

## The Exchange Rate Effects of Macro News after the Global Financial Crisis

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**Abstract:** We explore whether the exchange rate effects of macro news are time- and state-dependent by analyzing and comparing the relative influence of US and Japanese macro news on the JPY/USD rate before, during, and after the Global Financial Crisis. A comprehensive set totaling 40 time-stamped US and Japanese news variables and preceding survey expectations along with 5-minute indicative JPY/USD quotes spanning the 1 January 1999 to 31 August 2016 period facilitate our analysis. Our results suggest that while US macro news are now more important than before the Crisis, the influence of Japanese macro news has waned to the point of near-irrelevance. These findings are of particular importance to exchange rate modeling of the New Era.

**Key words:** Foreign Exchange Rates; Macro News Surprises; Global Financial Crisis.

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## 1. Introduction

A considerable literature on the influence of macro news on foreign exchange markets, including several studies investigating the intraday exchange rate effects of such news, exists.<sup>1</sup> While this body of literature encompasses studies using different methodological approaches and different data sampling frequencies for considering the influence of different types of macro news from different countries on different currencies, the following stylized facts have been uncovered. The exchange rate effects of macro news are substantial (Evans and Lyons, 2008), immediate (Andersen et al., 2003), and short-lived (Andersen et al., 2003); macro news emanating from the US typically matter more than non-US macro news (Chatrath et al., 2014; Evans and Speight, 2010); the influence of macro news tends to be time-dependent and vary across the state of the economy (Clarida and Waldman, 2007; Fatum et al., 2012; Faust et al., 2005).<sup>2</sup>

We take our cue from these stylized facts, particularly as they pertain to time- and state-dependence, to investigate whether the influence of macro news on the exchange rate has changed with the emergence of the Global Financial Crisis (GFC) and subsequent post-GFC periods of increased uncertainty, slow or negative growth, and ultra-accommodative monetary policy stance. In this New Era of economic circumstances where any off-setting policy response to macro news is constrained or unlikely (and thus market expectations in regards to such policy responses are muted accordingly), the

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<sup>1</sup> Li et al. (2015) provide a recent survey of the intraday literature on macro news and exchange rates.

<sup>2</sup> Evans and Lyons (2008) suggest that macro news explain more than 30% of daily exchange rate variance. Andersen et al. (2003) show that the exchange rate adjusts to news quickly in the form of a jump rather than gradually. Chatrath et al. (2014) in their jump diffusion analysis and Evan and Speight (2010) in their study of EUR/USD rate volatility both find that US news matter more than non-US news. Clarida and Waldman (2007) consider the relevance of the state of the economy and associated policy response to news, Fatum et al. (2012) find evidence that the influence of news vary with the state of the economy, and Faust et al. (2005) takes into account the relevance of time-dependence of the influence of macro news.

influence of macro news on exchange rates is possibly magnified.<sup>3</sup> To investigate whether this is indeed the case and, more broadly, to document and compare the exchange rate effects of macro news before, during, and after the GFC, we analyze the intraday effects on the JPY/USD rate (using 5-minute indicative quotes) of 40 different types of US and Japanese macro news surprises (23 different types of US macro surprises and 17 different types of Japanese macro surprises) over the 1 January 1999 to 31 July 2007 (pre-GFC), the 1 August 2007 to 31 January 2009 (GFC), and the 1 February 2009 to 31 August 2016 (post-GFC) periods.<sup>4</sup>

We focus our analysis on the effects of US and Japanese news on the JPY/USD rate since doing so allows us to take advantage of a unique combination of a largely unchanged Japanese zero-interest rate environment that spans more than 16 years juxtaposed against dramatic shifts in the US (and global) economic environment before, during, and after the GFC. Furthermore, by focusing on US and Japanese news we are able to extend our analysis to separately consider the influence of news during the 9 years of zero US interest rates (“US-ZIRP”) in a setting where the state of the economy and the economic policy environment of Japan are mostly constant.<sup>5</sup> Towards the end of the US-ZIRP the Japanese monetary policy stance has become further accommodating with the introduction of the Japanese quantitative and qualitative easing (QQE). We also consider separately the influence of news during the Japanese QQE period.<sup>6</sup>

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<sup>3</sup> An off-setting policy response to negative macro news is necessarily constrained when traditional policy options are exhausted. At the same time, an off-setting policy response to positive macro news is unlikely in a subdued economic environment.

<sup>4</sup> The GFC demarcation dates follow Melvin and Taylor (2009).

<sup>5</sup> The US-ZIRP starts 16 December 2008 and ends 15 December 2015.

<sup>6</sup> The Japanese QQE has been in effect since 5 April 2013. On 29 January 2016 the QQE was expanded to include negative interest rates. The resulting sub-period characterized by negative Japanese interest rates is too short to facilitate a meaningful separate investigation of the influence of news when interest rates are negative.

Using both time-series and event study regressions to model the JPY/USD exchange rate response to US and Japanese macro news our results yield the following new insights. The composition of the set of US macro news that elicit a JPY/USD rate response, i.e. the number of US news as well as the particular types of US news associated with significant exchange rate movements, is very stable across the more than 16 years of data under study. However, we find that the average estimated effect of the significant US news variables has roughly doubled since the inception of the GFC. This is an interesting finding that lends support to the suggestion that, as far as US news goes, the influence of macro news on exchange rates in the New Era of constrained policy options has in fact increased. In other words, our results suggest that US macro news are now more important than before the GFC.

The results pertaining to the effects of Japanese macro news before, during, and after the GFC are very different from those of the US news. For the pre-GFC period we find the set of influential Japanese news to be smaller than that of the set of influential US news, and in terms of average estimated effect relatively less important than US news. To find that the importance of US news dominates that of non-US news is hardly surprising and consistent with the aforementioned studies that consider and compare the relative influence of US news to non-US news. However, we find for the GFC as well as for the post-GFC periods that the influence of Japanese macro news has all but disappeared. This is a particularly interesting finding that might suggest that after two decades of false starts but no real recovery, foreign exchange markets may no longer consider Japanese macro news as important or as reliable indicators of the state of the Japanese economy and, as a result, markets may thus largely ignore news originating

from Japan at a time when the global economy is experiencing a sustained period of muted growth that makes positive changes to the Japanese status quo even more difficult to achieve. An alternative explanation is that this finding is not Japan-specific but non-US news in general lost importance since the inception of the GFC (in unison with US news gaining in importance).

In any event, our results constitute important findings of particular relevance to exchange rate of the New Era and, at the same time, our results invite further research to ascertain if US news since the GFC have become universally more important alongside a waning influence of non-US news, or, if our results might be largely US-Japan specific.

The rest of the paper is organized as follows. Section 2 describes the data. Sections 3 and 4 present the econometric methodology and the results, respectively. Section 5 discusses extensions and robustness checks. Section 6 concludes.

## **2. Data**

Our analysis employs high-frequency JPY/USD exchange rate data, time-stamped US and Japanese macro news announcements, and survey measures of market expectations of these news announcements. Our full sample covers the 1 January 1999 to 31 August 2016 period.

The JPY/USD exchange rate data is provided by Olsen and Associates. The data consists of the bid and the offer spot exchange rate at the end of every 5-minute interval over every 24-hour period. The quotes are indicative quotes, i.e. not necessarily traded quotes.<sup>7</sup> We filter the exchange rate data for outliers using the two-step procedure of

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<sup>7</sup> The statistical properties of exchange rate return series derived from indicative quotes at the 5-minute sampling frequency are very similar to those of traded ("firm") quotes (see Danielsson and Payne, 2002).

Dacorogna et al. (1993). Our analysis makes use of continuously compounded returns that are constructed as the change in the five-minute average log bid and ask prices. Table 1 summarizes key statistical properties of our filtered exchange rate returns data.

Our news data consists of a comprehensive set of time-stamped Japanese and US macroeconomic announcements and preceding survey expectations obtained from Bloomberg News Service.<sup>8</sup> Specifically, we consider US news variables that Andersen et al. (2003) find to be significant in their investigation of the JPY/USD exchange rate along with comparable Japanese and other US and Japanese news variables of particular interest included in Fatum et al. (2012).<sup>9</sup> Our resulting news data includes announcements and survey expectations regarding 23 types of US macro news and 17 types of Japanese macro news. The US news variables are GDP advanced estimate, GDP second estimate, GDP third estimate, Non-farm payrolls, Retail sales, Industrial production, Capacity Utilization, Personal income, Consumer credit, Consumer spending, Personal spending, New home sales, Durable goods orders, Factory orders, Business inventories, Trade balance, Producer price index, Consumer price index, Consumer confidence index, NAPM index, Housing starts, Index of leading indicators and Target Federal Funds rate. The Japanese news variables are GDP preliminary, GDP final, Industrial production, Capacity utilization, Department and super sales value, Overall spending, Machinery orders, Construction orders, Trade balance, Current account, Retail trade, Consumer price

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<sup>8</sup> Fatum and Scholnick (2008) show that failure to disentangle the expected component of news may lead to an underestimation of the impact of news.

<sup>9</sup> While we investigate the influence of macro news on the JPY/USD rate separately over the US ZIRP and separately over the Japanese QQE period, we do not include in our set of news variables the various US and Japanese announcements associated with quantitative easing innovations as preceding survey expectations pertaining to these typically unscheduled announcements are unavailable. For a study that considers the exchange rate effects of the quantitative easing related announcements see, for example, Arai (2016).

index, Producer price index, Leading economic index, Consumer confidence index, TANKAN large manufacturing index, and TANKAN non-manufacturing index.<sup>10</sup>

Table 2 displays the details pertaining to the US and the Japanese news variables. The table shows the number of non-zero news surprises, the announcement frequency, and the start date of each of the news series.<sup>11</sup>

We follow Andersen et al. (2003) and others in defining a news announcement surprise as the difference between the macroeconomic announcement and the preceding survey expectation of that announcement as well as in standardizing each news surprise series in order to allow for a comparison of the relative influences of the different types of news.<sup>12</sup>

### 3. Econometric Methodology

To assess the influence of US and Japanese macro news surprises on the intraday JPY/USD rate we first estimate the following model:

$$R_t = \beta_0 + \sum_{j=1}^J \beta_j R_{t-j} + \sum_{q=1}^Q \sum_{k=0}^K \gamma_{q,k} S_{q,t-k} + \varepsilon_t, \quad (1)$$

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<sup>10</sup> The Board of Governors of the Federal Reserve System website at <https://www.federalreserve.gov/econresdata/releaseschedule.htm> provides details regarding the US macro announcements. The Bank of Japan website at [www.boj.or.jp/en/theme/stat/index.htm](http://www.boj.or.jp/en/theme/stat/index.htm) and the Japanese Cabinet Office website at [www.cao.go.jp/index-e.html](http://www.cao.go.jp/index-e.html) provide details (in English) regarding the Japanese macro announcements.

<sup>11</sup> Andersen et al. (2003) and Hashimoto and Ito (2010) provide additional details regarding US and Japanese news announcements, respectively.

<sup>12</sup> A standardized news surprise is given by the unexpected component of the macroeconomic announcement divided by the associated sample standard deviation. Let  $A_{q,t}$  denote the value of a given macroeconomic fundamental  $q$ , announced at time (minute)  $t$ . Let  $E_{q,t}$  refer to the median value of the preceding market expectations for the given fundamental at announcement time  $t$ , and let  $\hat{\sigma}_q$  denote the sample standard deviation of all the surprise components associated with fundamental  $q$ . The standardized surprise of macroeconomic fundamental  $q$  announced at time  $t$  is then defined as  $S_{q,t} = (A_{q,t} - E_{q,t}) / \hat{\sigma}_q$ .

where  $R_t$  is the five-minute exchange rate return,  $S_{q,t-k}$  is the standardized shock of the  $q$ th macro news, and  $\varepsilon_t$  is the error term. The maximum number of US and Japanese macro news included in the model,  $Q=40$ , occurs when all news considered in a given sample have non-zero values. The model is estimated using OLS with heteroscedasticity and autocorrelation consistent (HAC) standard errors as suggested by Newey and West (1987). The lag order of exchange rate returns,  $J$ , is chosen according to the Schwarz Information Criterion (SIC).

In our main analysis we focus on the contemporaneous effects of news and estimate Equation (1) with  $K=0$  while we in the robustness section consider lagged effects of news by estimating Equation (1) with  $K=1$  and with  $K=2$ , respectively. Furthermore, in our main analysis we simultaneously include both US and Japanese macro news when estimating Equation (1) while we in our robustness section estimate separate models for US and Japanese news, respectively.

To analyze whether the absolute effect on the exchange rate of positive news is different from the absolute effect of negative news, i.e. to consider whether the influence on the exchange rate of “good” versus “bad” news is asymmetric, we estimate the following model:

$$R_t = \beta_0 + \sum_{j=1}^J \beta_j R_{t-j} + \sum_{q=1}^Q \sum_{k=0}^K \gamma_{q,k}^+ S_{q,t-k}^+ + \sum_{q=1}^Q \sum_{k=0}^K \gamma_{q,k}^- S_{q,t-k}^- + \varepsilon_t \quad (2)$$

where

$$S_{q,t-k}^+ = I(S_{q,t-k} \geq 0) S_{q,t-k}$$

$$S_{q,t-k}^- = I(S_{q,t-k} < 0) S_{q,t-k}$$



with  $I(\cdot)$  defined as an indicator function capturing the sign of news surprises. We formally consider whether the coefficient estimates associated with good versus bad news for a given type of news are significantly different by introducing an auxiliary regression where we in Equation (2) replace  $S_{q,t-k}^-$  with  $S_{q,t-k}$ . Doing so allows the coefficient estimate of  $\gamma_{q,k}^+$  to be interpreted as the difference between  $\gamma_{q,k}^+$  and  $\gamma_{q,k}^-$  in the original Equation (2).

We check the robustness of our main findings by employing two different estimation procedures. First, following Andersen et al. (2007) and others, we assess the influence of news on exchange rates by re-estimating Equation (1) on a reduced sample consisting of only 100-minute windows surrounding every macro announcement considered, where every 100-minute window encompasses observations 10 minutes before and 90 minutes after an announcement. This alteration significantly reduces the number of observations in our sample while keeping information pertaining to the news announcements themselves unchanged.

Second, following Andersen et al. (2003), we also estimate the effects of news using a standard event study regression model:

$$R_t = \alpha_q + \beta_q S_{qt} + \varepsilon_t, \tag{3}$$

where this “news-by-news” estimation procedure considers only observations coinciding with an announcement. Equation (3) is also estimated using OLS with HAC standard errors.

#### 4. Results

The results of estimating Equation (1) with both US and Japanese standardized news included (contemporaneous news only) across the full sample, 1 January 1999 to 31 August 2016, as well as across the various sub-samples are displayed in Table 3.<sup>13</sup> The full sample results reported in the first column suggest that 15 of the 23 US news considered are significant at conventional levels (95% or higher) while only three of the 17 Japanese news considered are significant at conventional levels. All 18 significant coefficient estimates are of the expected sign. The average magnitude of the 15 significant US news variables is 0.0444 and the average magnitude of the 3 significant Japanese news variables is 0.0116. Overall, these full-sample findings clearly point to a much stronger influence of US news compared to news emanating from Japan.

The magnitudes of the individual coefficient estimates indicate that for the US the forward-looking news variables (in order of relative importance) non-farm payrolls, GDP advanced estimate, and NAPM index are the three most influential. That forward-looking US news variables are of particular importance is consistent with, for example, Chaboud et al. (2004) and Fatum et al. (2012). Consistent with Fatum et al. (2012) and Hashimoto and Ito (2010) we find industrial production to be a particularly influential Japanese news variable.

The second column displays the results pertaining to the pre-GFC period, 1 January 1999 to 31 July 2007. As the column shows, the US news results are mostly very similar to those of the full sample with the most noticeable exceptions being that GDP third estimate is no longer significant while news pertaining to the Target Federal Funds

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<sup>13</sup> We include three lags of the JPY/USD rate as per the SIC. For brevity we do not display the coefficient estimates associated with constant and JPY/USD lags.

rate is now highly significant.<sup>14</sup> Overall, similar to the full sample, 15 of the 23 US news considered are significant and of the expected sign and, once again, the average magnitude of the significant US news variables is several times that of the significant Japanese news variables (0.0360 versus 0.0060). Compared to the full sample results, the effects of Japanese news are quite different across the pre-GFC period as the number of significant Japanese news variables (at 95% or higher) more than doubles, from three to seven. Once again, all significant coefficients are of the expected sign.<sup>15</sup>

Turning to the effects of US and Japanese macro news on the JPY/USD during the GFC period, the third column of Table 3 reports our findings. As the column shows, the number of significant US news remains largely unchanged, at 14 for the GFC sample versus 15 for both the full and the pre-GFC samples. While 13 of the 14 significant US news variables are of the expected sign, one variable, GDP third estimate is not of the expected sign but stems from only one non-zero observation.

The results pertaining to the Japanese news variables over the GFC period are particularly interesting due to the finding that, overall, the influence of Japanese news seems to have largely disappeared. During the GFC period, only two Japanese news variables, machinery orders and TANKAN non-manufacturing, are significant, and only the coefficient estimate of the former is of the expected sign.<sup>16</sup>

It is for the GFC (and subsequent) period(s) not meaningful to compare the average magnitude of the significant news variables by country due to the drop in the

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<sup>14</sup> The full sample period contains only six non-zero Target Federal Funds rate observations, three of which coincide with the pre-GFC period, thus the associated coefficient estimates are not further discussed.

<sup>15</sup> Not surprisingly, considering that our pre-GFC sample period is almost identical to the 1 January 1999 to 31 October 2006 sample period investigated by Fatum et al. (2012), the individual pre-GFC US and Japanese news variable results reported in the second column are very similar to those described and discussed in their study.

<sup>16</sup> The GFC period encompasses only one non-zero TANKAN manufacturing observation.

number of significant Japanese news variables. However, it is noteworthy that the average estimated influence of the significant US news variables for the GFC period is more than double that of the pre-GFC period (0.0832 versus 0.0360). In other words, even though the number of influential US news is largely unchanged across the pre-GFC and the GFC periods, the average influence of US news is markedly stronger during the latter period.<sup>17</sup>

The fourth column lists the results pertaining to the post-GFC period, 1 February 2009 to 31 August 2016. The results show that during the post-GFC period 13 US news variables are significantly influencing the JPY/USD rate. The average estimated influence of the 13 significant US news variables is similar to that of the GFC period (0.0714 during the post-GFC period compared to, as noted, 0.0832 during the GFC period). All significant US news variables are of the expected sign. As for the intraday influence of Japanese news during the post-GFC period, once again only two types of news, news pertaining to the Japanese trade balance and news pertaining to Japanese construction orders, are associated with significant (at 95% or higher) coefficient estimates. The trade balance coefficient estimate is of the expected sign, indicating that better than expected Japanese trade balance news are associated with a relative strengthening of the JPY.<sup>18</sup>

Our results so far point to the following insights in regards to the JPY/USD intraday effects of Japanese and US macro surprises. The number of influential US news

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<sup>17</sup> Furthermore, compared with the pre-GFC period, the GFC period garners a larger adjusted  $R^2$  estimate, consistent with improved overall explanatory power of the regressors. However, because the set of regressors include not only the macro news variables but also (three) lags of the exchange rate returns, changes in the adjusted  $R^2$  across the different sub-samples does not necessarily reflect changes in the overall explanatory power of the macro news.

<sup>18</sup> The coefficient estimate of the influence of Japanese construction orders is of the unexpected sign but stems from only one non-zero observation.

is markedly higher than the number of influential Japanese news. This is the case for the full sample as well as for the three sub-samples pre-GFC, GFC, and post-GFC. Importantly, while the number of influential US macro news is largely unchanged across the three pre-GFC, GFC, and post-GFC sub-samples, the average influence of the significant US news is markedly higher during and after the GFC, compared to over the pre-GFC period. By contrast, our sub-sample results reveal that from the GFC period and onwards the influence of Japanese macro news has all but disappeared. These results are observed with an increase in the adjusted  $R^2$  estimate across the three sample periods.

These are interesting findings for a number of reasons. First, our results suggest that while the influence of US macro news in regards to the number of influential news is largely no different now, after the GFC, than it was before or during the GFC, the average influence of these news is noticeably stronger from the GFC period and onwards. Put differently, our results suggest that the influence of US news on the exchange rate is not subject to noticeable time-dependence in regards to the size or composition of the set of influential US news whereas it is subject to noticeable time-dependence in regards to the overall importance of the influential US news. Second, our results suggest that the influence of Japanese news appears to have weakened dramatically to the point that Japanese news now seem to be almost ignored by foreign exchange market participants.

The documented waning influence of non-US news may well be specific to Japan and rooted in the prolonged period characterized by a largely stalled Japanese economy and accommodating monetary policy stance. Moreover, after two decades of false starts but no real recovery, markets may no longer consider Japanese macro news as important indicators of the state of the Japanese economy and, as a result, markets may thus largely

ignore news originating from Japan, especially when the global economy is experiencing a sustained period of muted growth that makes positive changes to the Japanese status quo even more difficult to achieve. However, since our study encompasses only one set of non-US news (and one bilateral USD-rate) it is by construction beyond the scope of our present analysis to consider and compare the evolution of the influence of other non-US news to the waning influence of Japanese macro news. Rather, the GFC and post-GFC near-absence of a discernable influence of Japanese news invites further research to shed light on whether this is a Japan-specific phenomenon or if similar results emerge when considering the intraday exchange rate effects of other non-US macro news during the GFC and post-GFC periods. Similarly, the documented stronger overall importance of the influential US news since the GFC and onwards may be related to the coinciding lack of importance of Japanese news or it may be that markets in general react more strongly to US news during the GFC and post-GFC periods. This also invites further research, specifically in the form of assessing whether the influence of US news is associated with similar strengthening in other bilateral USD-rates.

#### 4.1 US ZIRP and Japanese QQE

As discussed earlier, our data sample encompasses a time-period where interest rates in the US are effectively zero, thereby facilitating an investigation of the influence of macro news on intraday exchange rates when economic circumstances in both countries considered are such that regardless of the country origin of news neither country is able to endogenously react to news in the form of traditional monetary policy moves. As a result, financial market expectations of policy reactions to news are likely particularly

limited during this period of both US and Japanese zero interest rates. Due to the likely absence of expectations of a policy response to news, the overall influence of macro news on exchange rates might be stronger during this particular period.

To investigate if this is indeed the case we consider separately the US ZIRP, 16 December 2008 to 15 December 2015. The results are reported in the fifth column of Table 3. The results show that in regards to the number of significant US and Japanese news, the US ZIRP is similar to the previously discussed GFC and post-GFC sub-periods. Moreover, the average magnitude of the significant coefficient estimates for US news during the US ZIRP is 0.0694. At roughly twice the size of the average estimated influence of significant US news during the pre-GFC period, the US ZIRP average is almost identical to that of the post-GFC period and, in fact, slightly less than that of the GFC period. Our US ZIRP results, therefore, do not indicate that news during this particular period exert a stronger or for that matter noticeably different influence on the JPY/USD rate compared to either the GFC period or the post-GFC period.<sup>19</sup>

We also consider separately the intraday exchange rate effects of macro news during the recent (and on-going) Japanese period of QQE. We do so since the Japanese QQE period of additional monetary easing may have modified financial market expectations to consider an increased possibility of non-traditional policy responses to news. As a result, the overall influence of macro news on exchange rates might be less pronounced during this particular period. We consider this possibility by investigating separately the subset of the post-GFC period that constitutes the Japanese QQE period, 5 April 2013 to 31 August 2016, and report the results in the sixth column of Table 3. Our

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<sup>19</sup> Due to the very considerable overlap of the post-GFC period and the US-ZIRP it is unsurprising that our findings across these two periods are very similar.

results lend some credence to the suggestion that, overall, the influence of macro news during the Japanese QQE period has weakened, at least with respect to US news. For the Japanese QQE period we find only 9 significant US news with an average estimated influence of 0.0516, i.e. the set of influential US news is smaller compared to the other sub-samples considered and the average of the significant coefficient estimates is less than that of any other sub-sample with the exception of the pre-GFC period. The near-absence of influential Japanese news remains unchanged.<sup>20</sup>

#### 4.2 Good versus Bad News

The results of estimating Equation (2) and our investigation of good versus bad news asymmetries are reported in Tables 4A through 4C. Table 4A (Table 4B) pertains to the estimations across only good (bad) news while Table 4C displays the coefficient estimates associated with the difference between good and bad news. Tables 4A and 4B show that the previously discussed main results in regards to the relative importance of US and Japanese news are generally robust to the separation of good from bad news. Pertinent to the issue of possible asymmetries, Table 4C indicates that significant asymmetric effects of good compared to bad news are mostly absent in our data. We find only three instances of asymmetric effects for the full sample period, five for the pre-GFC period, seven for the GFC period, one and two for the post-GFC period and US ZIRP, respectively, and none for the Japanese QQE period.

If we consider in more detail the sample with the highest number of significant asymmetric effects, the GFC period (column three), we find two US instances where

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<sup>20</sup> We interpret the Japanese QQE specific results with some caution due to the possibility of an unaccounted for structural break stemming from the 29 January 2016 introduction of negative Japanese interest rates.



good news matter more than bad news (business inventories and Target Federal Funds rate), one US instance where bad news matter more than good news (GDP second estimate), one Japanese instance where good news matter more than bad news (TANKAN large manufacturing), two Japanese instances where bad news matter more than good news (GDP preliminary and machinery orders), and one Japanese instance where negative news matter more than good news but the negative news is of the unexpected sign (capacity utilization). Clearly, the seven GFC-specific asymmetries do not point to a systematic pattern and thus do not support any conclusions in regards to whether either good or bad news are more influential. Similarly, we find no systematic pattern of asymmetries for any of the other samples considered. Furthermore, comparing the average estimated influence of significant good news to that of significant bad news, pairwise across each sample, does not generate further insights. Therefore, while our investigation of asymmetries confirms the robustness of our main findings we do not find evidence of systematically different effects of good versus bad news.<sup>21</sup>

## **5. Extensions and Robustness**

In this section we extend and check the robustness of our main results by considering lagged effects of news, by employing alternative model specifications in lieu of the baseline estimations, and by assessing the influence of news separately across US and Japanese macro news.

First, we re-estimate Equation (1) with  $K=1$  and, subsequently,  $K=2$ , i.e. we expand the baseline model to include the first and, subsequently, the first and the second

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<sup>21</sup> In light of the mostly sparse empirical evidence in support of bad versus good news asymmetries presented by Andersen et al. (2003), Fatum et al. (2012), and others, it is not surprising that we are unable to discern systematically different effects of good versus bad news.

lag of US and Japanese macro news. In doing so we assess whether macro news are associated with delayed intraday exchange rate effects while we at the same time check the robustness of our previously discussed contemporaneous intraday exchange rate effects of macro news based on  $K=0$ . Tables 5A and 5B report the contemporaneous and the first lag coefficient estimates from the  $K=1$  estimations, respectively. As the first of the tables shows, the inclusion of the first lag of news does not alter the estimated contemporaneous effects, i.e. whether  $K=0$ , as in the baseline models, or  $K=1$ , the findings with respect to contemporaneous effects of news are unchanged. Turning to Table 5B, the results suggest the presence of only few significant delayed (first lag) effects. A closer inspection of the significant estimates suggests that several of the delayed effects are consistent with a market adjustment of the contemporaneous effect to the extent that the contemporaneous and first lag effects are of opposite signs and, furthermore, the magnitude of the latter is smaller (in absolute terms) than the magnitude of the former. When we re-estimate Equation (1) with  $K=2$  we once again find the contemporaneous effects to be robust to the change in the news lag structure, we find the aforementioned first-lag effects of news to be similarly unaffected, and we find a few significant second lag effects.<sup>22</sup> Overall, the extension of the baseline model to allow for lagged effects of news confirm both the robustness of our results with respect to contemporaneous effects of news and, consistent with the findings of Andersen et al. (2003) and others, that the effects of news are typically immediate and short-lived.

Second, we check the robustness of our main results by re-estimating Equation (1) using the previously discussed 100-minute windows approach and by estimating the event study regressions described in Equation (3). Table 6 shows the results pertaining to

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<sup>22</sup> Results pertaining to the  $K=2$  estimations are not shown for brevity.

the estimations based on 100-minute windows and Table 7 shows the results of the event study regressions. As Table 6 shows, discarding the data points outside the 100-minute windows surrounding the news announcements does not influence our results except for a few very minor changes in regards to some of the coefficient estimate magnitudes. In fact, the results reported in Table 6 support the exact same conclusions as those of our baseline estimations. Turning to Table 7, the event study results show more variation in the sense that in addition to changes in coefficient magnitudes the number of influential US and Japanese news for some of the sub-samples change slightly. Nevertheless, the results are qualitatively unchanged and the previously discussed conclusions remain unaffected by the adoption of event study regressions.

Third and final, we re-assess the influence of news by estimating Equation (1) separately across Japanese and US news. The results, reported in Table 8, are very similar to the baseline results (reported in Table 3) and, therefore, further support the previously discussed conclusions. For completeness, we also re-estimate Equation (1) separately across Japanese and US news, using the 100-minute windows procedure and, once again, the results are unchanged.<sup>23</sup>

## **6. Conclusion**

In this paper we investigate the intraday influence of US and Japanese macro news on the JPY/USD exchange rate over the pre-GFC period, during the GFC period, and over the post-GFC period. To do so we consider the influence of 40 different types of macro news surprises (23 different types of US macro surprises and 17 different types of Japanese

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<sup>23</sup> Results pertaining to the estimation of Equation (1) separately across US and Japanese news using the 100-minute windows procedure are not shown for brevity.

macro surprises) on 5-minute indicative JPY/USD rate quotes separately over the pre-GFC (1 January 1999 to 31 July 2007), the GFC (1 August 2007 to 31 January 2009), and the post-GFC (1 February 2009 to 31 August 2016) periods.

Our results suggest that more than half of the number of US news considered is influential across the full sample as well as across each of the pre-GFC, the GFC, and the post-GFC periods, and that this number is markedly higher than the corresponding numbers of influential Japanese news. Interestingly, we find that even though the number and the composition of the set of influential US news are largely unchanged across the pre-GFC, the GFC, and the post-GFC periods, the average influence of US news is markedly increased during the two more recent periods to the point that the average influence of the significant US news during the post-GFC period has doubled relative to the pre-GFC period. Our results, therefore, are consistent with the suggestion that the effect of US macro news on the exchange rate is subject to noticeable time-dependence with respect to the relative importance of the influential US macro news and, specifically, that the overall importance of these US news has increased.

Our results pertaining to the Japanese news are very different from those of the US news. Most noticeably, we find that from the GFC period and onwards the influence of Japanese macro news has all but disappeared. This waning influence of Japanese news is a particularly interesting finding that invites further research to shed light on whether this is a Japan-specific phenomenon or if similar results emerge when considering the intraday exchange rate effects of other non-US macro news before, during, and after the GFC.

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Table 1. Summary statistics for five-minute JPY/USD returns

	Mean	Maximum	Minimum	Std. dev.	Skewness	Kurtosis
FULL	-0.000005	1.111	-3.074	0.031	-1.312	122.575
Pre-GFC	0.000005	0.700	-1.394	0.032	-0.213	34.310
GFC	-0.000174	0.686	-1.827	0.047	-0.884	48.345
Post-GFC	0.000018	1.111	-3.074	0.027	-3.585	374.804
US-ZIRP	0.000040	1.111	-1.835	0.028	-1.338	122.868
JP-QQE	0.000018	0.636	-3.074	0.018	-17.202	2586.581

Table 2. US and Japanese Macro Surprises

	Non-zero announcement surprises						Starting date	Announcement frequency	Announcement time
	FULL	Pre-GFC	GFC	Post-GFC	US-ZIRP	JP-QQE			
US macro news									
GDP advance	68	35	6	27	25	13	29/01/1999	Quarterly	8:30am
GDP second	60	31	3	26	24	12	26/02/1999	Quarterly	8:30am
GDP third	53	27	1	25	22	11	31/03/1999	Quarterly	8:30am
Nonfarm payrolls	211	102	18	91	84	41	08/01/1999	Monthly	8:30am
Retail sales	162	66	16	80	74	37	13/06/2001	Monthly	8:30am
Industrial production	189	91	15	83	75	37	15/01/1999	Monthly	9:15am
Capacity utilization	192	93	17	82	74	38	15/01/1999	Monthly	9:15am
Personal income	165	77	16	71	65	29	01/02/1999	Monthly	8:30am
Consumer credit	210	101	18	91	84	41	08/01/1999	Monthly	15:00pm
Consumer spending	58	16	5	36	33	14	30/06/2005	Monthly	8:30am
Personal spending	150	70	13	67	63	29	01/02/1999	Monthly	8:30am
New home sales	209	103	16	90	83	41	06/01/1999	Monthly	10:00am
Durable goods orders	205	101	17	87	80	39	28/01/1999	Monthly	8:30am
Factory orders	199	97	17	85	81	35	07/01/1999	Monthly	10:00am
Business inventories	171	82	14	75	70	30	15/01/1999	Monthly	8:30am
Trade balance	179	89	15	75	69	33	21/01/1999	Monthly	8:30am
Producer price index	188	91	17	80	75	34	13/01/1999	Monthly	8:30am
Consumer price index	139	71	14	54	50	23	14/01/1999	Monthly	8:30am
Consumer confidence index	211	102	18	90	83	40	26/01/1999	Monthly	10:00am
NAPM index	208	101	17	90	83	40	04/01/1999	Monthly	10:00am
Housing starts	208	101	18	89	82	41	20/01/1999	Monthly	8:30am
Index of leading indicators	150	63	11	76	70	36	02/02/1999	Monthly	10:00am
Target federal funds rate	6	3	2	1	2	0	03/02/1999	Irregular	Irregular
Japanese macro news									
GDP preliminary	44	10	5	29	26	14	15/02/2005	Quarterly	8:50am
GDP final	36	7	6	23	22	10	07/12/2004	Quarterly	8:50am
Industrial production	162	59	17	86	81	36	28/03/2002	Monthly	8:50am
Capacity utilization	11	9	2	0	0	0	14/03/2002	Monthly	13:30pm
Dept. and super mkt sales val	186	82	18	86	79	40	23/02/2000	Monthly	8:50am
Overall spending	122	16	17	89	82	41	27/04/2006	Monthly	8:30am
Machinery orders	155	46	18	91	84	41	07/04/2002	Monthly	8:50am
Construction orders	38	30	6	1	1	0	29/02/2000	Monthly	14:00pm
Trade balance	199	90	18	91	84	41	22/02/2000	Monthly	8:50am
Current account	185	76	18	91	84	41	10/04/2001	Monthly	8:50am
Retail trade	157	52	18	87	80	40	27/04/2003	Monthly	8:50am
Consumer price index	98	44	9	45	43	21	27/09/2001	Monthly	8:30am
Producer price index	150	60	17	73	67	33	09/02/2000	Monthly	8:50am
Leading economic index	87	16	5	66	61	29	18/10/2001	Monthly	14:00pm
Consumer confidence index	55	0	0	55	48	38	19/04/2011	Monthly	14:00pm
TANKAN large manufacturing	55	26	6	23	22	11	04/04/1999	Quarterly	8:50am
TANKAN large non-manufactu	37	16	3	18	17	9	31/03/2002	Quarterly	8:50am



Table 3. Regression results (J=3, K=0)

start	FULL		Pre-GFC		GFC		Post-GFC		US-ZIRP		Japan-QQE	
	01-Jan-99	31-Aug-16	01-Jan-99	31-Jul-07	01-Aug-07	31-Jan-09	01-Feb-09	31-Aug-16	16-Dec-08	15-Dec-15	05-Apr-13	31-Aug-16
number of observations	1,858,366		902,254	158,409	797,699	736,125	358,509					
GDP advance	0.0860 ***	0.014	0.0783 ***	0.015	0.0872 **	0.035	0.1001 ***	0.034	0.1045 ***	0.030	0.0890 **	0.044
GDP second	0.0466 ***	0.009	0.0349 ***	0.013	0.0442	0.030	0.0530 ***	0.014	0.0585 ***	0.014	0.0241 **	0.011
GDP third	0.0260 **	0.011	0.0050 ***	0.011	-0.0181 ***	0.001	0.0385 **	0.017	0.0402 **	0.018	0.0293	0.020
Nonfarm payrolls	0.1511 ***	0.021	0.0921 ***	0.021	0.2883 **	0.144	0.2696 ***	0.037	0.2962 ***	0.041	0.1167 ***	0.030
Retail sales	0.0545 ***	0.013	0.0322 ***	0.007	0.1158 ***	0.040	0.0892 ***	0.023	0.0893 ***	0.021	0.0729 ***	0.027
Industrial production	0.0114 ***	0.004	0.0234 ***	0.007	-0.0080	0.014	0.0131	0.008	0.0127	0.009	-0.0012	0.014
Capacity utilization	0.0038	0.005	-0.0017	0.007	-0.0080	0.014	0.0131	0.008	0.0127	0.009	0.0181	0.014
Personal income	0.0034	0.004	-0.0039	0.006	-0.0039	0.008	0.0057	0.006	0.0059	0.006	0.0411 **	0.021
Consumer credit	0.0023	0.003	-0.0003	0.003	0.0103	0.017	0.0031	0.003	0.0015	0.004	0.0006	0.002
Consumer spending	0.0123 **	0.005	0.0144 ***	0.005	0.0311 ***	0.009	0.0065	0.009	0.0067	0.009	-0.0071	0.018
Personal spending	0.0050	0.003	0.0045	0.004	-0.0098	0.020	0.0101 **	0.005	0.0107 **	0.005	0.0042	0.007
New home sales	0.0302 ***	0.007	0.0206 ***	0.007	0.1459 ***	0.046	0.0535 ***	0.017	0.0594 ***	0.019	0.0151 **	0.006
Durable goods orders	0.0307 ***	0.008	0.0279 ***	0.008	0.1421 ***	0.036	0.0194	0.014	0.0202	0.015	0.0185	0.019
Factory orders	0.0181 ***	0.006	0.0148 ***	0.006	0.0176	0.014	0.0228 *	0.013	0.0252 **	0.011	0.0417 ***	0.013
Business inventories	0.0019	0.004	-0.0035	0.005	0.0094	0.014	0.0075	0.006	0.0085	0.006	0.0060	0.009
Trade balance	0.0489 ***	0.010	0.1017 ***	0.021	0.0535 ***	0.018	0.0216 ***	0.008	0.0193 ***	0.007	0.0153 **	0.007
Producer price index	0.0122 *	0.007	0.0075	0.008	0.0150	0.014	0.0124	0.008	0.0137	0.007	0.0861	0.057
Consumer price index	0.0013	0.007	0.0053	0.011	-0.0316 **	0.016	0.0162	0.009	0.0137	0.008	0.0168	0.012
Consumer confidence index	0.0454 ***	0.007	0.0498 ***	0.009	0.0853 ***	0.025	0.0322 ***	0.010	0.0330 ***	0.010	0.0109	0.008
NAPIM index	0.0658 ***	0.008	0.0356 ***	0.007	0.1359 ***	0.032	0.0954 ***	0.014	0.1017 ***	0.015	0.0487 ***	0.015
Housing starts	0.0209 ***	0.005	0.0121 **	0.005	0.0676	0.042	0.0375 ***	0.011	0.0422 ***	0.011	0.0161	0.011
Index of leading indicators	0.0188 ***	0.005	0.0154 ***	0.005	0.0246 ***	0.007	0.0189 **	0.008	0.0217 ***	0.008	0.0069	0.007
Target federal funds rate	0.0123	0.015	-0.0139 ***	0.000	0.0061 ***	0.002	0.1802 ***	0.000	0.0413	0.037		
Japanese macro news												
GDP preliminary	-0.0201	0.015	-0.135 ***	0.047	-0.0151	0.042	0.0152	0.013	0.0138	0.014	0.0308	0.022
GDP final	-0.0107 *	0.006	-0.018 ***	0.007	-0.0136	0.009	-0.0064	0.009	-0.0063	0.009	0.0053	0.006
Industrial production	-0.0157 ***	0.005	-0.043 ***	0.011	-0.0252	0.017	-0.0023	0.003	-0.0023	0.003	-0.0032	0.005
Capacity utilization	-0.0017	0.004	-0.003	0.005	0.0037	0.003	-0.0060	0.004	-0.0072 *	0.004	-0.0019	0.003
Dept. and super mkt sales	-0.0021	0.003	0.001	0.004	-0.0098	0.019	-0.0011	0.003	-0.0016	0.003	0.0011	0.002
Overall spending	-0.0041	0.003	-0.025 **	0.011	-0.0064	0.010	-0.0036	0.003	-0.0046 *	0.003	-0.0034	0.005
Machinery orders	-0.0029	0.002	0.005	0.004	-0.0189 ***	0.007	-0.0036 ***	0.000	0.0036 ***	0.000		
Construction orders	-0.0001	0.001	0.000	0.001	-0.0059	0.004	0.0036 ***	0.000	0.0036 ***	0.000	-0.0073 **	0.004
Trade balance	-0.0094 ***	0.003	-0.004	0.004	0.0030	0.006	-0.0169 ***	0.004	-0.0085 *	0.004	-0.0034 *	0.002
Current account	-0.0096 ***	0.003	-0.012 ***	0.005	-0.0108	0.023	-0.0079 *	0.004	-0.0025	0.003	-0.0025	0.003
Retail trade	-0.0072 *	0.004	-0.018 **	0.011	0.0102	0.016	-0.0021	0.003	-0.0025	0.003	-0.0025	0.003
Consumer price index	-0.0051	0.003	-0.013 ***	0.005	-0.0097	0.011	0.0059	0.005	0.0049	0.005	0.0054	0.004
Producer price index	-0.0053	0.004	-0.009	0.006	-0.0011	0.004	-0.0052	0.005	-0.0053	0.006	-0.0129	0.012
Leading economic index	0.0006	0.001	0.000	0.001	-0.0354	0.071	0.0012	0.001	0.0013 *	0.001	0.0010 ***	0.000
Consumer confidence index	0.0002	0.002	-0.029	0.033	0.0289	0.039	0.0000	0.002	0.0000	0.002	0.0009	0.002
TANKAN large manufacturing	-0.0183	0.020	-0.047 ***	0.012	-0.0244 ***	0.008	-0.0003	0.009	-0.0015	0.010	0.0053	0.005
TANKAN large non-manufactu	-0.0231	0.017	-0.029 ***	0.012	0.0244 ***	0.008	-0.0159	0.023	-0.0161	0.023	0.0141	0.014
R-squared	0.0057		0.0045		0.0073		0.0178		0.0166		0.0540	
adj. R-squared	0.0056		0.0044		0.0070		0.0178		0.0166		0.0539	

Notes: 1. Heteroskedasticity and autocorrelation consistent standard error proposed by Newey-West (1987) is used.  
2. \*\*\*, \*\*, \* and \* indicate significance at the 1%, 5%, and 10% levels, respectively.

Table 4A. Regression results - positive surprises

	FULL		Pre-GFC		GFC		Post-GFC		US-ZIRP		Japan-QQE	
	coefficient	s.e	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.
US macro news												
GDP advance	0.0687 ***	0.021	0.0315 **	0.016	0.0535 ***	0.014	0.2028 ***	0.072	0.1421 ***	0.054	0.1842 **	0.086
GDP second	0.0351 ***	0.011	0.0288 **	0.014	0.0212 ***	0.000	0.0423 **	0.019	0.0518 **	0.022	0.0266 **	0.011
GDP third	0.0278 **	0.011	0.0149	0.013			0.0349 **	0.015	0.0405 ***	0.017	0.0441 *	0.024
Nonfarm payrolls	0.1751 ***	0.028	0.0942 ***	0.030	0.5092 ***	0.102	0.2629 ***	0.040	0.2925 ***	0.046	0.1441 ***	0.044
Retail sales	0.0480 ***	0.016	0.0322 ***	0.008	0.2113 ***	0.041	0.0914 **	0.044	0.0975 **	0.049	0.1240 *	0.067
Industrial production	0.0169 ***	0.006	0.0324 **	0.013	0.0104	0.009	0.0027	0.010	0.0035	0.010	0.0077	0.006
Capacity utilization	0.0005	0.008	-0.0065	0.013	-0.0167	0.034	0.0111	0.012	0.0121	0.012	0.0003	0.005
Personal income	0.0038	0.005	-0.0044	0.007	0.0073	0.011	0.0057	0.009	0.0052	0.009	0.0351	0.022
Consumer credit	0.0005	0.003	0.0002	0.004	-0.0002	0.003	0.0009	0.004	0.0008	0.005	0.0000	0.003
Consumer spending	0.0086	0.014	0.0154	0.011	0.0418 **	0.021	0.0024	0.023	0.0042	0.025	-0.0515	0.049
Personal spending	0.0063	0.005	0.0063	0.006	-0.0150	0.030	0.0106	0.008	0.0119	0.009	0.0052	0.013
New home sales	0.0211 ***	0.007	0.0137 *	0.008	0.1922	0.128	0.0494 ***	0.018	0.0661 ***	0.023	0.0087	0.006
Durable goods orders	0.0179 *	0.010	0.0157	0.011	0.1850 ***	0.049	-0.0011	0.006	-0.0019	0.007	-0.0010	0.004
Factory orders	0.0266 **	0.009	0.0285 ***	0.007	0.0391 *	0.023	0.0188	0.021	0.0193	0.021	0.0489 *	0.029
Business inventories	-0.0017	0.005	-0.0090	0.007	0.0299 ***	0.006	0.0010	0.003	0.0011	0.004	-0.0002	0.004
Trade balance	0.0369 ***	0.010	0.0695 ***	0.020	0.0542 ***	0.016	0.0208	0.013	0.0188 *	0.010	0.0190 *	0.011
Producer price index	0.0019	0.008	-0.0025	0.011	-0.0065	0.020	-0.0043	0.018	-0.0030	0.018	0.1748 **	0.084
Consumer price index	-0.0084	0.009	-0.0165	0.016	-0.0149	0.013	0.0163	0.013	0.0107	0.015	0.0264	0.019
Consumer confidence index	0.0425 ***	0.008	0.0541 ***	0.012	0.0968 ***	0.018	0.0266 **	0.011	0.0270 ***	0.011	0.0152	0.014
NAPM index	0.0645 ***	0.011	0.0332 ***	0.009	0.1734 **	0.086	0.1039 ***	0.019	0.1081 ***	0.020	0.0404 ***	0.014
Housing starts	0.0224 ***	0.007	0.0131	0.008	0.1403 ***	0.021	0.0424 ***	0.013	0.0463 ***	0.014	0.0093	0.007
Index of leading indicators	0.0193 ***	0.005	0.0156 ***	0.006	0.0409 ***	0.005	0.0174 **	0.008	0.0201 ***	0.008	0.0085	0.006
Target federal funds rate	0.1785 ***	0.000					0.1802 ***	0.000	0.1798 ***	0.000		
Japanese macro news												
GDP preliminary	-0.0468 **	0.021	-0.134 **	0.058	0.0038	0.030	0.0012	0.005	0.0010	0.006	0.0023	0.004
GDP final	-0.0159 *	0.009	-0.020 ***	0.005	-0.0132	0.013	-0.0137	0.016	-0.0135	0.016	-0.0063 *	0.003
Industrial production	-0.0208 *	0.011	-0.063 **	0.026	-0.0476	0.049	-0.0037	0.005	-0.0016	0.005	0.0042	0.008
Capacity utilization	-0.0024 **	0.001	-0.003 *	0.002	-0.0012 ***	0.000						
Dept. and super mkt sales valu	0.0017	0.005	0.005	0.005	0.0251	0.020	-0.0014	0.007	-0.0020	0.007	0.0025	0.005
Overall spending	-0.0010	0.005	0.008	0.030	0.0087	0.010	-0.0035	0.005	-0.0029	0.005	-0.0038	0.003
Machinery orders	-0.0054 **	0.003	-0.004	0.004	-0.0053	0.007	-0.0048	0.005	-0.0067	0.005	-0.0060	0.009
Construction orders	-0.0004	0.002	0.001	0.002	-0.0075	0.007	0.0036 ***	0.000	0.0036 ***	0.000		
Trade balance	-0.0091 **	0.004	-0.002	0.005	0.0039	0.004	-0.0161 **	0.007	-0.0168 **	0.007	-0.0022	0.003
Current account	-0.0077 **	0.003	-0.013 **	0.006	-0.0256	0.033	-0.0037	0.003	-0.0041	0.004	0.0000	0.002
Retail trade	-0.0054	0.006	-0.014	0.015	0.0146	0.020	-0.0045	0.004	-0.0046	0.004	-0.0084 *	0.005
Consumer price index	-0.0047	0.004	-0.011 *	0.006	-0.0138	0.014	0.0035	0.004	0.0026	0.005	0.0067	0.005
Producer price index	-0.0093 *	0.006	-0.005	0.006	-0.0027	0.003	-0.0161	0.014	-0.0143	0.014	-0.0485	0.043
Leading economic index	-0.0001	0.001	-0.001	0.002	-0.8900	0.577	0.0009 *	0.000	0.0010 *	0.001	0.0009 ***	0.000
Consumer confidence index	-0.0014	0.002					-0.0013	0.002	-0.0013	0.002	0.0013	0.001
TANKAN large manufacturing	0.0040	0.023					-0.0013	0.009	-0.0004	0.009	0.0078 **	0.004
TANKAN large non-manufacturi	-0.0360 **	0.017	-0.068 ***	0.011	-0.1921 ***	0.006	0.0096	0.015	0.0077	0.015	0.0162	0.019
R-squared	0.0060		0.005		0.0084		0.0183		0.0169		0.0559	
adj R-squared	0.0059		0.005		0.0079		0.0182		0.0168		0.0557	

Note: Same as Table 3.

Table 4B. Regression results - negative surprises

	FULL		Pre-GFC		GFC		Post-GFC		US-ZRP		Japan-QQE	
	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.
US macro news												
GDP advance	0.1017 ***	0.020	0.1237 ***	0.027	0.3189	0.209	0.0542 ***	0.019	0.0657 ***	0.024	0.0330 *	0.018
GDP second	0.0632 ***	0.015	0.0509 ***	0.016	0.2098 ***	0.063	0.0632 ***	0.019	0.0635 ***	0.019	0.0111	0.022
GDP third	0.0239	0.018	-0.0051	0.017	-0.0182 ***	0.001	0.0388	0.028	0.0377	0.028	0.0252	0.032
Nonfarm payrolls	0.1404 ***	0.027	0.0914 ***	0.026	0.2567 *	0.151	0.2756 ***	0.061	0.2992 ***	0.064	0.0900 **	0.038
Retail sales	0.0658 ***	0.014	0.0330 **	0.015	0.0949 **	0.044	0.0836 ***	0.023	0.0807 ***	0.018	0.0630 **	0.030
Industrial production	0.0069	0.007	0.0162	0.011	0.0073	0.049	0.0056	0.008	0.0028	0.009	-0.0016	0.016
Capacity utilization	0.0073	0.008	0.0022	0.009	-0.0036	0.057	0.0149	0.012	0.0131	0.013	0.0252	0.020
Personal income	0.0035	0.008	-0.0028	0.018	0.0330	0.026	0.0064	0.006	0.0078	0.007	0.0367	0.023
Consumer credit	0.0045	0.005	-0.0010	0.005	0.0210	0.032	0.0059	0.006	0.0022	0.007	0.0022	0.004
Consumer spending	0.0145 ***	0.005	0.0135 **	0.006	0.0099	0.027	0.0082	0.008	0.0077	0.009	0.0106	0.008
Personal spending	0.0036	0.005	0.0033	0.006	0.0073	0.026	0.0084	0.008	0.0084	0.008	0.0023	0.007
New home sales	0.0442 ***	0.012	0.0324 **	0.013	0.1370 ***	0.051	0.0583 *	0.030	0.0552 *	0.029	0.0216 **	0.011
Durable goods orders	0.0463 ***	0.011	0.0421 ***	0.009	0.0905 **	0.037	0.0450	0.026	0.0509 *	0.030	0.0660 *	0.040
Factory orders	0.0096	0.007	0.0009	0.007	0.0046	0.018	0.0280 **	0.012	0.0305 ***	0.008	0.0387 ***	0.014
Business inventories	0.0068	0.006	0.0033	0.008	-0.0182	0.020	0.0146	0.010	0.0121	0.011	0.0203	0.025
Trade balance	0.0622 ***	0.018	0.1280 ***	0.031	0.0544	0.060	0.0230 ***	0.009	0.0204 **	0.008	0.0111	0.007
Producer price index	0.0271 **	0.011	0.0215 *	0.012	0.0236	0.034	0.0367	0.031	0.0379	0.030	0.0253	0.020
Consumer price index	0.0101	0.011	0.0235 *	0.013	-0.0485	0.041	0.0164	0.013	0.0161	0.010	0.0137	0.014
Consumer confidence inde	0.0489 ***	0.012	0.0452 ***	0.012	0.0830 ***	0.030	0.0387 **	0.017	0.0388 **	0.017	0.0065	0.004
NAPM index	0.0675 ***	0.011	0.0393 ***	0.012	0.1244 ***	0.031	0.0824 ***	0.021	0.0931 ***	0.022	0.0572	0.026
Housing starts	0.0202 ***	0.007	0.0158 **	0.007	0.0393	0.058	0.0325 **	0.016	0.0383 **	0.017	0.0210	0.017
Index of leading indicators	0.0178 **	0.009	0.0152	0.010	0.0099	0.012	0.0226	0.018	0.0265	0.020	0.0038	0.015
Target federal funds rate	-0.0005	0.006	-0.0139 ***	0.000	0.0061 ***	0.002			0.0093 ***	0.000		
Japanese macro news												
GDP preliminary	0.0059	0.019	-0.140 ***	0.013	-0.3198 ***	0.113	0.0221	0.020	0.0198	0.020	0.0377	0.027
GDP final	-0.0056	0.007	-0.017	0.014	-0.0066	0.010	0.0007	0.008	0.0006	0.008	0.0220 ***	0.004
Industrial production	-0.0134 ***	0.005	-0.037 ***	0.012	-0.0117	0.014	-0.0017	0.004	-0.0022	0.004	-0.0066	0.006
Capacity utilization	-0.0007	0.008	-0.002	0.010	0.0074 ***	0.000						
Dept. and super sales valu	-0.0039	0.004	-0.001	0.005	-0.0480	0.055	-0.0098 *	0.005	-0.0111 **	0.005	-0.0059	0.006
Overall spending	-0.0067 *	0.004	-0.033 ***	0.013	-0.0296	0.019			-0.0002	0.003	0.0042 *	0.002
Machinery orders	0.0006	0.004	0.014 **	0.007	-0.0409 ***	0.009	0.0007	0.003	0.0003	0.004	-0.0007	0.006
Construction orders	0.0003	0.001	0.000	0.002	0.0023 ***	0.001	0.0010	0.004				
Trade balance	-0.0097 ***	0.004	-0.005	0.005	0.0024	0.009	-0.0176 ***	0.006	-0.0171 ***	0.006	-0.0163 **	0.007
Current account	-0.0127 *	0.007	-0.011	0.008	0.0213	0.020	-0.0136	0.009	-0.0148	0.010	-0.0073	0.004
Retail trade	-0.0091	0.006	-0.025	0.017	0.0060	0.042	0.0010	0.005	0.0000	0.006	0.0017	0.005
Consumer price index	-0.0060	0.006	-0.015 *	0.008	-0.0015	0.013	0.0141	0.016	0.0122	0.016	0.0043	0.006
Producer price index	-0.0005	0.004	-0.017	0.014	0.0098	0.010	0.0008	0.003	0.0006	0.003	-0.0010	0.002
Leading economic index	0.0052 ***	0.002	0.005 **	0.002	0.0307 **	0.014	0.0059	0.004	0.0091	0.007	0.0034	0.003
Consumer confidence inde	0.0008	0.002					0.0005	0.002	0.0004	0.002	0.0007	0.002
TANKAN large manufacturi	-0.0626 ***	0.021	-0.085 ***	0.028	-0.0120	0.029	-0.0048	0.027	0.0004	0.002	-0.0025	0.008
TANKAN non-manufacturin	0.0009	0.026	0.013	0.045	0.0181 **	0.009	-0.0705 *	0.043	-0.0687 *	0.039	0.0069 *	0.004

Note: Same as Table 3.

Table 4C. Differences between positive and negative news effects

	FULL		Pre-GFC		GFC		Post-GFC		US-ZIRP		Japan-QQE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
US macro news													GDP advance	-0.0330	0.029	-0.0922 ***	-2.973	-0.2654	0.209	0.1486 **	0.075	0.0764	0.059	0.1512 *	0.088	GDP second	-0.0280	0.019	-0.0221	-1.018	-0.0209	0.063	-0.0209	0.027	-0.0117	0.029	0.0155	0.025	GDP third	0.0039	0.021	0.0200	0.932			-0.0039	0.032	0.0028	0.033	0.0189	0.041	Nonfarm payrolls	0.0347	0.039	0.0028	0.070	0.2525	0.182	-0.0127	0.073	-0.0067	0.079	0.0541	0.058	Retail sales	-0.0178	0.022	-0.0007	-0.042	0.1164 *	0.061	0.0078	0.050	0.0168	0.052	0.0610	0.073	Industrial production	0.0100	0.010	0.0162	0.835	0.0031	0.056	-0.0029	0.013	0.0008	0.014	0.0093	0.017	Capacity utilization	-0.0068	0.012	-0.0087	-0.486	-0.0131	0.073	-0.0038	0.017	-0.0009	0.018	-0.0248	0.021	Personal income	0.0004	0.009	-0.0016	-0.077	-0.0257	0.025	-0.0007	0.012	-0.0026	0.012	-0.0015	0.034	Consumer credit	-0.0041	0.005	0.0011	0.181	-0.0213	0.032	-0.0051	0.007	-0.0013	0.008	-0.0022	0.005	Consumer spending	-0.0059	0.015	0.0019	0.141	0.0319	0.044	-0.0058	0.025	-0.0036	0.027	-0.0620	0.049	Personal spending	0.0027	0.008	0.0030	0.318	-0.0222	0.043	0.0021	0.012	0.0035	0.013	0.0030	0.017	New home sales	-0.0231	0.014	-0.0187	-1.246	0.0552	0.137	-0.0089	0.035	0.0109	0.037	-0.0128	0.012	Durable goods orders	-0.0284 *	0.015	-0.0264 *	-1.842	0.0945	0.061	-0.0460 *	0.027	-0.0527 *	0.030	-0.0670 *	0.040	Factory orders	0.0170	0.012	0.0276 ***	2.767	0.0344	0.030	-0.0092	0.024	-0.0111	0.023	0.0101	0.032	Business inventories	-0.0085	0.008	-0.0123	-1.118	0.0480 **	0.021	-0.0137	0.011	-0.0111	0.011	-0.0205	0.025	Trade balance	-0.0254	0.020	-0.0586	-1.575	-0.0002	0.062	-0.0022	0.015	-0.0016	0.013	0.0079	0.013	Producer price index	-0.0253 *	0.014	-0.0240	-1.438	-0.0301	0.039	-0.0410	0.036	-0.0409	0.036	0.1495 *	0.087	Consumer price index	-0.0185	0.014	-0.0400 *	-1.949	0.0336	0.043	-0.0002	0.018	-0.0054	0.018	0.0127	0.023	Consumer confidence index	-0.0064	0.015	0.0089	0.511	0.0139	0.035	-0.0122	0.021	-0.0118	0.021	0.0087	0.014	NAPM index	-0.0030	0.016	-0.0060	-0.401	0.0489	0.091	0.0214	0.028	0.0150	0.029	-0.0168	0.030	Housing starts	0.0022	0.011	-0.0027	-0.250	0.1010	0.062	0.0099	0.021	0.0070	0.022	-0.0118	0.017	Index of leading indicators	0.0015	0.010	0.0004	0.034	0.0310 **	0.013	-0.0052	0.020	-0.0064	0.022	0.0047	0.016	Target federal funds rate	0.1790 ***	0.006	-0.0139	0.000					0.1705 ***	0.000			Japanese macro news													GDP preliminary	0.0059 *	0.028	0.005	0.091	0.3236 ***	0.117	-0.0209	0.020	-0.0187	0.021	-0.0354	0.027	GDP final	-0.0056	0.012	-0.020 ***	-4.261	-0.0067	0.017	-0.0144	0.018	-0.0141	0.019	-0.0283	0.006	Industrial production	-0.0134	0.013	-0.026	-0.926	-0.0359	0.053	-0.0020	0.006	0.0007	0.006	0.0108	0.011	Capacity utilization	-0.0007	0.008	-0.001	-0.060	-0.0086 ***	0.000							Dept. and super mkt sales valu	-0.0039	0.006	0.006	0.706	0.0731	0.063	0.0084	0.009	0.0091	0.009	0.0084	0.008	Overall spending	-0.0067	0.006	0.041	1.274	0.0382 *	0.022	-0.0042	0.006	-0.0027	0.006	-0.0080	0.004	Machinery orders	0.0006	0.005	-0.017 **	-2.206	0.0356 ***	0.011	-0.0057	0.007	-0.0070	0.007	-0.0053	0.011	Construction orders	0.0003	0.002	0.001	0.316	-0.0098	0.007	-0.0057	0.007	0.0036 ***	0.000			Trade balance	-0.0097	0.005	0.002	0.349	0.0014	0.010	0.0015	0.009	0.0003	0.009	0.0141	0.008	Current account	-0.0127	0.008	-0.002	-0.204	-0.0469	0.039	0.0099	0.010	0.0107	0.011	0.0073	0.005	Retail trade	-0.0091	0.009	0.011	0.486	0.0086	0.052	-0.0055	0.006	-0.0046	0.007	-0.0102	0.007	Consumer price index	-0.0060	0.007	0.004	0.395	-0.0123	0.019	-0.0105	0.017	-0.0096	0.017	0.0024	0.009	Producer price index	-0.0005	0.007	0.013	0.825	-0.0125	0.010	-0.0170	0.015	-0.0149	0.015	-0.0475	0.043	Leading economic index	0.0052 ***	0.002	-0.006 **	-2.344	-0.9207	0.578	-0.0050	0.004	-0.0081	0.007	-0.0024	0.003	Consumer confidence index	0.0008	0.003					-0.0018	0.003	-0.0017	0.003	0.0006	0.002	TANKAN large manufacturing	-0.0626 **	0.032	0.085 *	1.703	-0.1801 ***	0.030	0.0035	0.029	0.0264	0.033	0.0103	0.008	TANKAN large non-manufacturing	0.0009	0.034	-0.071	-1.367	0.0802 *	0.047	0.0765 *	0.043	0.0765 *	0.043	0.0093	0.020
GDP advance	-0.0330	0.029	-0.0922 ***	-2.973	-0.2654	0.209	0.1486 **	0.075	0.0764	0.059	0.1512 *	0.088																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
GDP second	-0.0280	0.019	-0.0221	-1.018	-0.0209	0.063	-0.0209	0.027	-0.0117	0.029	0.0155	0.025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
GDP third	0.0039	0.021	0.0200	0.932			-0.0039	0.032	0.0028	0.033	0.0189	0.041																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Nonfarm payrolls	0.0347	0.039	0.0028	0.070	0.2525	0.182	-0.0127	0.073	-0.0067	0.079	0.0541	0.058																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Retail sales	-0.0178	0.022	-0.0007	-0.042	0.1164 *	0.061	0.0078	0.050	0.0168	0.052	0.0610	0.073																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Industrial production	0.0100	0.010	0.0162	0.835	0.0031	0.056	-0.0029	0.013	0.0008	0.014	0.0093	0.017																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Capacity utilization	-0.0068	0.012	-0.0087	-0.486	-0.0131	0.073	-0.0038	0.017	-0.0009	0.018	-0.0248	0.021																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Personal income	0.0004	0.009	-0.0016	-0.077	-0.0257	0.025	-0.0007	0.012	-0.0026	0.012	-0.0015	0.034																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Consumer credit	-0.0041	0.005	0.0011	0.181	-0.0213	0.032	-0.0051	0.007	-0.0013	0.008	-0.0022	0.005																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Consumer spending	-0.0059	0.015	0.0019	0.141	0.0319	0.044	-0.0058	0.025	-0.0036	0.027	-0.0620	0.049																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Personal spending	0.0027	0.008	0.0030	0.318	-0.0222	0.043	0.0021	0.012	0.0035	0.013	0.0030	0.017																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
New home sales	-0.0231	0.014	-0.0187	-1.246	0.0552	0.137	-0.0089	0.035	0.0109	0.037	-0.0128	0.012																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Durable goods orders	-0.0284 *	0.015	-0.0264 *	-1.842	0.0945	0.061	-0.0460 *	0.027	-0.0527 *	0.030	-0.0670 *	0.040																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Factory orders	0.0170	0.012	0.0276 ***	2.767	0.0344	0.030	-0.0092	0.024	-0.0111	0.023	0.0101	0.032																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Business inventories	-0.0085	0.008	-0.0123	-1.118	0.0480 **	0.021	-0.0137	0.011	-0.0111	0.011	-0.0205	0.025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Trade balance	-0.0254	0.020	-0.0586	-1.575	-0.0002	0.062	-0.0022	0.015	-0.0016	0.013	0.0079	0.013																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Producer price index	-0.0253 *	0.014	-0.0240	-1.438	-0.0301	0.039	-0.0410	0.036	-0.0409	0.036	0.1495 *	0.087																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Consumer price index	-0.0185	0.014	-0.0400 *	-1.949	0.0336	0.043	-0.0002	0.018	-0.0054	0.018	0.0127	0.023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Consumer confidence index	-0.0064	0.015	0.0089	0.511	0.0139	0.035	-0.0122	0.021	-0.0118	0.021	0.0087	0.014																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NAPM index	-0.0030	0.016	-0.0060	-0.401	0.0489	0.091	0.0214	0.028	0.0150	0.029	-0.0168	0.030																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Housing starts	0.0022	0.011	-0.0027	-0.250	0.1010	0.062	0.0099	0.021	0.0070	0.022	-0.0118	0.017																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Index of leading indicators	0.0015	0.010	0.0004	0.034	0.0310 **	0.013	-0.0052	0.020	-0.0064	0.022	0.0047	0.016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Target federal funds rate	0.1790 ***	0.006	-0.0139	0.000					0.1705 ***	0.000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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GDP preliminary	0.0059 *	0.028	0.005	0.091	0.3236 ***	0.117	-0.0209	0.020	-0.0187	0.021	-0.0354	0.027																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
GDP final	-0.0056	0.012	-0.020 ***	-4.261	-0.0067	0.017	-0.0144	0.018	-0.0141	0.019	-0.0283	0.006																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Industrial production	-0.0134	0.013	-0.026	-0.926	-0.0359	0.053	-0.0020	0.006	0.0007	0.006	0.0108	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Capacity utilization	-0.0007	0.008	-0.001	-0.060	-0.0086 ***	0.000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Dept. and super mkt sales valu	-0.0039	0.006	0.006	0.706	0.0731	0.063	0.0084	0.009	0.0091	0.009	0.0084	0.008																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Overall spending	-0.0067	0.006	0.041	1.274	0.0382 *	0.022	-0.0042	0.006	-0.0027	0.006	-0.0080	0.004																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Machinery orders	0.0006	0.005	-0.017 **	-2.206	0.0356 ***	0.011	-0.0057	0.007	-0.0070	0.007	-0.0053	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Construction orders	0.0003	0.002	0.001	0.316	-0.0098	0.007	-0.0057	0.007	0.0036 ***	0.000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Trade balance	-0.0097	0.005	0.002	0.349	0.0014	0.010	0.0015	0.009	0.0003	0.009	0.0141	0.008																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Current account	-0.0127	0.008	-0.002	-0.204	-0.0469	0.039	0.0099	0.010	0.0107	0.011	0.0073	0.005																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Retail trade	-0.0091	0.009	0.011	0.486	0.0086	0.052	-0.0055	0.006	-0.0046	0.007	-0.0102	0.007																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Consumer price index	-0.0060	0.007	0.004	0.395	-0.0123	0.019	-0.0105	0.017	-0.0096	0.017	0.0024	0.009																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Producer price index	-0.0005	0.007	0.013	0.825	-0.0125	0.010	-0.0170	0.015	-0.0149	0.015	-0.0475	0.043																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Leading economic index	0.0052 ***	0.002	-0.006 **	-2.344	-0.9207	0.578	-0.0050	0.004	-0.0081	0.007	-0.0024	0.003																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Consumer confidence index	0.0008	0.003					-0.0018	0.003	-0.0017	0.003	0.0006	0.002																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
TANKAN large manufacturing	-0.0626 **	0.032	0.085 *	1.703	-0.1801 ***	0.030	0.0035	0.029	0.0264	0.033	0.0103	0.008																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
TANKAN large non-manufacturing	0.0009	0.034	-0.071	-1.367	0.0802 *	0.047	0.0765 *	0.043	0.0765 *	0.043	0.0093	0.020																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

Note: Same as Table 3.

Table 5A. K=1 : Contemporaneous coefficients

	FULL		Pre-GFC		GFC		Post-GFC		US-ZIRP		Japan-QQE	
	coefficient	s.e	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.
US macro news												
GDP advance	0.0860 ***	0.014	0.0783 ***	0.015	0.0871 **	0.035	0.1001 ***	0.034	0.1045 ***	0.030	0.0890 **	0.044
GDP second	0.0466 ***	0.009	0.0349 ***	0.013	0.0442	0.030	0.0530 ***	0.014	0.0585 ***	0.014	0.0241 **	0.011
GDP third	0.0260 ***	0.011	0.0050	0.011	-0.0181 ***	0.001	0.0386 **	0.017	0.0402 ***	0.018	0.0293	0.020
Nonfarm payrolls	0.1511 ***	0.021	0.0921 ***	0.021	0.2883 **	0.144	0.2696 ***	0.037	0.2962 ***	0.041	0.1167 ***	0.030
Retail sales	0.0545 ***	0.013	0.0322 ***	0.007	0.1158 ***	0.040	0.0892 ***	0.023	0.0893 ***	0.021	0.0729 ***	0.027
Industrial production	0.0114 ***	0.004	0.0234 ***	0.007	0.0105	0.008	0.0047	0.006	0.0030	0.006	-0.0011	0.010
Capacity utilization	0.0038	0.005	-0.0017	0.007	-0.0080	0.014	0.0131	0.008	0.0127	0.009	0.0181	0.014
Personal income	0.0034	0.004	-0.0039	0.006	0.0159 **	0.008	0.0057	0.006	0.0059	0.006	0.0411 **	0.021
Consumer credit	0.0023	0.003	-0.0003	0.003	0.0103	0.017	0.0031	0.003	0.0015	0.004	0.0006	0.002
Consumer spending	0.0123 **	0.005	0.0144 ***	0.005	0.0311 ***	0.009	0.0065	0.008	0.0067	0.009	-0.0071	0.018
Personal spending	0.0050	0.003	0.0045 ***	0.004	-0.0098	0.020	0.0101 **	0.005	0.0077	0.005	0.0042	0.007
New home sales	0.0302 ***	0.007	0.0206 ***	0.007	0.1459 ***	0.046	0.0535 ***	0.017	0.0594 ***	0.019	0.0151 **	0.006
Durable goods orders	0.0307 ***	0.008	0.0279 ***	0.008	0.1421 ***	0.036	0.0194	0.014	0.0202	0.015	0.0185	0.019
Factory orders	0.0181 ***	0.006	0.0148 ***	0.006	0.0176	0.014	0.0228 *	0.013	0.0252 **	0.011	0.0417 ***	0.013
Business inventories	0.0019	0.004	-0.0035	0.005	0.0094	0.014	0.0075	0.006	0.0065	0.006	0.0060	0.009
Trade balance	0.0489 ***	0.010	0.1017 ***	0.021	0.0535 ***	0.018	0.0216 **	0.008	0.0193 ***	0.007	0.0153 **	0.007
Producer price index	0.0122 *	0.007	0.0075	0.008	0.0150	0.014	0.0125	0.017	0.0137	0.017	0.0661	0.007
Consumer price index	0.0013	0.007	0.0053	0.011	-0.0316 **	0.016	0.0162 *	0.009	0.0137	0.008	0.0168	0.012
Consumer confidence inde	0.0454 ***	0.007	0.0498 ***	0.009	0.0853 ***	0.025	0.0322 ***	0.010	0.0330 ***	0.010	0.0109	0.008
NAPM index	0.0658 ***	0.008	0.0356 ***	0.007	0.1359 ***	0.032	0.0954 ***	0.014	0.1018 ***	0.015	0.0487 ***	0.015
Housing starts	0.0209 ***	0.005	0.0121 **	0.005	0.0676	0.042	0.0375 ***	0.011	0.0422 ***	0.011	0.0161	0.011
Index of leading indicators	0.0188 ***	0.005	0.0154 ***	0.005	0.0246 ***	0.007	0.0189 **	0.008	0.0217 ***	0.008	0.0069	0.007
Target federal funds rate	0.0123	0.015	-0.0139 ***	0.000	0.0061 ***	0.002	0.1802 ***	0.000	0.0413	0.037		
Japanese macro news												
GDP preliminary	-0.0201	0.015	-0.135 ***	0.047	-0.0151	0.042	0.0152	1.150	0.0138	0.013	0.0308	0.022
GDP final	-0.0107 *	0.006	-0.018 ***	0.007	-0.0135	0.009	-0.0064	-0.715	-0.0063	0.009	0.0053	0.006
Industrial production	-0.0157 ***	0.005	-0.043 ***	0.011	-0.0251	0.017	-0.0023	-0.797	-0.0023	0.003	-0.0032	0.005
Capacity utilization	-0.0016	0.004	-0.003	0.005	0.0015	0.003	-0.0060	-1.575	-0.0072 *	0.004	-0.0019	0.003
Dept. and super sales valu	-0.0021	0.003	0.001	0.004	-0.0097	0.019	-0.0011	-0.385	-0.0016	0.003	0.0011	0.002
Overall spending	-0.0041	0.003	-0.025 **	0.011	-0.0064	0.010	-0.0036	-1.353	-0.0046 *	0.003	-0.0034	0.005
Machinery orders	-0.0029	0.002	0.005	0.004	-0.0190 ***	0.007	0.0036 ***	30.851	0.0035 ***	0.000		
Construction orders	-0.0001	0.001	0.000	0.001	-0.0015	0.004	-0.0169 ***	-3.908	-0.0169 ***	0.004	-0.0073 **	0.004
Trade balance	-0.0094 ***	0.003	-0.004	0.004	0.0030	0.006	-0.0079 *	-1.949	-0.0085 *	0.004	-0.0034 *	0.002
Current account	-0.0096 ***	0.003	-0.012 ***	0.005	-0.0107	0.023	-0.0021	-0.678	-0.0025	0.003	-0.0025	0.003
Retail trade	-0.0072 *	0.004	-0.018 *	0.011	0.0102	0.016	0.0059	1.120	-0.0025	0.005	0.0054	0.004
Consumer price index	-0.0051	0.003	-0.013 ***	0.005	-0.0097	0.011	-0.0052	-0.966	-0.0053	0.005	-0.0129 ***	0.012
Producer price index	-0.0053	0.004	-0.009	0.006	-0.0011	0.004	0.0012 *	1.828	0.0013 *	0.001	0.0010 ***	0.000
Leading economic index	0.0006	0.001	0.000	0.001	-0.0350	0.071	0.0000	-0.004	0.0000	0.002	0.0009	0.002
Consumer confidence inde	0.0002	0.002	-0.029	0.033	-0.0277	0.039	-0.0003	-0.033	-0.0015	0.009	0.0053	0.005
TANKAN large manufacturi	-0.0183	0.020	-0.047 ***	0.012	0.0227 ***	0.008					0.0141	0.014
TANKAN non-m manufacturin	-0.0231	0.017										
R-squared	0.0060		0.005		0.0088		0.0183		0.0179		0.0546	
adj R-squared	0.0059		0.005		0.0083		0.0182		0.0178		0.0544	

Note: Same as Table 3.

Table 5B. K=1 : Lag coefficients

	FULL			Pre-GFC			GFC			Post-GFC			US-ZIRP			Japan-QQE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	coefficient	s.e.		coefficient	s.e.		coefficient	s.e.		coefficient	s.e.		coefficient	s.e.		coefficient	s.e.	tstat																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
US macro news																				GDP advance	0.0033	0.007		0.0036	0.009		0.0086	0.036		0.0001	0.010		-0.0092	0.011		-0.0026	0.017	0.017	GDP second	0.0156	0.010		0.0039	0.012		0.0165 ***	0.006		0.0196	0.015		0.0221	0.016		0.0067	0.007	0.007	GDP third	0.0067	0.005		0.0154	0.014		-0.0175 ***	0.000		0.0021	0.004		0.0024	0.004		-0.0012	0.005	0.005	Nonfarm payrolls	0.0236 **	0.011		0.0125	0.011		0.0507	0.045		0.0395	0.025		0.0416	0.028		0.0286	0.030	0.030	Retail sales	0.0056	0.007		-0.0023	0.004		-0.0255	0.025		0.0293 **	0.014		0.0155	0.016		0.0181	0.020	0.020	Industrial production	0.0121	0.008		-0.0129 **	0.007		0.0684 ***	0.016		0.0114	0.007		0.0112	0.007		0.0072	0.006	0.006	Capacity utilization	-0.0084	0.007		0.0101	0.007		-0.0643 ***	0.019		-0.0116 **	0.006		-0.0006	0.006		-0.0109	0.007	0.007	Personal income	0.0002	0.003		-0.0032	0.005		-0.0079	0.009		-0.0006	0.004		-0.0006	0.004		0.0168	0.017	0.017	Consumer credit	0.0018	0.003		0.0045	0.004		-0.0083	0.012		0.0010	0.003		0.0019	0.003		0.0005	0.001	0.001	Consumer spending	-0.0044	0.006		0.0057	0.008		-0.0480 **	0.020		-0.0039	0.008		-0.0045	0.008		-0.0179	0.015	0.015	Personal spending	-0.0016	0.003		-0.0018	0.004		0.0234	0.015		-0.0062	0.004		-0.0064	0.004		-0.0021	0.006	0.006	New home sales	0.0011	0.004		0.0011	0.005		-0.0336	0.027		0.0055	0.006		0.0056	0.007		0.0017	0.002	0.002	Durable goods orders	0.0016	0.004		0.0039	0.006		-0.0150	0.029		0.0008	0.004		0.0011	0.004		-0.0028	0.004	0.004	Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011
GDP advance	0.0033	0.007		0.0036	0.009		0.0086	0.036		0.0001	0.010		-0.0092	0.011		-0.0026	0.017	0.017	GDP second	0.0156	0.010		0.0039	0.012		0.0165 ***	0.006		0.0196	0.015		0.0221	0.016		0.0067	0.007	0.007	GDP third	0.0067	0.005		0.0154	0.014		-0.0175 ***	0.000		0.0021	0.004		0.0024	0.004		-0.0012	0.005	0.005	Nonfarm payrolls	0.0236 **	0.011		0.0125	0.011		0.0507	0.045		0.0395	0.025		0.0416	0.028		0.0286	0.030	0.030	Retail sales	0.0056	0.007		-0.0023	0.004		-0.0255	0.025		0.0293 **	0.014		0.0155	0.016		0.0181	0.020	0.020	Industrial production	0.0121	0.008		-0.0129 **	0.007		0.0684 ***	0.016		0.0114	0.007		0.0112	0.007		0.0072	0.006	0.006	Capacity utilization	-0.0084	0.007		0.0101	0.007		-0.0643 ***	0.019		-0.0116 **	0.006		-0.0006	0.006		-0.0109	0.007	0.007	Personal income	0.0002	0.003		-0.0032	0.005		-0.0079	0.009		-0.0006	0.004		-0.0006	0.004		0.0168	0.017	0.017	Consumer credit	0.0018	0.003		0.0045	0.004		-0.0083	0.012		0.0010	0.003		0.0019	0.003		0.0005	0.001	0.001	Consumer spending	-0.0044	0.006		0.0057	0.008		-0.0480 **	0.020		-0.0039	0.008		-0.0045	0.008		-0.0179	0.015	0.015	Personal spending	-0.0016	0.003		-0.0018	0.004		0.0234	0.015		-0.0062	0.004		-0.0064	0.004		-0.0021	0.006	0.006	New home sales	0.0011	0.004		0.0011	0.005		-0.0336	0.027		0.0055	0.006		0.0056	0.007		0.0017	0.002	0.002	Durable goods orders	0.0016	0.004		0.0039	0.006		-0.0150	0.029		0.0008	0.004		0.0011	0.004		-0.0028	0.004	0.004	Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																				
GDP second	0.0156	0.010		0.0039	0.012		0.0165 ***	0.006		0.0196	0.015		0.0221	0.016		0.0067	0.007	0.007	GDP third	0.0067	0.005		0.0154	0.014		-0.0175 ***	0.000		0.0021	0.004		0.0024	0.004		-0.0012	0.005	0.005	Nonfarm payrolls	0.0236 **	0.011		0.0125	0.011		0.0507	0.045		0.0395	0.025		0.0416	0.028		0.0286	0.030	0.030	Retail sales	0.0056	0.007		-0.0023	0.004		-0.0255	0.025		0.0293 **	0.014		0.0155	0.016		0.0181	0.020	0.020	Industrial production	0.0121	0.008		-0.0129 **	0.007		0.0684 ***	0.016		0.0114	0.007		0.0112	0.007		0.0072	0.006	0.006	Capacity utilization	-0.0084	0.007		0.0101	0.007		-0.0643 ***	0.019		-0.0116 **	0.006		-0.0006	0.006		-0.0109	0.007	0.007	Personal income	0.0002	0.003		-0.0032	0.005		-0.0079	0.009		-0.0006	0.004		-0.0006	0.004		0.0168	0.017	0.017	Consumer credit	0.0018	0.003		0.0045	0.004		-0.0083	0.012		0.0010	0.003		0.0019	0.003		0.0005	0.001	0.001	Consumer spending	-0.0044	0.006		0.0057	0.008		-0.0480 **	0.020		-0.0039	0.008		-0.0045	0.008		-0.0179	0.015	0.015	Personal spending	-0.0016	0.003		-0.0018	0.004		0.0234	0.015		-0.0062	0.004		-0.0064	0.004		-0.0021	0.006	0.006	New home sales	0.0011	0.004		0.0011	0.005		-0.0336	0.027		0.0055	0.006		0.0056	0.007		0.0017	0.002	0.002	Durable goods orders	0.0016	0.004		0.0039	0.006		-0.0150	0.029		0.0008	0.004		0.0011	0.004		-0.0028	0.004	0.004	Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																							
GDP third	0.0067	0.005		0.0154	0.014		-0.0175 ***	0.000		0.0021	0.004		0.0024	0.004		-0.0012	0.005	0.005	Nonfarm payrolls	0.0236 **	0.011		0.0125	0.011		0.0507	0.045		0.0395	0.025		0.0416	0.028		0.0286	0.030	0.030	Retail sales	0.0056	0.007		-0.0023	0.004		-0.0255	0.025		0.0293 **	0.014		0.0155	0.016		0.0181	0.020	0.020	Industrial production	0.0121	0.008		-0.0129 **	0.007		0.0684 ***	0.016		0.0114	0.007		0.0112	0.007		0.0072	0.006	0.006	Capacity utilization	-0.0084	0.007		0.0101	0.007		-0.0643 ***	0.019		-0.0116 **	0.006		-0.0006	0.006		-0.0109	0.007	0.007	Personal income	0.0002	0.003		-0.0032	0.005		-0.0079	0.009		-0.0006	0.004		-0.0006	0.004		0.0168	0.017	0.017	Consumer credit	0.0018	0.003		0.0045	0.004		-0.0083	0.012		0.0010	0.003		0.0019	0.003		0.0005	0.001	0.001	Consumer spending	-0.0044	0.006		0.0057	0.008		-0.0480 **	0.020		-0.0039	0.008		-0.0045	0.008		-0.0179	0.015	0.015	Personal spending	-0.0016	0.003		-0.0018	0.004		0.0234	0.015		-0.0062	0.004		-0.0064	0.004		-0.0021	0.006	0.006	New home sales	0.0011	0.004		0.0011	0.005		-0.0336	0.027		0.0055	0.006		0.0056	0.007		0.0017	0.002	0.002	Durable goods orders	0.0016	0.004		0.0039	0.006		-0.0150	0.029		0.0008	0.004		0.0011	0.004		-0.0028	0.004	0.004	Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																										
Nonfarm payrolls	0.0236 **	0.011		0.0125	0.011		0.0507	0.045		0.0395	0.025		0.0416	0.028		0.0286	0.030	0.030	Retail sales	0.0056	0.007		-0.0023	0.004		-0.0255	0.025		0.0293 **	0.014		0.0155	0.016		0.0181	0.020	0.020	Industrial production	0.0121	0.008		-0.0129 **	0.007		0.0684 ***	0.016		0.0114	0.007		0.0112	0.007		0.0072	0.006	0.006	Capacity utilization	-0.0084	0.007		0.0101	0.007		-0.0643 ***	0.019		-0.0116 **	0.006		-0.0006	0.006		-0.0109	0.007	0.007	Personal income	0.0002	0.003		-0.0032	0.005		-0.0079	0.009		-0.0006	0.004		-0.0006	0.004		0.0168	0.017	0.017	Consumer credit	0.0018	0.003		0.0045	0.004		-0.0083	0.012		0.0010	0.003		0.0019	0.003		0.0005	0.001	0.001	Consumer spending	-0.0044	0.006		0.0057	0.008		-0.0480 **	0.020		-0.0039	0.008		-0.0045	0.008		-0.0179	0.015	0.015	Personal spending	-0.0016	0.003		-0.0018	0.004		0.0234	0.015		-0.0062	0.004		-0.0064	0.004		-0.0021	0.006	0.006	New home sales	0.0011	0.004		0.0011	0.005		-0.0336	0.027		0.0055	0.006		0.0056	0.007		0.0017	0.002	0.002	Durable goods orders	0.0016	0.004		0.0039	0.006		-0.0150	0.029		0.0008	0.004		0.0011	0.004		-0.0028	0.004	0.004	Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																													
Retail sales	0.0056	0.007		-0.0023	0.004		-0.0255	0.025		0.0293 **	0.014		0.0155	0.016		0.0181	0.020	0.020	Industrial production	0.0121	0.008		-0.0129 **	0.007		0.0684 ***	0.016		0.0114	0.007		0.0112	0.007		0.0072	0.006	0.006	Capacity utilization	-0.0084	0.007		0.0101	0.007		-0.0643 ***	0.019		-0.0116 **	0.006		-0.0006	0.006		-0.0109	0.007	0.007	Personal income	0.0002	0.003		-0.0032	0.005		-0.0079	0.009		-0.0006	0.004		-0.0006	0.004		0.0168	0.017	0.017	Consumer credit	0.0018	0.003		0.0045	0.004		-0.0083	0.012		0.0010	0.003		0.0019	0.003		0.0005	0.001	0.001	Consumer spending	-0.0044	0.006		0.0057	0.008		-0.0480 **	0.020		-0.0039	0.008		-0.0045	0.008		-0.0179	0.015	0.015	Personal spending	-0.0016	0.003		-0.0018	0.004		0.0234	0.015		-0.0062	0.004		-0.0064	0.004		-0.0021	0.006	0.006	New home sales	0.0011	0.004		0.0011	0.005		-0.0336	0.027		0.0055	0.006		0.0056	0.007		0.0017	0.002	0.002	Durable goods orders	0.0016	0.004		0.0039	0.006		-0.0150	0.029		0.0008	0.004		0.0011	0.004		-0.0028	0.004	0.004	Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																
Industrial production	0.0121	0.008		-0.0129 **	0.007		0.0684 ***	0.016		0.0114	0.007		0.0112	0.007		0.0072	0.006	0.006	Capacity utilization	-0.0084	0.007		0.0101	0.007		-0.0643 ***	0.019		-0.0116 **	0.006		-0.0006	0.006		-0.0109	0.007	0.007	Personal income	0.0002	0.003		-0.0032	0.005		-0.0079	0.009		-0.0006	0.004		-0.0006	0.004		0.0168	0.017	0.017	Consumer credit	0.0018	0.003		0.0045	0.004		-0.0083	0.012		0.0010	0.003		0.0019	0.003		0.0005	0.001	0.001	Consumer spending	-0.0044	0.006		0.0057	0.008		-0.0480 **	0.020		-0.0039	0.008		-0.0045	0.008		-0.0179	0.015	0.015	Personal spending	-0.0016	0.003		-0.0018	0.004		0.0234	0.015		-0.0062	0.004		-0.0064	0.004		-0.0021	0.006	0.006	New home sales	0.0011	0.004		0.0011	0.005		-0.0336	0.027		0.0055	0.006		0.0056	0.007		0.0017	0.002	0.002	Durable goods orders	0.0016	0.004		0.0039	0.006		-0.0150	0.029		0.0008	0.004		0.0011	0.004		-0.0028	0.004	0.004	Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																			
Capacity utilization	-0.0084	0.007		0.0101	0.007		-0.0643 ***	0.019		-0.0116 **	0.006		-0.0006	0.006		-0.0109	0.007	0.007	Personal income	0.0002	0.003		-0.0032	0.005		-0.0079	0.009		-0.0006	0.004		-0.0006	0.004		0.0168	0.017	0.017	Consumer credit	0.0018	0.003		0.0045	0.004		-0.0083	0.012		0.0010	0.003		0.0019	0.003		0.0005	0.001	0.001	Consumer spending	-0.0044	0.006		0.0057	0.008		-0.0480 **	0.020		-0.0039	0.008		-0.0045	0.008		-0.0179	0.015	0.015	Personal spending	-0.0016	0.003		-0.0018	0.004		0.0234	0.015		-0.0062	0.004		-0.0064	0.004		-0.0021	0.006	0.006	New home sales	0.0011	0.004		0.0011	0.005		-0.0336	0.027		0.0055	0.006		0.0056	0.007		0.0017	0.002	0.002	Durable goods orders	0.0016	0.004		0.0039	0.006		-0.0150	0.029		0.0008	0.004		0.0011	0.004		-0.0028	0.004	0.004	Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																						
Personal income	0.0002	0.003		-0.0032	0.005		-0.0079	0.009		-0.0006	0.004		-0.0006	0.004		0.0168	0.017	0.017	Consumer credit	0.0018	0.003		0.0045	0.004		-0.0083	0.012		0.0010	0.003		0.0019	0.003		0.0005	0.001	0.001	Consumer spending	-0.0044	0.006		0.0057	0.008		-0.0480 **	0.020		-0.0039	0.008		-0.0045	0.008		-0.0179	0.015	0.015	Personal spending	-0.0016	0.003		-0.0018	0.004		0.0234	0.015		-0.0062	0.004		-0.0064	0.004		-0.0021	0.006	0.006	New home sales	0.0011	0.004		0.0011	0.005		-0.0336	0.027		0.0055	0.006		0.0056	0.007		0.0017	0.002	0.002	Durable goods orders	0.0016	0.004		0.0039	0.006		-0.0150	0.029		0.0008	0.004		0.0011	0.004		-0.0028	0.004	0.004	Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																									
Consumer credit	0.0018	0.003		0.0045	0.004		-0.0083	0.012		0.0010	0.003		0.0019	0.003		0.0005	0.001	0.001	Consumer spending	-0.0044	0.006		0.0057	0.008		-0.0480 **	0.020		-0.0039	0.008		-0.0045	0.008		-0.0179	0.015	0.015	Personal spending	-0.0016	0.003		-0.0018	0.004		0.0234	0.015		-0.0062	0.004		-0.0064	0.004		-0.0021	0.006	0.006	New home sales	0.0011	0.004		0.0011	0.005		-0.0336	0.027		0.0055	0.006		0.0056	0.007		0.0017	0.002	0.002	Durable goods orders	0.0016	0.004		0.0039	0.006		-0.0150	0.029		0.0008	0.004		0.0011	0.004		-0.0028	0.004	0.004	Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																												
Consumer spending	-0.0044	0.006		0.0057	0.008		-0.0480 **	0.020		-0.0039	0.008		-0.0045	0.008		-0.0179	0.015	0.015	Personal spending	-0.0016	0.003		-0.0018	0.004		0.0234	0.015		-0.0062	0.004		-0.0064	0.004		-0.0021	0.006	0.006	New home sales	0.0011	0.004		0.0011	0.005		-0.0336	0.027		0.0055	0.006		0.0056	0.007		0.0017	0.002	0.002	Durable goods orders	0.0016	0.004		0.0039	0.006		-0.0150	0.029		0.0008	0.004		0.0011	0.004		-0.0028	0.004	0.004	Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																															
Personal spending	-0.0016	0.003		-0.0018	0.004		0.0234	0.015		-0.0062	0.004		-0.0064	0.004		-0.0021	0.006	0.006	New home sales	0.0011	0.004		0.0011	0.005		-0.0336	0.027		0.0055	0.006		0.0056	0.007		0.0017	0.002	0.002	Durable goods orders	0.0016	0.004		0.0039	0.006		-0.0150	0.029		0.0008	0.004		0.0011	0.004		-0.0028	0.004	0.004	Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																		
New home sales	0.0011	0.004		0.0011	0.005		-0.0336	0.027		0.0055	0.006		0.0056	0.007		0.0017	0.002	0.002	Durable goods orders	0.0016	0.004		0.0039	0.006		-0.0150	0.029		0.0008	0.004		0.0011	0.004		-0.0028	0.004	0.004	Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																					
Durable goods orders	0.0016	0.004		0.0039	0.006		-0.0150	0.029		0.0008	0.004		0.0011	0.004		-0.0028	0.004	0.004	Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																								
Factory orders	-0.0011	0.005		0.0017	0.006		-0.0016	0.009		-0.0051	0.010		-0.0054	0.008		-0.0094	0.013	0.013	Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																											
Business inventories	-0.0022	0.003		-0.0001	0.004		0.0092	0.011		-0.0091	0.006		-0.0098	0.006		-0.0068	0.011	0.011	Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																														
Trade balance	0.0007	0.005		-0.0032	0.011		0.0249 *	0.015		0.0003	0.004		0.0039	0.005		0.0062	0.006	0.006	Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																	
Producer price index	-0.0052	0.005		-0.0096 *	0.005		-0.0123	0.020		0.0078	0.007		0.0108	0.009		0.0250 *	0.015	0.015	Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																				
Consumer price index	-0.0086 **	0.004		-0.0134 **	0.007		-0.0135	0.008		0.0041	0.007		0.0029	0.006		-0.0082	0.005	0.005	Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																							
Consumer confidence inde	-0.0002	0.004		0.0067	0.007		0.0109	0.022		-0.0092	0.006		-0.0096	0.006		-0.0076	0.007	0.007	NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																										
NAPM index	0.0107 *	0.006		0.0118	0.007		0.0142	0.023		0.0048	0.010		0.0056	0.010		0.0205 **	0.008	0.008	Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																													
Housing starts	0.0056	0.004		-0.0062	0.004		-0.0017	0.024		0.0055	0.005		0.0033	0.006		0.0069 **	0.003	0.003	Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																
Index of leading indicators	0.0052	0.004		-0.0082	0.006		0.0167	0.010		0.0101 **	0.004		0.0128 ***	0.004		0.0036	0.005	0.005	Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																			
Target federal funds rate	0.0565 *	0.031		0.0137 ***	0.000		0.0704 *	0.043		0.1117 ***	0.001		0.1275 ***	0.004					Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Japanese macro news																				GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
GDP preliminary	-0.0018	0.007		-0.033 **	0.016		0.0019	0.008		0.0052	0.005		0.0070	0.005		-0.0032	0.007	0.007	GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
GDP final	-0.0003	0.005		-0.010	0.008		0.0000	0.020		0.0044	0.006		0.0045	0.006		0.0085 *	0.005	0.005	Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Industrial production	0.0015	0.002		0.002	0.005		-0.0160	0.017		0.0024	0.002		0.0016	0.002		0.0011	0.003	0.003	Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Capacity utilization	0.0013	0.003		0.000	0.003		0.0039	0.005											Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Dept. and super sales valu	0.0019	0.003		0.002	0.004		0.0160	0.015		0.0016	0.003		0.0037	0.003		0.0003	0.003	0.003	Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Overall spending	-0.0029	0.003		-0.018 **	0.008		-0.0186 *	0.011		0.0020	0.002		0.0028 *	0.002		0.0010	0.002	0.002	Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Machinery orders	0.0025	0.002		0.006	0.004		0.0096	0.009		-0.0008	0.003		-0.0008	0.003		-0.0025	0.004	0.004	Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Construction orders	0.0012	0.002		0.002	0.001		0.0066	0.005		-0.0004 ***	0.000		-0.0004 ***	0.000					Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Trade balance	0.0052 **	0.002		0.009 **	0.004		-0.0039 *	0.008		0.0052 *	0.003		0.0055 *	0.003		0.0003	0.002	0.002	Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Current account	-0.0009	0.002		-0.005	0.004		0.0133	0.019		0.0007	0.002		0.0004	0.002		0.0012	0.001	0.001	Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Retail trade	-0.0016	0.002		0.000	0.006		-0.0029	0.007		-0.0031	0.002		-0.0028	0.002		-0.0015	0.002	0.002	Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Consumer price index	0.0000	0.003		-0.003	0.005		-0.0085	0.006		0.0047	0.004		0.0047	0.004		0.0002	0.003	0.003	Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Producer price index	0.0071	0.005		0.0071	0.003		0.0214	0.019		0.0029	0.003		0.0028	0.003		0.0041	0.004	0.004	Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Leading economic index	-0.0002	0.001		0.000	0.002		-0.0369	0.031		-0.0004	0.001		-0.0004	0.001		-0.0009	0.001	0.001	Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Consumer confidence inde	0.0012	0.001								0.0012	0.001		0.0013	0.001		0.0004	0.001	0.001	TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
TANKAN large manufacturi	0.0140 **	0.006		0.017 **	0.009		0.0368 *	0.022		0.0042	0.004		0.0041	0.005		0.0031	0.003	0.003	TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
TANKAN non-manufacturin	0.0009	0.005		0.003	0.007		-0.0072	0.006		0.0026	0.008		0.0024	0.008		0.0115	0.011	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

Note: Same as Table 3.

Table 6. Results of 100 minute window regressions

	FULL		Pre-GFC		GFC		Post-GFC		US-ZRP		Japan-QE	
	84,105	37,870	7,281	38,896	35,977	17,272	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.
US macro news	0.0858 ***	0.0779 ***	0.0856 **	0.0996 ***	0.1042 ***	0.0887 **	0.030	0.034	0.1042 ***	0.030	0.0887 **	0.044
GDP advance	0.0486 ***	0.0353 ***	0.0438	0.0529 ***	0.0583 ***	0.0241 **	0.014	0.014	0.0583 ***	0.014	0.0241 **	0.011
GDP second	0.0257 **	0.0048	-0.0150 ***	0.0384 **	0.0401 **	0.0290	0.018	0.018	0.0401 **	0.018	0.0290	0.020
GDP third	0.1509 ***	0.0919 ***	0.2895 **	0.2695 ***	0.2961 ***	0.1162 ***	0.041	0.037	0.2961 ***	0.041	0.1162 ***	0.031
Nonfarm payrolls	0.0544 ***	0.0319 ***	0.1163 ***	0.0892 ***	0.0894 ***	0.0722 ***	0.021	0.023	0.0894 ***	0.021	0.0722 ***	0.027
Retail sales	0.0112 ***	0.0233 ***	0.1017	0.0047	0.0300	-0.0016	0.006	0.006	0.0300	0.006	-0.0016	0.010
Industrial production	0.0037	-0.0018	-0.0076	0.0130	0.0127	0.0182	0.009	0.009	0.0127	0.009	0.0182	0.014
Capacity utilization	0.0034	-0.0040	0.0154 **	0.0058	0.0060	0.0422 **	0.006	0.006	0.0060	0.006	0.0422 **	0.021
Personal income	0.0023	-0.0002	0.0107	0.0032	0.0015	0.0005	0.004	0.004	0.0015	0.004	0.0005	0.002
Consumer credit	0.0122 **	0.0143 ***	0.0304 ***	0.0064	0.0067	-0.0071	0.009	0.009	0.0067	0.009	-0.0071	0.018
Consumer spending	0.0050	0.0047	-0.0104	0.0100 **	0.0106 **	0.0041	0.005	0.005	0.0106 **	0.005	0.0041	0.007
Personal spending	0.0302 ***	0.0208 ***	0.1478 ***	0.0534 ***	0.0594 ***	0.0147 **	0.019	0.019	0.0594 ***	0.019	0.0147 **	0.006
New home sales	0.0305 ***	0.0276 ***	0.1419 ***	0.0194	0.0202	0.0184	0.015	0.015	0.0202	0.015	0.0184	0.019
Durable goods orders	0.0180 ***	0.0147 ***	0.0174	0.0228 *	0.0252 **	0.0414 ***	0.011	0.011	0.0252 **	0.011	0.0414 ***	0.013
Factory orders	0.0018	-0.0036	0.0103	0.0074	0.0065	0.0061	0.006	0.006	0.0065	0.006	0.0061	0.009
Business inventories	0.0490 ***	0.0108 ***	0.0528 ***	0.0216 ***	0.0193 ***	0.0152 **	0.007	0.007	0.0193 ***	0.007	0.0152 **	0.007
Trade balance	0.0121 *	0.0075	0.0149	0.0126	0.0138	0.0668	0.017	0.017	0.0138	0.017	0.0668	0.057
Producer price index	0.0012	0.0053	-0.0317 **	0.0163 *	0.0138 *	0.0170	0.008	0.008	0.0138 *	0.008	0.0170	0.012
Consumer price index	0.0452 ***	0.0496 ***	0.0854 ***	0.0321 ***	0.0330 ***	0.0107	0.010	0.010	0.0330 ***	0.010	0.0107	0.008
Consumer confidence index	0.0657 ***	0.0355 ***	0.1371 ***	0.0954 ***	0.1018 ***	0.0485 ***	0.015	0.015	0.1018 ***	0.015	0.0485 ***	0.015
NAPM index	0.0209 ***	0.0123 **	0.0678	0.0375 ***	0.0423 ***	0.0158	0.011	0.011	0.0423 ***	0.011	0.0158	0.011
Housing starts	0.0187 ***	0.0154 ***	0.0248 ***	0.0190 **	0.0218 ***	0.0066	0.008	0.008	0.0218 ***	0.008	0.0066	0.006
Index of leading indicators	0.0123	-0.0138 ***	0.0064 ***	0.1804 ***	0.0414		0.037	0.037	0.0414	0.037		
Target federal funds rate												
Japanese macro news												
GDP preliminary	-0.0201	-0.135 ***	-0.0156	0.0150	0.0137	0.0309	0.014	0.014	0.0137	0.014	0.0309	0.022
GDP final	-0.0106 *	-0.018 **	-0.0135	-0.0065	-0.064	0.0053	0.009	0.009	-0.064	0.009	0.0053	0.006
Industrial production	-0.0157 ***	-0.043 ***	-0.0244	-0.0025	-0.025	-0.0030	0.003	0.003	-0.025	0.003	-0.0030	0.005
Capacity utilization	-0.0017	-0.003	0.0015	-0.0025	-0.074 *		0.004	0.004	-0.074 *	0.004		
Dept. and super mkt sales valu	-0.0022	0.001	-0.0096	-0.0063	-0.0016	-0.0019	0.004	0.003	-0.0016	0.003	-0.0019	0.003
Overall spending	-0.0042	-0.026 **	-0.0070	-0.0011	-0.0046 *	0.0010	0.003	0.003	-0.0046 *	0.003	0.0010	0.002
Machinery orders	-0.0029	0.005	-0.0191 ***	-0.0036	0.0034 ***	-0.0037	0.005	0.005	0.0034 ***	0.005	-0.0037	0.005
Construction orders	-0.0001	0.000	-0.0011	0.0035 ***	-0.0170 ***	-0.0073 **	0.004	0.004	-0.0170 ***	0.004	-0.0073 **	0.004
Trade balance	-0.0095 ***	-0.004	0.0034	-0.0170 ***	-0.085 *	-0.0035	0.004	0.004	-0.085 *	0.004	-0.0035	0.002
Current account	-0.0096 ***	-0.012 ***	-0.0106	-0.0079 *	-0.023	-0.0035	0.003	0.003	-0.023	0.003	-0.0035	0.002
Retail trade	-0.0072 *	-0.018 **	0.0092	-0.0019	0.0051	-0.0026	0.005	0.005	0.0051	0.005	-0.0026	0.003
Consumer price index	-0.0051	-0.013 ***	-0.0104	0.0061	-0.0053	0.0054	0.006	0.006	-0.0053	0.006	0.0054	0.004
Producer price index	-0.0053	-0.009	-0.0016	-0.0053	0.0013	-0.0131	0.001	0.001	0.0013	0.001	-0.0131	0.012
Leading economic index	0.0007	0.000	-0.0315	0.0013 *	0.0000	0.0012	0.001	0.001	0.0000	0.001	0.0012	0.000
Consumer confidence index	0.0001	0.000	0.0000	0.0000	0.0000	0.0006	0.002	0.002	0.0000	0.002	0.0006	0.002
TANKAN large manufacturing	-0.0183	-0.029	-0.0259	-0.0002	-0.014	0.0056	0.010	0.010	-0.014	0.010	0.0056	0.005
TANKAN large non-manufactur	-0.0230	-0.047 ***	0.0233 ***	-0.0158	-0.0160	0.0140	0.023	0.023	-0.0160	0.023	0.0140	0.015
R-squared	0.0430	0.0360	0.0645	0.0869	0.0858	0.1150			0.0858		0.1150	
adj R-squared	0.0425	0.0349	0.0590	0.0859	0.0847	0.1129			0.0847		0.1129	

Note: Same as Table 3.

Table 7. Results of standard event study regressions

	FULL		Pre-GFC		GFC		Post-GFC		US-ZIRP		Japan-QQE	
	coefficient	R2	coefficient	R2	coefficient	R2	coefficient	R2	coefficient	R2	coefficient	R2
US macro news												
GDP advance	0.0834 ***	0.265	0.0736 ***	0.366	0.1253 ***	0.505	0.1100 ***	0.238	0.1062 ***	0.279	0.1014 **	0.381
GDP second	0.0474 ***	0.223	0.0326 ***	0.153	0.0577 ***	0.517	0.0531 ***	0.263	0.0582 ***	0.257	0.0265	0.209
GDP third	0.0270 ***	0.166	0.0044	0.007			0.0395 **	0.299	0.0406 **	0.299	0.0300	0.236
Nonfarm payrolls	0.1514 ***	0.228	0.0940 ***	0.195	0.2737 *	0.203	0.2691 ***	0.388	0.2972 ***	0.411	0.1193 ***	0.132
Retail sales	0.0561 ***	0.194	0.0226 ***	0.178	0.1236 ***	0.264	0.0930 ***	0.299	0.0951 ***	0.350	0.0891 *	0.239
Industrial production	0.0148 ***	0.077	0.0223 ***	0.129	0.0055	0.011	0.0148 ***	0.111	0.0125 **	0.075	0.0189 ***	0.144
Capacity utilization	0.0127 ***	0.061	0.0130 **	0.064	0.0031	0.002	0.0172 ***	0.147	0.0152 **	0.109	0.0183 **	0.183
Personal income	0.0047	0.005	-0.0014	0.000	0.0044	0.003	0.0087 **	0.019	0.0089 **	0.020	0.0380	0.059
Consumer credit	0.0025	0.005	-0.0003	0.000	0.0105	0.037	0.0098	0.015	0.0019	0.003	0.0021 *	0.012
Consumer spending	0.0130 **	0.072	0.0123 ***	0.293	0.0173 *	0.401	0.0096	0.025	0.0100	0.025	-0.0195	0.084
Personal spending	0.0074 **	0.021	0.0053	0.015	0.0032	0.001	0.0126 **	0.072	0.0133 **	0.072	0.0026	0.009
New home sales	0.0338 ***	0.116	0.0259 ***	0.114	0.1784 ***	0.397	0.0569 ***	0.173	0.0636 ***	0.192	0.0173 **	0.086
Durable goods orders	0.0309 ***	0.099	0.0276 ***	0.130	0.1424 ***	0.428	0.0203	0.047	0.0215	0.050	0.0181	0.080
Factory orders	0.0179 ***	0.075	0.0144 ***	0.061	0.0183	0.117	0.0225	0.081	0.0250 **	0.111	0.0437 **	0.414
Business inventories	0.0023	0.002	-0.0015	0.001	0.0093	0.050	0.0078	0.025	0.0068	0.018	0.0062	0.029
Trade balance	0.0457 **	0.144	0.0104 ***	0.336	0.0507 ***	0.230	0.0115 **	0.023	0.0152 ***	0.042	0.0060	0.011
Producer price index	0.0180 **	0.032	0.0082	0.009	0.0319 **	0.069	0.0292	0.065	0.0299 *	0.065	0.1006 **	0.449
Consumer price index	-0.0006	0.000	0.0024	0.001	-0.0297	0.121	0.0141	0.027	0.0143	0.031	0.0127	0.100
Consumer confidence index	0.0476 ***	0.293	0.0521 ***	0.335	0.0923 ***	0.529	0.0354 ***	0.208	0.0361 ***	0.208	0.0131 *	0.100
NAPM index	0.0653 ***	0.309	0.0355 ***	0.184	0.1430 ***	0.585	0.0941 ***	0.446	0.1008 ***	0.482	0.0496 ***	0.315
Housing starts	0.0209 ***	0.072	0.0128 **	0.043	0.0725 **	0.292	0.0372 ***	0.146	0.0426 ***	0.180	0.0174	0.088
Index of leading indicators	0.0181 ***	0.077	0.0153 ***	0.079	0.0283 ***	0.571	0.0182 **	0.054	0.0206 **	0.066	0.0076	0.018
Target federal funds rate	0.0573 ***	0.949							0.0639	1.000		
Japanese macro news												
GDP preliminary	-0.0195	0.033	-0.126 **	0.574	-0.0369	0.097	0.0133	0.027	0.0122	0.022	0.0262	0.091
GDP final	-0.0090	0.051	-0.018 *	0.185	-0.0136 *	0.100	-0.0040	0.012	-0.0038	0.010	0.0091 *	0.381
Industrial production	-0.0165 ***	0.093	-0.047 ***	0.307	-0.0264	0.107	-0.0031	0.013	-0.0025	0.007	-0.0033	0.014
Capacity utilization	-0.0016	0.017	-0.003	0.035								
Dept. and super mkt sales valu	-0.0022	0.004	0.000	0.000	-0.0039	0.005	-0.0059 *	0.050	-0.0072 **	0.069	-0.0016	0.005
Overall spending	-0.0035	0.007	-0.017	0.066	-0.0065	0.034	-0.0013	0.001	-0.0019	0.002	0.0006	0.002
Machinery orders	-0.0028	0.008	0.005	0.017	-0.0208 ***	0.324	-0.0036	0.021	-0.0048 *	0.043	-0.0001	0.000
Construction orders	-0.0001	0.000	0.000	0.001	-0.0018	0.044						
Trade balance	-0.0097 ***	0.047	-0.004	0.009	-0.0004	0.000	-0.0167 ***	0.121	-0.0169 ***	0.106	-0.0078 **	0.058
Current account	-0.0090 ***	0.043	-0.012 ***	0.091	-0.0092	0.015	-0.0075 *	0.031	-0.0082 *	0.034	-0.0034 *	0.058
Retail trade	-0.0084 **	0.045	-0.021 *	0.127	-0.0032	0.004	-0.0038	0.025	-0.0049	0.038	-0.0028	0.013
Consumer price index	-0.0054	0.017	-0.013 **	0.106	-0.0117	0.089	0.0077	0.030	0.0065	0.022	0.0063	0.063
Producer price index	-0.0047	0.011	-0.010	0.027	0.0009	0.001	-0.0060	0.020	-0.0056	0.017	-0.0161	0.065
Leading economic index	0.0013 *	0.005	0.002	0.079	-0.1688	0.300	0.0012 *	0.005	0.0013 *	0.006	0.0008	0.006
Consumer confidence index	-0.0003	0.001					-0.0003	0.001	-0.0004	0.001	0.0017	0.020
TANKAN large manufacturing	-0.0237	0.052	-0.034	0.073	-0.0330	0.066	-0.0083	0.021	-0.0115	0.038	0.0035	0.011
TANKAN large non-manufacturi	-0.0280 **	0.115	-0.049 ***	0.237	0.0178	0.066	-0.0276	0.180	-0.0316	0.224	0.0110	0.058

Note: Same as Table 3.



Table 8. Results for separate regressions for US news and Japanese news (J=3, K=0)

	FULL		Pre-GFC		GFC		Post-GFC		US-ZIRP		Japan-QQE	
	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.	coefficient	s.e.
US macro news												
GDP advance	0.0860 ***	0.014	0.0783 ***	0.015	0.0872 **	0.035	0.1001 ***	0.034	0.1045 ***	0.030	0.0890 **	0.044
GDP second	0.0466 **	0.009	0.0349 ***	0.013	0.0442	0.030	0.0530 ***	0.014	0.0585 ***	0.014	0.0241 **	0.011
GDP third	0.0260 **	0.011	0.0050	0.011	-0.0181 ***	0.001	0.0385 **	0.017	0.0402 **	0.018	0.0293	0.020
Nonfarm payrolls	0.1511 ***	0.021	0.0921 ***	0.021	0.2883 **	0.144	0.2696 ***	0.037	0.2962 ***	0.041	0.1167 ***	0.030
Retail sales	0.0545 ***	0.013	0.0322 ***	0.007	0.1158 ***	0.040	0.0892 ***	0.023	0.0893 ***	0.021	0.0729 ***	0.027
Industrial production	0.0114 ***	0.004	0.0234 ***	0.007	0.0105	0.008	0.0047	0.006	0.0031	0.006	-0.0012	0.010
Capacity utilization	0.0038	0.005	-0.0017	0.007	-0.0080	0.014	0.0131	0.008	0.0127	0.009	0.0181	0.014
Personal income	0.0034	0.004	-0.0039	0.006	0.0159 **	0.006	0.0057	0.006	0.0059	0.004	0.0411 **	0.021
Consumer credit	0.0023	0.003	-0.0003	0.003	0.0103	0.017	0.0031	0.003	0.0015	0.004	0.0006	0.002
Consumer spending	0.0123 **	0.005	0.0144 ***	0.005	0.0311 ***	0.009	0.0065	0.008	0.0067	0.009	-0.0071	0.018
Personal spending	0.0050	0.003	0.0045	0.004	-0.0098	0.020	0.0101 **	0.005	0.0107 **	0.005	0.0042	0.007
New home sales	0.0302 ***	0.007	0.0206 ***	0.007	0.1459 ***	0.046	0.0535 ***	0.017	0.0594 ***	0.019	0.0151 **	0.006
Durable goods orders	0.0307 ***	0.008	0.0279 ***	0.008	0.1421 ***	0.036	0.0194	0.014	0.0202	0.015	0.0185	0.019
Factory orders	0.0181 ***	0.006	0.0148 ***	0.006	0.0176	0.014	0.0228 *	0.013	0.0252 **	0.011	0.0417 ***	0.013
Business inventories	0.0019	0.004	-0.0035	0.005	0.0094	0.014	0.0075	0.006	0.0065	0.006	0.0060	0.009
Trade balance	0.0489 ***	0.010	0.1017 ***	0.021	0.0535 ***	0.018	0.0216 ***	0.008	0.0193 ***	0.007	0.0153 **	0.007
Producer price index	0.0122 *	0.007	0.0075	0.008	0.0150	0.014	0.0124	0.017	0.0137	0.017	0.0861	0.057
Consumer price index	0.0013	0.007	0.0053	0.011	-0.0316 **	0.016	0.0162 *	0.009	0.0137	0.008	0.0168	0.012
Consumer confidence index	0.0454 ***	0.007	0.0498 ***	0.009	0.0853 ***	0.025	0.0322 ***	0.010	0.0330 ***	0.010	0.0109	0.008
NAPM index	0.0658 **	0.008	0.0356 **	0.007	0.1359 ***	0.032	0.0954 ***	0.014	0.1017 ***	0.015	0.0487 ***	0.015
Housing starts	0.0209 ***	0.005	0.0121 **	0.005	0.0676	0.042	0.0375 ***	0.011	0.0422 ***	0.011	0.0161	0.011
Index of leading indicators	0.0188 ***	0.005	0.0154 ***	0.005	0.0246 ***	0.007	0.0189 **	0.008	0.0217 ***	0.008	0.0069	0.007
Target federal funds rate	0.0123	0.015	-0.0139 ***	0.000	0.0061 ***	0.002	0.1802 ***	0.000	0.0413	0.037		
R-squared	0.0055		0.0040		0.0072		0.0177		0.0164		0.0539	
adj R-squared	0.0055		0.0039		0.0071		0.0177		0.0164		0.0538	
Japanese macro news												
GDP preliminary	-0.0201	0.015	-0.135 ***	0.047	-0.0151	0.042	0.0152	0.013	0.0138	0.014	0.0308	0.022
GDP final	-0.0107 *	0.006	-0.018 ***	0.007	-0.0135	0.009	-0.0064	0.009	-0.0063	0.009	0.0063	0.006
Industrial production	-0.0157 ***	0.005	-0.043 ***	0.011	-0.0251	0.017	-0.0023	0.003	-0.0023	0.003	-0.0032	0.005
Capacity utilization	-0.0017	0.004	-0.003	0.005	0.0015	0.003						
Dept. and super mkt sales value	-0.0021	0.003	0.001	0.004	-0.0088	0.019	-0.0060	0.004	-0.0072 *	0.004	-0.0019	0.003
Overall spending	-0.0041	0.003	-0.025 **	0.011	-0.0064	0.010	-0.0011	0.003	-0.0016	0.003	0.0011	0.002
Machinery orders	-0.0029	0.002	0.005	0.004	-0.0190 ***	0.007	-0.0036	0.003	-0.0046 *	0.003	-0.0034	0.005
Construction orders	-0.0001	0.001	0.000 ***	0.001	-0.0015	0.004	0.0036 ***	0.000	0.0036 ***	0.000		
Trade balance	-0.0095 ***	0.003	-0.004	0.004	0.0030	0.006	-0.0169 ***	0.004	-0.0169 ***	0.005	-0.0073 **	0.004
Current account	-0.0096 ***	0.003	-0.012 ***	0.005	-0.0107	0.023	-0.0079 *	0.004	-0.0085 **	0.004	-0.0034 *	0.002
Retail trade	-0.0072 *	0.004	-0.018 *	0.011	0.0102	0.016	-0.0021	0.003	-0.0025	0.003	-0.0025	0.003
Consumer price index	-0.0051	0.003	-0.013 ***	0.005	-0.0087	0.011	0.0059	0.005	0.0049	0.005	0.0064	0.004
Producer price index	-0.0053	0.004	-0.009	0.006	-0.0011	0.004	-0.0052	0.006	-0.0053	0.006	-0.0129	0.012
Leading economic index	0.0006	0.001	0.000	0.001	-0.0351	0.071	0.0012 *	0.001	0.0013 *	0.001	0.0010 ***	0.000
Consumer confidence index	0.0002	0.002	-0.029	0.033	-0.0277	0.039	0.0000	0.002	0.0000	0.002	0.0009	0.002
TANKAN large manufacturing	-0.0183	0.020	-0.047 ***	0.012	0.0227 ***	0.008	-0.0003	0.009	-0.0015	0.010	0.0054	0.005
TANKAN large non-manufacturing	-0.0231	0.017					-0.0159	0.023	-0.0161	0.023	0.0141	0.014
R-squared	0.0008		0.0011		0.0004		0.0065		0.0050		0.0479	
adj R-squared	0.0008		0.0011		0.0003		0.0065		0.0050		0.0479	

Note: Same as Table 3.