776	13,440	16%	19,533	30,480	38,185	52%	100%	159%	184%	17%	29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
29	901,833	902,951	905,434	934,630	935,737	936,703	4%	4%	3%	78,816	107,102	118,428	20%	103,973	122,517	141,732	13%	32%	14%	20%	-5%	30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
30	865,999	871,648	876,210	786,501	786,900	787,381	-13%	-13%	-13%	289,822	311,241	335,895	7%	381,752	402,151	444,379	8%	32%	29%	32%	0%	31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
31	-947,826	-942,466	-940,506	-1,287,284	-1,284,522	-1,282,555	36%	36%	36%	271,237	292,615	303,668	5%	482,969	525,834	586,157	8%	78%	80%	88%	3%	32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
32	43,922	52,134	66,206	-22,209	-18,881	-18,008	-151%	-136%	-45%	16,511	18,449	21,249	13%	41,912	374,891	450,302	81%	154%	1932%	1807%	69%	<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
<b>Commodity</b>																						33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
33	-2,503	-1,256	-2	2,553	2,946	7,526	-202%	-335%	-376400%	5,062	6,735	10,450	35%	17,319	28,341	39,472	32%	243%	321%	220%	-1%	34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
34	35,725	44,609	45,027	261,053	262,982	263,587	613%	490%	485%	251,717	261,413	296,738	8%	645,712	815,081	917,568	17%	157%	212%	209%	9%	35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
35	126,296	134,236	136,197	-387,500	-384,725	-347,763	-391%	-372%	-355%	231,625	299,099	327,893	17%	898,622	827,136	991,994	7%	271%	210%	203%	-10%	36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
36	4,384	4,520	4,756	-3,261	-3,224	-3,110	-174%	-173%	-165%	13,004	17,114	21,215	24%	18,581	30,716	36,638	33%	48%	79%	73%	9%	37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
37	-11,231	-10,748	-10,541	28,157	28,468	28,839	-351%	-360%	-374%	14,490	18,361	20,097	16%	69,318	88,161	114,059	25%	378%	308%	323%	19%	38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
38	9,848	9,912	9,943	8,978	8,999	9,060	-9%	-9%	-9%	2,678	3,163	3,884	18%	6,280	10,766	15,483	42%	135%	240%	299%	24%	39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
39	19,326	19,634	19,739	24,730	24,847	24,921	28%	27%	26%	9,231	10,264	10,780	8%	21,492	36,823	54,867	44%	133%	259%	409%	36%	40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
40	3,851	3,918	3,944	4,302	4,327	4,369	12%	11%	11%	3,662	4,572	5,274	18%	8,970	11,332	15,115	26%	145%	148%	187%	7%	41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
41	45,877	46,148	46,482	38,157	38,262	38,488	-17%	-17%	-17%	5,973	7,531	8,173	16%	15,811	19,262	26,300	19%	127%	165%	278%	23%	42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
42	1,134,388	1,135,000	1,137,610	1,167,993	1,169,583	1,170,577	3%	3%	3%	16,235	19,615	20,962	13%	29,335	40,861	54,247	30%	81%	108%	159%	17%	43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
43	3,145,384	3,146,772	3,150,762	3,125,689	3,127,868	3,128,078	-1%	-1%	-1%	11,676	14,150	16,812	16%	20,614	33,626	55,452	26%	77%	136%	295%	1%	44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
44	23,721	23,969	24,006	29,517	29,877	29,931	24%	25%	24%	5,750	6,586	7,102	11%	10,464	16,110	23,382	27%	13%	24%	3%	-4%	45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
45	996,625	999,288	1,001,389	995,406	996,513	997,163	0%	0%	0%	3,699	5,588	8,098	37%	2,908	13,039	18,330	58%	33%	133%	127%	21%	46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
46	1,048,862	1,051,841	1,052,145	1,037,558	1,038,146	1,038,263	-1%	-1%	-1%	4,501	5,814	8,130	29%	4,189	16,997	24,360	54%	60%	182%	200%	20%	47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
47	34,471	34,656	34,832	33,985	34,040	34,213	-1%	-2%	-2%	1,651	2,536	3,867	40%	2,930	4,661	6,365	37%	77%	84%	65%	-3%	48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
48	9,718	10,596	10,808	19,009	19,744	19,895	96%	86%	84%	7,527	9,708	10,648	17%	18,274	27,058	36,638	25%	143%	179%	189%	8%	49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
49	-10,480	-10,450	-10,108	-12,538	-12,426	-12,346	20%	19%	22%	3,392	3,887	4,116	35%	17,090	24,879	35,608	25%	342%	342%	250%	-1%	50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
50	1,190,921	1,192,143	1,192,529	1,162,201	1,162,920	1,163,027	-2%	-2%	-2%	13,952	18,859	26,439	31%	15,710	23,382	27,332	27%	13%	24%	3%	-4%	51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
51	5,308,539	5,317,156	5,323,178	5,505,639	5,517,332	5,519,888	4%	4%	4%	48,893	59,015	70,684	18%	99,388	171,961	242,423	42%	103%	191%	243%	24%	52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
52	5,406,716	5,429,206	5,516,325	6,474,683	6,498,535	6,514,043	20%	20%	18%	78,799	109,268	136,370	27%	104,959	177,845	261,096	42%	63%	63%	91%	16%	53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
53	10,768,803	10,753,799	10,838,600	11,982,461	12,003,397	12,032,779	12%	12%	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

Table 48: Comparison VaR 2021 – 2021 (VaR/PV %)

Change 2021-2020			VaR 2020				VaR 2021				Change 2021-2020			
			Percentiles				Percentiles							
25th	50th (Median)	75th	25th	50th	75th	IQD	25th	50th	75th	IQD	25th	50th (Median)	75th	
-4%	-4%	-3%	6%	7%	8%	13%	15%	18%	23%	21%	138%	157%	183%	9%
-14%	-17%	-17%	7%	8%	9%	10%	19%	22%	28%	16%	178%	192%	221%	5%
-61%	-62%	-62%	44%	52%	61%	16%	87%	95%	110%	9%	100%	83%	81%	-7%
31%	32%	41%	12%	21%	30%	46%	33%	57%	56%	33%	168%	177%	83%	-13%
21%	21%	21%	7%	7%	8%	8%	12%	12%	14%	9%	81%	71%	85%	1%
57%	58%	58%	54%	72%	88%	20%	22%	38%	48%	34%	-58%	-47%	-45%	13%
-4%	-3%	-3%	1%	1%	1%	19%	4%	7%	12%	48%	398%	558%	865%	29%
40%	43%	41%	43%	63%	71%	27%	35%	56%	72%	37%	-19%	-11%	1%	10%
-28%	-28%	-28%	8%	9%	10%	12%	17%	22%	28%	26%	107%	155%	177%	14%
-7%	-7%	-7%	12%	13%	14%	4%	25%	27%	31%	10%	101%	104%	128%	6%
-88%	-89%	-89%	88%	94%	100%	5%	777%	1115%	1444%	23%	785%	1090%	1347%	18%
37%	38%	40%	91%	110%	124%	13%	92%	111%	125%	14%	1%	1%	1%	1%
-187%	-180%	-173%	190%	191%	196%	8%	171%	191%	219%	10%	-10%	0%	12%	3%
-117%	-115%	-114%	65%	67%	69%	5%	321%	427%	554%	18%	396%	534%	706%	13%
3%	3%	2%	1%	1%	1%	18%	2%	3%	3%	24%	78%	82%	105%	6%
-2%	-2%	-2%	2%	2%	2%	5%	2%	3%	3%	19%	12%	36%	51%	14%
0%	0%	0%	2%	2%	2%	9%	3%	3%	4%	24%	34%	29%	81%	15%
1%	0%	0%	11%	13%	15%	22%	18%	19%	25%	19%	70%	54%	62%	-3%
-70%	-67%	-66%	289%	290%	283%	5%	958%	967%	930%	11%	232%	234%	228%	5%
59%	63%	66%	25%	29%	40%	19%	26%	29%	32%	9%	5%	1%	-18%	-10%
-95%	-94%	-92%	148%	151%	162%	7%	2771%	2608%	2175%	11%	1774%	1622%	1239%	5%
-47%	-47%	-46%	40%	44%	49%	9%	66%	96%	109%	23%	64%	121%	121%	15%
-2%	-2%	-2%	2%	2%	2%	9%	2%	2%	2%	10%	-10%	-8%	-8%	1%
180%	154%	109%	31%	44%	50%	39%	13%	28%	40%	51%	-56%	-36%	-20%	12%
5%	5%	5%	0%	0%	1%	30%	0%	1%	1%	17%	45%	29%	10%	-13%
0%	0%	0%	2%	2%	2%	11%	3%	3%	4%	26%	47%	58%	101%	15%
-212%	-210%	-209%	84%	92%	98%	8%	90%	103%	125%	16%	7%	13%	28%	7%
-5%	-5%	-5%	1%	1%	1%	16%	2%	4%	4%	32%	111%	173%	200%	17%
4%	4%	3%	9%	12%	13%	20%	11%	13%	15%	15%	27%	10%	16%	-5%
-13%	-13%	-13%	33%	36%	38%	7%	50%	53%	58%	8%	51%	49%	53%	0%
36%	36%	36%	29%	31%	32%	5%	38%	41%	44%	8%	31%	32%	38%	3%
-151%	-136%	-45%	38%	35%	32%	13%	189%	1986%	1119%	81%	402%	551%	3388%	69%
-202%	-335%	-376400%	202%	536%	522500%	35%	678%	962%	445%	32%	235%	79%	-100%	-3%
631%	490%	485%	705%	586%	659%	8%	247%	310%	348%	17%	-65%	-47%	-47%	9%
-391%	-372%	-355%	183%	223%	241%	17%	234%	254%	285%	7%	28%	14%	19%	-10%
-174%	-171%	-165%	297%	379%	446%	24%	570%	953%	1178%	33%	92%	152%	164%	9%
-351%	-365%	-374%	129%	171%	191%	16%	246%	310%	499%	35%	91%	81%	162%	19%
-9%	-9%	-9%	27%	32%	39%	18%	70%	120%	171%	42%	157%	275%	337%	24%
28%	27%	26%	48%	52%	55%	8%	87%	148%	220%	44%	82%	183%	303%	36%
12%	11%	11%	95%	117%	134%	18%	209%	261%	346%	26%	119%	124%	159%	7%
-17%	-17%	-17%	13%	16%	18%	16%	36%	50%	80%	39%	173%	208%	356%	23%
3%	3%	3%	1%	2%	2%	13%	3%	3%	5%	30%	75%	102%	151%	17%
-1%	-1%	-1%	0%	0%	1%	18%	1%	1%	1%	26%	78%	140%	112%	8%
24%	25%	24%	24%	27%	29%	11%	35%	54%	60%	27%	46%	96%	105%	16%
0%	0%	0%	0%	1%	1%	37%	0%	1%	2%	58%	33%	134%	128%	21%
-1%	-1%	-1%	0%	1%	1%	29%	1%	2%	2%	54%	61%	186%	204%	26%
-1%	-2%	-2%	5%	7%	11%	40%	9%	14%	19%	37%	80%	87%	68%	-3%
96%	86%	84%	77%	92%	99%	17%	96%	137%	155%	25%	24%	50%	57%	8%
20%	19%	22%	32%	37%	70%	35%	96%	138%	201%	35%	196%	271%	186%	-1%
-2%	-2%	-2%	1%	2%	2%	31%	1%	2%	2%	27%	15%	27%	6%	-4%
4%	4%	4%	1%	1%	1%	18%	2%	3%	4%	42%	96%	181%	231%	24%
20%	20%	18%	1%	2%	2%	27%	2%	3%	4%	43%	11%	36%	62%	16%
12%	12%	11%	1%	2%	2%	37%	1%	2%	4%	52%	44%	63%	112%	15%
			1%	2%	2%	36%								
			7%	20%	20%	64%								
			2%	2%	3%	20%								
13%	10%	12%	9%	10%	10%	7%	15%	18%	19%	16%	54%	81%	90%	148%
32%	34%	45%	14%	15%	17%	11%	21%	23%	23%	9%	53%	50%	35%	-15%
-4%	-7%	-5%	14%	16%	17%	16%	22%	23%	25%	11%	58%	47%	44%	-32%
-121%	-118%	-113%	41%	47%	48%	12%	-319%	-394%	-592%	12%	-881%	-944%	-1326%	-2%
633%	575%	518%	698%	660%	673%	8%	247%	297%	336%	17%	-65%	-55%	-50%	101%
-1%	-1%	-1%	0%	0%	1%	17%	1%	1%	2%	27%	115%	187%	170%	64%
			2%	3%	3%	21%								

Figure 27: VIX Index



VIX Index stats			
Period		Average	99% Quantile
Mar-19	Mar-20	15.25	33.17
Mar-20	Mar-21	30.47	76.17

Table 49: Comparison SVaR 2021 – 2021

Port ID	PV 2020			PV 2021			Change 2021-2020			SVaR 2020			SVaR 2021			Change 2021-2020						
	Percentiles			Percentiles			Change 2021-2020			Percentiles			Percentiles			Change 2021-2020						
	25th	50th (Median)	75th	25th	50th (Median)	75th	25th	50th (Median)	75th	25th	50th	75th	QD	25th	50th	75th	QD	25th	50th (Median)	75th		
1	36.431.000	36.431.486	36.463.410	35.131.607	35.142.000	35.204.206	-4%	-4%	-3%	6.947.230	7.350.416	8.315.252	9%	6.215.008	6.841.100	7.954.236	12%	-11%	-7%	-4%	3%	
2	-30.133.278	-30.076.236	-30.021.066	-25.929.815	-25.111.408	-24.875.683	-14%	-17%	-17%	8.041.047	9.933.012	13.473.337	25%	5.855.941	7.956.103	11.481.081	32%	-27%	-20%	-15%	7%	
3	-38.550	-38.231	-37.988	-14.980	-14.571	-14.261	-61%	-62%	-62%	20.809	31.555	37.438	29%	10.644	13.731	19.356	29%	-49%	-56%	-48%	0%	
4	3.267	3.410	3.598	4.278	4.513	5.061	31%	32%	41%	497	815	1.668	54%	1.264	2.095	3.140	43%	154%	231%	88%	-11%	
5	-11.697.799.988	-11.677.500.000	-11.662.359.679	-14.194.000.000	-14.128.853.403	-14.127.134.239	21%	21%	21%					13%	1.586.201.465	2.859.881.740	3.502.526.298	58%	-33%	12%	14%	25%
6	-49.850	-48.534	-46.073	-78.126	-76.495	-72.852	57%	58%	58%	35.493	53.285	66.808	31%	25.672	34.164	44.353	25%	-28%	-36%	-37%	-6%	
7	1.061.069	1.068.429	1.075.054	1.022.963	1.033.185	1.040.377	4%	-3%	-3%	27.189	41.222	71.122	45%	46.298	67.354	83.699	39%	70%	63%	17%	-16%	
8	153.905	156.839	163.108	215.563	224.404	229.945	40%	43%	41%	90.606	125.258	164.454	29%	74.025	98.048	118.571	23%	-18%	-22%	-26%	-6%	
9	698.391	698.838	700.600	505.842	506.285	507.147	-28%	-28%	-28%	91.600	121.201	140.212	21%	79.647	99.098	124.988	22%	-18%	-18%	-11%	1%	
10	-2.171.191	-2.164.120	-2.138.141	-2.011.096	-2.004.216	-1.974.799	-7%	-7%	-7%	820.534	1.018.607	1.132.628	16%	668.552	937.770	1.084.508	24%	-19%	-8%	-4%	-8%	
11	-76.586	-74.934	-73.892	-9.402	-8.576	-8.017	-88%	-89%	-89%	149.362	205.441	246.559	25%	123.625	169.200	230.218	30%	-17%	-18%	-7%	-6%	
12	-38.148	-37.470	-36.592	-52.196	-51.589	-51.081	37%	38%	40%	44.111	79.686	105.057	40%	59.089	100.301	119.116	34%	34%	26%	16%	-6%	
13	73.186	77.710	82.660	-65.437	-62.109	-60.604	-187%	-180%	-173%	242.695	309.168	377.093	12%	145.319	209.251	357.841	42%	-40%	-13%	-5%	21%	
14	40.400	41.342	42.854	-6.983	-6.266	-5.778	-117%	-115%	-114%	56.281	80.747	102.100	39%	28.123	74.888	94.655	54%	-56%	-7%	-7%	25%	
15	1.064.734	1.097.302	1.118.071	1.099.089	1.129.958	1.143.052	3%	3%	2%	28.193	62.709	98.664	52%	44.811	70.364	109.076	42%	59%	12%	11%	14%	
16	5.160.907	5.161.821	5.164.170	5.046.850	5.049.247	5.050.328	-2%	-2%	-2%	153.031	193.890	219.922	19%	153.969	184.723	206.143	14%	2%	-5%	-6%	-4%	
17	10.746.065	10.875.126	10.879.521	10.779.497	10.921.039	10.924.792	0%	0%	0%	243.025	368.887	419.228	27%	258.499	346.162	401.411	22%	6%	-6%	-4%	-5%	
18	2.181.498	2.338.986	2.340.570	2.199.373	2.337.499	2.341.741	1%	0%	0%	228.258	325.705	348.231	21%	227.290	317.639	359.011	20%	0%	-2%	3%	2%	
19	48.089	51.000	54.755	14.662	16.762	18.708	-70%	-67%	-66%	224.958	293.322	349.151	22%	180.905	286.803	324.223	29%	-20%	-2%	-7%	7%	
20	-14.508	-13.965	-13.477	-23.037	-22.775	-22.400	59%	63%	66%	8.018	14.728	16.856	40%	7.328	13.266	15.513	35%	-9%	-10%	-19%	-6%	
21	183.501	185.933	190.282	9.503	11.798	15.178	-91%	-95%	-94%	540.080	637.169	711.042	13%	303.712	556.633	697.346	39%	-84%	-13%	-3%	-25%	
22	-114.819	-112.579	-111.232	-61.340	-60.110	-59.599	-47%	-47%	-46%	98.117	155.659	209.666	36%	89.835	137.382	172.760	32%	-8%	-12%	-18%	-5%	
23	742.814	743.157	743.807	7.311.689	7.312.657	7.313.936	-2%	-2%	-2%	235.634	283.767	322.728	16%	173.186	238.431	273.488	22%	-27%	-16%	-16%	7%	
24	382.230	434.454	530.285	1.070.620	1.101.953	1.107.252	180%	154%	109%	257.926	356.764	444.888	53%	161.458	308.636	356.373	52%	-37%	-39%	-40%	-2%	
25	-10.298.401	-10.294.205	-10.290.401	-10.844.400	-10.842.384	-10.839.225	5%	5%	5%	85.993	164.733	199.388	40%	74.380	162.668	188.809	40%	-14%	-1%	-5%	4%	
26	19.511.086	20.083.909	20.087.777	19.898.782	20.114.330	20.121.345	0%	0%	0%	357.426	629.736	702.499	31%	375.585	589.632	607.249	24%	2%	-10%	-14%	7%	
27	520.913	526.610	530.832	-583.637	-581.788	-577.522	-212%	-210%	-209%	1.169.136	1.369.184	1.689.576	18%	628.769	800.960	879.562	17%	-46%	-42%	-48%	-2%	
28	911.740	912.972	915.083	864.696	865.634	866.912	-5%	-5%	-5%	16.749	29.340	33.382	33%	11.524	22.461	27.970	42%	-31%	-23%	-16%	8%	
29	901.853	902.951	905.434	934.630	935.737	936.703	4%	4%	3%	343.143	394.746	443.121	13%	194.733	239.365	285.924	19%	-43%	-39%	-35%	6%	
30	865.999	872.648	876.210	756.501	758.970	759.781	-13%	-13%	-13%	744.213	951.282	1.123.236	20%	650.911	880.338	1.028.642	22%	-13%	-7%	-8%	2%	
31	-947.826	-942.466	-940.500	-1.287.284	-1.284.522	-1.282.555	36%	36%	36%	942.746	1.059.293	1.277.546	15%	973.626	1.078.292	1.337.679	16%	3%	2%	5%	1%	
32	43.922	52.134	66.206	-22.209	-18.881	-16.208	-131%	-136%	-131%	112.875	138.100	148.264	14%	140.791	415.140	869.729	72%	25%	201%	487%	99%	
33	-2.305	-1.256	-2	2.553	2.946	7.528	-202%	-335%	-376.00%	13.771	20.366	27.357	35%	17.351	27.513	28.841	28%	26%	35%	9%	7%	
34	35.723	44.609	45.027	261.053	263.982	263.987	613%	496%	485%	396.164	437.489	493.795	11%	380.288	422.751	550.606	18%	-4%	-3%	12%	8%	
35	126.296	134.236	136.197	-367.500	-364.725	-347.763	-391%	-372%	-355%	1.018.879	1.066.925	1.154.500	6%	1.024.511	1.255.185	1.288.699	11%	1%	18%	12%	5%	
36	4.384	4.520	4.796	-3.261	-3.224	-3.110	-174%	-171%	-165%	15.473	22.234	25.915	25%	16.214	21.694	25.970	33%	5%	-2%	-1%	-3%	
37	-11.231	-10.748	-10.541	28.167	28.468	28.839	-351%	-365%	-374%	41.286	52.649	62.188	33%	65.973	109.723	128.376	32%	60%	108%	57%	1%	
38	9.848	9.912	9.943	8.978	8.999	9.060	-9%	-9%	-9%	7.448	16.332	19.981	46%	8.888	19.482	23.196	41%	19%	19%	5%	-5%	
39	19.326	19.634	19.739	24.730	24.647	24.921	28%	27%	26%	19.919	31.997	43.284	37%	25.295	44.629	53.105	35%	27%	39%	23%	1%	
40	3.851	3.918	3.944	4.302	4.337	4.369	12%	11%	11%	11.345	16.599	23.881	36%	12.531	20.798	32.672	45%	10%	25%	37%	9%	
41	45.877	46.148	46.482	38.157	38.262	38.468	-17%	-17%	-17%	16.111	38.463	43.062	46%	17.873	38.859	45.738	44%	11%	1%	6%	-2%	
42	1134.388	1.135.000	1.137.610	1.167.993	1.169.589	1.170.577	3%	3%	3%	39.210	49.192	64.781	37%	39.150	54.079	61.862	44%	0%	10%	20%	8%	
43	3145.384	3.149.772	3.150.762	3.125.689	3.127.684	3.128.078	-1%	-1%	-1%	36.878	65.329	79.948	33%	24.613	45.347	60.280	46%	-3%	-31%	-10%	-12%	
44	23.721	23.869	24.080	29.517	29.877	29.931	24%	25%	24%	14.977	22.059	25.230	26%	11.729	23.565	32.487	47%	-22%	7%	29%	21%	
45	996.625	999.828	1.001.389	995.406	996.313	997.163	0%	0%	0%	12.816	21.033	26.388	38%	9.652	20.337	21.744	39%	-23%	-3%	-23%	1%	
46	1.048.862	1.051.841	1.052.145	1.037.558	1.038.146	1.038.263	-1%	-1%	-1%	13.506	18.881	21.591	28%	10.818	14.952	16.442	21%	-20%	-21%	-24%	-2%	
47	34.471	34.656	34.832	33.885	34.040	34.213	-1%	-2%	-2%	7.663	9.200	13.016	26%	8.174	9.358	10.888	24%	7%	0%	-17%	-12%	
48	9.718	10.596	10.806	19.009	19.744	19.895	96%	86%	84%	21.591	30.908	39.116	29%	23.970	35.242	39.651	25%	11%	14%	1%	-4%	
49	-10.480	-10.430	-10.106	-12.558	-12.426	-12.346	20%	19%	22%	8.028	13.452	16.583	35%	9.261	15.669	18.109	32%	15%	16%	9%	-2%	
50	1.190.921	1.192.143	1.192.529	1.162.201	1.162.970	1.163.027	-2%	-2%	-2%	24.267	29.355	32.503	15%	15.487	21.856	24.341	22%	-36%	-26%	-23%	8%	
51	5.308.539	5.317.156	5.323.175	5.305.639	5.317.332	5.319.888	4%	4%	4%	129.378	188.252	243.403	31%	126.487	214.609	297.125	34%	-2%	14%	6%	3%	
52	5.406.716	5.429.206	5.516.325	6.474.683	6.498.353	6.514.043	20%	20%	18%	166.510	404.573	588.499	56%	148.602	222.730	329.678	58%	-11%	-45%	-44%	-18%	
53	10.708.803	10.751.799	10.838.603	11.982.461	12.003.397	12.032.779	12%	12%	11%	294.170	469.230	670.692	39%	284.690	394.561	548.162	32%	-3%	-16%	-18%	-7%	
54	156.997	164.279	170.997							8.278	9.937	13.163	23%									
55	71.888	80.936	111.330							15.010	44.280	46.498	51%									
56	16.207.952	16.211.420	16.306.076							753.735	790.287	1.186.244	20%									
57</																						



EUROPEAN BANKING AUTHORITY

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