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# The Great East Japan Earthquake and its Short-run Effects on Household Purchasing Behavior

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## The Great East Japan Earthquake and its Short-run Effects on Household Purchasing Behavior\*

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#### 1. Introduction

The powerful earthquake that hit Japan on March 11, 2011, not only devastated towns and villages in the northeastern region, but also caused disrupted economic activities, affecting millions of firms and households far beyond the disaster-stricken areas. There has been a systematic effort to assess the direct damages caused by the Great East Japan Earthquake; however, few studies have attempted to empirically examine its economic consequences beyond the northeastern regions.

In particular, during the week immediately following March 11, the media widely reported severe shortages of essential goods—most notably, oil, batteries, flashlights, rice, bottled water, and toilet paper—in the areas that were not directly affected by the disaster. In Tokyo and other eastern cities, people encountered empty shelves, long waiting lines, and quantity restrictions (such as "one item per customer") in major supermarkets. As the shortage of goods became a national concern, on March 14, the minister of consumer affairs made a public plea to refrain from "hoarding." The shortages were primarily demand driven, specifically, a sudden increase in consumer demand as households faced greater future uncertainty with continuing aftershocks and unfolding nuclear power plant failures. At the same time, there were supply-side shocks to many commodities—most notably, milk, yogurt, fermented soybeans, and bottled water—due to

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damaged production facilities, disrupted supply chains, and power shortages, resulting in large excess demand for the affected goods.

Even though anecdotal evidence abounds, we know very little about the actual effects of the 3/11 disaster on consumer behavior. To what extent did consumers increase their purchase after the earthquake? If the excess demand was resolved through some mechanisms of rationing, then did it create any discrepancy between those consumers who could stockpile goods and those who could not? In this paper, we take advantage of high-frequency micro panel data provided by Intage to investigate the short-run effects of the 3/11 earthquake on household purchasing patterns. To our knowledge, this is the first study to empirically examine the short-run effects of a large disaster on consumer behavior.

The main findings of the paper are as follows:

- (1) In the eastern prefectures not directly affected by the disaster, household expenditure on storable foods rose sharply in the week following March 11. However, the spike in the expenditure was temporary.
- (2) Despite the excess demand induced by the disaster, the food price index increased slowly and modestly. In other words, household expenditures in the eastern area increased, not owing to higher prices, but primarily owing to larger quantities purchased.
- (3) We use a model of consumer purchase with inventory to investigate the effects of the disaster on stockpiling behavior. We find that the number of major tremors experienced by households had *negative* effects on the likelihood of making any purchase in the week following March 11 but *positive* effects on the amount of purchase in that week conditional on making a purchase. We also find that, compared to the average household, households with a young child had a *lower* likelihood of making any purchase in response to the disaster, while an increase in food expenditure in response to the disaster was *smaller* for households with a working wife.
- (4) Although we cannot distinguish households who intended not to purchase any foods from those who intended but could not, our results suggest that households with higher opportunity costs of shopping were more likely to be "rationed out" and could not purchase foods. In other words, the disaster and resulting shortages of essential goods might have increased the discrepancy between those households who were able to stockpile foods and those who could not.

The rest of the paper is structured as follows: in Section 2, we describe the Great East Japan Earthquake and show the geographical distribution of its seismic impact; in Section 3, we present the data; in Section 4, we examine the responses of commodity prices to the disaster; in

Section 5, after introducing an inventory model of consumer purchase, we provide empirical analyses of household purchasing behavior; and Section 6 concludes this paper.

#### 2. The Geography of the Great East Japan Earthquake

A powerful earthquake hit the northeastern region of Japan on Friday, March 11, 2011, at 2:46 pm. According to a seismic intensity measure defined by the Japan Meteorological Agency, Miyagi, the prefecture closest to the epicenter, recorded the maximum intensity of 7 (equivalent to magnitude 9.0 on the Richter scale). It was the fourth largest earthquake in the world since 1900. In Fukushima, Ibaraki, and Tochigi, the recorded intensity was the second highest, higher than 6 on the Richter scale. The seismic intensity in Tokyo was higher than 5. Although Tokyo escaped direct damages, about 20% of the workers in central Tokyo could not return to their homes on the day of the earthquake owing to disrupted transportation services.

As the epicenter was 130 km from the seashore, within 40 minutes enormous tsunami followed the earthquake and devastated the Pacific coastal areas of the Iwate, Miyagi, and Fukushima prefectures. Because of the failures of the nuclear power plants in Fukushima and the resulting electric power shortages, the government announced (and partially implemented) scheduled rolling blackouts in the areas that were supplied electricity by the Tokyo Electric Power Company from March 14 to March 28.

After the huge earthquake on March 11, numerous large aftershocks hit the eastern part of Japan. **Figures 1-(a)** to **1-(c)** show the number of "major" tremors, defined by a tremor of seismic intensity greater than 3, in two-week intervals in each prefecture. Note that, as we define Week 2 as the second week of January 2011 starting with Friday (i.e., Friday, January 7–Thursday, January 13), March 11 (Fri.) corresponds to the first day of Week 11.

**Figure 1-(a)** shows the number of major tremors in Weeks 8 and 9, representative weeks before the 3/11 earthquake, indicating that only two prefectures experienced major tremors. The frequency skyrocketed in Weeks 11 and 12, and almost all prefectures in eastern Japan experienced more than 10 major tremors in these two weeks (see **Figure 1-(b)**). In Iwate, Miyagi, Fukushima, and Ibaraki, more than 20 major tremors were observed in Week 11 alone. By contrast, the western half of Japan experienced no tremors greater than intensity 3. As shown in **Figure 1-(c)**, many eastern prefectures continued to experience major aftershocks in Weeks

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<sup>&</sup>lt;sup>1</sup> The data on the frequency and intensity of tremors were obtained from the Japan Meteorological Agency. The weekly frequency of major tremors is reported in **Appendix Table A1**.

#### 13 and 14.

As shown above, the intensity and the frequency of the 3/11 earthquake and its aftershocks differed substantially across prefectures. In the subsequent analysis, we take advantage of the geographical heterogeneity of the major aftershocks. For the purpose of analysis, we define three areas, "Directly Affected Area," "East," and "West," as shown in **Figure 2**. "Directly Affected Area" consists of four prefectures, Iwate, Miyagi, Fukushima, and Ibaraki, that received major damages from the earthquakes, tsunami, and nuclear power plant failures. In the following consumer behavior analysis, we exclude "Directly Affected Area" as consumers in this area were under extreme conditions. "East," our treatment region, consists of seven prefectures that were *not* directly affected by the disaster, but nonetheless experienced at least one major tremor in Weeks 11 and 12 and were subject to rolling blackouts, including Tokyo, Kanagawa, Chiba, Yamanashi, Gunma, Saitama, and Shizuoka. "West," our control region, consists of all prefectures that experienced no major tremor in Weeks 11 and 12, including Fukui, Toyama, Shiga, Mie, and all prefectures to the west of Mie, excluding Okinawa. Regression analysis using prefecture-level data below are performed with the data for all prefectures except "Directly Affected Area" and Okinawa.

#### 3. Data

In this paper, we use two data sets, consumer panel data (hereafter SCI) and retail panel data (hereafter SRI) provided by Intage, a leading market research company in Japan, to support research on the impact of the 3/11 earthquake.

SCI contains the daily shopping information of approximately 12,000 households, randomly selected from all prefectures (except Okinawa) in Japan. The sample households are restricted to married couples. Using a barcode reader, households are asked to scan the barcode of every commodity they purchase, and scanned data are automatically transmitted to Intage's datacenter. In SCI, for every commodity purchased, we can observe: (1) Japanese Article Number (JAN), a unique commodity identifier, (2) date of purchase, (3) price and quantity, and (4) store name from which the commodity was purchased. The data cover more than 10,000 commodities in 214 commodity categories comprising 146 categories of processed foods (e.g., rice, pasta, milk, sugar, condiments, and canned or frozen foods) and 68 categories of basic goods (e.g., toiletries, kitchen equipment, and cleaning tools).<sup>2</sup> Fresh foods (e.g., meat, fish, and vegetables) without

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<sup>&</sup>lt;sup>2</sup> Abe and Niizeki (2010) provide detailed comparisons between SCI and official consumption surveys (based on diaries) and show that the two datasets exhibit similar age-consumption patterns in most

barcodes are excluded. We can also observe basic households characteristics, such as the ages of husband and wife, household income, education, household size and composition, and the prefecture of residence. The data is for the period from January 1 to May 31, 2011

SRI contains weekly transaction data from approximately 2,600 retail stores located in all prefectures in Japan. It covers multiple types of retail stores, including general merchandise stores, convenient stores, discount stores, drug stores, and individual stores. In SRI, for each store and for each commodity, we can observe (1) JAN, a unique commodity identifier, (2) week of transaction, (3) total quantity sold, (4) total sales, (5) store location, and (6) store type. In addition, we obtain more detailed commodity information for five categories (rice, cup noodles, natto, milk, yoghurt, and bottled water). The data corresponds to the period from the first week of January (Week 1) to the last week of May 2011 (Week 22). We drop Week 1 observations from our sample, as household expenditures deviate from normal patterns during the New Year holidays in Japan.

#### 4. The Short-run Responses of Expenditures and Prices

To check whether consumers increased their purchases in response to the 3/11 earthquake, we first look at the movements of household expenditures using SCI daily data. In **Figure 3**, we plot the average household food expenditure (expressed in 1,000 yen) in "East" and "West," as defined above, from January 8 to May 22. Throughout the sample period, in both East and West, we observe a spike in food expenditures on every weekend. In East, food expenditures fell sharply on March 11, then rose dramatically during three days after the earthquake, from March 12 (Sat.) to 14 (Mon.), and then declined to a level below the pre-disaster average during the rest of March. By contrast, in West, food expenditure patterns change little before and after March 11.

Next, in **Figure 4**, using SCI weekly data, we compare the movements of food expenditures in four major prefectures—Hokkaido, Tokyo, Osaka, and Fukuoka (see **Appendix Figure 1** for their locations. For each prefecture, we normalize the average expenditure in the pre-disaster weeks (Weeks 2–10) to be unity. In Tokyo, the expenditure in Week 11 (March 11–17) increased by 22% compared to the pre-disaster average and then declined to a level lower than the pre-disaster level for many weeks. Although the expenditures in Hokkaido and Osaka exhibit similar patterns, their changes were modest in comparison to Tokyo. In Fukuoka, which is about 1,000 km away from the epicenter, the average expenditure did not respond to the earthquake.

categories.

Although not shown in **Figure 4**, in the directly affected prefectures such as Iwate and Miyagi, household expenditures fell in Week 11 and declined further in Week 12, showing patterns that were different from the rest of Japan. It suggests that consumers in the directly stricken areas had difficulty in purchasing enough goods to maintain a pre-disaster level of consumption. Owing to a large decline in the number of sample households reporting the data after March 11 in these prefectures, it is difficult to examine their conditions in detail.

According to **Figures 3** and **4**, household expenditures surged immediately in response to the 3/11 disaster in the eastern prefectures outside the Directly Affected Area. However, this per se is not an evidence of "hoarding" behavior, since a surge in expenditures could result from higher prices. Therefore, it is important to investigate changes in commodity prices.<sup>3</sup>

When constructing a price index, we need to compute the rate of price change for each commodity. That is, for both base and comparison weeks, we need information on commodity prices. Unfortunately, the sample size of SCI was not large enough to compute category-level price index, as we encountered zero transactions for many commodities. Therefore, we used the SRI data to construct a price index at the category level.

Using the SRI weekly data, we computed the Fisher price index for foods in the four major prefectures, using Week 2 as the base week.<sup>4</sup> As shown in **Figure 5**, in Tokyo, the food price index increased by 1.4% in Week 11 when the average food expenditure rose by 21% according to **Figure 4**. The food price index in Tokyo increased by 5.0% by Week 13 and subsequently began to decline, but remained at a slightly higher level than the pre-disaster level during the rest of the sample period. In Hokkaido, the food price rose by 1.0% in Week 11, when the food expenditure rose by 12%. In Osaka and Fukuoka, there is no clear change in the food price levels. In other words, despite the presence of excess demand for a wide range of goods after the disaster, commodity prices responded only slowly and to a small extent.

More detailed analysis revealed that within-store commodity prices increased only by a maximum of 4–5% even for those commodity categories for which excess demand was large (e.g., cup noodles, milk, and bottled water).<sup>5</sup> This indicates that retail stores tended not to raise

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<sup>&</sup>lt;sup>3</sup> In a separate paper, we examine the effects of the 3/11 disaster on commodity prices in detail using SCI and SRI data. See Abe, Moriguchi, and Inakura (2012) for more analysis.

<sup>&</sup>lt;sup>4</sup> We follow Ivancic et al. (2011) when constructing Fisher, Laspeyres, and Paasche price indexes. See **Appendix Figure 2** for the comparisons of the three indexes.

<sup>&</sup>lt;sup>5</sup> The results are reported in Abe, Moriguchi, and Inakura (2012).

their commodity prices despite the sudden increase in demand, and chose rationing by queue or quantity restrictions to allocate scarce commodities to their customers. As many consumers shifted their demand to stores with higher prices<sup>6</sup> or to similar but higher-priced commodities, category-level prices increased more than commodity-level prices for these categories with large excess demand.

In **Table 1**, we compare the change in the food price index from Week 10 to Week 11 in "East" and "West" (For robustness, the results for Laspeyres, Paasche, and Fisher price indexes are shown). The weekly inflation rate in food price in East, measured by Laspyres price index, was 1.9%, while that in West was -0.5%. The two rates, however, are not significantly different in the statistical sense. When we categorize foods into "staple" foods (rice, bread, noodles, flour, and pancake mix) and "non-staple" foods (all the rest), the inflation rate of staple foods was significantly higher in East (4.4%) than in West (-4.5%) when measured in Paasche index. There was no significant difference in the inflation rates of non-staple foods. Although we observe a significant difference in some cases, overall, the rate of price increase in East was rather small and not much higher than that in West.

#### 5. The Effects of the 3/11 Disaster on Household Expenditure Patterns

#### 5.1 A Model of Consumer Purchase with Inventory

In the previous section, we observed that the responses of commodity prices to the 3/11 shocks were surprisingly modest. In other words, the surge in household expenditures in Week 11 observed in East was primarily due to an increase in the quantity purchased. To understand households' short-run responses to the disaster better, we consider a dynamic model of consumer purchase with inventory, developed by Erdem et al. (2003) and Hendel and Nevo (2006a, b). In this model, a good is assumed to be storable and consumers decide the timing and the amount of purchase given a stochastic price process. For storable goods, because the time of consumption can differ from the time of purchase, the expenditures tend to concentrate during the period of low prices. A simulation by Erdem et al. (2003) using the data for ketchup shows that consumer expenditures surge during bargain sales and fall in subsequent periods. High frequency data, such as ours, are particularly useful in investigating consumers' stockpiling behavior.

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<sup>&</sup>lt;sup>6</sup> Many commodities are sold at different prices across stores. In general, convenience stores charge higher prices than discount stores for the same commodity.

To see if such a model is applicable to our data, we first compare actual household expenditures on storable goods and non-storable goods. In **Figures 6-(a)** to **6-(f)**, we show the movements of expenditures on six food categories in East in contrast to West. As before, we normalize the average expenditure in Weeks 2–10 to be unity. Of the six categories, rice, cereal, and flour are storable, while bread, tofu, and ham are perishable. Compared to West, the household expenditures on storable foods in East show a clear *spike* in Week 11 and then a decline to a level *lower* than the pre-disaster average. This is consistent with the predictions of the inventory model of consumer purchase described above. For perishable foods, the household expenditures in East increased only slightly in Week 11.

In the following analysis, rather than focusing on a specific commodity category and developing a nonlinear dynamic model, we analyze a composite good by aggregating commodity categories and conduct a reduced form analysis.<sup>7</sup> To be concrete, we analyzed three composite goods, namely, all foods, staple foods (rice, bread, cereal, noodles, flour, pancake mix), and non-staple foods. **Table 2** provides descriptive statistics of weekly expenditures on these goods from Week 2 to Week 21. Most notably, the average expenditure on staple foods in East rose by 61% from 800 yen to 1,287 yen in Week 11 (March 11–17). Not only the level, but also the variance of household expenditures on staple foods increased in Week 11, suggesting that the heterogeneity across households increased after the disaster (see **Appendix Table 2**).

**Table 3** provides the covariance structures of the weekly changes in the expenditures of foods, staple foods, and non-staple foods. For all goods, the autocorrelation with its first lag is about -0.5, suggesting strong negative relationships between current and future expenditure growths. Note that, if expenditure follows a random walk, the first autocorrelation should be zero. The negative autocorrelations shown in **Table 3** are similar to those obtained by Erdem et al. (2003) in their model. In the following analysis, we treat the three composite goods (foods, staple foods, and non-staple foods) as storable goods, and use a model of home inventory.

#### 5.2 Estimating the Effects of the 3/11 Disaster on Stockpiling Behavior

Previous research on the determinants of optimal home inventory (Erdem et al., 2003; Hendel and Nevo, 2006a, b) has focused on the effects of uncertainty about future prices. In the case of the 3/11 disaster, however, we expect sudden and profound shifts in households' perception of

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<sup>&</sup>lt;sup>7</sup> Existing studies, such as Erdem et al. (2003) and Hendel and Nevo (2006b), focus on a few categories, such as ketchup or detergent and estimate dynamic consumer choice using a nonlinear model. To implement this, however, we need information on the dynamic processes of multiple commodity prices and unobservable preference shocks.

future uncertainty after the disaster. In the days following March 11, it must be noted that: (1) numerous aftershocks were raising the fear of future major earthquake; (2) nuclear power plant accidents were still unfolding with consecutive hydrogen explosions on March 12, 14, and 15; (3) to prevent major electric power failures, the government released a daily schedule for rolling blackouts, creating much confusion; and (4) the shortages of essential goods were widely reported with a rumor of people engaging in "hoarding." We assume that all of these factors influenced consumers' subjective assessments over future uncertainty and led them to re-optimize the level of inventory to maintain a sufficient level of future consumption.<sup>8</sup>

First, we postulate that a household's subjective assessment of future uncertainty increases with the number of major tremors experienced. If so, the households experiencing more tremors would raise their optimal inventory level to a greater extent and increase their expenditures accordingly. To test this hypothesis, we use prefecture-level variations in the weekly frequency of major tremors of intensity greater than 3 (presented in **Appendix Table 1**). It is important to emphasize that in the subsequent regression analyses, we drop observations after Week 11. As we have shown, many eastern prefectures continued to experience major aftershocks in Week 12 and beyond (see **Figure 1-(c)**), which in itself should further increase household expenditures in these prefectures. At the same time, however, there are strong negative autocorrelations in expenditure growths (see **Table 3**) indicating that those households that increased expenditures in Week 11 should reduce expenditures in Week 12. As a result, without knowing the level of home inventory in Week 11, we cannot identify the effects of major tremors in Week 12. As we drop the observations in Weeks 12–21 from the following analyses, we focus on the effects of the major tremors on the expenditure increase in Week 11.

As the base specification, we estimate the following equation regarding the change in weekly expenditure,  $\Delta E_{it}$ , of household *i* in week *t* (t = 4, 5, ..., 11):

$$\Delta E_{it} = c^E + \alpha_1^E Tremors_{it} + \beta^E X_{it} + T_t + \varepsilon_{it}^E$$
(1)

where c is a constant,  $Tremors_{it}$  is the square root of the number of major tremors household i experienced in week t;  $X_{it}$  is a vector of household characteristics (household income, wife's age and work status, household size and composition); and  $T_t$  is time effects captured by week

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According to an internet survey conducted by Prof. Shigeo Tachiki of Doshisha University in April 2011 among 3,643 consumers (all residing outside the disaster-stricken areas) who increased the volume of purchase of some goods during the week following March 11, 48% replied that the reason for this behavior was "to prepare for power shortages and water supply disruptions" (multiple answers allowed), 32% said it was "to prepare for future disaster evacuation," 31% said it was "to feel assured in fear of future disaster," and 25% said that it was "to increase stockpiles for new disaster." About 10% replied that they increased purchases because they felt anxious on hearing about other people hoarding.

#### dummies.

Next, we investigate the heterogeneity across households in purchasing behavior after the disaster. Recall that the price index did not increase much in Week 11. This suggests that temporary excess demand induced by the disaster was resolved mainly through quantity adjustments, most notably, "rationing by waiting" and "quantity restrictions." Under these allocation mechanisms, we expect that households with lower opportunity costs of shopping can purchase a higher quantity of scarce commodities (by lining up or visiting many stores). In a recent study, Aguiar and Hurst (2007) show that the opportunity costs of shopping play a major role in optimal consumption decisions by using husband's retirement status as a proxy for the opportunity costs. In our analysis, we focus on two variables: the presence of an infant and the wife's work status. We postulate that households with at least one infant (child of age 0–3) have higher opportunity costs of shopping than those without. Similarly, we postulate that households with a wife working full-time have higher opportunity costs of shopping than those with a wife not working or working part-time. <sup>10</sup>

To further investigate household purchasing behavior, we introduce two additional variables: shopping frequency and shopping interval. Shopping frequency is the number of purchases a household makes in a week (see **Appendix Table 3** for descriptive statistics). Because we observe only the date of purchase and the name of store from which the purchase was made, however, we compute shopping frequency assuming that a household makes purchases from the same store only once a day. Moreover, note that if a household visited a store but did not make any purchases (this may happen when goods are sold out), then it is not counted as shopping.

Shopping interval is measured in weeks and captures the number of weeks that passed since the last purchase (see **Appendix Table 4** for descriptive statistics). If a household purchases food every week, the interval is one. However, for storable foods, especially rice and pasta, many households do not make purchases every week. In general, a longer shopping interval is associated with a higher likelihood of purchase in the current week. As such, it is important to control for shopping interval while analyzing the effects of the disaster on subsequent shopping behavior.

To investigate household heterogeneity in response to the disaster, we estimated the following equation:

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<sup>&</sup>lt;sup>9</sup> For recent empirical analysis of rationing by queuing, see Batabyal and DeAngelo (2012).

<sup>&</sup>lt;sup>10</sup> According to the 2005 Census data, 50% of married women under the age of 35 in Japan do not have any paid job—a remarkably high number for developed countries.

$$\Delta E_{it} = c^{E} + \left(\alpha_{1}^{E} + \alpha_{2}^{E} Infant_{i} + \alpha_{3}^{E} Fulltime_{i} + \alpha_{4}^{E} Shopping_{it}\right) \times Tremors_{it} + \beta^{E} X_{it} + T_{t} + \varepsilon_{it}^{E},$$
(2)

where  $Infant_i$  and  $Fulltime_i$  are dummy variables that indicate the presence of an infant and a wife working full-time in household i, respectively, and  $Shopping_i$  is the number of purchases (shopping trips) made by household i in week t. We interact each of these variables with the number of tremors experienced by household i.

**Table 4** presents descriptive statistics of the variables used in the regressions. In our sample, 12.5% of households have an infant and 14.5% of households have a wife working full-time. The average household purchases foods 3.0 times per week, while the average shopping interval for foods is 1.36 weeks or 9.5 days (note that if all households make purchases every week, the interval would be 1.0). It is important to note that the standard deviations for both shopping frequency and shopping interval are large, indicating that there is great heterogeneity across households in their purchasing patterns.

The estimation results for the three goods (all foods, staple foods, non-staple foods) are reported in Table 5. In almost all specifications, the number of major tremors has large, positive, and significant effects on the changes in expenditures. (The effects for non-staple foods are smaller and less significant than those for staple goods.) That is, households who experienced more major aftershocks in Week 11 stockpiled more food. On examining the effects of household characteristics in specification (10), the wife's work status and the presence of an infant have little effect on the expenditures for staple goods in the pre-disaster weeks. The coefficients of the interaction terms, Infant × Tremors and Fulltime × Tremors, however, are large, negative and significant. It shows that, compared to the average household that increased the weekly expenditure on staple foods by 66 yen in response to major tremors, the households with a working wife and those with an infant increased their expenditures only by 30 yen and 39 yen, respectively. The coefficient of Fulltime × Tremors is smaller in specification (10) compared to specification (9), suggesting that the households with a working wife did not increase their expenditures on staple foods in Week 11 as much partly because they had lower frequency of shopping. The same is true for non-staple foods. For the households with an infant, by contrast, the results for staple foods and non-staple foods seem qualitatively different.

#### 5.3 Considering the Extensive and Intensive Margins of Purchasing Behaviors

To see the changes in purchasing patterns more clearly, we decompose the changes in

expenditures in Week 11 into extensive and intensive margins. Consider a household that usually purchases rice every other week. If the household purchased rice in Week 10, the next purchase would not occur in Week 11. If the 3/11 disaster suddenly raised the desired level of rice inventory, however, the household would purchase rice in Week 11. In this case, an increase in the expenditure happens through a change in extensive margin. By contrast, consider a household that usually purchases rice every week. Then, to raise the level of rice inventory after the disaster, the household will increase the weekly expenditure in Week 11. In this case, an increase in the expenditure happens through a change in intensive margin.

For extensive margin, we estimate the following equation:

$$S_{it} = c^{S} + (\alpha_{1}^{S} + \alpha_{2}^{S} Infant_{i} + \alpha_{3}^{S} Fulltime_{i} + \alpha_{4}^{S} Interval_{it}) \times Tremors_{it}$$
  
+  $\beta^{S} X_{it} + \delta^{S} Interval_{it} + H_{i} + T_{t} + \varepsilon_{it}^{S},$  (3)

where  $S_{it}$  is extensive margin defined by an indicator variable that takes unity when positive expenditure is observed for household i in week t;  $Interval_{it}$  is shopping interval defined by the number of weeks since the last purchase made for household i in week t; and  $H_i$  is household fixed effects. Shopping frequency is not included because it perfectly predicts the dependent variable, extensive margin.

Intensive margin is defined by:

$$G_{it} = \frac{E_{it} - E_{ik < 11} \left[ E_{ik} | S_{ik} = 1 \right]}{E_{ik < 11} \left[ E_{ik} | S_{ik} = 1 \right]},$$

where  $E_{it}$  is expenditure and  $S_{it}$  is extensive margin of household i in week t. The denominator is the average of weekly expenditures conditional on positive expenditure during the pre-disaster weeks (Weeks 4–11). The numerator is the gap between the actual expenditure of household i in week t and the conditional average. For intensive margin, we estimate the following equation:

$$G_{ii} = c^{G} + (\alpha_{1}^{G} + \alpha_{2}^{G} Infant_{i} + \alpha_{3}^{G} Fulltime_{i} + \alpha_{4}^{G} Shopping_{ii} + \alpha_{5}^{G} Interval_{ii}) \times Tremors_{ii}$$

$$+ \beta^{G} X_{ii} + \gamma^{G} Shopping_{ii} + \delta^{G} Interval_{ii} + T_{i} + \varepsilon_{ii}^{G},$$

$$(4)$$

where  $I_{it}$  is shopping interval defied above and  $Shopping_{it}$  is shopping frequency defined by the number of purchases made by household i in week t.

The descriptive statistics of extensive and intensive margins are provided in **Appendix Tables 5** and **6**. With respect to extensive margins, in East, observe that the ratio of households making

<sup>&</sup>lt;sup>11</sup> We use a linear probability model with household fixed effects rather than a probit model.

any purchase of foods was 80% in Week 10 and declined to 77% in Week 11, while no such decline was observed in West. With respect to intensive margins, for staple foods in Week 11, we observe not only a large spike in East but also a smaller but clear increase in West.

**Table 6** presents the estimation results of extensive margins. In all specifications, the number of major tremors has negative effects on extensive margins<sup>12</sup>. It implies that the 3/11 disaster reduced the probability of households making any purchase. According to specification (3), for staple foods, an increase in the square root of tremors by one reduces the probability of shopping in Week 11 by 1.2%, while an increase in shopping interval by one week increases the probability of shopping by 7.2%. When the interaction term *Interval×Tremors* is added in specification (4), its coefficient is negative and significant. This means that the 3/11 disaster dampened the positive effects of shopping interval on the probability of shopping. When we examine household characteristics in specifications (7)–(12), the coefficient of *Infant*×*Tremors* is negative and significant in most specifications, while the coefficient of Fulltime × Tremors is not significantly different from zero in all specifications. <sup>13</sup> In other words, the households with an infant exhibited a greater reduction in the probability of shopping for both staple and non-staple foods in Week 11 in response to the disaster. To summarize, the 3/11 disaster reduced the likelihood of making any purchase in Week 11 for all households on average, and this effect was stronger for the households with an infant (but not for the households with a working wife).

The estimation results of intensive margins are reported in **Table 7**. In sharp contrast to the extensive margins, in all specifications, the effects of the number of major tremors on intensive margins are *positive*, large, and significant. In other words, conditional on households making a purchase in Week 11, expenditure was higher for the households experiencing major tremors. In specification (3), for staple foods, an increase in the square root of tremors by one increases the expenditures in Week 11 by 9.6%, while an increase in shopping interval by one week increases the probability of shopping by 2.7%. For all foods in specifications (7) and (8), the coefficient of *Infant×Tremors* is positive and significant, while that of *Fulltime×Tremors* is negative and significant. When we decompose foods into staple and non-staple foods, the coefficient of *Infant×Tremors* is effectively zero for staple foods (see specifications (9) and (10)), but positive and significant for non-staple foods (see specifications (11) and (12)). By contrast, the

<sup>&</sup>lt;sup>12</sup> Although the effect of tremors turns positive in specifications (4) and (10), it does not imply that the disaster raised the probability of shopping. Rather, the negative effect of the interaction term *Interval*×*Tremors* dominates the effect of tremors, as the minimum value of shopping interval is one.

Note that, because we include household fixed effects, the effects of household characteristics are identified only through the interaction terms.

coefficients of *Fulltime*×*Tremors* are negative but not significant for both staple and non-stale foods. These results suggest that, in response to tremors, conditional on household making a purchase, the households with an infant increased the expenditure on non-staple foods (but not on staple foods) more than the average household did, whereas the households with a working wife increased their food expenditures to a smaller extent than the average households.

To summarize our regression results, the experience of major tremors has positive impacts on the change in the average expenditure in Week 11 and on the expenditure conditional on making a purchase, but negative impacts on the probability of making a purchase during Week 11. Together, it implies that after the disaster some households did not make any purchase of foods at all while other households went shopping and purchased more foods than the pre-disaster level. Unfortunately, we cannot distinguish from the data whether those households who did not make any purchases did so because (a) they did not need to shop, (b) they could not go shopping (due to higher opportunity costs), or (c) they went shopping but could not buy desired goods (because they were sold out). Upon looking into household heterogeneity in response to the disaster, we find that, for the households with a wife working full-time, their probability of purchasing any foods in Week 11 in response to tremors was no lower than the average households, but conditional of purchasing, the increases in their food expenditure were smaller in general. For the households with an infant, they were more likely to make no purchase in Week 11 in response to major tremors, but conditional on purchasing, their expenditures on non-staple goods were greater. Assuming that these households have higher opportunity costs of shopping or higher costs of searching for goods, they most likely fall in the category (b) or (c). If a number of households were "rationed out" despite their willingness to purchase being high, it may have important welfare implications.

#### 6. Concluding Remarks

One year has passed since the Great East Japan Earthquake, and yet, we are far from understanding its wide and profound impact on the Japanese economy. The number of serious empirical studies on the subject has been limited, owing largely to the difficulty in obtaining data. In this paper, we use rich high-frequency micro data to investigate the short-run effects of the 3/11 disaster on consumer purchasing behavior. We find strong evidence of stockpiling, but at the same time, our results suggest that the disaster might have created a measurable discrepancy between households who could stockpile staple foods and those who could not.

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Table 1: Comparisons of Changes in Price Indexes in Week 11

|              |          | East    | West    | t-statistics |
|--------------|----------|---------|---------|--------------|
|              | Laspyres | 0.0186  | -0.0045 | 1.35         |
|              |          | (0.016) | (0.007) |              |
| Foods        | Paasche  | 0.0266  | -0.0057 | 1.40         |
| roods        |          | (0.021) | (0.008) |              |
|              | Fisher   | 0.0226  | -0.0051 | 1.40         |
|              |          | (0.018) | (0.007) |              |
|              | Laspyres | 0.0376  | -0.0185 | 1.34         |
|              |          | (0.037) | (0.021) |              |
| Stanla Foods | Pasache  | 0.0441  | -0.0451 | 1.72*        |
| Staple Foods |          | (0.045) | (0.026) |              |
|              | Fisher   | 0.0408  | -0.0316 | 1.56         |
|              |          | (0.041) | (0.023) |              |
|              | Laspyres | 0.0147  | 0.0014  | 1.22         |
|              |          | (0.009) | (0.006) |              |
| Non Staple   | Pasache  | 0.0207  | 0.0063  | 1.52         |
| Foods        |          | (0.008) | (0.005) |              |
|              | Fisher   | 0.0177  | 0.0039  | 1.42         |
|              |          | (0.008) | (0.005) |              |

Note: Standard deviations are in parentheses.

t-statistics for the mean differences between East and Western part of Japan are reported.

The base period for the Laspyres index is Week 9.

Staple foods include rice, bread, noodle, cereal, flour, and pancake mix.

<sup>\*:</sup> significant at 10 %.

**Table 2: Descriptive Statistics of Weekly Expenditures on Foods** 

|       |       |       |        | East |       |         |      |        |       |        | West |      |         |      |        |       |        | All  |      |         |      |
|-------|-------|-------|--------|------|-------|---------|------|--------|-------|--------|------|------|---------|------|--------|-------|--------|------|------|---------|------|
| Week  | N     |       | Mean   |      |       | Std.dev |      | N      |       | Mean   |      |      | Std.dev |      | N      |       | Mean   |      |      | Std.dev |      |
|       | IN    | Foods | Staple | Else | Foods | Staple  | Else |        | Foods | Staple | Else | Food | Staple  | Else | IN     | Foods | Staple | Else | Food | Staple  | Else |
| 2     | 3853  | 3504  | 726    | 2777 | 3291  | 1127    | 2681 | 5063   | 3228  | 667    | 2561 | 3074 | 1011    | 2530 | 11312  | 3336  | 689    | 2647 | 3149 | 1055    | 2583 |
| 3     | 3853  | 3580  | 729    | 2852 | 3340  | 1050    | 2767 | 5063   | 3476  | 697    | 2779 | 3174 | 1048    | 2611 | 11312  | 3533  | 716    | 2816 | 3271 | 1082    | 2696 |
| 4     | 3853  | 3716  | 744    | 2972 | 3582  | 1099    | 2978 | 5063   | 3583  | 712    | 2871 | 3415 | 1016    | 2856 | 11312  | 3644  | 726    | 2918 | 3458 | 1066    | 2883 |
| 5     | 3853  | 4189  | 838    | 3351 | 3994  | 1240    | 3294 | 5063   | 3818  | 754    | 3065 | 3499 | 1077    | 2914 | 11312  | 3967  | 789    | 3178 | 3725 | 1179    | 3069 |
| 6     | 3853  | 3780  | 760    | 3020 | 3620  | 1056    | 3028 | 5063   | 3438  | 706    | 2731 | 3251 | 1055    | 2677 | 11312  | 3568  | 720    | 2848 | 3398 | 1057    | 2817 |
| 7     | 3853  | 3687  | 773    | 2915 | 3532  | 1134    | 2878 | 5063   | 3512  | 711    | 2801 | 3409 | 1189    | 2793 | 11312  | 3606  | 743    | 2863 | 3459 | 1169    | 2825 |
| 8     | 3853  | 3719  | 785    | 2933 | 3535  | 1133    | 2868 | 5063   | 3510  | 733    | 2778 | 3269 | 1111    | 2696 | 11312  | 3590  | 751    | 2839 | 3405 | 1141    | 2777 |
| 9     | 3853  | 4325  | 892    | 3433 | 4064  | 1292    | 3345 | 5063   | 3987  | 798    | 3189 | 3707 | 1204    | 3067 | 11312  | 4100  | 830    | 3270 | 3869 | 1285    | 3196 |
| 10    | 3853  | 3672  | 800    | 2872 | 3471  | 1164    | 2800 | 5063   | 3382  | 712    | 2671 | 3245 | 1072    | 2610 | 11312  | 3485  | 737    | 2749 | 3317 | 1097    | 2691 |
| 11    | 3853  | 4472  | 1287   | 3184 | 4492  | 1780    | 3256 | 5063   | 3472  | 793    | 2679 | 3318 | 1139    | 2672 | 11312  | 3922  | 1013   | 2908 | 3913 | 1533    | 2955 |
| 12    | 3853  | 3477  | 880    | 2598 | 3762  | 1458    | 2860 | 5063   | 3366  | 730    | 2636 | 3341 | 1103    | 2738 | 11312  | 3391  | 785    | 2606 | 3502 | 1275    | 2767 |
| 13    | 3853  | 3790  | 826    | 2964 | 4143  | 1453    | 3299 | 5063   | 3736  | 774    | 2963 | 3761 | 1267    | 3057 | 11312  | 3741  | 790    | 2950 | 3920 | 1334    | 3156 |
| 14    | 3853  | 3236  | 649    | 2587 | 3353  | 1007    | 2773 | 5063   | 3129  | 655    | 2474 | 3213 | 1198    | 2600 | 11312  | 3170  | 650    | 2519 | 3268 | 1137    | 2670 |
| 15    | 3853  | 3640  | 740    | 2900 | 3539  | 1127    | 2881 | 5063   | 3309  | 678    | 2631 | 3213 | 1062    | 2644 | 11312  | 3445  | 702    | 2743 | 3359 | 1153    | 2727 |
| 16    | 3853  | 3595  | 749    | 2846 | 3463  | 1131    | 2786 | 5063   | 3441  | 709    | 2732 | 3214 | 1017    | 2665 | 11312  | 3496  | 721    | 2775 | 3310 | 1075    | 2708 |
| 17    | 3853  | 3799  | 784    | 3015 | 3757  | 1154    | 3074 | 5063   | 3698  | 759    | 2939 | 3473 | 1154    | 2863 | 11312  | 3716  | 761    | 2955 | 3596 | 1169    | 2959 |
| 18    | 3853  | 3738  | 764    | 2975 | 3961  | 1255    | 3278 | 5063   | 3512  | 731    | 2780 | 3653 | 1163    | 2983 | 11312  | 3610  | 740    | 2871 | 3793 | 1198    | 3119 |
| 19    | 3853  | 3483  | 703    | 2780 | 3473  | 1044    | 2844 | 5063   | 3356  | 690    | 2665 | 3315 | 1042    | 2731 | 11312  | 3396  | 692    | 2704 | 3346 | 1062    | 2742 |
| 20    | 3853  | 3681  | 750    | 2931 | 3446  | 1115    | 2815 | 5063   | 3419  | 707    | 2712 | 3246 | 1016    | 2683 | 11312  | 3514  | 726    | 2788 | 3334 | 1142    | 2716 |
| 21    | 3853  | 4019  | 828    | 3191 | 3857  | 1153    | 3149 | 5063   | 3767  | 772    | 2995 | 3472 | 1095    | 2877 | 11312  | 3827  | 786    | 3041 | 3608 | 1140    | 2961 |
| Total | 77060 | 3755  | 800    | 2955 | 3707  | 1218    | 2997 | 101260 | 3507  | 724    | 2783 | 3374 | 1105    | 2773 | 226240 | 3603  | 753    | 2849 | 3514 | 1175    | 2861 |

Note: Staple foods include rice, bread, noodle, cereal, flour, and pancake mix.

The 3/11 is the first day of Week 11.

Table 3: Covariance Structure of Change Rate of Expenditures in Weeks 2-10 before 3/11

#### Foods

|                  | dln(Expense) | dln(Expense)[-1] | dln(Expense)[-2] | dln(Expense)[-3] | dln(Expense)[-4] | dln(Expense)[-5] |
|------------------|--------------|------------------|------------------|------------------|------------------|------------------|
| dln(Expense)     | 0.6525       | -0.3491          | 0.0219           | -0.0118          | 0.0208           | -0.0046          |
| dln(Expense)[-1] | -0.5402      | 0.6399           | -0.3415          | 0.0309           | -0.0061          | 0.0077           |
| dln(Expense)[-2] | 0.0338       | -0.5339          | 0.6393           | -0.3577          | 0.0265           | 0.0032           |
| dln(Expense)[-3] | -0.0181      | 0.0478           | -0.5546          | 0.6508           | -0.3516          | 0.0200           |
| dln(Expense)[-4] | 0.0320       | -0.0094          | 0.0412           | -0.5418          | 0.6471           | -0.3440          |
| dln(Expense)[-5] | -0.0072      | 0.0120           | 0.0049           | 0.0310           | -0.5336          | 0.6421           |

Number of observarions = 16726

#### Staple Foods

|                  | dln(Expense) | dln(Expense)[-1] | dln(Expense)[-2] | dln(Expense)[-3] | dln(Expense)[-4] | dln(Expense)[-5] |
|------------------|--------------|------------------|------------------|------------------|------------------|------------------|
| dln(Expense)     | 1.3806       | -0.7584          | 0.0671           | -0.0452          | 0.0722           | -0.0296          |
| dln(Expense)[-1] | -0.5532      | 1.3613           | -0.7372          | 0.0755           | -0.0328          | 0.0396           |
| dln(Expense)[-2] | 0.0494       | -0.5463          | 1.3374           | -0.7458          | 0.0735           | -0.0194          |
| dln(Expense)[-3] | -0.0331      | 0.0556           | -0.5546          | 1.3521           | -0.7458          | 0.0792           |
| dln(Expense)[-4] | 0.0529       | -0.0242          | 0.0547           | -0.5518          | 1.3508           | -0.7481          |
| dln(Expense)[-5] | -0.0217      | 0.0292           | -0.0144          | 0.0587           | -0.5545          | 1.3477           |

Number of observarions = 11267

#### **Non-Staple Foods**

| Tion Stapie 1 00 as |              |                  |                  |                  |                  |                  |
|---------------------|--------------|------------------|------------------|------------------|------------------|------------------|
|                     | dln(Expense) | dln(Expense)[-1] | dln(Expense)[-2] | dln(Expense)[-3] | dln(Expense)[-4] | dln(Expense)[-5] |
| dln(Expense)        | 0.7081       | -0.3702          | 0.0191           | -0.0203          | 0.0290           | -0.0041          |
| dln(Expense)[-1]    | -0.5299      | 0.6890           | -0.3627          | 0.0296           | -0.0123          | 0.0116           |
| dln(Expense)[-2]    | 0.0272       | -0.5244          | 0.6943           | -0.3837          | 0.0232           | 0.0060           |
| dln(Expense)[-3]    | -0.0287      | 0.0424           | -0.5475          | 0.7072           | -0.3793          | 0.0180           |
| dln(Expense)[-4]    | 0.0410       | -0.0177          | 0.0332           | -0.5368          | 0.7060           | -0.3720          |
| dln(Expense)[-5]    | -0.0059      | 0.0167           | 0.0086           | 0.0256           | -0.5304          | 0.6967           |

Number of observarions = 16538

Note: The first differences in household expenditures on foods, staple foods, and non-staple foods. The upper triangle shows the variance and covariance, while the lower triangle shows the correlation. The sample period covers Week 2-10.

**Table 4: Descriptive Statistics** 

|                             | N     | Mean    | St.d.  | Min | Max     |
|-----------------------------|-------|---------|--------|-----|---------|
| Sqrt (Frequency of Tremors) | 88496 | 0.1728  | 0.6511 | 0   | 4.7958  |
| Infant Dummy                | 88496 | 0.1246  | 0.3303 | 0   | 1       |
| Fulltime Dummy              | 88496 | 0.1445  | 0.3516 | 0   | 1       |
| Number of Shoppings         | 88496 | 2.9550  | 2.5751 | 0   | 23      |
| $\Delta$ shoppings          | 88496 | -0.0427 | 2.3417 | -19 | 19      |
| Shopping Interval of        |       |         |        |     |         |
| Foods                       | 88496 | 1.3607  | 1.0562 | 1   | 10      |
| Staple Foods                | 88496 | 1.5558  | 1.2695 | 1   | 10      |
| Non Staple Foods            | 88496 | 1.3654  | 1.0601 | 1   | 10      |
| Tremors×Infant              | 88496 | 0.0212  | 0.2363 | 0   | 4.7958  |
| Tremors×Fulltime            | 88496 | 0.0230  | 0.2441 | 0   | 4.7958  |
| Tremors×∆shoppings          | 88496 | -0.0185 | 1.5601 | -48 | 34.8569 |
| Tremors× Interval of        |       |         |        |     |         |
| Foods                       | 88496 | 0.2487  | 1.3269 | 0   | 47.9583 |
| Staple Foods                | 88496 | 0.2895  | 1.5691 | 0   | 47.9583 |
| Non Staple Foods            | 88496 | 0.2496  | 1.3310 | 0   | 47.9583 |

Note: Sample statistics of the variables used in Tables 5, 6 and 7.

Sample Periods: Week 4 - 11.

Number of tremors is the number of major tremors (more than 3 in seismic scale) observed in each prefecture each week. See the main text for definitions of other variables.

Table 5: The Effects of The 3/11 Disaster on the First Differences in Expenditures

|                                  | (1)                 | (2)                 | (3)                 | (4)                 | (5)                  | (6)                  | (7)                 | (8)                 | (9)                 | (10)                | (11)                 | (12)                |
|----------------------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|----------------------|---------------------|
|                                  | Δ Foods             | Δ Foods             | Δ Staple            | Δ Staple            | Δ Non Staple         | Δ Non Staple         | Δ Foods             | Δ Foods             | Δ Staple            | Δ Staple            | Δ Non Staple         | Δ Non Staple        |
| Week 11                          | -120.0**<br>(57.50) | -120.5**<br>(57.51) | 23.94<br>(21.32)    | 23.99<br>(21.33)    | -144.0***<br>(47.14) | -144.5***<br>(47.15) | -120.7**<br>(57.51) | -49.01<br>(44.15)   | 23.83<br>(21.33)    | 38.62**<br>(19.69)  | -144.6***<br>(47.15) | -87.62**<br>(37.45) |
| Tremor                           | 68.55***<br>(25.16) | 68.77***<br>(25.17) | 52.73***<br>(8.843) | 52.70***<br>(8.843) | 15.82<br>(20.81)     | 16.07<br>(20.82)     | 83.88***<br>(28.13) | 97.41***<br>(21.65) | 62.68***<br>(9.923) | 66.34***<br>(9.193) | 21.20<br>(23.24)     | 31.07*<br>(18.48)   |
| Infant × Tremor                  |                     |                     |                     |                     |                      |                      | 16.56<br>(50.16)    | 13.88<br>(42.13)    | -26.25<br>(17.19)   | -27.09*<br>(16.22)  | 42.81<br>(41.08)     | 40.98<br>(35.02)    |
| Fulltime × Tremor                |                     |                     |                     |                     |                      |                      | -128.3**<br>(57.46) | -69.14<br>(45.57)   | -50.11**<br>(21.12) | -36.49*<br>(19.68)  | -78.14*<br>(47.46)   | -32.64<br>(38.75)   |
| Δ Shopping Frequency<br>× Tremor |                     |                     |                     |                     |                      |                      |                     | -10.65<br>(9.169)   |                     | 4.256<br>(3.639)    |                      | -14.91*<br>(7.789)  |
| Infant Dummy                     |                     | -5.136<br>(44.43)   |                     | -0.242<br>(14.73)   |                      | -4.894<br>(36.88)    | -8.061<br>(45.53)   | -20.64<br>(34.75)   | 4.232<br>(15.04)    | 1.597<br>(13.92)    | -12.29<br>(37.84)    | -22.24<br>(29.50)   |
| Fulltime Dummy                   |                     | -11.23<br>(38.27)   |                     | -2.474<br>(13.58)   |                      | -8.758<br>(31.49)    | 9.434<br>(39.52)    | 10.07<br>(30.33)    | 5.608<br>(13.94)    | 5.721<br>(12.88)    | 3.826<br>(32.56)     | 4.346<br>(25.69)    |
| Δ Shopping Frequency             |                     |                     |                     |                     |                      |                      |                     | 1,077***<br>(6.292) |                     | 227.2***<br>(2.490) |                      | 849.8***<br>(5.307) |
| Constant                         | 40.97<br>(34.57)    | 66.55<br>(61.77)    | -5.760<br>(12.60)   | -2.950<br>(21.23)   | 46.73<br>(28.76)     | 69.50<br>(51.85)     | 64.37<br>(61.82)    | 45.34<br>(47.49)    | -4.505<br>(21.25)   | -8.537<br>(19.85)   | 68.88<br>(51.88)     | 53.88<br>(40.88)    |
| Model                            | OLS                 | OLS                 | OLS                 | OLS                 | OLS                  | OLS                  | OLS                 | OLS                 | OLS                 | OLS                 | OLS                  | OLS                 |
| HH Characteristics               | No                  | Yes                 | No                  | Yes                 | No                   | Yes                  | Yes                 | Yes                 | Yes                 | Yes                 | Yes                  | Yes                 |
| Observations                     | 88,496              | 88,496              | 88,496              | 88,496              | 88,496               | 88,496               | 88,496              | 88,496              | 88,496              | 88,496              | 88,496               | 88,496              |
| R-squared                        | 0.008               | 0.009               | 0.003               | 0.003               | 0.008                | 0.008                | 0.009               | 0.419               | 0.003               | 0.145               | 0.008                | 0.384               |

Note: Robust standard errors in parentheses.

Dependent variables are the first differences in expenditures.

Tremor is the square root of the number of major tremors.

Sample Periods: Weeks 4 - 11 in 2011.

Sample Places: All prefectures in Japan except the directly damaged prefectures and Okinawa.

HH Characteristics: Dummies for the size of households, dummies for six income categories, dummies for eight categories of wife's age, infant dummy, and fulltime-working wife dummy.

Staple food include rice, bread, noodles, cereal, flour, and pancake mix.

Week dummies are included in all the specifications. Week 4 = base week. March 11 is the first day of Week 11.

<sup>\*\*\*</sup> p<0.01, \*\* p<0.05, \* p<0.1

**Table 6: The Effects of The 3/11 Disaster on the Extensive Margins of Expenditures** 

|                    | (1)           | (2)           | (3)           | (4)                                     | (5)           | (6)           | (7)           | (8)           | (9)           | (10)          | (11)          | (12)          |
|--------------------|---------------|---------------|---------------|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                    | Extensive     | Extensive     | Extensive     | Extensive                               | Extensive     | Extensive     | Extensive     | Extensive     | Extensive     | Extensive     | Extensive     | Extensive     |
|                    | Margin:       | Margin:       | Margin:       | Margin:                                 | Margin: Non   | Margin: Non   | Margin:       | Margin:       | Margin:       | Margin:       | Margin: Non   | Margin: Non   |
|                    | Foods         | Foods         | Staple        | Staple                                  | Staple        | Staple        | Foods         | Foods         | Staple        | Staple        | Staple        | Staple        |
| Week 11            | -0.0333***    | -0.0339***    | -0.0342***    | -0.0352***                              | -0.0351***    | -0.0357***    | -0.0333***    | -0.0339***    | -0.0343***    | -0.0352***    | -0.0351***    | -0.0357***    |
|                    | (0.00541)     | (0.00543)     | (0.00624)     | (0.00626)                               | (0.00547)     | (0.00548)     | (0.00541)     | (0.00543)     | (0.00624)     | (0.00626)     | (0.00547)     | (0.00548)     |
| Tremor             | -0.0179***    | -0.00318      | -0.0117***    | 0.00330                                 | -0.0175***    | -0.00189      | -0.0158***    | -0.00207      | -0.00978***   | 0.00430       | -0.0155***    | -0.000860     |
|                    | (0.00247)     | (0.00300)     | (0.00281)     | (0.00339)                               | (0.00248)     | (0.00299)     | (0.00263)     | (0.00306)     | (0.00299)     | (0.00347)     | (0.00264)     | (0.00307)     |
| Infant×Tremor      |               |               |               | 000000000000000000000000000000000000000 |               |               | -0.0152**     | -0.0108*      | -0.0143**     | -0.0103       | -0.0139**     | -0.00917      |
|                    |               |               |               |   |               |               | (0.00629)     | (0.00632)     | (0.00658)     | (0.00662)     | (0.00629)     | (0.00631)     |
| Fulltime×Tremor    |               |               |               | 0000000                                 |               |               | -0.00158      | -0.00147      | -0.00129      | -0.000556     | -0.00205      | -0.00189      |
|                    |               |               |               |   |               |               | (0.00610)     | (0.00608)     | (0.00684)     | (0.00684)     | (0.00612)     | (0.00609)     |
| Interval×Tremor    |               | -0.0101***    |               | -0.00882***                             |               | -0.0107***    |               | -0.00984***   |               | -0.00861***   |               | -0.0105***    |
|                    |               | (0.00121)     |               | (0.00106)                               |               | (0.00117)     |               | (0.00122)     |               | (0.00108)     |               | (0.00118)     |
| Shopping Interval  | 0.0654***     | 0.0691***     | 0.0721***     | 0.0752***                               | 0.0667***     | 0.0706***     | 0.0654***     | 0.0690***     | 0.0721***     | 0.0752***     | 0.0667***     | 0.0705***     |
|                    | (0.00262)     | (0.00273)     | (0.00202)     | (0.00209)                               | (0.00261)     | (0.00272)     | (0.00262)     | (0.00273)     | (0.00202)     | (0.00209)     | (0.00261)     | (0.00272)     |
| Constant           | 0.743***      | 0.738***      | 0.634***      | 0.629***                                | 0.738***      | 0.733***      | 0.743***      | 0.738***      | 0.633***      | 0.629***      | 0.738***      | 0.733***      |
|                    | (0.00439)     | (0.00447)     | (0.00435)     | (0.00439)                               | (0.00440)     | (0.00448)     | (0.00439)     | (0.00447)     | (0.00435)     | (0.00439)     | (0.00440)     | (0.00448)     |
| Model              | Fixed Effects | Fixed Effects | Fixed Effects | Fixed Effects                           | Fixed Effects | Fixed Effects | Fixed Effects | Fixed Effects | Fixed Effects | Fixed Effects | Fixed Effects | Fixed Effects |
| HH Characteristics | N/A           | N/A           | N/A           | N/A                                     | N/A           | N/A           | N/A           | N/A           | N/A           | N/A           | N/A           | N/A           |
| Observations       | 88,496        | 88,496        | 88,496        | 88,496                                  | 88,496        | 88,496        | 88,496        | 88,496        | 88,496        | 88,496        | 88,496        | 88,496        |
| R-squared          | 0.027         | 0.027         | 0.030         | 0.030                                   | 0.027         | 0.028         | 0.027         | 0.028         | 0.030         | 0.030         | 0.027         | 0.028         |

Note: Robust standard errors in parentheses.

Dependent variables are the dummy variables for positive expenditures.

See the note for Table 5 for the detailed explanations.

<sup>\*\*\*</sup> p<0.01, \*\* p<0.05, \* p<0.1

Table 7: The Effects of The 3/11 Disaster on The Intensive Margins of Expenditures

|   | (1)                        | (2)                        | (3)                         | (4)                         | (5)                                | (6)                                | (7)                        | (8)                        | (9)                         | (10)                        | (11)                               | (12)                               |
|---|----------------------------|----------------------------|-----------------------------|-----------------------------|------------------------------------|------------------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|------------------------------------|------------------------------------|
|   | Intensive<br>Margin: Foods | Intensive<br>Margin: Foods | Intensive<br>Margin: Staple | Intensive<br>Margin: Staple | Intensive<br>Margin: Non<br>Staple | Intensive<br>Margin: Non<br>Staple | Intensive<br>Margin: Foods | Intensive<br>Margin: Foods | Intensive<br>Margin: Staple | Intensive<br>Margin: Staple | Intensive<br>Margin: Non<br>Staple | Intensive<br>Margin: Non<br>Staple |
| Week 11                                     | -0.0134<br>(0.00869)       |                            |                             | 0.130***<br>(0.0152)        |                                    | -0.0331***<br>(0.00890)            | -0.0134<br>(0.00868)       | ·                          |                             | 0.135***<br>(0.0149)        | -0.0330***<br>(0.00890)            | -0.0284***<br>(0.00827)            |
| Tremor                                      |                            |                            | :                           | :                           | :                                  | 0.0266***<br>(0.00404)             | 0.0399***<br>(0.00439)     |                            | 0.0993***<br>(0.00828)      | 0.0761***<br>(0.0142)       | :                                  | 0.0212**<br>(0.00878)              |
| Infant×Tremor                               |                            |                            |                             |                             |                                    |                                    |                            | 0.0190*<br>(0.0109)        | -0.00719<br>(0.0210)        |                             |                                    | 0.0235**<br>(0.0108)               |
| Fulltime×Tremor                             |                            |                            |                             |                             |                                    |                                    | -0.0176*<br>(0.00963)      |                            | -0.0218<br>(0.0195)         | -0.0151<br>(0.0191)         | -0.0145<br>(0.00922)               | -0.00776<br>(0.00874)              |
| Interval×Tremor                             |                            |                            |                             |                             |                                    |                                    |                            | -0.000952<br>(0.00818)     |                             | 0.0157<br>(0.00989)         |                                    | 0.00223<br>(0.00705)               |
| $\Delta$ Shopping Frequency $\times$ Tremor |                            |                            |                             |                             |                                    |                                    |                            | -0.000975<br>(0.00137)     |                             | 0.00333<br>(0.00267)        |                                    | -0.00260*<br>(0.00135)             |
| Infant Dummy                                |                            | -0.00355<br>(0.00722)      |                             | -0.00848<br>(0.0118)        |                                    | -0.00128<br>(0.00741)              | -0.00661<br>(0.00729)      | :                          | -0.00747<br>(0.0118)        | -0.00869<br>(0.0115)        | -0.00498<br>(0.00750)              | -0.00551<br>(0.00689)              |
| Fulltime Dummy                              |                            | -0.00474<br>(0.00522)      |                             | -0.00211<br>(0.00860)       |                                    | -0.00495<br>(0.00538)              | -0.00217<br>(0.00534)      |                            | 0.00105<br>(0.00866)        | 0.00286<br>(0.00844)        | -0.00284<br>(0.00552)              | -0.00182<br>(0.00508)              |
| Shoppings Interval                          | 0.0363***<br>(0.00294)     |                            |                             |                             |                                    | 0.0344***<br>(0.00298)             | 0.0380***<br>(0.00297)     |                            | 0.0274***<br>(0.00336)      |                             | 0.0345***<br>(0.00298)             | -0.0660***<br>(0.00298)            |
| ΔShopping Frequency                         |                            |                            |                             |                             |                                    |                                    |                            | 0.0911***<br>(0.000726)    |                             | 0.0744***<br>(0.00126)      |                                    | 0.0881***<br>(0.000754)            |
| Constant                                    | -0.0686***<br>(0.00581)    |                            | •                           | -0.0765***<br>(0.0177)      | -0.0604***<br>(0.00594)            | -0.0838***<br>(0.0114)             |                            | •                          | -0.0768***<br>(0.0177)      |                             | •                                  | 0.0131<br>(0.0106)                 |
| Model                                       | OLS                        | OLS                        | OLS                         | OLS                         | OLS                                | OLS                                | OLS                        | OLS                        | OLS                         | OLS                         | OLS                                | OLS                                |
| HH Characteristics                          | No                         | Yes                        | No                          | Yes                         | No                                 | Yes                                | Yes                        | Yes                        | Yes                         | Yes                         | Yes                                | Yes                                |
| Observations                                | 72,377                     | 72,377                     | 64,606                      | 64,606                      | 72,117                             | 72,117                             | 72,377                     | 72,377                     | 64,606                      | 64,606                      | 72,117                             | 72,117                             |
| R-squared                                   | 0.007                      | 0.007                      | 0.014                       | 0.014                       | 0.005                              | 0.006                              | 0.007                      | 0.192                      | 0.014                       | 0.066                       | 0.006                              | 0.169                              |

Note: Robust standard errors in parentheses.

Dependent Variables are the ratio of the gap between actual and average expenditures divided by the average expenditures. Observations with zero expenditures are excluded. See note for Table 5 for more detailed explanations.

<sup>\*\*\*</sup> p<0.01, \*\* p<0.05, \* p<0.1

Figure 1-(a): The Frequency of Major Tremors in Weeks 8-9



Figure 1-(b): The Frequency of Major Tremors in Weeks 11-12



Figure 1-(C): The Frequency of Major Tremors in Weeks 13-14



Figure 2: The Area Classification

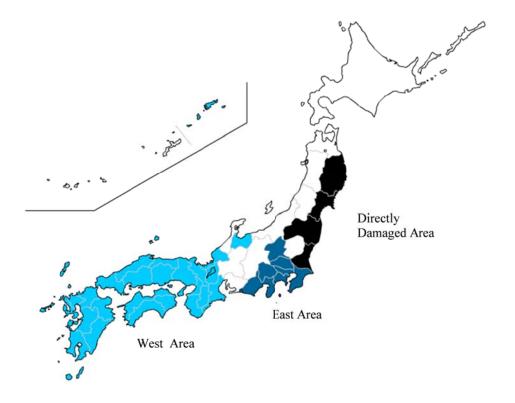
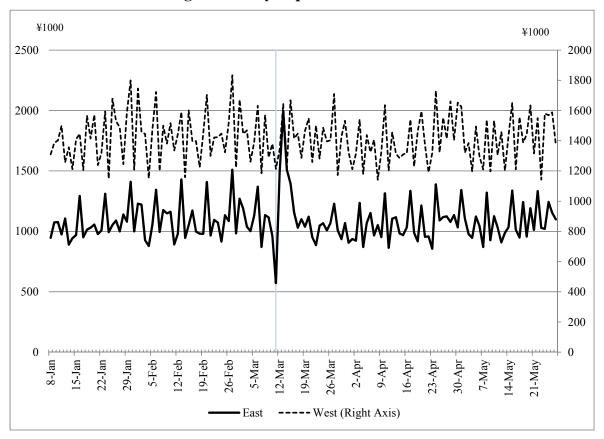
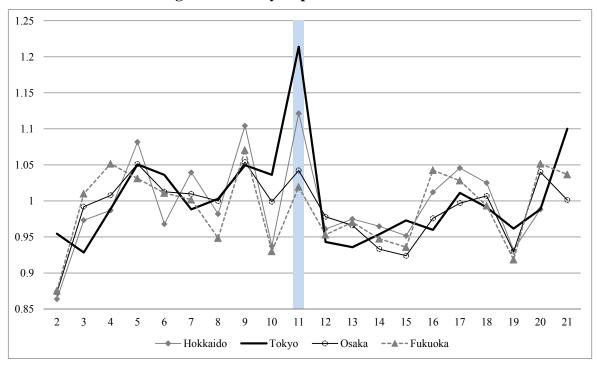


Figure 3: Daily Expenditures on Foods



**Figure 4: Weekly Expenditures on Foods** 



**Figure 5: Fisher Price Index for Foods** 

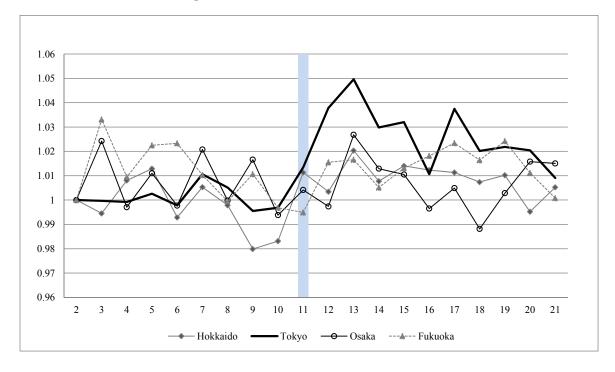
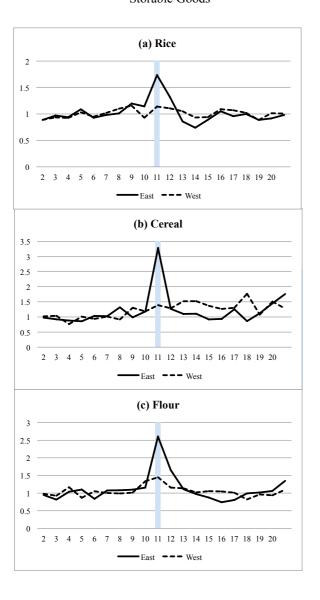
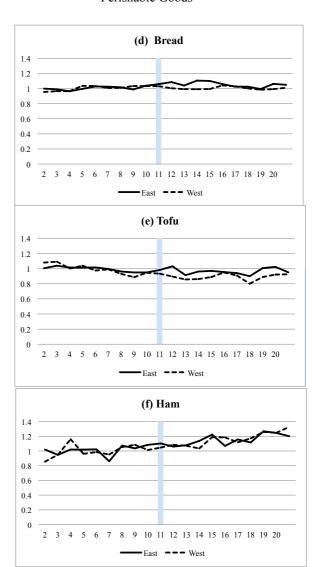


Figure 6: Expenditures on Several Categories

Storable Goods



Perishable Goods



### Appendix Table 1: Weekly Frequency of Tremors whose Seismic Scale Is Greater Than 3.

wee

|           |                 | week |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |     |
|-----------|-----------------|------|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|-----|
| pref_code | Prefecture Name | 5    | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21  |
| 1         | Hokkaido        | 0    | 0 | 0 | 0 | 0 | 0  | 4  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |
| 2         | Aomori          | 0    | 0 | 0 | 0 | 0 | 1  | 9  | 0  | 1  | 2  | 0  | 1  | 0  | 0  | 0  | 0  | 0   |
| 3         | Iwate           | 0    | 0 | 0 | 0 | 0 | 1  | 27 | 3  | 4  | 4  | 3  | 0  | 0  | 1  | 1  | 0  | 0   |
| 4         | Miyagi          | 0    | 0 | 0 | 0 | 0 | 2  | 30 | 8  | 5  | 5  | 3  | 1  | 3  | 0  | 0  | 0  | 0   |
| 5         | Akita           | 0    | 0 | 0 | 0 | 0 | 1  | 8  | 1  | 0  | 2  | 1  | 1  | 0  | 0  | 0  | 0  | 0   |
| 6         | Yamagata        | 0    | 0 | 0 | 0 | 0 | 1  | 13 | 0  | 1  | 1  | 2  | 0  | 1  | 0  | 0  | 0  | 0   |
| 7         | Fukushima       | 0    | 1 | 0 | 0 | 0 | 1  | 37 | 8  | 4  | 4  | 19 | 4  | 4  | 4  | 2  | 3  | 2   |
| 8         | Ibaraki         | 0    | 0 | 0 | 0 | 0 | 0  | 37 | 9  | 2  | 5  | 11 | 3  | 3  | 1  | 1  | 0  | 4   |
| 9         | Tochigi         | 0    | 0 | 0 | 0 | 0 | 0  | 16 | 6  | 0  | 2  | 5  | 2  | 1  | 0  | 0  | 0  | 0   |
| 10        | Gumma           | 0    | 0 | 0 | 0 | 0 | 0  | 5  | 1  | 0  | 2  | 3  | 1  | 1  | 0  | 0  | 0  | 0   |
| 11        | Saitama         | 0    | 0 | 0 | 0 | 0 | 0  | 10 | 2  | 0  | 2  | 4  | 2  | 0  | 0  | 0  | 0  | 0   |
| 12        | Chiba           | 0    | 1 | 0 | 0 | 0 |    | 15 | 3  | 0  | 2  | 3  | 2  | 1  | 0  | 0  | 0  |     |
| 13        | Tokyo           | 0    | 0 | 0 | 0 | 0 |    | 4  | 0  | 0  | 0  | 2  | 1  | 0  | 0  | 0  | 0  | 0   |
| 14        | Kanagawa        | 0    | 0 | 0 | 0 | 0 | 0  | 4  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | -  | 0  |     |
| 15        | Niigata         | 0    | 0 | 0 | 0 | 0 |    | 10 | 0  | 0  | 1  | 2  | 1  | 0  | 0  | -  | 0  | -   |
| 16        | Toyama          | 0    | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | _  | 0  |     |
| 17        | Ishikawa        | 0    | 0 | 0 | 0 | 0 |    | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | v  | 0  | ·   |
| 18        | Fukui           | 0    | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | -  | 0  | _ ~ |
| 19        | Yamanashi       | 0    | 0 | 0 | 0 | 0 |    | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | _  | 0  |     |
| 20        | Nagano          | 0    | 0 | 0 | 0 | 0 |    | 23 | 0  | 1  | 0  | 2  | 0  | 0  | 0  | -  | 0  |     |
| 21        |                 | 0    | 0 | 0 | 0 | 2 | 0  | 3  | 0  | 0  | 0  | _  | 0  | 0  | 0  | -  | 0  | -   |
| 22        | Gifu            | 1    | 0 |   |   | 0 |    | 5  | 0  | 0  |    | 0  | 0  | 0  | 0  | -  | 0  |     |
|           | Shizuoka        | 0    | 0 | 0 | 0 | 0 | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | _  | 0  | _   |
| 23        | Aichi           | ,    |   |   | 0 |   |    | 1  | -  |    |    | -  |    |    |    | v  | 0  | -   |
| 24        | Mie             | 0    | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |    |    | -   |
| 25        | Saga            | 0    | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | -  | 0  | _ ~ |
| 26        | Kyoto           | 0    | 0 | 0 | 0 | 0 |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | _  | 0  |     |
| 27        | Osaka           | 0    | 0 | 0 | 0 | 0 |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | _  | 0  | _   |
|           | Hyogo           | 0    | 0 | 0 | 0 | 0 |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |    | 0  |     |
| 29        | Nara            | 0    | 0 | 0 | 0 | 0 |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | _  | 0  |     |
| 30        | Wakayama        | 0    | 0 | 0 | 1 | 0 | _  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |    | 0  | _ ~ |
| 31        | Tottori         | 0    | 0 | 0 | 0 | 0 |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |    | 0  |     |
| 32        | Shimane         | 0    | 0 | 0 | 0 | 0 |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | -  | 0  |     |
| 33        | Okayama         | 0    | 0 | 0 | 0 | 0 |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |    | 0  |     |
| 34        | Hiroshima       | 0    | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | Ů  | 0  | -   |
| 35        | Yamaguchi       | 0    | 0 | 0 | 0 | 0 | _  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | -  | 0  | _ ~ |
| 36        | Tokushima       | 0    | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | _  | 0  |     |
| 37        | Kagawa          | 0    | 0 | 0 | 0 | 0 | _  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | _  |    |     |
| 38        | Ehime           | 0    | 0 | 0 | 0 | 0 |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | -  | 0  | -   |
| 39        | Kochi           | 0    | 0 | 0 | 0 | 0 |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |    | 0  |     |
| 40        | Fukuoka         | 0    | 0 | 0 | 0 | 0 |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | -  | 0  |     |
| 41        | Saga            | 0    | 0 | 0 | 0 | 0 |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |     |
| 42        | Nagasaki        | 0    | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |
| 43        | Kumamoto        | 0    | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | (   |
| 44        | Oita            | 0    | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | (   |
| 45        | Miyazaki        | 0    | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | (   |
| 46        | Kagoshimia      | 0    | 0 | 0 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | (   |

Note: No major earthquakes occurred during in Week 2, 3, 4, and 7.

Source: Japan Meteorological Agency

**Appendix Table 2: Movements of ln(Expenditures) on Staple Foods** 

|      |       | East |      |       | West |      |        | All  |      |
|------|-------|------|------|-------|------|------|--------|------|------|
| Week | N     | mean | sd   | N     | mean | sd   | N      | mean | sd   |
| 2    | 2791  | 6.41 | 1.00 | 3670  | 6.34 | 0.99 | 8174   | 6.37 | 1.00 |
| 3    | 2787  | 6.42 | 1.02 | 3748  | 6.38 | 0.97 | 8317   | 6.39 | 1.00 |
| 4    | 2771  | 6.43 | 1.04 | 3789  | 6.39 | 0.98 | 8330   | 6.40 | 1.01 |
| 5    | 2882  | 6.49 | 1.05 | 3887  | 6.39 | 1.02 | 8546   | 6.43 | 1.04 |
| 6    | 2780  | 6.49 | 1.00 | 3710  | 6.39 | 0.99 | 8229   | 6.41 | 1.00 |
| 7    | 2796  | 6.47 | 1.02 | 3710  | 6.39 | 1.00 | 8255   | 6.42 | 1.01 |
| 8    | 2775  | 6.49 | 1.03 | 3743  | 6.41 | 0.99 | 8251   | 6.43 | 1.02 |
| 9    | 2903  | 6.54 | 1.06 | 3931  | 6.42 | 1.02 | 8623   | 6.46 | 1.04 |
| 10   | 2786  | 6.51 | 1.03 | 3697  | 6.41 | 0.98 | 8208   | 6.43 | 1.00 |
| 11   | 2727  | 7.01 | 1.07 | 3718  | 6.49 | 1.01 | 8167   | 6.71 | 1.07 |
| 12   | 2555  | 6.66 | 1.05 | 3670  | 6.42 | 1.00 | 7860   | 6.50 | 1.03 |
| 13   | 2695  | 6.51 | 1.06 | 3745  | 6.41 | 1.03 | 8134   | 6.45 | 1.05 |
| 14   | 2512  | 6.43 | 0.99 | 3505  | 6.35 | 1.01 | 7642   | 6.37 | 1.00 |
| 15   | 2724  | 6.46 | 1.00 | 3710  | 6.35 | 0.99 | 8130   | 6.39 | 1.00 |
| 16   | 2708  | 6.46 | 1.03 | 3687  | 6.41 | 0.99 | 8105   | 6.42 | 1.01 |
| 17   | 2782  | 6.49 | 1.02 | 3816  | 6.42 | 1.00 | 8310   | 6.43 | 1.02 |
| 18   | 2627  | 6.50 | 1.03 | 3509  | 6.45 | 1.02 | 7764   | 6.46 | 1.03 |
| 19   | 2667  | 6.43 | 1.02 | 3694  | 6.37 | 0.98 | 8029   | 6.39 | 1.00 |
| 20   | 2716  | 6.49 | 0.99 | 3715  | 6.39 | 0.99 | 8155   | 6.42 | 1.00 |
| 21   | 2837  | 6.54 | 1.02 | 3846  | 6.46 | 0.99 | 8396   | 6.47 | 1.02 |
|      | 54821 | 6.51 | 1.03 | 74500 | 6.40 | 1.00 | 163625 | 6.44 | 1.02 |

## **Appendix Table 3: Weekly Shopping Frequencies**

|       |       |      | East |     |     |        |      | West |     |     |        |      | All  |     |     |
|-------|-------|------|------|-----|-----|--------|------|------|-----|-----|--------|------|------|-----|-----|
| week  | N     | mean | sd   | min | max | N      | mean | sd   | min | max | N      | mean | sd   | min | max |
| 2     | 3853  | 2.94 | 2.54 | 0   | 15  | 5063   | 2.86 | 2.44 | 0   | 20  | 11312  | 2.83 | 2.44 | 0   | 20  |
| 3     | 3853  | 2.99 | 2.62 | 0   | 19  | 5063   | 3.00 | 2.55 | 0   | 22  | 11312  | 2.94 | 2.53 | 0   | 22  |
| 4     | 3853  | 3.04 | 2.68 | 0   | 18  | 5063   | 3.04 | 2.61 | 0   | 19  | 11312  | 2.98 | 2.58 | 0   | 19  |
| 5     | 3853  | 3.25 | 2.71 | 0   | 19  | 5063   | 3.13 | 2.59 | 0   | 22  | 11312  | 3.13 | 2.60 | 0   | 22  |
| 6     | 3853  | 3.07 | 2.75 | 0   | 20  | 5063   | 2.97 | 2.59 | 0   | 23  | 11312  | 2.94 | 2.60 | 0   | 23  |
| 7     | 3853  | 2.93 | 2.60 | 0   | 18  | 5063   | 2.93 | 2.54 | 0   | 21  | 11312  | 2.90 | 2.54 | 0   | 21  |
| 8     | 3853  | 3.00 | 2.63 | 0   | 18  | 5063   | 3.01 | 2.58 | 0   | 19  | 11312  | 2.94 | 2.56 | 0   | 20  |
| 9     | 3853  | 3.30 | 2.69 | 0   | 18  | 5063   | 3.20 | 2.59 | 0   | 19  | 11312  | 3.18 | 2.59 | 0   | 19  |
| 10    | 3853  | 3.00 | 2.68 | 0   | 19  | 5063   | 2.93 | 2.57 | 0   | 23  | 11312  | 2.91 | 2.58 | 0   | 23  |
| 11    | 3853  | 3.13 | 2.92 | 0   | 21  | 5063   | 2.94 | 2.56 | 0   | 18  | 11312  | 2.97 | 2.67 | 0   | 21  |
| 12    | 3853  | 2.85 | 2.81 | 0   | 22  | 5063   | 2.81 | 2.51 | 0   | 17  | 11312  | 2.77 | 2.58 | 0   | 22  |
| 13    | 3853  | 3.07 | 2.83 | 0   | 22  | 5063   | 2.98 | 2.57 | 0   | 21  | 11312  | 2.95 | 2.63 | 0   | 22  |
| 14    | 3853  | 2.82 | 2.80 | 0   | 24  | 5063   | 2.80 | 2.60 | 0   | 22  | 11312  | 2.75 | 2.62 | 0   | 24  |
| 15    | 3853  | 3.01 | 2.74 | 0   | 21  | 5063   | 2.93 | 2.54 | 0   | 19  | 11312  | 2.91 | 2.58 | 0   | 21  |
| 16    | 3853  | 3.04 | 2.78 | 0   | 21  | 5063   | 3.01 | 2.63 | 0   | 17  | 11312  | 2.97 | 2.63 | 0   | 21  |
| 17    | 3853  | 3.06 | 2.72 | 0   | 18  | 5063   | 3.06 | 2.61 | 0   | 19  | 11312  | 2.99 | 2.62 | 0   | 19  |
| 18    | 3853  | 2.84 | 2.71 | 0   | 17  | 5063   | 2.82 | 2.61 | 0   | 21  | 11312  | 2.78 | 2.59 | 0   | 21  |
| 19    | 3853  | 2.92 | 2.66 | 0   | 21  | 5063   | 2.92 | 2.53 | 0   | 19  | 11312  | 2.87 | 2.55 | 0   | 21  |
| 20    | 3853  | 3.03 | 2.75 | 0   | 19  | 5063   | 2.99 | 2.59 | 0   | 19  | 11312  | 2.95 | 2.61 | 0   | 19  |
| 21    | 3853  | 3.15 | 2.75 | 0   | 20  | 5063   | 3.14 | 2.60 | 0   | 18  | 11312  | 3.06 | 2.62 | 0   | 20  |
| Total | 77060 | 3.02 | 2.72 | 0   | 24  | 101260 | 2.97 | 2.57 | 0   | 23  | 226240 | 2.94 | 2.59 | 0   | 24  |

**Appendix Table 4: Shopping Interval (in Weeks)** 

|       |       |       |      |       | East   |      |       |            |      |       |       |      |       | West    |      |       |            |      |
|-------|-------|-------|------|-------|--------|------|-------|------------|------|-------|-------|------|-------|---------|------|-------|------------|------|
| week  |       | Foods |      |       | Staple |      |       | Non Staple |      |       | Foods |      |       | Stap le |      |       | Non Staple |      |
|       | N     | mean  | sd   | N     | mean   | sd   | N     | mean       | sd   | N     | mean  | sd   | N     | mean    | sd   | N     | mean       | sd   |
| 2     | 3158  | 1     | 0    | 2791  | 1      | 0    | 3140  | 1          | 0    | 4099  | 1     | 0    | 3670  | 1       | 0    | 4086  | 1          | 0    |
| 3     | 3136  | 1.10  | 0.30 | 2787  | 1.18   | 0.38 | 3127  | 1.11       | 0.31 | 4172  | 1.11  | 0.32 | 3748  | 1.18    | 0.39 | 4159  | 1.12       | 0.32 |
| 4     | 3143  | 1.15  | 0.44 | 2771  | 1.25   | 0.57 | 3130  | 1.15       | 0.45 | 4194  | 1.16  | 0.47 | 3789  | 1.25    | 0.58 | 4179  | 1.16       | 0.47 |
| 5     | 3283  | 1.25  | 0.69 | 2882  | 1.36   | 0.80 | 3262  | 1.25       | 0.70 | 4294  | 1.20  | 0.61 | 3887  | 1.30    | 0.72 | 4279  | 1.20       | 0.61 |
| 6     | 3119  | 1.14  | 0.51 | 2780  | 1.28   | 0.74 | 3104  | 1.14       | 0.52 | 4092  | 1.14  | 0.50 | 3710  | 1.26    | 0.73 | 4077  | 1.14       | 0.51 |
| 7     | 3125  | 1.16  | 0.54 | 2796  | 1.29   | 0.77 | 3113  | 1.17       | 0.56 | 4121  | 1.16  | 0.55 | 3710  | 1.26    | 0.71 | 4108  | 1.17       | 0.55 |
| 8     | 3148  | 1.19  | 0.61 | 2775  | 1.31   | 0.81 | 3142  | 1.19       | 0.62 | 4176  | 1.20  | 0.64 | 3743  | 1.30    | 0.80 | 4166  | 1.20       | 0.65 |
| 9     | 3279  | 1.28  | 0.89 | 2903  | 1.47   | 1.20 | 3265  | 1.28       | 0.90 | 4389  | 1.28  | 0.94 | 3931  | 1.43    | 1.14 | 4377  | 1.29       | 0.94 |
| 10    | 3099  | 1.17  | 0.72 | 2786  | 1.30   | 0.91 | 3088  | 1.17       | 0.72 | 4112  | 1.14  | 0.68 | 3697  | 1.28    | 0.90 | 4096  | 1.15       | 0.68 |
| 11    | 2960  | 1.15  | 0.56 | 2727  | 1.30   | 0.87 | 2949  | 1.15       | 0.58 | 4101  | 1.15  | 0.56 | 3718  | 1.27    | 0.78 | 4077  | 1.16       | 0.57 |
| 12    | 2907  | 1.20  | 0.59 | 2555  | 1.29   | 0.77 | 2889  | 1.20       | 0.60 | 4055  | 1.17  | 0.54 | 3670  | 1.31    | 0.87 | 4039  | 1.17       | 0.55 |
| 13    | 3067  | 1.40  | 1.12 | 2695  | 1.56   | 1.33 | 3054  | 1.40       | 1.12 | 4192  | 1.28  | 0.87 | 3745  | 1.43    | 1.16 | 4172  | 1.28       | 0.87 |
| 14    | 2893  | 1.30  | 1.20 | 2512  | 1.41   | 1.24 | 2875  | 1.31       | 1.20 | 3922  | 1.25  | 1.13 | 3505  | 1.37    | 1.22 | 3908  | 1.25       | 1.13 |
| 15    | 3092  | 1.24  | 0.72 | 2724  | 1.42   | 1.06 | 3079  | 1.25       | 0.73 | 4125  | 1.20  | 0.64 | 3710  | 1.33    | 0.88 | 4107  | 1.21       | 0.66 |
| 16    | 3098  | 1.20  | 0.71 | 2708  | 1.37   | 0.99 | 3086  | 1.21       | 0.73 | 4080  | 1.18  | 0.72 | 3687  | 1.31    | 0.93 | 4067  | 1.19       | 0.73 |
| 17    | 3124  | 1.23  | 0.77 | 2782  | 1.42   | 1.14 | 3113  | 1.25       | 0.81 | 4248  | 1.24  | 0.82 | 3816  | 1.37    | 1.10 | 4238  | 1.24       | 0.83 |
| 18    | 2977  | 1.32  | 1.40 | 2627  | 1.46   | 1.54 | 2962  | 1.32       | 1.34 | 3941  | 1.29  | 1.35 | 3509  | 1.44    | 1.57 | 3917  | 1.29       | 1.35 |
| 19    | 3052  | 1.24  | 0.81 | 2667  | 1.40   | 1.16 | 3038  | 1.25       | 0.92 | 4105  | 1.24  | 0.95 | 3694  | 1.40    | 1.18 | 4084  | 1.25       | 0.94 |
| 20    | 3096  | 1.21  | 0.74 | 2716  | 1.38   | 1.10 | 3087  | 1.22       | 0.74 | 4163  | 1.18  | 0.68 | 3715  | 1.31    | 0.87 | 4150  | 1.19       | 0.71 |
| 21    | 3174  | 1.22  | 0.78 | 2837  | 1.40   | 1.18 | 3168  | 1.22       | 0.79 | 4223  | 1.19  | 0.70 | 3846  | 1.34    | 0.97 | 4208  | 1.19       | 0.70 |
| Total | 61930 | 1.21  | 0.77 | 54821 | 1.34   | 0.99 | 61671 | 1.21       | 0.78 | 82804 | 1.19  | 0.74 | 74500 | 1.31    | 0.94 | 82494 | 1.19       | 0.74 |

Note: The shopping interval from the last purchase. In each week, only households with positive purchases are included when calculation this table.

**Appendix Table 5: The Ratio of HHs with Positive Expenditures** 

|       |       | East   |            |       | West   |            |       | All    |            |
|-------|-------|--------|------------|-------|--------|------------|-------|--------|------------|
| week  | Foods | Staple | Non Staple | Foods | Staple | Non Staple | Foods | Staple | Non Staple |
| 2     | 0.82  | 0.72   | 0.81       | 0.81  | 0.72   | 0.81       | 0.82  | 0.72   | 0.81       |
| 3     | 0.81  | 0.72   | 0.81       | 0.82  | 0.74   | 0.82       | 0.82  | 0.74   | 0.82       |
| 4     | 0.82  | 0.72   | 0.81       | 0.83  | 0.75   | 0.83       | 0.83  | 0.74   | 0.82       |
| 5     | 0.85  | 0.75   | 0.85       | 0.85  | 0.77   | 0.85       | 0.85  | 0.76   | 0.84       |
| 6     | 0.81  | 0.72   | 0.81       | 0.81  | 0.73   | 0.81       | 0.81  | 0.73   | 0.81       |
| 7     | 0.81  | 0.73   | 0.81       | 0.81  | 0.73   | 0.81       | 0.81  | 0.73   | 0.81       |
| 8     | 0.82  | 0.72   | 0.82       | 0.82  | 0.74   | 0.82       | 0.82  | 0.73   | 0.82       |
| 9     | 0.85  | 0.75   | 0.85       | 0.87  | 0.78   | 0.86       | 0.86  | 0.76   | 0.85       |
| 10    | 0.80  | 0.72   | 0.80       | 0.81  | 0.73   | 0.81       | 0.81  | 0.73   | 0.81       |
| 11    | 0.77  | 0.71   | 0.77       | 0.81  | 0.73   | 0.81       | 0.79  | 0.72   | 0.79       |
| 12    | 0.75  | 0.66   | 0.75       | 0.80  | 0.72   | 0.80       | 0.78  | 0.69   | 0.78       |
| 13    | 0.80  | 0.70   | 0.79       | 0.83  | 0.74   | 0.82       | 0.81  | 0.72   | 0.81       |
| 14    | 0.75  | 0.65   | 0.75       | 0.77  | 0.69   | 0.77       | 0.77  | 0.68   | 0.76       |
| 15    | 0.80  | 0.71   | 0.80       | 0.81  | 0.73   | 0.81       | 0.81  | 0.72   | 0.81       |
| 16    | 0.80  | 0.70   | 0.80       | 0.81  | 0.73   | 0.80       | 0.81  | 0.72   | 0.80       |
| 17    | 0.81  | 0.72   | 0.81       | 0.84  | 0.75   | 0.84       | 0.82  | 0.73   | 0.82       |
| 18    | 0.77  | 0.68   | 0.77       | 0.78  | 0.69   | 0.77       | 0.78  | 0.69   | 0.77       |
| 19    | 0.79  | 0.69   | 0.79       | 0.81  | 0.73   | 0.81       | 0.80  | 0.71   | 0.80       |
| 20    | 0.80  | 0.70   | 0.80       | 0.82  | 0.73   | 0.82       | 0.81  | 0.72   | 0.81       |
| 21    | 0.82  | 0.74   | 0.82       | 0.83  | 0.76   | 0.83       | 0.83  | 0.74   | 0.82       |
| Total | 0.80  | 0.71   | 0.80       | 0.82  | 0.74   | 0.81       | 0.81  | 0.72   | 0.81       |

## **Appendix Table 6: Intensive Margin**

|       |       |      | Ea    | ast  |       |        |       |      | W     | est  |       |        |       |      | A     | <b>A</b> 11 |       |        |
|-------|-------|------|-------|------|-------|--------|-------|------|-------|------|-------|--------|-------|------|-------|-------------|-------|--------|
|       | Foo   | ods  | Sta   | ple  | Non   | Staple | Fo    | ods  | Sta   | ıple | Non   | Staple | Fo    | ods  | Sta   | aple        | Non   | Staple |
| Week  | mean  | sd   | mean  | sd   | mean  | sd     | mean  | sd   | mean  | sd   | mean  | sd     | mean  | sd   | mean  | sd          | mean  | sd     |
| 2     | -0.07 | 0.44 | -0.06 | 0.68 | -0.07 | 0.45   | -0.08 | 0.44 | -0.05 | 0.65 | -0.08 | 0.45   | -0.08 | 0.44 | -0.06 | 0.67        | -0.08 | 0.45   |
| 3     | -0.05 | 0.45 | -0.05 | 0.69 | -0.04 | 0.46   | -0.03 | 0.44 | -0.03 | 0.64 | -0.03 | 0.46   | -0.04 | 0.45 | -0.04 | 0.67        | -0.03 | 0.46   |
| 4     | -0.03 | 0.46 | -0.06 | 0.68 | -0.02 | 0.48   | -0.02 | 0.45 | -0.02 | 0.66 | -0.02 | 0.47   | -0.03 | 0.46 | -0.04 | 0.68        | -0.02 | 0.47   |
| 5     | 0.02  | 0.48 |       | 0.73 | 0.02  | 0.49   | 0.01  | 0.47 | -0.01 | 0.69 | 0.02  | 0.49   | 0.01  | 0.48 | 0.00  | 0.71        | 0.02  | 0.49   |
| 6     | -0.01 | 0.47 | 0.00  | 0.74 | -0.01 | 0.48   | -0.02 | 0.45 | -0.01 | 0.69 | -0.02 | 0.47   | -0.02 | 0.46 | -0.01 | 0.71        | -0.02 | 0.47   |
| 7     | -0.03 | 0.46 | -0.01 | 0.71 | -0.03 | 0.47   | -0.03 | 0.46 | -0.02 | 0.67 | -0.02 | 0.47   | -0.02 | 0.46 | -0.01 | 0.70        | -0.02 | 0.48   |
| 8     | -0.02 | 0.47 | 0.01  | 0.73 | -0.03 | 0.48   | -0.02 | 0.46 |       | 0.69 | -0.03 | 0.47   | -0.03 | 0.46 | 0.00  | 0.71        | -0.03 | 0.47   |
| 9     | 0.04  | 0.47 | 0.03  | 0.73 | 0.04  | 0.48   | 0.02  | 0.48 | 0.01  | 0.68 | 0.02  | 0.50   | 0.03  | 0.48 | 0.01  | 0.71        | 0.03  | 0.49   |
| 10    | -0.05 | 0.48 | 1     | 0.82 | -0.05 | 0.51   | -0.06 | 0.48 | 0.02  | 0.78 | -0.06 |        | -0.06 | 0.48 | 0.01  | 0.80        | -0.06 | 0.50   |
| 11    | 0.10  | 0.56 |       | 1.02 | 0.03  | 0.55   | -0.05 | 0.49 | 0.08  | 0.85 | -0.06 |        | 0.01  | 0.52 | 0.21  | 0.94        | -0.02 | 0.52   |
| 12    | -0.09 | 0.49 |       | 0.88 | -0.11 | 0.50   | -0.07 | 0.49 | 0.03  | 0.79 | -0.08 |        | -0.08 | 0.49 | 0.05  | 0.84        | -0.09 | 0.51   |
| 13    | 8     | 0.51 | 0.02  | 0.84 | -0.05 | 0.52   | -0.05 | 0.51 | -0.01 | 0.79 | -0.04 | 0.53   | -0.05 | 0.51 | 0.00  | 0.82        | -0.05 | 0.52   |
| 14    | -0.11 | 0.46 |       | 0.76 | -0.09 | 0.49   | -0.11 | 0.46 | -0.04 | 0.76 | -0.10 |        | -0.11 | 0.47 | -0.06 | 1           | -0.09 | 0.49   |
| 15    | -0.05 | 0.48 | -0.02 | 0.79 | -0.04 | 0.50   | -0.09 | 0.46 | -0.05 | 0.74 | -0.08 | 0.48   | -0.07 | 0.47 | -0.04 | 0.77        | -0.06 | 0.49   |
| 16    | -0.07 | 0.48 | -0.03 | 0.80 | -0.05 | 0.49   | -0.04 | 0.47 | 0.01  | 0.79 | -0.04 | 0.49   | -0.05 | 0.47 | -0.01 | 0.79        | 1     | 0.49   |
| 17    | -0.04 | 0.49 | 0.01  | 0.83 | -0.03 | 0.51   | -0.04 | 0.49 | 0.01  | 0.77 | -0.03 | 0.52   | -0.04 | 0.49 | 0.00  | 0.79        | 1     | 0.52   |
| 18    | -0.04 | 0.53 | 0.00  | 0.82 | -0.03 | 0.55   | -0.05 | 0.51 | 0.02  | 0.82 | -0.04 | 0.54   | -0.04 | 0.52 | 0.01  | 0.82        | -0.03 | 0.54   |
| 19    | -0.08 | 0.48 | -0.04 | 0.79 | -0.06 | 0.51   | -0.08 | 0.49 | -0.04 | 0.76 | -0.07 | 0.52   | -0.08 | 0.48 | -0.04 | 0.77        | -0.06 | 0.51   |
| 20    | -0.04 | 0.47 | 0.01  | 0.81 | -0.03 | 0.49   | -0.07 | 0.47 | -0.01 | 0.76 | -0.07 | 0.50   | -0.06 | 0.47 | 0.00  | 0.79        | -0.05 | 0.50   |
| 21    | -0.02 | 0.48 | 0.05  | 0.84 | -0.01 | 0.51   | 0.00  | 0.49 | 0.06  | 0.80 | 0.00  | 0.51   | -0.02 | 0.49 | 0.04  | 0.82        | -0.01 | 0.51   |
| Total | -0.03 | 0.48 | 0.02  | 0.79 | -0.03 | 0.50   | -0.04 | 0.47 | 0.00  | 0.74 | -0.04 | 0.49   | -0.04 | 0.48 | 0.00  | 0.77        | -0.04 | 0.50   |

Appendix Table 7: The Age of the Youngest Child and Weekly Food Expenditures

| week   | weekly_<br>sales11   | weekly_<br>quantity<br>11  | weekly_<br>variety1<br>1   | weekly_<br>sales12   | weekly_<br>quantity<br>12  | weekly_<br>variety1<br>2   | weekly_<br>sales21   | weekly_<br>quantity<br>21  | weekly_<br>variety2<br>1   | weekly_<br>sales22  | weekly_<br>quantity<br>22  | weekly_<br>variety2<br>2  | weekly_<br>sales31  | weekly_<br>quantity<br>31  | weekly_<br>variety3   | weekly_<br>sales32   | weekly_<br>quantity<br>32  | weekly_<br>variety3<br>2  | weekly_<br>sales41  | weekly_<br>quantity<br>41  |  |
|--|--|--|--|--|--|--|--|--|--|---|--|---|---|--|---|--|--|---|---|--|--|
| 2  | 4927   | 26   | 20   | 4370   | 26   | 19   | 4781   | 30   | 23   | 4359  | 27   | 22  | 4412  | 27   | 22  | 4422   | 29   | 23  | 4895  | 30   | 24   |
| 3  | 5001   | 27   | 20   | 4700   | 27   | 21   | 4571   | 29   | 22   | 4818  | 31   | 24  | 4394  | 25   | 21  | 4988   | 33   | 26  | 5088  | 31   |  |
| 4  | 5265   | 28   | 20   | 4910   | 28   | 21   | 4447   | 27   | 22   | 4464  | 29   | 23  | 4524  | 27   | 22  | 4516   | 30   | 24  | 5129  | 32   | 26   |
| 5  | 5686   |  |  |  | 29   | 21   | 5110   |  |  |   | 32   |   |   |  | 24  |  |  |   |   |  |  |
| 6  | 5342   |  |  | 4744   | 28   | 21   | 4922   |  |  |   | 30   |   |   | 28   | 22  |  |  |   |   |  |  |
| 7  | 5277   |  |  | 4801   | 27   | 20   |  |  |  |   | 32   |   |   | 27   | 22  |  |  |   |   |  |  |
| 8  | 5271   | 28   |  | 4919   | 28   | 21   | 4656   |  |  |   | 29   |   |   | 27   | 22  |  |  |   |   |  |  |
| 9  | 5836   |  |  | 5154   | 29   | 21   | 5286   |  |  |   | 32   |   |   | 30   | 24  |  |  |   |   |  |  |
| 10   | 5434   |  |  | 4749   | 28   | 21   | 4694   |  |  |   | 30   |   |   | 24   | 20  |  |  |   |   |  |  |
| 11   | 6304   |  |  |  | 28   | 21   | 5883   |  |  |   | 31   | 23  |   | 37   | 27  |  |  |   |   |  |  |
| 12   | 5207   |  |  |  | 28   | 20   |  |  |  |   | 29   |   |   | 25   | 20  |  | 29   |   |   |  |  |
| 13<br>14   | 5195   |  |  |  | 29<br>27   | 20<br>20   |  |  |  |   | 30<br>30   |   |   |  | 22<br>20  |  |  |   |   |  |  |
|  | 5050   |  |  |  |  |  |  |  |  |   |  |   |   | 25   |   |  |  |   |   |  |  |
| 15<br>16   | 5229<br>5298   |  |  | 4435<br>4792   | 26<br>27   | 20<br>21   | 4860<br>4992   |  |  |   | 28<br>31   | 22<br>25  |   | 25<br>27   | 20<br>21  | 4571<br>4596   |  |   |   |  |  |
| 17   | 5285   |  |  | 4982   | 29   |  | 4844   |  |  |   | 29   |   |   |  | 22  | 4945   |  |   |   |  |  |
| 18   | 5705   |  |  | 5105   | 29   | 20   |  |  |  |   | 28   |   |   | 24   | 19  | .,   |  |   |   |  |  |
| 19   | 5102   |  |  |  | 27   | 20   |  |  |  |   | 28   |   |   | 27   | 22  |  | 29   |   |   |  |  |
| 20   | 5326   |  |  |  | 28   | 21   |  |  |  |   |  |   |   |  | 24  |  |  |   |   |  |  |
| 21   | 5730   |  |  |  | 29   | 21   |  | 35   |  |   | 32   |   |   |  |   |  |  |   |   |  |  |
|  |  |  |  |  | 1.1  | 1.1  |  | 1.1  | 1.1  |   | 1.1  | 1.1   |   | 1.1  | 1.1   |  | 1.1  | 1.1   |   | 1.1  |  |
| week   | sales42  | quantity<br>42   | 2  | weekly_<br>sales51   | weekly_<br>quantity<br>51  | variety5   | weekly_<br>sales52   | 52   | variety5<br>2  | weekly_<br>sales61  | weekly_<br>quantity<br>61  | variety6<br>1   | weekly_<br>sales62  |  | variety6<br>2   | weekly_<br>sales71   | 71   | variety7  | weekly_<br>sales72  | weekly_<br>quantity<br>72  | variety7   |
| 2  | sales42  | quantity<br>42   | variety4<br>2  | sales51<br>5482  | quantity 51  | variety5<br>1  | sales52<br>5186  | quantity 52  | variety5 2   | sales61<br>5 5634   | quantity<br>61   | variety6<br>1   | sales62   | quantity 62  | variety6<br>2   | sales71<br>6147  | quantity 71 33   | variety7<br>1   | sales72<br>5143   | quantity 72  | variety7<br>2  |
| 2 3  | sales42<br>4506<br>4563  | quantity<br>42<br>29<br>31   | variety4<br>2<br>23<br>24  | 5482<br>5608   | quantity<br>51<br>33<br>33   | variety5<br>1<br>25<br>26  | 5186<br>5228   | quantity<br>52<br>34<br>34   | variety5<br>2<br>26<br>27  | sales61<br>5 5634<br>6 6188   | quantity<br>61<br>36<br>37   | variety6<br>1<br>27<br>28   | sales62<br>5315<br>5641   | quantity<br>62<br>35<br>36   | variety6<br>2<br>28<br>27   | sales71<br>6147<br>6333  | quantity 71 33 34  | variety7<br>1<br>27<br>27   | sales72<br>5143<br>5504   | quantity 72 33 34  | 26<br>27   |
| 2<br>3<br>4  | 4506<br>4563<br>4394   | quantity<br>42<br>29<br>31<br>30   | 23<br>24<br>23   | 5482<br>5608<br>5868   | quantity 51 33 33 35   | variety5<br>1<br>25<br>26<br>27  | 5186<br>5228<br>5588   | quantity 52 34 34 36   | variety5<br>2<br>26<br>27<br>28  | sales61  5 5634  6 188  7 6188  8 5959  | quantity<br>61<br>36<br>37<br>36   | variety6<br>1<br>27<br>28<br>28   | sales62<br>5315<br>5641<br>5604   | quantity<br>62<br>35<br>36<br>36   | variety6<br>2<br>28<br>27<br>28   | 6147<br>6333<br>6105   | quantity 71 33 34 33   | variety7<br>1<br>27<br>27<br>27   | sales72<br>5143<br>5504<br>5965   | quantity 72 33 34 37   | 26<br>27<br>28   |
| 2<br>3<br>4<br>5   | 4506<br>4563<br>4394<br>4666   | quantity<br>42<br>29<br>31<br>30<br>31   | 23<br>24<br>23<br>23<br>23   | 5482<br>5608<br>5868<br>5932   | quantity<br>51<br>33<br>33<br>35<br>35   | 25<br>26<br>27<br>27   | 5186<br>5228<br>5588<br>5768   | quantity 52 34 34 36 36  | 26<br>27<br>28<br>27   | sales61  5 5634  6 6188  7 6188  7 6094   | quantity<br>61<br>36<br>37<br>36<br>36                                     | 27<br>28<br>28<br>28  | sales62<br>5315<br>5641<br>5604<br>6150   | quantity<br>62<br>35<br>36<br>36<br>38   | 28<br>27<br>28<br>29  | 6147<br>6333<br>6105<br>6357   | quantity 71 33 34 33 35  | variety7<br>1<br>27<br>27<br>27<br>28   | sales72<br>5143<br>5504<br>5965<br>5574   | quantity 72 33 34 37 35  | 26<br>27<br>28<br>26   |
| 2<br>3<br>4<br>5<br>6  | 4506<br>4563<br>4394<br>4666<br>4663   | quantity<br>42<br>29<br>31<br>30<br>31<br>31   | 23<br>24<br>23<br>24<br>23<br>24   | 5482<br>5608<br>5868<br>5932<br>5809   | quantity 51  33 33 35 35 35 35   | 25<br>26<br>27<br>27<br>27   | 5186<br>5228<br>5588<br>5768<br>5469   | quantity 52 34 34 36 36 36 36  | 26<br>27<br>28<br>27<br>28   | sales61  5 5634  6 6188  7 6094  8 6961   | quantity<br>61<br>36<br>37<br>36<br>36<br>41                               | 27<br>28<br>28<br>28<br>31  | sales62<br>5315<br>5641<br>5604<br>6150<br>5627   | quantity<br>62<br>35<br>36<br>36<br>38<br>36   | 28<br>27<br>28<br>27<br>28<br>29<br>28  | 6147<br>6333<br>6105<br>6357<br>6638   | quantity 71 33 34 33 35 37   | 27<br>27<br>27<br>28<br>29  | sales72<br>5143<br>5504<br>5965<br>5574<br>5419   | quantity 72  33 34 37 35 34  | 26<br>27<br>28<br>26<br>26<br>26   |
| 2<br>3<br>4<br>5<br>6<br>7   | 4506<br>4563<br>4394<br>4666<br>4663<br>4884   | quantity<br>42<br>29<br>31<br>30<br>31<br>31<br>31   | 23<br>24<br>23<br>24<br>23<br>24<br>23   | 5482<br>5608<br>5868<br>5932<br>5809<br>5954   | 33<br>33<br>35<br>35<br>35<br>35   | 25<br>26<br>27<br>27<br>27<br>27<br>27   | 5186<br>5228<br>5588<br>5768<br>5469<br>5092   | quantity 52 34 34 36 36 36 32  | 26<br>27<br>28<br>27<br>28<br>27<br>28<br>27<br>28   | sales61  5 5634  6 188  8 5959  7 6094  8 6961  5 766   | quantity<br>61<br>36<br>37<br>36<br>36<br>41<br>34                         | 27<br>28<br>28<br>28<br>31<br>26  | sales62<br>5315<br>5641<br>5604<br>6150<br>5627<br>5532   | 35<br>36<br>36<br>38<br>36<br>35   | 28<br>27<br>28<br>29<br>28<br>27  | 6147<br>6333<br>6105<br>6357<br>6638<br>6047   | quantity 71 33 34 33 35 37 34  | 27<br>27<br>27<br>28<br>29<br>25  | sales72<br>5143<br>5504<br>5965<br>5574<br>5419<br>5536   | quantity<br>72<br>33<br>34<br>37<br>35<br>34<br>34                                     | 26<br>27<br>28<br>26<br>26<br>26<br>26   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8  | 4506<br>4563<br>4394<br>4666<br>4663<br>4884<br>5034   | 29<br>31<br>30<br>31<br>31<br>31<br>31   | 23<br>24<br>23<br>24<br>23<br>24<br>23<br>24   | 5482<br>5608<br>5868<br>5932<br>5809<br>5954<br>5448   | quantity<br>51<br>33<br>33<br>35<br>35<br>35<br>35<br>35<br>32   | 25<br>26<br>27<br>27<br>27<br>27<br>27<br>25   | 5186<br>5228<br>5588<br>5768<br>5469<br>5092<br>5096   | quantity 52 34 34 36 36 36 32 33   | 26<br>27<br>28<br>27<br>28<br>29<br>28<br>25<br>26   | sales61  5 5634  6 188  8 5959  7 6094  8 6961  6 5766  6 155   | quantity<br>61<br>36<br>37<br>36<br>36<br>41<br>34<br>36                   | 27<br>28<br>28<br>28<br>31<br>26<br>27  | sales62<br>5315<br>5641<br>5604<br>6150<br>5627<br>5532<br>5362   | 35<br>36<br>36<br>38<br>36<br>35<br>35   | 28<br>27<br>28<br>29<br>28<br>27<br>27<br>27  | 6147<br>6333<br>6105<br>6357<br>6638<br>6047<br>6156   | quantity 71 33 34 33 35 37 34 33 33  | 27<br>27<br>27<br>28<br>29<br>25<br>26  | sales72<br>5143<br>5504<br>5965<br>5574<br>5419<br>5536<br>5392   | quantity<br>72<br>33<br>34<br>37<br>35<br>34<br>34<br>34<br>33                         | 26<br>27<br>28<br>26<br>26<br>26<br>26<br>26<br>25   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | 4506<br>4563<br>4394<br>4666<br>4663<br>4884<br>5034<br>4873   | quantity<br>42<br>29<br>31<br>30<br>31<br>31<br>31<br>31   | 23<br>24<br>23<br>24<br>23<br>24<br>23<br>24<br>23<br>24<br>23   | 5482<br>5608<br>5868<br>5932<br>5809<br>5954<br>5448<br>6244   | quantity<br>51<br>33<br>33<br>35<br>35<br>35<br>35<br>35<br>35<br>37   | 25<br>26<br>27<br>27<br>27<br>27<br>27<br>25<br>27   | 5186<br>5228<br>5588<br>5768<br>5469<br>5092<br>5096<br>5537   | quantity 52 34 34 36 36 36 32 33 35  | 26<br>27<br>28<br>27<br>28<br>27<br>28<br>26<br>26<br>26<br>26                               | sales61  5 5634  6 188  8 5959  7 6094  8 6961  6 5766  6 155  6 404  | quantity<br>61<br>36<br>37<br>36<br>36<br>41<br>34<br>36<br>38             | 27<br>28<br>28<br>28<br>28<br>31<br>26<br>27<br>28  | sales62<br>5315<br>5641<br>5604<br>6150<br>5627<br>5532<br>5362<br>5362<br>5362   | quantity<br>62<br>35<br>36<br>36<br>38<br>36<br>35<br>35<br>36   | 28<br>27<br>28<br>29<br>28<br>27<br>27<br>27<br>27  | 6147<br>6333<br>6105<br>6357<br>6638<br>6047<br>6156<br>6527   | quantity 71 33 34 33 35 37 34 33 36  | 27<br>27<br>27<br>28<br>29<br>25<br>26<br>27  | sales72<br>5143<br>5504<br>5965<br>5574<br>5419<br>5536<br>5392<br>5243   | quantity<br>72<br>33<br>34<br>37<br>35<br>34<br>34<br>33<br>33                         | variety7<br>2<br>26<br>27<br>28<br>26<br>26<br>26<br>26<br>25<br>25                          |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | 4506<br>4563<br>4394<br>4666<br>4663<br>4884<br>5034<br>4873<br>4555   | quantity<br>42<br>29<br>31<br>30<br>31<br>31<br>31<br>31<br>31                                     | 23<br>24<br>23<br>24<br>23<br>24<br>23<br>24<br>23<br>24<br>23<br>24   | 5482<br>5608<br>5868<br>5932<br>5809<br>5954<br>5448<br>6244<br>5639   | quantity<br>51<br>33<br>33<br>35<br>35<br>35<br>35<br>35<br>32<br>37<br>33   | 25<br>26<br>27<br>27<br>27<br>27<br>27<br>25<br>27<br>26   | 5186<br>5228<br>5588<br>5768<br>5469<br>5092<br>5096<br>5537<br>4929   | quantity 52 34 34 36 36 36 32 33 35 33   | 26<br>27<br>28<br>27<br>28<br>27<br>28<br>25<br>26<br>26<br>26<br>26                         | sales61  5634 6188 5959 6094 6961 5766 6155 6404 6305   | quantity<br>61<br>36<br>37<br>36<br>36<br>41<br>34<br>36<br>38<br>37       | 27<br>28<br>28<br>28<br>28<br>31<br>26<br>27<br>28<br>29  | sales62<br>7 5315<br>6 5641<br>6 6150<br>5627<br>6 5532<br>7 5362<br>7 5362<br>8 5619<br>5473                           | quantity<br>62<br>35<br>36<br>36<br>38<br>36<br>35<br>35<br>36<br>36   | 28<br>27<br>28<br>29<br>28<br>27<br>27<br>27<br>27  | 6147<br>6333<br>6105<br>6357<br>6638<br>6047<br>6156<br>6527<br>6283   | quantity 71 33 34 33 35 37 34 33 36 32   | 27<br>27<br>27<br>28<br>29<br>25<br>26<br>27<br>25  | sales72<br>5143<br>5504<br>5965<br>5574<br>5419<br>5536<br>5392<br>5243<br>5386   | quantity<br>72<br>33<br>34<br>37<br>35<br>34<br>34<br>33<br>33<br>33                   | 26<br>27<br>28<br>26<br>26<br>26<br>26<br>26<br>25<br>25<br>25                               |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10   | 4506<br>4563<br>4394<br>4666<br>4663<br>4884<br>5034<br>4873<br>4555<br>4674   | quantity<br>42<br>29<br>31<br>30<br>31<br>31<br>31<br>31<br>31<br>31                               | 23<br>24<br>23<br>24<br>23<br>24<br>23<br>24<br>23<br>24<br>23<br>24<br>23   | 5482<br>5608<br>5868<br>5932<br>5809<br>5954<br>5448<br>6244<br>5639<br>7391   | quantity<br>51<br>33<br>33<br>35<br>35<br>35<br>35<br>35<br>35<br>37<br>33<br>45   | 25<br>26<br>27<br>27<br>27<br>27<br>27<br>25<br>27<br>26<br>31   | 5186<br>5228<br>5588<br>5768<br>5469<br>5092<br>5096<br>5537<br>4929<br>5153   | quantity 52 34 34 36 36 36 36 32 33 35 33 33   | 26<br>27<br>28<br>27<br>28<br>27<br>28<br>25<br>26<br>26<br>26<br>26<br>26<br>26<br>26<br>27 | sales61  5 5634  6 6188  8 5959  7 6094  8 6961  6 5766  6 6155  6 6404  6 6305  7 089  | quantity<br>61<br>36<br>37<br>36<br>36<br>41<br>34<br>36<br>38<br>37<br>41 | 27<br>28<br>28<br>28<br>31<br>26<br>27<br>28<br>29  | sales62<br>7 5315<br>6 5641<br>6 6150<br>5627<br>6 5532<br>7 5362<br>7 5362<br>8 5619<br>5473<br>5485                   | quantity<br>62<br>35<br>36<br>36<br>38<br>36<br>35<br>35<br>36<br>36<br>36   | 28<br>27<br>28<br>27<br>28<br>29<br>28<br>27<br>27<br>27<br>27  | 6147<br>6333<br>6105<br>6357<br>6638<br>6047<br>6156<br>6527<br>6283<br>6901   | quantity<br>71<br>33<br>34<br>33<br>35<br>37<br>34<br>33<br>36<br>32<br>37                       | 27<br>27<br>27<br>28<br>29<br>25<br>26<br>27<br>25<br>28  | sales72<br>5143<br>5504<br>5965<br>5574<br>5419<br>5536<br>5392<br>5243<br>5386<br>5419                                 | quantity<br>72<br>33<br>34<br>37<br>35<br>34<br>34<br>33<br>33<br>33<br>33             | 26<br>27<br>28<br>26<br>26<br>26<br>26<br>25<br>25<br>25<br>25                               |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | 4506<br>4563<br>4394<br>4666<br>4663<br>4884<br>5034<br>4873<br>4555   | quantity<br>42<br>29<br>31<br>30<br>31<br>31<br>31<br>31<br>31<br>31<br>29                         | variety4<br>2<br>23<br>24<br>23<br>24<br>24<br>24<br>23<br>24<br>24<br>24<br>22<br>24<br>24<br>22  | 5482<br>5608<br>5868<br>5932<br>5809<br>5954<br>5448<br>6244<br>5639<br>7391<br>5701   | quantity<br>51<br>33<br>33<br>35<br>35<br>35<br>35<br>35<br>32<br>37<br>33   | 25<br>26<br>27<br>27<br>27<br>27<br>27<br>25<br>27<br>26   | 5186<br>5228<br>5588<br>5768<br>5469<br>5092<br>5096<br>5537<br>4929<br>5153<br>4800   | quantity 52 34 34 36 36 36 36 32 33 35 33 33 32  | variety5 2  26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20                               | sales61  5634  6188 5959 6094 6961 5766 6155 66404 656305 7089 5533   | quantity 61  36 37 36 36 41 34 36 38 37 41                                 | 27<br>28<br>28<br>28<br>31<br>26<br>27<br>28<br>29  | sales62<br>5315<br>5641<br>5604<br>6150<br>5627<br>5532<br>55362<br>55619<br>5473<br>5485<br>5184                       | quantity<br>62<br>35<br>36<br>36<br>38<br>36<br>35<br>35<br>36<br>36<br>36<br>36<br>36<br>33   | 28<br>27<br>28<br>29<br>28<br>27<br>27<br>27<br>27  | 6147<br>6333<br>6105<br>6357<br>6638<br>6047<br>6156<br>6527<br>6283<br>6901<br>5820   | quantity<br>71<br>33<br>34<br>33<br>35<br>37<br>34<br>33<br>36<br>32<br>37<br>30                 | variety7 1 27 27 27 28 29 25 26 27 25 28 23   | sales72<br>5143<br>5504<br>5965<br>5574<br>5419<br>5363<br>5386<br>5419<br>5363   | quantity<br>72<br>33<br>34<br>37<br>35<br>34<br>34<br>33<br>33<br>33<br>35<br>32       | 26<br>27<br>28<br>26<br>26<br>26<br>26<br>25<br>25<br>25<br>25<br>26<br>24                   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12                                     | 4506<br>4563<br>4394<br>4666<br>4663<br>4884<br>5034<br>4873<br>4555<br>4674   | quantity<br>42<br>29<br>31<br>30<br>31<br>31<br>31<br>31<br>31<br>31<br>29<br>27                   | variety4<br>2<br>23<br>24<br>23<br>24<br>24<br>23<br>24<br>24<br>22<br>24<br>22<br>20  | 5482<br>5608<br>5868<br>5932<br>5809<br>5954<br>5448<br>6244<br>5639<br>7391<br>5701   | quantity<br>51<br>33<br>33<br>35<br>35<br>35<br>35<br>35<br>35<br>37<br>33<br>45<br>31   | 25<br>26<br>27<br>27<br>27<br>27<br>27<br>25<br>27<br>26<br>31<br>23   | \$\frac{5186}{5228}\$ \$5186 \$5228 \$5588 \$5768 \$5469 \$5092 \$5096 \$5537 \$4929 \$5153 \$4800 \$5122  | quantity 52 34 34 36 36 36 36 32 33 35 33 32 32 32   | variety5 2  26 27 28 27 28 29 26 26 26 26 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20 | sales61  5634  6188 5959 6094 666155 66404 66305 7089 5533  | quantity<br>61<br>36<br>37<br>36<br>36<br>41<br>34<br>36<br>38<br>37<br>41 | variety6<br>1<br>27<br>28<br>28<br>28<br>31<br>26<br>27<br>28<br>29<br>30<br>24   | sales62<br>5315<br>5641<br>5604<br>6150<br>5627<br>5532<br>55619<br>5473<br>5485<br>5184<br>5041                        | quantity<br>62<br>35<br>36<br>36<br>38<br>36<br>35<br>35<br>36<br>36<br>36   | variety6<br>2<br>28<br>27<br>28<br>29<br>28<br>27<br>27<br>27<br>27<br>27<br>27   | 6147<br>6333<br>6105<br>6357<br>6638<br>6047<br>6156<br>6527<br>6283<br>6901<br>5820<br>5503   | quantity<br>71<br>33<br>34<br>33<br>35<br>37<br>34<br>33<br>36<br>32<br>37<br>30<br>31           | 27<br>27<br>27<br>27<br>28<br>29<br>25<br>26<br>27<br>25<br>28<br>23<br>24  | sales72<br>5143<br>5504<br>5965<br>5574<br>5419<br>5363<br>5386<br>5419<br>5363<br>5363<br>5419                         | quantity<br>72<br>33<br>34<br>37<br>35<br>34<br>34<br>33<br>33<br>33<br>35<br>32       | 26<br>27<br>28<br>26<br>26<br>26<br>26<br>25<br>25<br>25<br>25<br>26<br>24<br>23             |
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| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15                   | 4506<br>4563<br>4394<br>4666<br>4663<br>4884<br>5034<br>4873<br>4555<br>4674<br>4474<br>3942<br>4057<br>4555                         | quantity<br>42<br>29<br>31<br>30<br>31<br>31<br>31<br>31<br>31<br>29<br>27<br>27<br>30<br>31       | variety4<br>2<br>23<br>24<br>23<br>24<br>23<br>24<br>23<br>24<br>24<br>22<br>20<br>21<br>23<br>24  | 5482<br>5608<br>5868<br>5932<br>5809<br>5954<br>5448<br>6244<br>5639<br>7391<br>5701<br>5328<br>5267<br>5401<br>5425                                 | quantity<br>51<br>33<br>33<br>35<br>35<br>35<br>35<br>35<br>32<br>37<br>33<br>45<br>31<br>30<br>31   | variety5<br>1<br>25<br>26<br>27<br>27<br>27<br>25<br>27<br>26<br>31<br>23<br>24<br>24<br>25<br>25  | 5186<br>5228<br>5588<br>5768<br>5469<br>5092<br>5096<br>5537<br>4929<br>5153<br>4800<br>5122<br>4949<br>4823<br>5069   | quantity 52  34 34 36 36 36 32 33 35 32 32 30 33 32  | variety5 2  26 27 28 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20                         | sales61  5 5634  6 6188  8 5959  7 6094  8 6961  5 766  6 6305  6 7089  6 5733  4 5706  4 5729  6 6290  6 144                         | quantity 61  36 37 36 36 41 34 36 38 37 41 32 33 34                        | variety6<br>1<br>27<br>28<br>28<br>28<br>28<br>31<br>26<br>27<br>28<br>29<br>30<br>24<br>25<br>26<br>28   | sales62  5315 5641 5604 5627 5532 5362 5473 5485 5485 5184 5041 5008  | quantity<br>62<br>35<br>36<br>36<br>38<br>35<br>35<br>36<br>36<br>33<br>33<br>33<br>32<br>35   | variety6<br>2<br>28<br>27<br>28<br>29<br>28<br>27<br>27<br>27<br>27<br>27<br>25<br>25<br>28   | 6147<br>6333<br>6105<br>6357<br>6638<br>6047<br>6156<br>6527<br>6283<br>6901<br>5820<br>6070<br>6029<br>6177                                 | quantity 71  33 34 33 35 37 34 33 36 32 37 30 31 32 34 33 34 33 36 31 32 37 30 31 32 34 33 36    | variety7 1 27 27 27 28 29 25 26 27 28 29 25 26 27 25 28 23 24 26 27 26  | sales72  5143 5504 5965 5574 5419 5536 5392 5243 5386 5419 5363 5244 5048 5105 5357                                     | quantity<br>72<br>33<br>34<br>37<br>35<br>34<br>33<br>33<br>33<br>35<br>32<br>32<br>31 | variety7 2  26 27 28 26 26 26 25 25 25 26 24 23 24 25 25 25 25                               |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16             | 4506<br>4563<br>4394<br>4666<br>4663<br>4884<br>5034<br>4873<br>4555<br>4674<br>4474<br>3942<br>4057<br>4555<br>4720                 | quantity<br>42<br>29<br>31<br>30<br>31<br>31<br>31<br>31<br>31<br>29<br>27<br>27<br>30<br>31<br>30 | variety4<br>2<br>23<br>24<br>23<br>24<br>23<br>24<br>24<br>22<br>20<br>21<br>23<br>24<br>22<br>24<br>22<br>20<br>21<br>23<br>24<br>24<br>25<br>26<br>27<br>27<br>28<br>28<br>28<br>29<br>29<br>29<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20  | 5482<br>5608<br>5868<br>5932<br>5809<br>5954<br>5448<br>6244<br>5639<br>7391<br>5701<br>5328<br>5267<br>5401<br>5425                                 | quantity 51  33 33 35 35 35 35 32 37 33 45 31 30 31 32 32 35 31  | variety5<br>1<br>25<br>26<br>27<br>27<br>27<br>25<br>27<br>26<br>31<br>23<br>24<br>24<br>25<br>25  | \$186<br>5228<br>5588<br>5768<br>5469<br>5092<br>5096<br>5537<br>4929<br>5153<br>4800<br>5122<br>4949<br>4823<br>5069<br>5101  | quantity 52  34 34 36 36 36 38 32 33 32 30 33 32 34 34                                     | variety5 2  26 27 28 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20                         | sales61  5 5634  6 6188  8 5959  7 6094  8 6961  5 766  6 155  6 6404  6 305  7 7089  6 5706  4 5729  6 6290  6 6144  6 6224          | quantity 61  36 37 36 36 36 41 34 36 38 37 41 32 33 34 36 35               | variety6<br>1<br>27<br>28<br>28<br>28<br>31<br>26<br>27<br>28<br>29<br>30<br>24<br>25<br>26<br>28<br>28   | sales62  5315 5641 5604 5627 5532 5362 5473 5485 5184 5041 5008 5516 5536   | quantity<br>62<br>35<br>36<br>36<br>38<br>35<br>35<br>36<br>36<br>33<br>33<br>33<br>32<br>35   | variety6 2  28 27 28 29 28 27 27 27 27 27 25 25 28 27 28 27 27 27 27 27 27 27 27 27 27 27 27 27   | 6147<br>6333<br>6105<br>6357<br>6638<br>6047<br>6156<br>6527<br>6283<br>6901<br>5820<br>6070<br>6029<br>6177<br>6193                         | quantity 71  33 34 33 35 37 34 33 36 32 37 30 31 32 34 33 34                                     | variety7 1 27 27 27 28 29 25 26 27 25 28 23 24 26 26 27 26 26 27  | sales72  5143 5504 5965 5574 5419 5536 5392 5243 5386 5419 5363 5244 5105 5357 5141 5366                                | quantity 72  33 34 37 35 34 34 33 33 33 35 32 31 31 32 33 32 33 32                     | variety7 2  26 27 28 26 26 26 25 25 25 26 24 23 24 25 25 25 26 24                            |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | 4506<br>4563<br>4394<br>4666<br>4663<br>4884<br>5034<br>4873<br>4555<br>4674<br>4474<br>3942<br>4057<br>4555<br>4720<br>4788<br>4252 | quantity 42  29 31 30 31 31 31 31 31 31 31 31 31 329 27 27 30 31 30 29 30                          | variety4 2  23 24 23 24 23 24 23 24 22 20 21 23 24 23 24 22 20 21 23 24 23 24 23 24 23 24 23 24 24 25 20 21 23 24 24 25 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28   | 5482<br>5608<br>5868<br>5932<br>5809<br>5954<br>5448<br>6244<br>5639<br>7391<br>5701<br>5328<br>5267<br>5401<br>5425<br>6174<br>5424                 | quantity<br>51<br>33<br>33<br>35<br>35<br>35<br>35<br>32<br>37<br>33<br>45<br>31<br>30<br>31<br>32<br>32<br>35<br>31<br>32<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31 | 25<br>26<br>27<br>27<br>27<br>27<br>25<br>27<br>26<br>31<br>23<br>24<br>24<br>25<br>25<br>28<br>24<br>24   | \$186<br>\$228<br>\$588<br>\$768<br>\$469<br>\$5092<br>\$5096<br>\$537<br>\$4929<br>\$1153<br>\$4800<br>\$1122<br>\$4949<br>\$4823<br>\$5069<br>\$101<br>\$5045<br>\$4874            | quantity 52  34 34 36 36 36 37 38 38 38 38 39 39 39 30 30 30 30 30 30 30 30 30 30 30 30 30 | variety5 2  26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20                               | sales61  5 5634  6 6188  8 5959  7 6094  8 6961  6 5766  6 155  6 6404  6 305  7 7089  5 7089  6 6290  6 6144  6 6224  6 5783  6 5842 | quantity 61  36 37 36 36 36 36 31 34 32 33 34 36 35 37 34 34               | variety6<br>1<br>27<br>28<br>28<br>28<br>31<br>26<br>27<br>28<br>29<br>30<br>24<br>25<br>26<br>28<br>28<br>27<br>26<br>26<br>27   | sales62  5315 5641 5604 6150 5627 5362 5362 5473 5485 5184 5041 5008 5516 5536 5536 5536 5536 5536 5536 5536            | quantity<br>62<br>35<br>36<br>36<br>38<br>35<br>35<br>36<br>36<br>36<br>33<br>33<br>32<br>35<br>35<br>35<br>36<br>36<br>36<br>36<br>36<br>36<br>36<br>36<br>36<br>36<br>36<br>36<br>36       | variety6<br>2<br>28<br>27<br>28<br>29<br>28<br>27<br>27<br>27<br>27<br>25<br>25<br>28<br>29<br>27<br>27<br>27<br>27<br>27<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25 | 6147<br>6333<br>6105<br>6357<br>6638<br>6047<br>6156<br>6527<br>6283<br>6901<br>5820<br>5503<br>6079<br>6029<br>6177<br>6193<br>6123<br>5945 | quantity 71  33 34 33 35 37 34 33 36 32 37 30 31 32 34 33 34 33 35                               | variety7 1 27 27 27 28 29 25 26 27 25 28 23 24 26 26 26 25 27 26 27 26 27 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20 | sales72  5143 5504 5965 5574 5419 5536 5392 5243 5386 5419 5363 5244 5105 5357 5141 5366 5149                           | quantity 72  33 34 37 35 34 34 33 33 33 35 32 32 32 32 33 33 32 33 33 33 33 33 33      | variety7 2  26 27 28 26 26 26 25 25 25 25 26 24 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25 |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | 4506<br>4563<br>4394<br>4666<br>4663<br>4884<br>5034<br>4873<br>4555<br>4674<br>4474<br>3942<br>4057<br>4555<br>4720<br>4788<br>4252 | quantity 42  29 31 30 31 31 31 31 31 31 31 31 31 31 30 29 30 30                                    | variety4 2  23 24 23 24 23 24 23 24 22 20 21 23 24 23 24 23 24 22 20 21 23 24 23 24 23 24 23 24 23 24 23 24 23 24 23 24 23 24 24 25 20 20 21 23 24 24 23 24 24 25 20 20 21 23 24 24 25 20 20 21 23 24 24 25 20 20 21 23 24 24 25 20 20 21 23 24 24 25 20 20 21 23 24 24 25 20 20 21 23 24 24 25 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28 | 5482<br>5608<br>5868<br>5932<br>5809<br>5954<br>5448<br>6244<br>5639<br>7391<br>5701<br>5328<br>5267<br>5401<br>5425<br>6174<br>5424<br>5487<br>5771 | quantity 51  33 33 35 35 35 35 32 37 33 45 31 30 31 32 32 35 31  | 25<br>26<br>27<br>27<br>27<br>27<br>25<br>27<br>26<br>31<br>23<br>24<br>24<br>25<br>25<br>25<br>26<br>31<br>23<br>24<br>24<br>25<br>25<br>26<br>27<br>26<br>27<br>27<br>26<br>27<br>27<br>26<br>27<br>27<br>26<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27 | \$186<br>\$228<br>\$588<br>\$768<br>\$469<br>\$5092<br>\$5096<br>\$537<br>\$4929<br>\$1153<br>\$4800<br>\$5122<br>\$4949<br>\$4823<br>\$5069<br>\$5101<br>\$5045<br>\$4874<br>\$5190 | quantity 52  34 34 36 36 36 38 33 35 33 32 30 33 32 34 34 34                               | variety5 2  26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20                               | sales61  5634 6188 5959 6094 6656655666404 65657089 657089 657089 657089 657089 657089 657089 657089 657089 657089 657089             | quantity 61  36 37 36 36 36 36 41 34 36 38 37 41 32 33 34 346 35 37        | variety6<br>1<br>27<br>28<br>28<br>28<br>31<br>26<br>27<br>28<br>29<br>30<br>24<br>25<br>26<br>28<br>28<br>28<br>29<br>30<br>24<br>25<br>26<br>26<br>27<br>26<br>26<br>27<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28 | sales62  5315 5641 5604 6150 5627 5362 5362 5362 5473 5485 5184 5041 5008 5516 5536 5536 5536 5536 5536 5536 5536       | quantity<br>62<br>35<br>36<br>36<br>38<br>35<br>35<br>36<br>36<br>36<br>33<br>33<br>32<br>35<br>35<br>35<br>35<br>36<br>36<br>36<br>36<br>36<br>36<br>36<br>36<br>36<br>36<br>36<br>36<br>36 | variety6<br>2<br>28<br>27<br>28<br>29<br>28<br>27<br>27<br>27<br>27<br>27<br>25<br>25<br>25<br>25<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27                         | 6147<br>6333<br>6105<br>6357<br>6638<br>6047<br>6156<br>6527<br>6283<br>6901<br>5820<br>5503<br>6079<br>6029<br>6177<br>6193<br>6123<br>5945 | quantity 71  33 34 33 35 37 34 33 36 32 37 30 31 32 34 33 34 33 35 36 36 37 30 31 32 34 33 35 36 | variety7 1 27 27 27 28 29 25 26 27 25 28 23 24 26 27 26 27 26 27 28 28 29 20 27 20 20 20 20 20 20 20 20 20 20 20 20 20    | sales72  5143 5504 5965 5574 5419 5536 5392 5243 5386 5419 5363 5244 5105 5357 5141 5366 5149 5522                      | quantity 72  33 34 37 35 34 34 33 33 35 32 32 32 33 32 33 34                           | variety7 2  26 27 28 26 26 26 25 25 25 26 24 23 24 25 25 25 26 24 25 26                      |

Appendix Table 8: The Wife's Work Status and Weekly Food Expenditures

| week | weekly_<br>sales11 | weekly_<br>quantity<br>11 | weekly_<br>variety1<br>1 | 112                | weekly_<br>quantity<br>12 | weekly_<br>variety1<br>2 | weekly_<br>sales21 | weekly_<br>quantity<br>21 | weekly_<br>variety2<br>1 | weekly_<br>sales22 | weekly_<br>quantity<br>22 | weekly_<br>variety2<br>2 | weekly_<br>sales31 | weekly_<br>quantity<br>31 |                          |
|------|--------------------|---------------------------|--------------------------|--------------------|---------------------------|--------------------------|--------------------|---------------------------|--------------------------|--------------------|---------------------------|--------------------------|--------------------|---------------------------|--------------------------|
| 2    | 5407               | 29                        | 22                       | 4502               | 28                        | 21                       | 5229               | 30                        | 23                       |                    | 30                        | 23                       | 4356               | 25                        |                          |
| 3    | 5627               | 31                        | 23                       | 4874               | 29                        | 22                       | 5299               | 30                        | 23                       | 4980               | 32                        | 24                       | 4318               | 25                        | 19                       |
| 4    | 5393               | 29                        | 22                       | 4714               | 29                        | 22                       | 5446               | 31                        | 24                       | 5040               | 32                        | 24                       | 5754               | 31                        |                          |
| 5    | 6244               | 34                        | 24                       | 5154               | 32                        | 23                       | 5701               | 32                        | 24                       | 5220               | 32                        | 24                       | 5242               | 28                        |                          |
| 6    | 5813               | 32                        | 23                       | 4718               | 29                        | 22                       | 5573               | 32                        | 25                       | 5043               | 32                        | 24                       | 5602               | 31                        |                          |
| 7    | 5480               | 29                        |                          |                    | 30                        | 22                       |                    | 31                        | 24                       | 4924               | 30                        | 23                       | 5011               |                           |                          |
| 8    | 5500               |                           |                          |                    | 29                        | 22                       |                    | 31                        | 23                       |                    |                           |                          |                    |                           | -                        |
| 9    | 6207               |                           |                          |                    | 29                        | 20                       |                    |                           | 25                       | 5055               | 31                        | 23                       |                    |                           |                          |
| 10   | 5790               | 31                        | 23                       | 4599               | 29                        | 22                       | 5553               | 32                        | 24                       | 4898               | 31                        | 24                       | 5020               |                           |                          |
| 11   | 6856               |                           |                          |                    | 29                        | 21                       | 6593               |                           | 27                       |                    |                           |                          |                    |                           |                          |
| 12   | 5338               |                           |                          |                    | 25                        | 19                       |                    |                           | 21                       |                    | 29                        |                          |                    |                           |                          |
| 13   | 5499               |                           |                          |                    | 29                        | 20                       |                    |                           | 22                       |                    |                           |                          |                    |                           |                          |
| 14   | 5071               | 29                        | 21                       | 4508               | 27                        | 20                       | 5222               | 30                        | 23                       | 4599               | 29                        | 23                       |                    |                           |                          |
| 15   | 5659               |                           | 23                       |                    | 27                        | 21                       | 5473               | 31                        | 24                       |                    |                           |                          |                    |                           |                          |
| 16   | 5476               |                           |                          |                    | 28                        | 21                       | 5415               | 31                        | 24                       |                    |                           |                          |                    |                           |                          |
| 17   | 5278               |                           |                          | 4642               | 27                        | 21                       | 5559               |                           | 24                       |                    |                           |                          |                    |                           |                          |
| 18   | 5910               |                           | 22                       |                    | 30                        | 22                       | 5484               | 30                        | 23                       |                    | 31                        |                          |                    |                           |                          |
| 19   | 5503               |                           | 23                       |                    | 28                        | 21                       | 5236               |                           | 24                       |                    |                           |                          |                    |                           |                          |
| 20   | 5751               | 31                        | 23                       |                    | 28                        | 21                       | 5499               |                           | 25                       | 4885               |                           |                          |                    |                           |                          |
| 21   | 6041               | 32                        | 24                       | 4913               | 30                        | 22                       | 5885               | 34                        | 26                       | 5230               | 32                        | 25                       | 5991               | 32                        | 23                       |
| week | weekly_<br>sales32 | weekly_<br>quantity<br>32 | weekly_variety3 2        | weekly_<br>sales51 | weekly_<br>quantity<br>51 | weekly_<br>variety5<br>1 | weekly_<br>sales52 | weekly_<br>quantity<br>52 | weekly_<br>variety5<br>2 | weekly_<br>sales61 | weekly_<br>quantity<br>61 | weekly_<br>variety6<br>1 | weekly_<br>sales62 | weekly_<br>quantity<br>62 | weekly_<br>variety6<br>2 |
| 2    | 5214               | 29                        | 22                       | 5454               | 29                        | 23                       | 5111               | 29                        | 23                       | 4971               | 27                        | 21                       | 4572               | 27                        | 21                       |
| 3    | 4658               | 29                        | 22                       | 5212               | 30                        | 25                       | 4924               | 29                        | 23                       | 5144               | 28                        | 22                       | 4871               | 29                        | 22                       |
| 4    | 4746               |                           |                          |                    | 28                        | 23                       | 4945               | 29                        | 23                       |                    |                           |                          |                    |                           |                          |
| 5    | 5433               | 32                        | 21                       | 6214               | 34                        | 28                       | 5105               | 31                        | 24                       | 5704               | 31                        | 23                       | 5163               | 31                        | 23                       |
| 6    | 5060               | 31                        | 22                       | 4771               | 27                        | 21                       | 4927               | 28                        | 22                       | 5566               | 31                        | 23                       | 4888               | 29                        | 22                       |
| 7    | 5069               | 29                        | 22                       | 6023               | 32                        | 26                       | 4985               | 29                        | 22                       | 5205               | 28                        | 22                       | 5038               | 29                        | 22                       |
| 8    | 4818               | 29                        | 23                       | 4351               | 26                        | 23                       | 4857               | 30                        | 25                       | 5327               | 28                        | 22                       | 5115               | 30                        | 22                       |
| 9    | 5539               | 33                        | 23                       | 7040               | 35                        | 28                       | 5415               | 33                        | 25                       | 5845               | 31                        | 23                       | 5451               | 32                        | 23                       |
| 10   | 4620               | 27                        | 20                       | 5692               | 34                        | 26                       | 4474               | 27                        | 21                       | 5373               | 28                        | 22                       | 4922               | 29                        |                          |
| 11   | 5444               | 29                        | 22                       | 6559               | 36                        | 28                       | 5051               | 30                        | 24                       | 6670               | 36                        | 26                       | 5060               | 30                        |                          |
| 12   | 4223               | 24                        | 19                       | 5065               | 27                        | 22                       | 4804               | 29                        | 22                       | 5236               | 27                        | 20                       | 5125               | 30                        |                          |
| 13   | 4365               | 28                        | 18                       | 5143               | 30                        | 23                       | 5632               | 34                        | 26                       | 5292               | 29                        | 21                       | 5069               | 30                        | 22                       |
| 14   | 4879               | 29                        | 22                       | 3972               | 24                        | 20                       | 4302               | 25                        | 20                       | 5075               | 28                        | 21                       | 4813               | 29                        | 21                       |
| 15   | 4551               | 26                        | 19                       | 4845               | 28                        | 24                       | 4907               | 27                        | 22                       | 5232               | 28                        | 22                       | 4619               | 28                        | 21                       |
| 16   | 5023               | 29                        | 22                       | 5393               | 31                        | 26                       | 4913               | 29                        | 24                       | 5335               | 29                        | 22                       | 5037               | 29                        |                          |
| 17   | 4791               | 28                        | 21                       | 5520               | 29                        | 24                       | 4971               | 29                        | 22                       | 5426               | 29                        | 22                       |                    |                           |                          |
| 18   | 5033               | 30                        | 20                       | 5982               | 31                        | 23                       | 4461               | 28                        | 20                       | 5434               | 29                        | 21                       | 5001               | 29                        |                          |
| 19   | 4736               |                           | 20                       |                    | 28                        | 24                       | 4714               |                           | 23                       |                    |                           |                          |                    |                           |                          |
|      |                    |                           |                          |                    |                           |                          |                    |                           |                          |                    |                           |                          |                    |                           |                          |
| 20   | 4600               | 27                        | 21                       | 5396               | 31                        | 25                       | 5066               | 29                        | 23                       | 5356               | 29                        | 23                       | 5020               | 29                        | 22                       |

Appendix Table 9: Descriptive Statistics by Prefectures

| week   | o_sales tit  | y y  | _variet _  | Sales ty   |  |  | wata_S Iwa<br>les uar  |  |  |  |  |  |  |  |  |  | , ,  |  |  | -))  |  | araki Ibar<br>ales Qua  |   |  |  |  | iriety _   | Sales ty  | y .  | Gumma S<br>_Variety _   | Sales -   | Quanti<br>y –   | aitama (<br>Variety a  | ales   |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|--|--|--|--|---|--|---|---|---|--|--|
| 2  | 4531   | 29   | 20   | 5343   | 34   | 25   | 5405   | 32   | 24   | 6069   | 33   | 27   | 3933   | 24   | 20   | 4425   | 27   | 21   | 5185   | 32   | 23   | 5477  | 34  | 25   | 4276   | 25   | 19   | 4973  | 29   | 21  | 5256  | 30  | 23   | 5059   |
| 3  | 5105<br>5177   | 30<br>29   | 22<br>21   | 4877<br>6135   | 30<br>35   | 24<br>27   | 6278<br>5442   | 34<br>35   | 25<br>27   | 6354<br>6995   | 33<br>38   | 26<br>29   | 4731<br>4297   | 26<br>28   | 21<br>22   | 5931<br>5102   | 30<br>37   | 23<br>23   | 4126<br>4771   | 28<br>29   | 20<br>21   | 5606<br>5745  | 34<br>34  | 26<br>25   | 4148<br>4290   | 27<br>26   | 21<br>21   | 4471<br>4628  | 28<br>29   | 21<br>20  | 5113<br>5600  | 28<br>32  | 23<br>25   | 5445<br>5308   |
| 5  | 5673   | 32   | 22   | 5088   | 31   | 24   | 5331   | 31   | 25   | 7295   | 38   | 29   | 4081   | 26   | 21   | 5358   | 32   | 24   | 47/1   | 30   | 23   | 6157  | 38  | 26   | 5504   | 35   | 25   | 5510  | 33   | 23  | 6132  | 34  | 25   | 5656   |
| 6  | 5077   | 31   | 22   | 6030   | 38   | 25   | 5392   | 34   | 26   | 6784   | 40   | 32   | 5310   | 30   | 25   | 5522   | 32   | 25   | 4112   | 27   | 20   | 5713  | 36  | 26   | 4124   | 26   | 21   | 4874  | 30   | 21  | 5490  | 31  | 24   | 5470   |
| 7  | 5452   | 31   | 22   | 6096   | 33   | 25   | 6393   | 37   | 28   | 6441   | 37   | 30   | 4755   | 26   | 21   | 5816   | 32   | 22   | 5275   | 31   | 23   | 5459  | 33  | 24   | 4212   | 28   | 21   | 5035  | 30   | 22  | 5290  | 30  | 23   | 5424   |
| 8  | 5150   | 30   | 21   | 5210   | 32   | 24   | 4782   | 28   | 21   | 6761   | 35   | 27   | 4605   | 26   | 22   | 5548   | 29   | 23   | 4231   | 28   | 21   | 6113  | 38  | 25   | 5024   | 29   | 22   | 5363  | 32   | 22  | 5205  | 29  | 22   | 5355   |
| 9  | 5792   | 33   | 23   | 5998   | 34   | 26   | 6989   | 39   | 28   | 8003   | 40   | 30   | 5086   | 33   | 25   | 6113   | 33   | 25   | 6440   | 41   | 30   | 6215  | 38  | 26   | 4738   | 29   | 22   | 5469  | 33   | 23  | 6282  | 35  | 24   | 5966   |
| 10   | 4916   | 31   | 22   | 5435   | 32   | 23   | 5714   | 33   | 25   | 6810   | 37   | 30   | 5331   | 28   | 22   | 4497   | 27   | 19   | 4426   | 31   | 22   | 5311  | 32  | 23   | 4398   | 27   | 20   | 5213  | 30   | 22  | 5365  | 30  | 23   | 5359   |
| 11   | 5882   | 32   | 22   | 8170   | 44   | 30   | 4852   | 26   | 19   | 3646   | 13   | 10   | 6431   | 36   | 26   | 7066   | 41   | 27   | 5319   | 27   | 19   | 4815  | 27  | 19   | 4744   | 28   | 22   | 5929  | 34   | 23  | 6855  | 38  | 28   | 6761   |
| 12   | 5041   | 28   | 20   | 4138   | 27   | 19   | 4202   | 26   | 19   | 5392   | 28   | 21   | 4691   | 27   | 22   | 4100   | 24   | 17   | 3513   | 22   | 15   | 5527  | 32  | 24   | 4512   | 26   | 21   | 4570  | 27   | 19  | 5096  | 28  | 21   | 5334   |
| 13   | 5114   | 29   | 20   | 5671   | 30   | 23   | 6592   | 38   | 28   | 4890   | 23   | 18   | 5813   | 25   | 21   | 5263   | 24   | 17   | 4517   | 23   | 17   | 5799  | 33  | 24   | 4556   | 26   | 18   | 4619  | 27   | 19  | 5286  | 30  | 22   | 5267   |
| 14   | 5061   | 29   | 21   | 4905   | 27   | 19   | 5739   | 33   | 26   | 4801   | 27   | 18   | 4324   | 27   | 21   | 3846   | 25   | 18   | 4497   | 27   | 21   | 6209  | 34  | 26   | 4339   | 26   | 21   | 4469  | 26   | 20  | 5227  | 29  | 22   | 5032   |
| 15   | 4991   | 28   | 21   | 5586   | 31   | 25   | 7264   | 38   | 30   | 5152   | 27   | 21   | 5225   | 32   | 25   | 4942   | 27   | 20   | 3979   | 26   | 19   | 6340  | 35  | 27   | 5096   | 29   | 22   | 4818  | 29   | 21  | 5551  | 31  | 24   | 5563   |
| 16<br>17   | 5309<br>5484   | 30<br>32   | 22<br>22   | 5137<br>5350   | 33<br>33   | 23<br>24   | 5604<br>6913   | 33<br>38   | 26<br>28   | 6058<br>5272   | 34<br>31   | 28<br>24   | 4961<br>4458   | 30<br>25   | 24<br>21   | 4874<br>4906   | 28<br>25   | 22<br>19   | 4463<br>4378   | 28<br>28   | 22<br>21   | 5977<br>5992  | 36<br>34  | 26<br>26   | 4596<br>4195   | 26<br>24   | 21<br>19   | 4967<br>5072  | 29<br>30   | 22<br>21  | 5383<br>5379  | 30<br>30  | 23<br>24   | 5342<br>5595   |
| 18   | 5376   | 30   | 21   | 5710   | 32   | 24   | 6963   | 38<br>39   | 30   | 4272   | 23   | 17   | 5088   | 27   | 22   | 4594   | 25   | 19   | 5169   | 30   | 22   | 5395  | 31  | 23   | 4631   | 27   | 20   | 5694  | 29   | 20  | 5783  | 32  | 23   | 5495   |
| 19   | 4887   | 28   | 21   | 5602   | 32   | 25   | 5517   | 32   | 26   | 6542   | 30   | 23   | 4640   | 28   | 22   | 4432   | 25   | 19   | 4818   | 31   | 22   | 5424  | 31  | 23   | 4450   | 27   | 21   | 4826  | 31   | 23  | 5306  | 31  | 23   | 5105   |
| 20   | 5184   | 30   | 22   | 4584   | 28   | 22   | 5399   | 33   | 26   | 6592   | 34   | 27   | 4846   | 28   | 24   | 4189   | 26   | 20   | 5978   | 38   | 26   | 5792  | 33  | 25   | 4420   | 28   | 21   | 4970  | 32   | 23  | 5699  | 32  | 25   | 5475   |
| 21   | 5318   | 31   | 22   | 5077   | 33   | 24   | 5941   | 37   | 28   | 7574   | 41   | 28   | 4777   | 27   | 22   | 4922   | 24   | 20   | 5042   | 30   | 22   | 6081  | 35  | 26   | 5408   | 30   | 22   | 5673  | 34   | 24  | 5428  | 31  | 24   | 5888   |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |  |  |  |  |   |  |   |   |   |  |  |
| week   | cs an  | itity 110  | cty a  | Shiga_S Shig<br>lles Qua<br>y  | an   |  | Lyoto – Ky<br>ales – Qu  | v  | Cyoto_ (<br>/ariety S  | sales y  |  |  | sales y  | V  | ariety I   |  | ntity ar   | iety s   | akaya Wa<br>a_Sale ma<br>ntit  | ty ety   | - Vall Si  | ales y  | ntit Vari   | ori_ Sh  | Sales ity  | man Shir<br>uant e_V<br>y  | ariet a  | Sales it  | _Quant :   | Okayam I<br>a_Variet 1<br>y s   | na_Sale r   | na_Qua m<br>tity e  | na_Vari o<br>ty e  | chi_Sal  |
| 2  | 5515   | 34   | 27   | 5414   | 33   | ety S  | Lyoto _ Qu<br>ales _ y   | 28   | /ariety S  | 4674   | 28   | 22   | 4596   | 29   | ariety 1   | 4649   | ntity ar   | iety s   | 4817   | ty ety   | 22   | 4583  | Vari  | 20 e_  | Sales e_C<br>ity   | uant e_V<br>y<br>23  | ariet a  | Sales it  | Quant ty 30  | a_Variet in s   | ma_Sale r<br>4898   | na_Qua m<br>tity er   | na_Vari o  | chi_Sal<br>es<br>4402  |
| week   | 5515<br>5250   | 34<br>32   | 27<br>25   | 5414<br>5231   | 33<br>31   | 25<br>22   | Lyoto Qu<br>ales 4878<br>4826  | 28<br>29   | 22<br>23   | 4674<br>5312   | 28<br>32   | 22 24  | 4596<br>4931   | 29<br>30   | 22<br>23   | 4649<br>4902   | 29<br>29   | 21<br>22   | 4817<br>4865   | 30<br>28   | 22<br>21   | 4583<br>4228  | 29<br>29  | 20<br>22   | Sales e_C<br>ity<br>3502<br>4867   | 23<br>30   | 20<br>24   | Sales it  | Quant : 30 33  | a_Variet r<br>y s<br>23<br>24   | 4898<br>4892  | na_Qua m<br>tity er   | na_Vari c<br>ty e<br>24<br>25  | ehi_Sal<br>es<br>4402<br>5033  |
| 2  | 5515<br>5250<br>5337   | 34<br>32<br>32   | 27<br>25<br>24   | 5414<br>5231<br>5952   | 33<br>31<br>34   | 25<br>22<br>24   | Ayoto Qu<br>y<br>4878<br>4826<br>4903  | 28<br>29<br>31   | 22<br>23<br>23   | 4674<br>5312<br>5396   | 28<br>32<br>32   | 22<br>24<br>24   | 4596<br>4931<br>5535   | 29<br>30<br>33   | 22<br>23<br>24   | 4649<br>4902<br>5576   | 29<br>29<br>32   | 21<br>22<br>24   | 4817<br>4865<br>5055   | 30<br>28<br>29   | 22<br>21<br>21   | 4583<br>4228<br>4751  | 29<br>29<br>30  | 20<br>22<br>23   | Sales e_C<br>ity<br>3502<br>4867<br>4277   | 23<br>30<br>28   | 20<br>24<br>23   | Sales it 4548 5023 4916   | Quant ty 30 33 31  | 23<br>24<br>24  | 4898<br>4892<br>4483  | na_Qua m<br>tity er<br>31<br>32<br>29   | 24<br>25<br>23   | 4402<br>5033<br>5130   |
| 2<br>3<br>4<br>5   | 5515<br>5250<br>5337<br>6432   | 34<br>32<br>32<br>32<br>38   | 27<br>25<br>24<br>27   | 5414<br>5231<br>5952<br>6099   | 33<br>31<br>34<br>40   | 25<br>22<br>24<br>25   | Ayoto  | 28<br>29<br>31<br>32   | 22<br>23<br>23<br>24   | 4674<br>5312<br>5396<br>5629   | 28<br>32<br>32<br>33   | 22<br>24<br>24<br>24<br>25   | 4596<br>4931<br>5535<br>5145   | 29<br>30<br>33<br>30   | 22<br>23<br>24<br>23   | 4649<br>4902<br>5576<br>5150   | 29<br>29<br>32<br>32   | 21<br>22<br>24<br>23   | 4817<br>4865<br>5055<br>5096   | 30<br>28<br>29<br>31   | 22<br>21<br>21<br>23   | 4583<br>4228<br>4751<br>4890  | 29<br>29<br>30<br>32  | 20<br>22<br>23<br>24   | Sales e_C<br>ity<br>3502<br>4867<br>4277<br>3974   | 23<br>30<br>28<br>25   | 20<br>24<br>23<br>20   | Sales it 4548 5023 4916 5333  | Quant : 30 33 31 32  | 23<br>24<br>24<br>24<br>24  | 4898<br>4892<br>4483<br>5181  | 31<br>32<br>29<br>32  | 24<br>25<br>23<br>25   | 4402<br>5033<br>5130<br>4962   |
| 2  | 5515<br>5250<br>5337<br>6432<br>5294   | 34<br>32<br>32<br>32<br>38<br>33   | 27<br>25<br>24<br>27<br>25   | 5414<br>5231<br>5952<br>6099<br>4912   | 33<br>31<br>34<br>40<br>30   | 25<br>22<br>24<br>25<br>23   | Kyoto Qu<br>y 4878<br>4826<br>4903<br>5580<br>4838   | 28<br>29<br>31<br>32<br>30   | 22<br>23<br>23<br>24<br>23   | 4674<br>5312<br>5396<br>5629<br>5423   | 28<br>32<br>32<br>33<br>33   | 22<br>24<br>24<br>25<br>24   | 4596<br>4931<br>5535<br>5145<br>4926   | 29<br>30<br>33<br>30<br>31   | 22<br>23<br>24<br>23<br>24<br>23<br>24   | 4649<br>4902<br>5576<br>5150<br>5201   | 29<br>29<br>32<br>32<br>32<br>32   | 21<br>22<br>24<br>23<br>23   | 4817<br>4865<br>5055<br>5096<br>4750   | 30<br>28<br>29<br>31<br>29   | 22<br>21<br>21<br>23<br>21   | 4583<br>4228<br>4751<br>4890<br>4302  | 29<br>29<br>30<br>32<br>30  | 20<br>22<br>23<br>24<br>22   | Sales e_C<br>ity<br>3502<br>4867<br>4277<br>3974<br>4306   | 23<br>30<br>28<br>25<br>26   | 20<br>24<br>23<br>20<br>22   | Sales a it 4548 5023 4916 5333 5006   | 30<br>33<br>31<br>32<br>32   | 23<br>24<br>24<br>24<br>24<br>24<br>24  | 4898<br>4892<br>4483<br>5181<br>4907  | 31<br>32<br>29<br>32<br>30  | 24<br>25<br>23<br>25<br>24   | 4402<br>5033<br>5130<br>4962<br>5093   |
| 2<br>3<br>4<br>5<br>6<br>7   | 5515<br>5250<br>5337<br>6432<br>5294<br>5809   | 34<br>32<br>32<br>32<br>38<br>33<br>29   | 27<br>25<br>24<br>27<br>25<br>22<br>25<br>23   | 5414<br>5231<br>5952<br>6099<br>4912<br>5478   | 33<br>31<br>34<br>40<br>30<br>31   | 25<br>22<br>24<br>25<br>23<br>22   | Eyoto Qu<br>y 4878<br>4826<br>4903<br>5580<br>4838<br>4864   | 28<br>29<br>31<br>32<br>30<br>30   | 22<br>23<br>23<br>24<br>23<br>24   | 4674<br>5312<br>5396<br>5629<br>5423<br>5407   | 28<br>32<br>32<br>33<br>32<br>32<br>32   | 22<br>24<br>24<br>25<br>24<br>24<br>24   | 4596<br>4931<br>5535<br>5145<br>4926<br>5108   | 29<br>30<br>33<br>30<br>31<br>30   | 22<br>23<br>24<br>23<br>24<br>23<br>24<br>23   | 4649<br>4902<br>5576<br>5150<br>5201<br>5252   | 29<br>29<br>32<br>32<br>32<br>31   | 21<br>22<br>24<br>23<br>23<br>23   | 4817<br>4865<br>5055<br>5096<br>4750<br>5111   | 30<br>28<br>29<br>31<br>29<br>31   | 22<br>21<br>21<br>23<br>21<br>22<br>21<br>22   | 4583<br>4228<br>4751<br>4890<br>4302<br>4421  | 29<br>29<br>30<br>32<br>30<br>27  | 20<br>22<br>23<br>24<br>22<br>21   | Sales e_C<br>ity<br>3502<br>4867<br>4277<br>3974<br>4306<br>3913   | 23<br>30<br>28<br>25<br>26<br>24   | 20<br>24<br>23<br>20<br>22<br>20   | Sales it 4548 5023 4916 5333 5006 4597  | 30<br>33<br>31<br>32<br>32<br>30   | a_Variet r<br>y   | ma_Sale r<br>4898<br>4892<br>4483<br>5181<br>4907<br>4878   | na_Qua m<br>tity ei<br>31<br>32<br>29<br>32<br>30<br>29   | 24<br>25<br>23<br>25<br>24<br>23   | 2402<br>5033<br>5130<br>4962<br>5093<br>5128   |
| 2<br>3<br>4<br>5   | 5515<br>5250<br>5337<br>6432<br>5294<br>5809<br>5749   | 34<br>32<br>32<br>32<br>38<br>33<br>29<br>35   | 27<br>25<br>24<br>27<br>25<br>23<br>27   | 5414<br>5231<br>5952<br>6099<br>4912<br>5478<br>5277   | 33<br>31<br>34<br>40<br>30<br>31<br>31   | 25<br>22<br>24<br>25<br>23<br>22<br>23   | Kyoto Qu y 4878<br>4826<br>4903<br>5580<br>4838<br>4864<br>4789  | 28<br>29<br>31<br>32<br>30<br>30<br>29   | 22<br>23<br>23<br>24<br>23<br>24<br>23<br>24<br>22   | 4674<br>5312<br>5396<br>5629<br>5423<br>5407<br>5355   | 28<br>32<br>32<br>33<br>32<br>32<br>32<br>32   | 22<br>24<br>24<br>25<br>24<br>24<br>24<br>24   | 4596<br>4931<br>5535<br>5145<br>4926<br>5108<br>5178   | 29<br>30<br>33<br>30<br>31<br>30<br>30   | 22<br>23<br>24<br>23<br>24<br>23<br>24<br>23<br>24<br>23<br>23   | 4649<br>4902<br>5576<br>5150<br>5201<br>5252<br>4747   | 29<br>29<br>32<br>32<br>32<br>31<br>29   | 21<br>22<br>24<br>23<br>23<br>23<br>22   | 4817<br>4865<br>5055<br>5096<br>4750<br>5111<br>4634   | 30<br>28<br>29<br>31<br>29<br>31<br>27   | 22<br>21<br>21<br>23<br>21<br>22<br>22<br>20   | 4583<br>4228<br>4751<br>4890<br>4302<br>4421<br>5834  | 29<br>29<br>30<br>32<br>30<br>27<br>30  | 20<br>22<br>23<br>24<br>22<br>21<br>23   | 3502<br>4867<br>4277<br>3974<br>4306<br>3913<br>4388   | 23<br>30<br>28<br>25<br>26<br>24<br>24   | 20<br>24<br>23<br>20<br>22<br>20<br>20<br>20   | Sales it 4548 5023 4916 5333 5006 4597 4829   | 30<br>33<br>31<br>32<br>32<br>30<br>30   | a_Variet r<br>y s<br>23<br>24<br>24<br>24<br>24<br>24<br>23<br>23   | ma_Sale r<br>4898<br>4892<br>4483<br>5181<br>4907<br>4878<br>4868   | 31<br>32<br>29<br>32<br>30<br>29<br>30  | 24<br>25<br>23<br>25<br>24<br>23<br>23<br>23   | 4402<br>5033<br>5130<br>4962<br>5093<br>5128<br>4811   |
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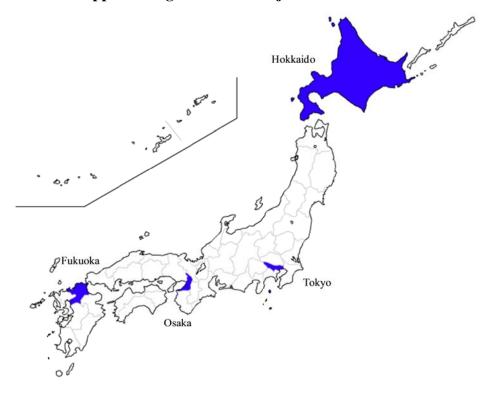
| Chiba_<br>Quantit<br>y  | Chiba_<br>Variety  | Tokyo_<br>Sales  | Tokyo_ To<br>Quantit Va  | kyo_ wriety s  | Kanaga k<br>va_Sale v  | Kanaga Ka<br>wa_Qua wa<br>ntity ety  | anaga<br>a_Vari S  | Niigata_   | Niigata_ 1<br>Quantit ,  | Niigata_ '<br>Variety _  | Toyama<br>_Sales   | Toyama T<br>_Quanti<br>ty -   | oyama l<br>Variety a                           | shikaw<br>n_Sales   | Ishikaw Is<br>a_Quant a<br>ity y  | hikaw<br>Variet a  | ukui_S lles  | Fukui_ Fu<br>Quantit ari   | kui_V Si  | amana Y<br>hi_Sale sl<br>n   | amana Ya<br>hi_Qua shi<br>tity ety  | mana<br>_Vari   | lagano l<br>Sales -  | Nagano<br>_Quanti  | agano (<br>Variety l   | Gifu_Sa (  | Gifu_Q Gantity rie   | ifu_Va s   | Shizuok Sa_Sales it   | _Quant a_   | izuok<br>Variet a   | lichi_S Α  | Aichi_Q A<br>uantity a  |  |
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| 30  | 23   | 5343   | 29   | 22   | 5031   | 27   | 22   | 4962   | 31   | 23   | 4815   | 32  | 24   | 3887  | 25  | 19   | 4419   | 27   | 23  | 3600   | 22  | 19  | 4596   | 26   | 21   | 4694   | 29   | 22   | 4792  | 30  | 22  | 4843   | 30  | 23   |
| 31  | 25   | 5197   | 29   | 22   | 5663   | 29   | 23   | 5108   | 31   | 23   | 4655   | 31  | 25   | 4401  | 29  | 22   | 4884   | 31   | 25  | 4049   | 23  | 20  | 4289   | 26   | 20   | 5076   | 33   | 24   | 5100  | 30  | 24  | 5101   | 31  | 24   |
| 31  | 24   | 5535   |  | 23   | 5527   | 28   | 22   | 4738   | 29   | 21   | 4416   | 30  | 23   | 5687  | 34  | 25   | 5002   | 28   | 24  | 4473   | 26  | 21  | 4707   | 26   | 21   | 5353   | 32   | 25   | 4664  | 29  | 22  | 5014   | 31  | 23   |
| 32  | 25   | 5882   | 32   | 23   | 5783   | 31   | 24   | 5344   | 33   | 22   | 5031   | 35  | 26   | 4633  | 31  | 23   | 5389   | 34   | 25  | 4116   | 25  | 21  | 4887   | 30   | 21   | 5292   | 33   | 23   | 5128  | 31  | 22  | 5502   | 32  | 24   |
| 32  | 25   | 5799   |  | 24   | 5903   | 31   | 24   | 4817   | 29   | 22   | 4504   | 31  | 25   | 5013  | 30  | 22   | 4898   | 28   | 23  | 5178   | 28  | 23  | 4079   | 24   | 19   | 5053   | 32   | 25   | 4887  | 30  | 23  | 5126   | 30  | 23   |
| 31  | 24   | 5532   | 29   | 22   | 5457   | 29   | 23   | 5139   | 31   | 23   | 5575   | 33  | 26   | 5598  | 32  | 24   | 4761   | 29   | 23  | 3816   | 22  | 19  | 4980   | 27   | 21   | 5881   | 34   | 26   | 5459  | 31  | 23  | 4935   | 30  | 23   |
| 31  | 24   | 5614   | 30   | 22   | 5425   | 28   | 22   | 4907   | 27   | 21   | 4367   | 31  | 25   | 4876  | 29  | 22   | 4763   | 30   | 24  | 4014   | 25  | 20  | 4626   | 27   | 22   | 5817   | 32   | 26   | 5040  | 30  | 23  | 5082   | 31  | 23   |
| 34  | 25   | 5875   | 32   | 23   | 6139   | 31   | 24   | 5755   | 37   | 24   | 4554   | 32  | 23   | 4883  | 29  | 21   | 5442   | 32   | 25  | 4455   | 27  | 20  | 4685   | 28   | 21   | 5689   | 31   | 24   | 5345  | 32  | 23  | 5188   | 32  | 24   |
| 31  | 24   | 5800   | 31   | 23   | 5550   | 29   | 23   | 5353   | 32   | 24   | 4984   | 33  | 26   | 5465  | 33  | 25   | 4613   | 26   | 21  | 4259   | 24  | 21  | 4239   | 26   | 21   | 4678   | 30   | 23   | 5138  | 31  | 23  | 4982   | 29  | 22   |
| 39  | 27   | 6793   | 37   | 26   | 6499   | 34   | 26   | 6635   | 41   | 28   | 4498   | 30  | 23   | 4914  | 29  | 22   | 4735   | 28   | 23  | 5006   | 31  | 25  | 6203   | 34   | 25   | 5395   | 34   | 26   | 6143  | 34  | 26  | 5363   | 32  | 24   |
| 30  | 22   | 5278   |  | 20   | 5456   | 27   | 21   | 4769   | 26   | 18   | 4377   | 30  | 23   | 5345  | 34  | 25   | 4707   | 27   | 22  | 4148   | 24  | 18  | 3864   | 22   | 18   | 4718   | 29   | 22   | 5049  | 30  | 23  | 5023   | 30  | 23   |
| 31  | 23   | 5238   |  | 21   | 5293   | 28   | 21   | 4901   | 28   | 20   | 4997   | 30  | 23   | 4713  | 27  | 20   | 5155   | 28   | 21  | 4163   | 22  | 18  | 4519   | 27   | 20   | 4570   | 25   | 20   | 5313  | 30  | 22  | 5129   | 31  | 23   |
| 29  | 23   | 5338   |  | 22   | 5223   | 28   | 22   | 4582   | 28   | 21   | 4954   | 34  | 25   | 4199  | 29  | 22   | 4802   | 29   | 24  | 3553   | 22  | 18  | 4419   | 25   | 20   | 3759   | 24   | 19   | 4976  | 30  | 23  | 4966   | 30  | 23   |
| 31  | 25   | 5446   |  | 23   | 5311   | 29   | 23   | 4591   | 28   | 21   | 4096   | 29  | 22   | 5418  |   | 24   | 4767   | 30   | 25  | 4957   | 26  | 21  | 4233   | 23   | 19   | 4824   | 30   | 23   | 5038  | 31  | 23  | 4824   | 30  | 23   |
| 31  | 24   | 5373   | 29   | 22   | 5731   | 31   | 24   | 4617   | 27   | 21   | 5001   | 30  | 24   | 4846  | 31  | 23   | 4586   | 28   | 23  | 4448   | 26  | 22  | 4355   | 25   | 20   | 4833   | 28   | 22   | 5101  | 30  | 24  | 5230   | 31  | 24   |
| 31  | 24   | 5660   | 30   | 23   | 5616   | 30   | 23   | 5188   | 29   | 21   | 4517   | 31  | 24   | 5719  | 33  | 23   | 5345   | 31   | 24  | 4076   | 26  | 22  | 4492   | 26   | 20   | 5607   | 31   | 24   | 4733  | 29  | 21  | 4916   | 30  | 23   |
| 32  | 24   | 5547   | 29   | 21   | 5345   | 27   | 21   | 4928   | 30   | 21   | 5082   | 33  | 24   | 4972  | 28  | 21   | 4451   | 26   | 21  | 4735   | 25  | 20  | 4684   | 28   | 21   | 5135   | 30   | 23   | 5383  | 30  | 22  | 5402   | 31  | 23   |
| 30  | 23   | 5382   | 29   | 22   | 5272   | 29   | 22   | 4874   | 29   | 22   | 4543   | 31  | 24   | 5042  | 33  | 24   | 4582   | 29   | 24  | 4615   | 25  | 22  | 4257   | 24   | 19   | 4570   | 29   | 24   | 4877  | 31  | 23  | 4893   | 30  | 23   |
| 32<br>34  | 24<br>26   | 5532<br>6157   |  | 23<br>24   | 5598<br>5773   | 30<br>31   | 24<br>24   | 5339<br>5363   | 32<br>30   | 23<br>23   | 4509<br>4828   | 31<br>33  | 25<br>25                                       | 4821<br>5949  | 28<br>34  | 22<br>25   | 4172<br>4504   | 26<br>28   | 21<br>22  | 3980<br>4425   | 27<br>26  | 21<br>22  | 4709<br>4895   | 29<br>27   | 23<br>22   | 5079<br>4335   | 32<br>27   | 25<br>20   | 5178<br>5380  | 30<br>33  | 23<br>24  | 4944<br>5393   | 30<br>32  | 23<br>25   |
| 34  | 20   |  |  |  |  |  |  |  |  |  |  |   |  |   |   |  |  |  |   |  |   |   |  |  |  |  |  |  |   |   |   |  |   |  |
|   |  |  |  |  |  |  |  |  |  |  |  |   | 23   |   |   |  | 4304   | 28   | 22  |  |   |   |  |  |  | 1000   | 21   | 20   |   |   |   |  |   |  |
|   |  |  | Tokushi To   | kushi <sub>k</sub>   |  |  |  |  |  |  |  |   |  |   | F 1 1 F   | 1 1  |  |  |   |  | lagacak Na  | ancak K   | umam 1   | Kumam K  | umam   |  |  | ita Va I   | Mivaza .  | /liyaza M   | iyaza k   | agoshi I   | Kagoshi K   |  |
| chi_Qua   | chi_Vari   | ma_Sale  | Tokushi To<br>ma_Qua ma  | kushi<br>_Vari   |  |  |  |  |  |  |  | Kochi_ F  | Lochi_ 1                                       | Fukuok  | Fukuok F<br>a_Quant a   | 1 1  |  |  |   | lagasak i  | lagasak Na<br>_Quant i_V  | gasak K<br>Variet ot  | iumam l<br>to_Sal o  | Kumam K<br>oto_Qu o  | umam (   |  | Oita_Qu O  | ita Va I   | Mivaza .  | /liyaza M   | iyaza k<br>_Varie n   | agoshi I<br>na_Sal r   | Kagoshi K<br>ma_Qua m   | na_Vari  |
|   | chi_Vari   |  | Tokushi To   | kushi<br>_Vari   |  | Kagawa Ka<br>Quanti _V<br>y  |  |  |  |  |  | Kochi_ F  |  | Fukuok  | F 1 1 F   | 1 1  |  | Saga_Q Sa<br>nantity ari   |   |  | lagasak Na<br>_Quant i_V  | ancak K   | iumam l<br>to_Sal o  | Kumam K  | umam (   |  |  | ita Va I   | Miyaza N  | /liyaza M   | iyaza k<br>_Varie n   | agoshi I<br>na_Sal r   | Kagoshi K   | na_Vari  |
| chi_Qua   | chi_Vari   | ma_Sale<br>s   | Tokushi To<br>ma_Qua ma<br>ntity ety<br>26   | kushi<br>_Vari   |  |  |  |  |  |  |  | Kochi_ F  | Lochi_ 1                                       | Fukuok<br>n_Sales<br>4179   | Fukuok F<br>a_Quant a   | 1 1  |  |  |   | lagasak i  | lagasak Na<br>_Quant i_V  | gasak K<br>Variet ot  | iumam l<br>to_Sal o  | Kumam K<br>oto_Qu o  | umam (   |  | Oita_Qu O  | ita Va I   | Mivaza .  | Miyaza M<br>i_Quan ki<br>ity ty<br>29   | iyaza k<br>_Varie n   | Kagoshi I<br>na_Sal r<br>s r   | Kagoshi K<br>ma_Qua m   | na_Vari  |
| chi_Quantity 29 33  | chi_Vari<br>ety 23<br>26   | ma_Sale<br>s<br>4023<br>4202   | Tokushi To<br>ma_Qua ma<br>ntity ety<br>26<br>28   | kushi K<br>LVari K<br>20<br>21   | Sales ty   | Kagawa Ka<br>Quanti V<br>y 30<br>29  | agawa F<br>Variety S<br>22<br>22   | Ehime_ Sales   | Ehime_ l<br>Quantit ,<br>y   | Ehime_ :<br>Variety :<br>22<br>21  | Kochi_<br>Sales<br>3771<br>5047  | Kochi_<br>Quantit y<br>24<br>30   | Zochi_ lariety a                               | Fukuok<br>n_Sales<br>4179<br>4821   | Fukuok F<br>a_Quant a<br>ity y  | ukuok<br>_Variet 1   | Saga_Sa S  | Saga_Q Sa<br>nantity ari   | ga_V Nety i   | lagasak i<br>Sales it  | Jagasak Na<br>Quant i_V<br>y y<br>27<br>29  | gasak K<br>Variet ot<br>es<br>21<br>22  | to_Sal os a 4398 5856  | Kumam K oto_Qu of antity ie  | to_Var lety 20   | Dita_Sa (es a 5224 4075  | Oita_Qu Ointity rie  | ita_Va l<br>ety l  | Miyaza k<br>ki_Sales ti<br>4832<br>5415   | Miyaza M<br>i_Quan ki<br>ity ty<br>29<br>32   | iyaza k<br>_Varie n<br>e<br>22<br>24  | Kagoshi I<br>na_Sal r<br>s r<br>3651<br>3802   | Kagoshi K<br>ma_Qua m<br>ntity et   | na_Vari<br>ty<br>18<br>20  |
| chi_Quantity 29 33 32   | chi_Vari<br>ety 23 26 25   | ma_Sale<br>s<br>4023<br>4202<br>4185   | Tokushi To<br>ma_Qua ma<br>ntity ety<br>26<br>28<br>27   | kushi k<br>Vari –<br>20<br>21<br>20  | Xagawa K<br>Sales t<br>4724<br>4633<br>4807  | Kagawa Ka<br>Quanti V<br>y 30<br>29<br>30                                  | agawa F<br>Variety S<br>22<br>22<br>22<br>23   | Ehime_Sales 4864<br>4782<br>5106   | Ehime_Quantit ,  | Ehime_ :<br>Variety :<br>22<br>21<br>23  | Kochi_<br>Sales<br>3771<br>5047<br>4197  | Kochi_<br>Quantit y<br>24<br>30<br>26   | Zochi_ lariety a                               | Fukuok<br>n_Sales<br>4179<br>4821<br>5020   | Fukuok F<br>a_Quant a<br>ity y<br>27<br>28<br>29  | Variet 1   | 3385<br>3808<br>4649   | Saga_Q Sa<br>nantity ari   | ga_V N<br>ety i<br>16<br>20<br>19                   | Jagasak i Sales it 4230 4678 4466  | Jagasak Na<br>Quant i_V<br>y y<br>27<br>29<br>29  | gasak K<br>Variet ot<br>es<br>21<br>22<br>22  | to_Sal os 4398<br>5856<br>4862   | Kumam Koto_Qu or antity ie   | to_Var loty 20 23 20   | Dita_Sa (des a) 5224 4075 4749   | Oita_Qu Ointity rie  | 25<br>22<br>24   | Miyaza k<br>ki_Sales ti<br>4832<br>5415<br>4411   | Miyaza M<br>i_Quan ki<br>ity ty<br>29<br>32<br>27   | iyaza k<br>_Varie n<br>e<br>22<br>24<br>21  | Zagoshi H<br>na_Sal r<br>s r<br>3651<br>3802<br>3707   | Kagoshi K<br>ma_Qua m<br>ntity et   | 18<br>20<br>17   |
| chi_Quantity  29 33 32 32   | 23<br>26<br>25<br>24   | ma_Sale<br>s<br>4023<br>4202<br>4185<br>4232   | Tokushi To<br>ma_Qua ma<br>ntity ety<br>26<br>28<br>27<br>28   | kushi k<br>LVari k<br>20<br>21<br>20<br>19   | Kagawa Kagawa Esales tu  | Cagawa Ka<br>Quanti V<br>y 30<br>29<br>30<br>31                            | agawa F<br>Variety S<br>22<br>22<br>23<br>22   | Ehime_Sales 4864<br>4782<br>5106<br>5574   | Ehime_Quantit 1, yy 29 28 31 34  | Ehime_ :<br>Variety :<br>22<br>21<br>23<br>25  | Kochi_<br>Sales<br>3771<br>5047<br>4197<br>4482  | Kochi Quantit y  24 30 26 29  | Zochi_ la<br>Variety a<br>19<br>23<br>21<br>21 | Fukuok<br>n_Sales<br>4179<br>4821<br>5020<br>4922   | Fukuok F<br>a_Quant a<br>ity y<br>27<br>28<br>29<br>29  | Variet S<br>Variet S<br>21<br>21<br>23<br>22   | 3385<br>3808<br>4649<br>4131   | Saga_Q Sa<br>lantity ari   | ga_V Nety i   | Jagasak i Sales it 4230 4678 4466 4631   | lagasak Na<br>Quant i_V<br>y y<br>27<br>29<br>29<br>29  | gasak K<br>Variet ot<br>es<br>21<br>22<br>22<br>22<br>22  | 4398<br>5856<br>4862<br>5074   | Kumam K oto_Qu of antity ie  26 31 27 31   | to_Var loty  20 23 20 22   | Dita_Sa (des a ses | Oita_Qu Ointity rice  31 27 30 30  | 25<br>22<br>24<br>24   | Miyaza k<br>ki_Sales ti<br>4832<br>5415<br>4411<br>5371   | Miyaza Mi Quan ki ty ty 29 32 27 34   | Varie n<br>e<br>22<br>24<br>21<br>24  | 3651<br>3802<br>3707<br>3998   | Kagoshi K<br>ma_Qua m<br>ntity et   | 18<br>20<br>17<br>19   |
| chi_Quantity  29 33 32 32 30  | 23<br>26<br>25<br>24<br>24   | ma_Sale<br>s<br>4023<br>4202<br>4185<br>4232<br>4920   | Tokushi To<br>ma_Qua ma<br>ntity ety<br>26<br>28<br>27<br>28<br>32   | kushi K<br>L Vari K<br>20<br>21<br>20<br>19<br>23  | Kagawa Kagawa Falan Kagawa Kag | Cagawa<br>Quanti<br>y 30<br>29<br>30<br>31<br>32                           | 22<br>22<br>22<br>23<br>22<br>24   | Hime_Sales 4864<br>4782<br>5106<br>5574<br>4471  | Ehime_ Quantit y  29 28 31 34 30   | Ehime_ :<br>Variety :<br>22<br>21<br>23<br>25<br>21  | Kochi_<br>Sales<br>3771<br>5047<br>4197<br>4482<br>4837  | Kochi_<br>Quantit y<br>24<br>30<br>26<br>29<br>28   | Variety a 19 23 21 21 23                       | Fukuok<br>n_Sales<br>4179<br>4821<br>5020<br>4922<br>4826   | Fukuok F<br>a_Quant a<br>ity y<br>27<br>28<br>29<br>29<br>29<br>28  | 21<br>21<br>23<br>22<br>21   | 3385<br>3808<br>4649<br>4131<br>3530   | Saga_Q Sa<br>nantity ari<br>21<br>25<br>25<br>25<br>28<br>23   | ga_V Nety i   | Agasak i Sales it 4230 4678 4466 4631 4543   | lagasak Na<br>Quant i_V<br>y y<br>27<br>29<br>29<br>29<br>29<br>31  | gasak K<br>Variet ot<br>es<br>21<br>22<br>22<br>22<br>22<br>23  | 4398<br>5856<br>4862<br>5074<br>4460   | Kumam K oto_Qu or antity ie  26 31 27 31 26  | 20<br>23<br>20<br>22<br>20<br>22<br>20   | Dita_Sa (ces a) 5224 4075 4749 4455 5185   | Dita_Qu O:<br>ntity ric  | 25<br>22<br>24<br>24<br>24   | Miyaza k<br>ki_Sales ti<br>4832<br>5415<br>4411<br>5371<br>5499   | Miyaza M<br>i Quan ki<br>ity ty<br>29<br>32<br>27<br>34<br>29   | Varie n<br>e<br>22<br>24<br>21<br>24<br>22  | 3651<br>3802<br>3707<br>3998<br>3849   | Kagoshi K<br>ma_Qua m<br>ntity et<br>23<br>26<br>22<br>26<br>22<br>26<br>24   | 18<br>20<br>17<br>19   |
| chi_Qua<br>ntity  29 33 32 32 30 32   | chi_Vari<br>ety 23<br>26<br>25<br>24<br>24<br>26                         | ma_Sale<br>s<br>4023<br>4202<br>4185<br>4232<br>4920<br>4600   | Tokushi To<br>ma_Qua ma<br>ntity ety<br>26<br>28<br>27<br>28<br>32<br>31   | 20<br>21<br>20<br>19<br>23<br>22   | Xagawa K<br>Sales — t<br>4724<br>4633<br>4807<br>5040<br>5027<br>5177  | Kagawa Ka<br>Quanti V<br>30<br>29<br>30<br>31<br>32<br>30                  | 22<br>22<br>22<br>23<br>22<br>24<br>23   | Ehime_Sales 4864<br>4782<br>5106<br>5574<br>4471<br>4713   | Ehime_ 1<br>Quantit 1<br>y<br>29<br>28<br>31<br>34<br>30<br>28           | 22<br>21<br>23<br>25<br>21<br>22   | Kochi_<br>Sales<br>3771<br>5047<br>4197<br>4482<br>4837<br>4171  | Kochi_<br>Quantit y<br>24<br>30<br>26<br>29<br>28<br>26   | 19<br>23<br>21<br>21<br>23<br>22               | Fukuok<br>n_Sales<br>4179<br>4821<br>5020<br>4922<br>4826<br>4782   | Fukuok F<br>a_Quant a<br>ity y<br>27<br>28<br>29<br>29<br>29<br>28<br>28  | 21<br>21<br>23<br>22<br>21<br>21   | 3385<br>3808<br>4649<br>4131<br>3530<br>4774   | Saga_Q Sa<br>lantity ari<br>21<br>25<br>25<br>28<br>23<br>29   | ga_V Nety i   | Agasak N i Sales it 4230 4678 4466 4631 4543 4782  | lagasak Na<br>Quant i_V<br>y y<br>27<br>29<br>29<br>29<br>29<br>31<br>29  | gasak K<br>Variet ot<br>es<br>21<br>22<br>22<br>22<br>22<br>23<br>22  | 4398<br>5856<br>4862<br>5074<br>4460<br>4832   | Kumam K oto_Qu or antity ie  26 31 27 31 26 29   | 20<br>23<br>20<br>22<br>20<br>21   | 5224<br>4075<br>4749<br>4455<br>5185<br>4186   | Oita_Qu Oi<br>ntity ric<br>31<br>27<br>30<br>30<br>31<br>26  | 25<br>22<br>24<br>24<br>24<br>20   | Miyaza k<br>ki_Sales k<br>ti<br>4832<br>5415<br>4411<br>5371<br>5499<br>4669  | Miyaza M<br>i Quan ki<br>ity ty<br>29<br>32<br>27<br>34<br>29<br>29   | 22<br>24<br>21<br>24<br>22<br>22<br>22  | 3651<br>3802<br>3707<br>3998<br>3849<br>4044   | Kagoshi K<br>ma_Qua m<br>ntity et<br>23<br>26<br>22<br>26<br>22<br>26<br>24<br>26   | 18<br>20<br>17<br>19<br>18<br>20                                     |
| chi_Qua<br>ntity  29 33 32 32 30 32 29  | chi_Vari<br>ety 23<br>26<br>25<br>24<br>24<br>26<br>24                   | ma_Sale<br>s<br>4023<br>4202<br>4185<br>4232<br>4920<br>4600<br>4638   | Tokushi To<br>ma_Qua ma<br>ntity ety<br>26<br>28<br>27<br>28<br>32<br>31<br>31   | kushi kushi ku Vari Pari Pari Pari Pari Pari Pari Pari P   | Xagawa K<br>Sales — t<br>4724<br>4633<br>4807<br>5040<br>5027<br>5177<br>5370  | Kagawa Ka<br>Quanti y -V<br>30<br>29<br>30<br>31<br>32<br>30<br>32         | 22<br>22<br>22<br>23<br>22<br>24<br>23<br>25   | Ehime_Sales 4864<br>4782<br>5106<br>5574<br>4471<br>4713<br>5118   | Ehime_Quantit y  29 28 31 34 30 28 31                                    | Ehime_ :<br>Variety :<br>22<br>21<br>23<br>25<br>21<br>22<br>22<br>23  | Sales<br>3771<br>5047<br>4197<br>4482<br>4837<br>4171<br>4459  | Kochi_ Quantit y 24 30 26 29 28 26 27   | 19<br>23<br>21<br>21<br>23<br>22<br>22         | Fukuok<br>n_Sales<br>4179<br>4821<br>5020<br>4922<br>4826<br>4782<br>4527   | Fukuok F<br>a_Quant a<br>ity y<br>27<br>28<br>29<br>29<br>29<br>28<br>28<br>28  | 21<br>21<br>23<br>22<br>21<br>21<br>21<br>20   | 3385<br>3808<br>4649<br>4131<br>3530<br>4774<br>4615   | Saga_Q Sa<br>lantity ari<br>21<br>25<br>25<br>28<br>23<br>29<br>24   | ga_V Nety i   | Augasak Nagasak i-Sales it 4230 4678 4466 4631 4543 4782 4498  | Jagasak Na<br>Quant i_V<br>y y<br>27<br>29<br>29<br>29<br>29<br>31<br>29<br>29  | gasak K<br>Variet ot<br>es<br>21<br>22<br>22<br>22<br>22<br>23<br>22<br>22<br>22  | 4398<br>5856<br>4862<br>5074<br>4460<br>4832<br>5833   | Kumam K oto_Qu of antity ie  26 31 27 31 26 29 32  | 20<br>23<br>20<br>22<br>20<br>21<br>23   | 5224<br>4075<br>4749<br>4455<br>5185<br>4186<br>4413   | Oita_Qu Ontity rie  31 27 30 30 31 26 29   | 25<br>22<br>24<br>24<br>20<br>23   | Miyaza ki_Sales ti 4832 5415 4411 5371 5499 4669 5419   | Miyaza M<br>i Quan ki<br>ity ty<br>29<br>32<br>27<br>34<br>29<br>29<br>33   | 22<br>24<br>21<br>24<br>22<br>22<br>22<br>24  | 3651<br>3802<br>3707<br>3998<br>3849<br>4044<br>4163   | Kagoshi K<br>ma_Qua m<br>ntity et<br>23<br>26<br>22<br>26<br>24<br>26<br>24   | 18<br>20<br>17<br>19<br>18<br>20                                     |
| chi_Quantity  29 33 32 32 30 32 29  | chi_Vari<br>ety 23<br>26<br>25<br>24<br>24<br>26<br>24<br>26<br>24<br>21 | ma_Sale<br>s<br>4023<br>4202<br>4185<br>4232<br>4920<br>4600<br>4638<br>4312   | Tokushi To<br>ma_Qua ma<br>ntity ety<br>26<br>28<br>27<br>28<br>32<br>31<br>31<br>29   | 20<br>21<br>20<br>21<br>20<br>19<br>23<br>22<br>22<br>21   | Kagawa K<br>Sales t<br>4724<br>4633<br>4807<br>5040<br>5027<br>5177<br>5370<br>4519  | Agawa Ka<br>Quanti _V<br>30<br>29<br>30<br>31<br>32<br>30<br>32<br>30      | 22<br>22<br>23<br>22<br>24<br>23<br>25<br>22   | Ehime_Sales 4864<br>4782<br>5106<br>5574<br>4471<br>4713<br>5118<br>6230   | Ehime_Quantit y  29 28 31 34 30 28 31 38                                 | 22<br>21<br>23<br>25<br>21<br>22<br>23<br>25<br>21<br>22<br>23   | Sales 3771<br>5047<br>4197<br>4482<br>4837<br>4171<br>4459<br>5127   | Kochi_ Quantit y  24 30 26 29 28 26 27 31   | 19 23 21 23 22 22 24                           | 4179<br>4821<br>5020<br>4922<br>4826<br>4782<br>4527<br>5110  | Fukuok F<br>a_Quant a<br>ity y<br>27<br>28<br>29<br>29<br>29<br>28<br>28<br>26<br>29  | 21<br>21<br>23<br>22<br>21<br>21<br>20<br>22   | 3385<br>3808<br>4649<br>4131<br>3530<br>4774<br>4615<br>3147   | Saga_Q Sa<br>nantity ari<br>21<br>25<br>25<br>28<br>23<br>29<br>24<br>21   | ga_V Nety i   | Agasak Nasas i it 14230 4678 4466 4631 4543 4782 4498 4492   | Jagasak Na<br>Quant i_V<br>y y<br>27<br>29<br>29<br>29<br>31<br>29<br>29<br>29  | gasak K<br>Variet ot es<br>21<br>22<br>22<br>22<br>22<br>23<br>22<br>22<br>22<br>22   | Sumam 1 to_Sal 6 s 3 4398 5856 4862 5074 4460 4832 5833 5354   | Kumam K oto_Qu of antity ie  26 31 27 31 26 29 32 29   | 20<br>23<br>20<br>22<br>20<br>21<br>23<br>20   | Dita_Sa Ces a  5224 4075 4749 4455 5185 4186 4413 4898   | 31<br>27<br>30<br>30<br>31<br>26<br>29<br>31   | 25<br>22<br>24<br>24<br>24<br>20<br>23<br>24   | Miyaza ki_Sales ti 4832 5415 4411 5371 5499 4669 5419 5032  | Miyaza M<br>i Quan ki<br>ity ty<br>29<br>32<br>27<br>34<br>29<br>29<br>33<br>30   | 22<br>24<br>21<br>24<br>22<br>22<br>24<br>22<br>22<br>24<br>24  | Associated Research R | Kagoshi K<br>ma_Qua m<br>ntity el<br>23<br>26<br>22<br>26<br>24<br>26<br>24<br>26<br>24<br>23   | 18<br>20<br>17<br>19<br>18<br>20<br>19                               |
| chi_Quantity  29 33 32 32 30 32 29 30   | chi_Vari<br>ety  23 26 25 24 24 26 24 21 24                              | ma_Sale<br>s<br>4023<br>4202<br>4185<br>4232<br>4920<br>4600<br>4638<br>4312<br>4417   | Tokushi To<br>ma_Qua ma<br>ntity ety<br>26<br>28<br>27<br>28<br>32<br>31<br>31<br>29<br>29   | 20<br>21<br>20<br>21<br>20<br>19<br>23<br>22<br>22<br>21   | Kagawa Ka | Agawa Ka<br>Quanti V<br>30<br>29<br>30<br>31<br>32<br>30<br>32<br>30<br>29 | 22<br>22<br>23<br>22<br>24<br>23<br>25<br>22<br>21   | Ehime 4864<br>4782<br>5106<br>5574<br>4471<br>4713<br>5118<br>6230<br>5277   | 29<br>28<br>31<br>34<br>30<br>28<br>31<br>38<br>33                       | 22 21 23 25 21 22 23 26 25   | Kochi_Sales  3771 5047 4197 4482 4837 4171 4459 5127 4326  | Kochi_ Quantit y  24 30 26 29 28 26 27 31 26  | 19 23 21 23 22 22 24 21                        | Fukuok<br>n_Sales<br>4179<br>4821<br>5020<br>4922<br>4826<br>4782<br>4527<br>5110<br>4440   | Fukuok F<br>a_Quant a<br>ity y<br>27<br>28<br>29<br>29<br>29<br>28<br>28<br>26<br>29<br>26  | 21<br>21<br>23<br>22<br>21<br>21<br>20<br>22<br>20   | 3385<br>3808<br>4649<br>4131<br>3530<br>4774<br>4615<br>3147<br>4181   | Saga_Q Sanantity 21 25 25 28 23 29 24 21 26  | ga_V Nety i 16 20 19 22 18 22 19 17 22              | Alagasak Nalagasak i it 14230 44678 4466 44631 4543 4782 4498 4492 4418  | Jagasak Na<br>Quant i_V<br>y y<br>27<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29  | gasak K<br>Variet ot<br>es<br>21<br>22<br>22<br>22<br>22<br>23<br>22<br>22<br>22<br>22<br>22<br>22<br>22<br>22                      | tumam I to_Sal of s  | Kumam K oto_Qu or antity ie 26 31 27 31 26 29 32 29 24   | 20<br>23<br>20<br>22<br>20<br>21<br>23<br>20<br>21<br>23<br>20   | Dita_Sa (aes a a a a a a a a a a a a a a a a a a   | 31<br>27<br>30<br>30<br>31<br>26<br>29<br>31   | 25<br>22<br>24<br>24<br>24<br>20<br>23<br>24<br>23   | Miyaza ki_Sales ki ti 4832 5415 4411 5371 5499 4669 5419 5032 6137  | Miyaza M<br>i_Quan ki<br>ity ty<br>29<br>32<br>27<br>34<br>29<br>29<br>29<br>33<br>30<br>36   | iyaza k<br>Varie n<br>e<br>22<br>24<br>21<br>24<br>22<br>22<br>22<br>24<br>24<br>26   | Agoshi I<br>na_Sal r<br>s r<br>3651<br>3802<br>3707<br>3998<br>3849<br>4044<br>4163<br>3969<br>4645  | Kagoshi K<br>ma_Qua m<br>ntity el<br>23<br>26<br>22<br>26<br>24<br>26<br>24<br>26<br>24<br>23<br>30   | 18<br>20<br>17<br>19<br>18<br>20<br>19<br>18<br>20                   |
| chi_Quantity  29 33 32 32 30 32 29 29 30 29   | chi_Vari<br>ety  23 26 25 24 24 26 24 21 24 23                           | ma_Sale<br>s<br>4023<br>4202<br>4185<br>4232<br>4920<br>4600<br>4638<br>4312<br>4417<br>4390   | Tokushi To<br>ma_Qua ma<br>ntity 26<br>28<br>27<br>28<br>32<br>31<br>31<br>29<br>29<br>28  | kushi kushi ku Vari - 20 21 20 19 23 22 22 21 19 20  | A724 4633 4807 5040 5027 5177 5370 4519 4452 4381  | Angawa Quanti y  | 22<br>22<br>23<br>22<br>24<br>23<br>25<br>22<br>21<br>21   | Ehime_ Sales 4864<br>4782<br>5106<br>5574<br>44713<br>5118<br>6230<br>5277<br>5216   | Ehime_ Quantit , y   | 22<br>21<br>23<br>25<br>21<br>22<br>23<br>26<br>25<br>24   | Kochi_Sales  3771 5047 4197 4482 4837 4171 4459 5127 4326 4714   | Kochi_ Quantit y  24 30 26 29 28 26 27 31 26 30   | 19 23 21 23 22 22 24 21 23                     | Fukuok<br>n_Sales<br>4179<br>4821<br>5020<br>4922<br>4826<br>4782<br>4527<br>5110<br>4440<br>4866   | Fukuok F<br>a_Quant a<br>ity y<br>27<br>28<br>29<br>29<br>28<br>28<br>26<br>29<br>26<br>28  | 21<br>21<br>23<br>22<br>21<br>21<br>20<br>22<br>20<br>22   | 3385<br>3808<br>4649<br>4133<br>3530<br>4774<br>4615<br>3147<br>4181<br>3616   | Saga_Q Sa<br>nantity 21<br>25<br>25<br>28<br>23<br>29<br>24<br>21<br>26<br>23  | ga_V Nety i   | lagasak N i i it 4230 4478 4466 4631 4543 4498 4492 4418 5094  | Iagasak Na<br>Quant i_V<br>y y y<br>27<br>29<br>29<br>29<br>31<br>29<br>29<br>28<br>29<br>29  | gasak K<br>Variet ot<br>es<br>21<br>22<br>22<br>22<br>23<br>22<br>22<br>22<br>22<br>22<br>22<br>22<br>22<br>22                      | 4398<br>5856<br>4862<br>5074<br>4460<br>4832<br>5833<br>5354<br>4589<br>4824   | Kumam K toto_Qu or interest of the second se | 20<br>23<br>20<br>22<br>20<br>21<br>23<br>20<br>21<br>23<br>20   | Dita_Sa (as  | Oita_Qu Oita_Q | 25<br>22<br>24<br>24<br>20<br>23<br>24<br>23<br>22   | Miyaza ki_Sales ki ti 4832 5415 4411 5371 5499 4669 5032 6137 5377  | Miyaza M<br>i Quan ki<br>i Quan ki<br>ity ty<br>29<br>32<br>27<br>34<br>29<br>29<br>33<br>30<br>36<br>34  | iyaza k<br>Varie n<br>e<br>22<br>24<br>21<br>24<br>22<br>22<br>24<br>24<br>26<br>24   | Agoshi Hana Sal ri s ri 3651 3802 3707 3998 3849 4044 4163 3969 4645 3652  | Kagoshi K<br>ma_Qua m<br>ntity et<br>23<br>26<br>22<br>26<br>24<br>26<br>24<br>26<br>24<br>23<br>30<br>23   | 18 20 17 18 20 19 18 20 17 19 18 20 19 18 22 17                      |
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| chi_Quantity  29 33 32 32 32 32 30 30 32 29 29 30 29 30 29 30 29 30 30 30 30 30 30 30 30 30 30 30 30 30 | chi_Vari<br>ety  23 26 25 24 26 24 26 21 24 22 24 22 24 25 24            | ma_Sale s  4023 4202 4185 4232 4920 4600 4638 4312 4417 4390 4572 4816 3998 4591 4004  | Tokushi To ma Qua mantity ety ety ety ety ety ety ety ety ety e  | kushi ku-Vari Ku-Vari Kushi ku-Vari Kushi ku-Vari Kushi ku-Vari Kushi ku-Vari Kushi  | Kagawa k<br>Sales t<br>4724<br>4633<br>4807<br>5040<br>5027<br>5177<br>5370<br>4519<br>4452<br>4381<br>4711<br>4945<br>4292<br>4447<br>4907<br>4634  | Cagawa Quanti V Y V V V V V V V V V V V V V V V V V                        | agawa F<br>Variety S  22 23 22 24 23 25 22 21 21 22 22 21 22 22 23   | 4864<br>4782<br>5106<br>5574<br>4713<br>5118<br>6230<br>5277<br>5216<br>4473<br>5212<br>4739<br>4702<br>4544<br>5099                 | Ehime_Quantit , y  29 28 31 34 30 28 31 38 33 32 29 32 30 29 28 31       | 22 21 23 25 25 26 25 24 21 22 22 21 22 22 22 22 22 22 22 22 22   | Kochi_Sales  3771 5047 4197 4482 4837 4471 4459 5127 4326 4714 4331 4155 4412 4086 5087 4026   | Kochi_ Quantit y  24 30 26 629 28 26 27 31 26 30 26 25 27 26 30 25  | 19 23 21 23 22 24 21 20 23 20 24 20            | Fukuok<br>a_Sales<br>4179<br>4821<br>5020<br>4922<br>4826<br>4782<br>4527<br>5110<br>4440<br>4550<br>4633<br>4523<br>4467<br>4977<br>4908                 | Fukuok F<br>a_Quant a<br>ity y<br>27<br>28<br>29<br>29<br>29<br>28<br>26<br>29<br>26<br>29<br>26<br>28<br>26<br>29<br>26<br>28<br>26<br>29<br>26<br>28<br>26<br>29<br>27  | 21<br>21<br>23<br>22<br>21<br>21<br>20<br>22<br>20<br>22<br>20<br>21<br>20<br>22<br>20<br>22<br>20<br>22<br>20<br>22<br>20<br>22<br>22<br>20<br>22<br>22                                     | 3385<br>3808<br>4649<br>4131<br>3530<br>4774<br>4615<br>3147<br>4181<br>3616<br>3875<br>3106<br>4088<br>3505<br>3713<br>4027         | Saga_Q Sa<br>lantity ari<br>21<br>25<br>25<br>28<br>23<br>29<br>24<br>21<br>26<br>23<br>25<br>20<br>26<br>23<br>22<br>20<br>26<br>23<br>22<br>22   | 20 19 22 18 22 19 17 22 18 18 16 19 18 18           | Nagasak Nagasa | agasak Na<br>Quant i V<br>y y y<br>27<br>29<br>29<br>29<br>29<br>31<br>29<br>29<br>28<br>29<br>27<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28 | gasak K<br>/ariet ot es  21 22 22 22 23 22 21 22 21 22 21 22 22 21 22 22 21 22 22   | 4398<br>5856<br>4862<br>5074<br>4460<br>4832<br>5833<br>5354<br>4589<br>4824<br>5002<br>5543<br>4992<br>5114<br>4994<br>4908 | Kumam K toto Qu of antity ield | 20 23 20 21 23 20 21 23 22 22 22 22 22 22 22 22 22 22 22 22  | Dita_Sa (aes along) 5224 4075 4749 4455 5185 4186 4413 4898 4422 4045 4852 4431 4134 4542 4995 5416  | Oita_Qu Ontity ric   | 25<br>22<br>24<br>24<br>24<br>20<br>23<br>24<br>23<br>22<br>21<br>22<br>22<br>24<br>23   | Miyaza k ki_Sales ti 4832 5415 4411 5371 5499 4669 5419 5032 6137 55627 5116 6288 4520 4840 5261  | Aiyaza Mi Quan ki Quan ki iy ty 29 32 27 34 29 29 33 30 36 34 32 29 32 28 29 29 29  | iyaza k<br>Varie n<br>e<br>22<br>24<br>21<br>24<br>22<br>22<br>24<br>26<br>24<br>23<br>22<br>24<br>23<br>22<br>24<br>23<br>22<br>23             | 3651<br>3802<br>3707<br>3998<br>4044<br>4163<br>3969<br>4645<br>3652<br>3816<br>3898<br>3309<br>4464<br>398<br>3309<br>4464<br>398<br>3309   | Kagoshi K<br>ma_Qua m<br>ntity et<br>23<br>26<br>22<br>26<br>24<br>26<br>24<br>26<br>24<br>23<br>30<br>23<br>22<br>24<br>22<br>22<br>24<br>22<br>22<br>23<br>23<br>23<br>23<br>24<br>23<br>24<br>24<br>25<br>24<br>25<br>26<br>27<br>28<br>28<br>29<br>29<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | na_Vari<br>ty  |

#### Appendix Table 10: Price Indexes by Prefectures

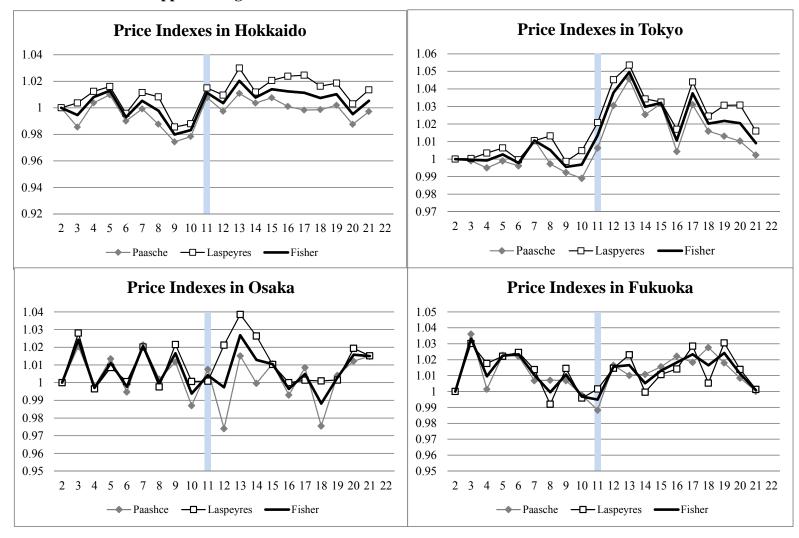
|          | Hokkaid I        | Jokkoid           |                     |                       | Aomori                    |                   |                  |                     |                  |                   | Miyogi                      |                   |                  |                     |                          | Vamagat           | Vamagat            |                     | Eukuchi          | Eukushi                     | Enlandi          |                    | Iboroki             |                    |                    | Toobigi          |                    |                  | Gummo                       |                  |
|----------|------------------|-------------------|---------------------|-----------------------|---------------------------|-------------------|------------------|---------------------|------------------|-------------------|-----------------------------|-------------------|------------------|---------------------|--------------------------|-------------------|--------------------|---------------------|------------------|-----------------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------------|--------------------|------------------|-----------------------------|------------------|
| week     | o_Paach o        | Laspe res         | Hokkaid<br>o_Fisher | Aomori_ Paache        | Laspeyre                  | Aomori_<br>Fisher | Iwata_Pa<br>ache | Iwata_L<br>aspeyres | Iwata_Fi :       | Miyagi_<br>Paache | Laspeyre                    | Miyagi_<br>Fisher | Akita_Pa<br>ache | Akita_L<br>aspeyres | Akita_Fi<br>sher         | a_Paach<br>e      | a_Laspe<br>yres    | Yamagat<br>a_Fisher | ma_Paac<br>he    | Fukushi<br>ma_Lasp<br>eyres | ma_Fish<br>er    | Ibaraki_<br>Paache | Laspeyre<br>s       | Ibaraki_<br>Fisher | Tochigi_<br>Paache | Laspeyre<br>s    | Tochigi_<br>Fisher | Gumma_<br>Paache | Gumma_ (<br>Laspeyre  <br>s | Gumma_<br>Fisher |
| 2        | 1.0000           | 1.0000            |                     | 1.0000                |                           | 1.0000            |                  |                     | 1.0000           |                   | 1.0000                      |                   | 1.0000           |                     |                          |                   |                    |                     |                  | 1.0000                      |                  |                    |                     |                    | 1.0000             | 1.0000           | 1.0000             | 1.0000           | 1.0000                      | 1.0000           |
| 4        | 0.9855<br>1.0037 | 1.0037<br>1.0124  | 0.9946<br>1.0080    | 0.9827                | 1.0250<br>0.9796          | 0.9811            | 0.9772<br>0.9805 | 0.9794              | 0.9944           | 1.0173<br>1.0031  | 1.0327<br>0.9996            | 1.0249<br>1.0014  |                  | 1.0541<br>0.9609    | 1.0469<br>0.9649         |                   |                    | 1.0997<br>0.9457    | 0.9715<br>0.9707 |                             | 0.9749<br>0.9830 |                    |                     |                    |                    | 0.9809           | 0.9863             | 0.9827           | 1.0096                      | 1.0039           |
| 5        | 1.0098           | 1.0160            | 1.0129              | 0.9664                | 1.0020                    | 0.9840            | 0.9499           | 0.9665              | 0.9582           | 1.0167            | 1.0135                      | 1.0151            | 1.0489           | 1.0448              |                          |                   | 0.9741             | 0.9632              |                  |                             | 1.0697           |                    |                     |                    |                    |                  | 0.9814             | 0.9956           | 1.0258                      | 1.0106           |
| 6 7      | 0.9900<br>0.9992 | 0.9958<br>1.0115  | 0.9929<br>1.0053    | 1.0011<br>0.9810      | 1.0006<br>0.9947          | 1.0008<br>0.9878  | 0.9611<br>0.9606 | 0.9709<br>0.9770    | 0.9660<br>0.9688 | 1.0118<br>1.0178  | 1.0108<br>1.0103            | 1.0113<br>1.0140  |                  | 1.0307<br>1.1213    |                          | 0.9538<br>1.1126  | 0.9853<br>1.1332   | 0.9694<br>1.1228    | 0.9819<br>1.1085 |                             | 0.9813<br>1.0988 |                    | 0.9989<br>1.0041    | 0.9923<br>0.9986   |                    | 1.0150<br>0.9922 | 1.0132<br>0.9899   | 0.9734<br>1.0114 | 0.9700<br>1.0021            | 0.9717<br>1.0067 |
| 8        | 0.9876           | 1.0082            | 0.9979              | 0.9832                | 1.0016                    | 0.9924            | 0.9617           | 0.9586              | 0.9601           | 0.9584            | 0.9864                      | 0.9723            | 0.9985           | 0.9913              | 0.9949                   | 0.9803            | 1.0388             | 1.0091              | 0.9739           | 0.9955                      | 0.9847           | 0.9989             | 1.0245              | 1.0116             | 0.9368             | 0.9774           | 0.9569             | 1.0177           | 1.0205                      | 1.0191           |
| 9        | 0.9743<br>0.9783 | 0.9855<br>0.9880  | 0.9799<br>0.9831    | 0.9852<br>0.9792      | 1.0009<br>0.9822          | 0.9930            | 1.0067<br>0.9824 | 1.0179<br>0.9877    | 1.0123<br>0.9850 | 0.9728<br>1.0288  | 0.9777<br>1.0512            | 0.9753<br>1.0399  | 1.0090<br>1.0394 | 0.9883<br>1.0321    | 0.9986<br>1.0357         |                   | 1.1434<br>1.1519   | 1.0669<br>1.1718    | 0.9808           |                             | 0.9826<br>0.9914 |                    |                     |                    |                    | 1.0092<br>0.9921 | 1.0070<br>0.9875   | 1.0229           | 0.9994                      | 1.0111           |
| 11       | 1.0077           | 1.0150            | 1.0113              | 1.0721                | 1.0428                    | 1.0574            | 1.0342           |                     | 1.0354           | 1.1138            | 1.1159                      | 1.1149            |                  | 1.0663              |                          | 1.0205            | 0.9998             | 1.0101              | 1.0831           | 1.0554                      | 1.0692           |                    |                     |                    |                    | 1.0340           | 1.0262             | 1.0020           | 1.0207                      | 1.0271           |
| 12       | 0.9974<br>1.0108 | 1.0096<br>1.0299  | 1.0035<br>1.0203    | 1.0311<br>1.0204      | 1.0318                    | 1.0314            | 1.0503<br>0.9696 | 1.0349<br>1.0330    | 1.0426<br>1.0008 | 1.0469<br>1.0576  | 1.0382<br>1.0626            | 1.0425            | 1.1427<br>1.0638 | 1.1337<br>1.1148    |                          |                   | 1.3531             | 1.2895              | 1.0261<br>1.0660 | 0.9671<br>1.0996            | 0.9962<br>1.0827 |                    |                     |                    |                    | 1.0407<br>1.0582 | 1.0375<br>1.0255   | 1.0838           | 1.1027                      | 1.0932           |
| 14       | 1.0036           | 1.0299            | 1.0203              | 1.0204                | 1.0679                    | 1.0691            | 1.0425           | 1.0330              | 1.0351           | 1.0376            | 1.0626                      | 1.0594            | 1.1327           | 1.1148              |                          |                   | 1.2834             | 1.0693              | 1.1842           | 1.0571                      | 1.1189           |                    |                     |                    |                    | 1.0582           | 1.0255             | 1.0605           | 1.0605                      | 1.0605           |
| 15       | 1.0075           | 1.0206            | 1.0140              | 1.0432                | 1.0529                    | 1.0480            | 0.9840           | 1.0052              | 0.9945           | 1.1558            | 1.1332                      | 1.1444            |                  | 1.1278              |                          |                   | 1.2053             | 1.1733              |                  |                             |                  |                    |                     |                    |                    | 1.0595           | 1.0451             | 1.0589           | 1.0583                      | 1.0586           |
| 16<br>17 | 1.0010<br>0.9983 | 1.0238            | 1.0123<br>1.0113    | 1.0223<br>1.0101      | 1.0147<br>0.9970          | 1.0185<br>1.0036  | 1.0036<br>1.0511 | 1.0175<br>1.0727    | 1.0105<br>1.0619 | 1.0870<br>1.0900  | 1.1869<br>1.1587            | 1.1359<br>1.1239  |                  | 1.0622<br>1.0819    |                          |                   | 1.2144<br>1.0235   | 1.1510<br>1.0199    | 1.0405           | 1.0399<br>1.1022            | 1.0402<br>1.1016 |                    |                     |                    |                    | 0.9840<br>1.0545 | 0.9882<br>1.0077   | 1.0351<br>1.0126 | 1.0423                      | 1.0387           |
| 18       | 0.9986           | 1.0163            | 1.0074              | 0.9890                | 0.9963                    | 0.9926            | 0.9826           | 1.0311              | 1.0066           | 1.0609            | 1.0535                      | 1.0572            | 1.0760           | 1.1118              | 1.0938                   | 1.1114            | 1.1739             | 1.1423              | 1.0808           | 1.0570                      | 1.0688           | 1.0611             | 1.0822              | 1.0716             | 0.9989             | 1.0076           | 1.0032             | 1.0816           | 1.0740                      | 1.0778           |
| 19<br>20 | 1.0019<br>0.9876 | 1.0185            | 1.0102<br>0.9952    | 1.0247<br>1.0135      | 1.0058<br>0.9955          | 1.0152<br>1.0045  | 1.0490           | 1.0506<br>1.0283    | 1.0498<br>1.0177 | 1.0365            | 1.0273<br>1.0432            | 1.0319<br>1.0352  | 1.0763<br>0.9854 | 1.0792<br>1.0241    | 1.0778<br>1.0046         |                   | 1.0625<br>1.0206   | 1.0221<br>1.0124    | 1.0300<br>1.0717 |                             | 1.0601<br>1.0807 | 1.0429<br>1.0156   |                     | 1.0478<br>1.0214   |                    | 0.9963<br>1.0056 | 1.0065             | 1.0413           | 1.0430                      | 1.0422           |
| 21       | 0.9971           | 1.0135            | 1.0053              |                       | 0.9699                    | 0.9702            |                  |                     | 0.9741           | 1.0707            | 1.0847                      | 1.0777            |                  | 0.9345              |                          |                   | 1.2345             | 1.2377              |                  |                             |                  |                    |                     |                    |                    | 1.0308           | 1.0288             |                  | 1.0504                      | 1.0400           |
|          | Ishikawa I       | shikawa           | [shikawa            | Fukui P               | Fukui L. 1                | Fukui Fi          | Yamanas          | Yamanas             | Yamanas          | Nagano            | Nagano_                     | Nagano            | Gifu Pa          | Gifu La             | Gifu Fis                 | Shizuoka          | Shizuoka           | Shizuoka            | Aichi Pa         | Aichi I.                    | Aichi Fi         | Mie Paa            | Mie Las             | Mie Fis            | Shiga P            | Shiga L          | Shiga Fi           | Kvoto P          | Kvoto L l                   | Kvoto F          |
| week     |                  |                   |                     |                       |                           |                   |                  | -                   |                  |                   |                             |                   |                  |                     |                          |                   |                    |                     |                  | Aichi_L<br>aspeyres         |                  |                    |                     |                    |                    |                  |                    |                  | aspeyres i                  | isher            |
| 2 3      | 1.0000<br>1.0055 | 1.0000            | 1.0000<br>1.0095    | 1.0000<br>1.0354      | 1.0000<br>1.0466          | 1.0000            | 1.0000<br>0.9845 | 1.0000<br>0.9920    | 0.9883           | 1.0000            | 1.0000<br>1.0222            | 1.0000<br>1.0180  | 1.0000<br>0.9803 | 1.0000<br>0.9776    |                          | 1.0000<br>1.0401  | 1.0000             | 1.0000<br>1.0423    | 1.0000<br>0.9831 | 1.0000<br>0.9932            | 1.0000<br>0.9882 |                    | 1.0000<br>1.0121    | 1.0000<br>1.0144   |                    | 1.0000           | 1.0000<br>1.0445   | 1.0000           | 1.0000                      | 1.0000           |
| 4        | 0.9622           | 0.9856            | 0.9738              | 1.0018                | 1.0175                    | 1.0097            | 0.9443           | 0.9785              | 0.9613           | 1.0548            | 1.0566                      | 1.0557            | 1.0434           | 1.0587              | 1.0510                   | 0.9869            | 0.9962             | 0.9915              | 0.9856           | 0.9913                      | 0.9884           | 1.0056             | 1.0232              | 1.0144             | 0.9693             | 1.0079           | 0.9884             | 1.0056           | 1.0082                      | 1.0069           |
| 5        | 0.9896<br>0.9866 | 0.9976<br>0.9896  | 0.9936<br>0.9881    | 1.0041<br>1.0317      | 1.0184<br>1.0137          | 1.0112<br>1.0227  | 0.9549           | 0.9951<br>1.0016    | 0.9748<br>0.9892 | 1.0341            | 1.0212<br>1.0216            | 1.0276<br>1.0278  | 0.9794<br>0.9820 | 0.9872<br>0.9634    | 0.9833<br>0.9727         | 1.0371<br>0.9831  | 1.0516<br>0.9977   | 1.0443<br>0.9904    | 0.9743<br>0.9962 |                             | 0.9856<br>1.0002 |                    |                     | 0.9966<br>1.0075   |                    | 0.9808<br>1.0076 | 0.9739             | 1.0098<br>0.9861 | 1.0212<br>0.9634            | 1.0155<br>0.9747 |
| 7        | 1.0044           | 1.0064            | 1.0054              | 0.9657                | 0.9858                    | 0.9757            | 0.9427           | 0.9743              | 0.9584           | 1.0686            | 1.0592                      | 1.0639            |                  | 0.9949              |                          |                   | 0.9876             | 1.0086              | 0.9836           | 0.9908                      | 0.9872           |                    | 1.0144              | 1.0286             | 1.0069             |                  | 1.0168             | 0.9713           | 0.9959                      | 0.9835           |
| 8        | 0.9671           | 0.9733            | 0.9702              | 0.9982                | 0.9894                    | 0.9938            | 0.9475           | 0.9865              | 0.9668           | 1.0623            | 1.0414                      | 1.0518            |                  | 1.0297              | 1.0150                   |                   | 1.0349             | 1.0251              | 0.9842           |                             | 0.9889           |                    | 0.9988              |                    |                    | 0.9999           | 0.9938             | 0.9880           | 0.9920                      | 0.9900           |
| 10       | 0.9500<br>0.9861 | 1.0054            | 0.9454<br>0.9957    | 1.0022<br>0.9986      | 1.0115<br>1.0083          | 1.0069<br>1.0034  | 1.0399           | 0.9978<br>1.0354    | 0.9986<br>1.0376 | 1.0242<br>0.9827  | 1.0285<br>0.9913            | 1.0263<br>0.9870  | 0.9756<br>0.9734 | 0.9202<br>0.9707    | 0.9475<br>0.9721         | 0.9890<br>0.9810  | 1.0056<br>0.9909   | 0.9973<br>0.9859    | 0.9787<br>0.9788 |                             | 0.9811<br>0.9855 | 0.9890<br>1.0449   | 1.0121<br>1.0491    | 1.0005<br>1.0470   |                    | 0.9854<br>0.9682 | 0.9714<br>0.9532   | 0.9835<br>0.9944 | 1.0054                      | 0.9849           |
| 11       | 1.0005           | 0.9834            | 0.9919              | 0.9941                | 0.9927                    | 0.9934            | 0.9515           | 0.9749              | 0.9631           | 1.0460            | 1.0243                      | 1.0351            | 0.9694           | 0.9719              |                          | 1.0608            | 1.0399             | 1.0503              | 0.9836           |                             | 0.9961           | 1.0284             |                     | 1.0247             |                    | 1.0573           | 1.0459             | 0.9949           | 1.0098                      | 1.0023           |
| 12       | 0.9834<br>0.9918 | 0.9644            | 0.9738              | 1.0046<br>1.0180      | 1.0088                    | 1.0067            | 0.9277<br>0.9752 | 0.9642<br>0.9818    | 0.9458<br>0.9785 | 1.0090<br>1.0372  | 1.0311<br>1.0426            | 1.0200            | 0.9926<br>1.0047 | 1.0123              | 1.0024<br>0.9967         | 0.9980<br>1.0655  | 1.0064<br>1.0017   | 1.0022<br>1.0331    | 0.9931           | 0.9992<br>1.0088            | 0.9962<br>1.0050 |                    | 1.0091<br>1.0325    | 1.0097<br>1.0249   |                    | 1.0629<br>0.9803 | 1.0533             | 1.0284           | 1.0253<br>0.9972            | 1.0268           |
| 14       | 0.9972           | 1.0112            | 1.0042              | 1.0451                | 1.0494                    | 1.0473            | 0.9729           | 0.9450              | 0.9588           | 1.0522            | 1.0524                      | 1.0523            | 1.0077           | 1.0347              | 1.0211                   | 1.0320            | 1.0411             | 1.0365              | 1.0261           | 1.0356                      | 1.0309           | 1.0417             | 1.0211              | 1.0314             | 1.0082             | 1.0276           | 1.0179             | 1.0153           | 1.0152                      | 1.0152           |
| 15<br>16 | 0.9693<br>0.9581 | 0.9828<br>0.9446  | 0.9761<br>0.9513    | 1.0507<br>1.0175      | 1.0444<br>1.0294          | 1.0475<br>1.0234  | 0.9578<br>1.0238 | 0.9797<br>1.0150    | 0.9687<br>1.0194 | 1.0313            | 1.0217<br>1.0233            | 1.0265<br>1.0535  | 0.9657<br>1.0038 | 0.9724<br>1.0141    | 0.9690<br>1.0089         | 1.0386<br>1.0648  | 1.0355<br>1.0423   | 1.0370<br>1.0535    | 0.9901<br>0.9922 | 1.0012<br>1.0060            | 0.9956<br>0.9991 | 1.0079<br>1.0542   | 1.0069<br>1.0372    |                    |                    | 1.0054           | 0.9905<br>1.0198   | 1.0033<br>0.9921 | 0.9896                      | 0.9964<br>1.0014 |
| 17       | 0.9836           | 1.0088            | 0.9961              | 0.9944                | 0.9985                    | 0.9964            | 1.0067           | 1.0126              | 1.0097           | 1.0256            |                             | 1.0269            |                  | 0.9922              |                          |                   | 1.0737             | 1.0436              |                  |                             | 0.9808           |                    |                     |                    |                    | 0.9945           | 0.9883             | 0.9936           | 1.0075                      | 1.0005           |
| 18       | 0.9826           | 0.9908            | 0.9867              | 1.0733                | 1.0234                    | 1.0481            | 0.9643           | 0.9816              | 0.9729           | 1.0191            | 1.0290                      | 1.0241            | 1.0209           | 1.0181              | 1.0195                   |                   | 1.0390             | 1.0337              | 0.9885           |                             | 0.9908           | 1.0077             | 1.0218              |                    | 1.0000             | 1.0306           | 1.0156             |                  | 1.0022                      | 0.9948           |
| 19<br>20 | 0.9819<br>0.9891 | 0.9883            | 0.9851<br>0.9837    | 1.0447<br>0.9956      | 1.0322<br>1.0141          | 1.0384            | 0.9826<br>0.9825 |                     | 0.9837<br>0.9932 | 1.0867<br>1.0041  | 1.0779<br>1.0034            | 1.0823<br>1.0038  |                  | 0.9652<br>1.0005    |                          |                   | 1.1167<br>1.1138   | 1.0825<br>1.1083    |                  |                             | 1.0095<br>0.9813 |                    |                     | 1.0522<br>1.0193   |                    |                  | 0.9937<br>1.0237   |                  | 1.0142                      | 1.0126<br>0.9885 |
| 21       | 0.9828           | 0.9734            | 0.9781              | 1.0296                | 1.0013                    |                   | 0.9887           |                     | 1.0030           | 1.0468            |                             |                   | 0.9951           | 1.0063              |                          |                   |                    |                     | 0.9865           |                             | 0.9935           |                    |                     |                    | 0.9677             |                  | 0.9863             |                  | 0.9828                      | 0.9837           |
| week     | Shimane          | himane<br>Laspeyr | Shimane<br>_Fisher  | Okayam (<br>a_Paach a | Okayam<br>a_Laspe<br>vres | - Ficher          | ma_Paac          | ma_Lasp             | ma_Fish          | chi_Paac          | Yamagu<br>chi_Lasp<br>eyres | chi_Fish          | ma_Paac          | ma_Lasp             | Tokushi<br>ma_Fish<br>er | Kagawa<br>_Paache | Kagawa<br>_Laspeyr | Kagawa<br>_Fisher   | Ehime_P<br>aache | Ehime_L<br>aspeyres         | Ehime_F<br>isher | Kochi_P<br>aache   | Kochi_L<br>aspeyres | Kochi_F<br>isher   | Paache             |                  | Fukuoka<br>_Fisher |                  | Saga_La S<br>speyres l      |                  |
| 2        | 1.0000           | 1.0000            | 1.0000              | 1.0000                | 1.0000                    | 1.0000            | 1.0000           | 1.0000              | 1.0000           | 1.0000            |                             | 1.0000            | 1.0000           | •                   | 1.0000                   | 1.0000            | 1.0000             | 1.0000              | 1.0000           | 1.0000                      | 1.0000           | 1.0000             | 1.0000              | 1.0000             | 1.0000             | 1.0000           | 1.0000             | 1.0000           | 1.0000                      | 1.0000           |
| 3        | 0.9810           | 0.9680            | 0.9745              | 0.9832                | 0.9971                    | 0.9901            | 0.9829           | 0.9926              | 0.9877<br>0.9910 | 1.0458            | 1.0518                      | 1.0488            |                  | 1.0196<br>0.9834    | 1.0246                   | 0.9560            | 0.9378             | 0.9468<br>0.9292    | 0.9993           |                             | 0.9968           |                    | 1.0545              |                    |                    | 1.0301           | 1.0331             | 0.9978           | 0.9955                      | 0.9966           |
| 5        | 1.0175<br>0.9937 | 0.9940            | 1.0149<br>0.9938    | 1.0073                | 1.0179<br>1.0096          | 1.0126<br>1.0056  | 1.0017           | 1.0028              | 1.0022           | 1.0047            | 1.0315                      | 1.0180<br>1.0170  |                  | 0.9834              | 0.9799                   | 015 002           | 0.8915             | 0.9292              | 0.9749           | 0.9863                      | 0.9806           |                    |                     |                    |                    | 1.0176           | 1.0095             | 0.9895           | 1.0153                      | 1.0041           |
| 6        | 1.0233           | 1.0207            | 1.0220              | 0.9957                | 1.0118                    | 1.0037            | 0.9986           | 1.0037              | 1.0012           | 1.1502            | 1.1536                      | 1.1519            | 1.0222           | 1.0308              | 1.0265                   | 0.9882            | 0.9891             | 0.9886              | 0.9722           | 0.9673                      | 0.9698           |                    |                     | 1.0169             |                    | 1.0245           | 1.0233             | 1.0303           | 1.0237                      | 1.0270           |
| 8        | 1.0152<br>0.9869 | 1.0154<br>0.9914  | 1.0153<br>0.9891    | 0.9959<br>1.0157      | 1.0044                    | 1.0001<br>1.0126  | 1.0120<br>0.9987 | 0.9963<br>1.0083    | 1.0042<br>1.0035 | 1.0349<br>1.0242  | 1.0428                      | 1.0389            | 0.9843           | 0.9947              | 0.9895<br>1.0019         | 0.9647<br>1.0017  | 0.9622<br>1.0095   | 0.9634<br>1.0056    | 1.0029<br>1.0134 | 0.9979<br>1.0010            | 1.0004<br>1.0072 | 1.0194             | 1.0279<br>1.0152    | 1.0236             |                    | 1.0138           | 1.0103             | 1.0485           | 1.0555                      | 1.0520           |
| 9        | 0.9857           | 0.9875            | 0.9866              | 1.0202                | 1.0297                    | 1.0249            | 0.9791           | 0.9926              | 0.9859           | 1.1291            | 1.1521                      | 1.1405            |                  | 0.9921              | 0.9959                   | 0.9595            | 0.8853             | 0.9216              | 0.9196           | 0.9664                      | 0.9427           | 1.0367             | 1.0493              | 1.0430             | 1.0069             | 1.0145           | 1.0107             | 1.0474           | 1.0075                      | 1.0273           |
| 10<br>11 | 0.9960<br>1.0217 | 1.0162<br>1.0141  | 1.0061              | 1.0081<br>0.9858      | 1.0038                    | 1.0060            | 1.0015           | 1.0004<br>0.9611    | 1.0009<br>0.9547 | 1.0651            | 1.0462<br>1.0289            | 1.0556            | 1.0061<br>0.9723 | 1.0188<br>0.9830    | 1.0124<br>0.9776         | 1.0219<br>0.9694  | 0.9947             | 1.0082              | 1.0047<br>0.9900 | 0.9945<br>0.9892            | 0.9996           | 1.0270             | 1.0503<br>1.0254    | 1.0386             | 0.9978             | 0.9959           | 0.9968             | 0.9821<br>1.0063 | 0.9735                      | 0.9778<br>1.0082 |
| 11       | 0.9594           | 0.9695            | 0.9645              | 1.0200                | 1.0495                    | 1.0347            | 0.9484           | 0.9611              | 0.9547           | 1.0004            | 1.0289                      | 1.0145            | 0.9723           | 0.9830              |                          | 0.9694            | 0.9288             | 0.9489              | 0.9900           | 0.9892                      | 0.9896           | 1.0076             | 1.0254              |                    | 1.0165             | 1.0015           | 1.0155             | 0.9960           | 1.0100                      | 1.0082           |
| 13       | 1.0183           | 1.0087            | 1.0135              | 0.9831                | 0.9912                    | 0.9872            | 0.9774           | 0.9951              | 0.9862           | 1.0196            | 1.0145                      | 1.0170            |                  | 0.9452              | 0.9452                   | 0.9573            | 1.0058             | 0.9813              | 1.0020           | 1.0108                      | 1.0064           | 1.0834             | 1.0522              | 1.0677             | 1.0102             | 1.0231           | 1.0166             | 1.0405           | 1.0496                      | 1.0451           |
| 14<br>15 | 0.9973<br>1.0432 | 1.0367<br>1.0552  | 1.0168<br>1.0492    | 1.0189<br>1.0032      | 1.0274<br>1.0143          | 1.0232            | 0.9770<br>0.9924 | 0.9832<br>1.0126    | 0.9801<br>1.0024 | 1.0566            | 1.0458<br>1.0721            | 1.0512<br>1.0880  | 1.0618           | 1.0589<br>1.0891    | 1.0604<br>1.0775         | 0.9870<br>1.0059  | 1.0020<br>1.0147   | 0.9945<br>1.0103    | 0.9595<br>1.0093 | 0.9511<br>1.0232            | 0.9553<br>1.0162 |                    | 1.0604<br>1.0258    |                    |                    | 0.9996<br>1.0106 | 1.0052<br>1.0131   | 0.9809<br>1.0260 | 0.9872<br>1.1471            | 0.9840<br>1.0848 |
| 16       | 1.0087           | 1.0094            | 1.0091              | 1.0121                | 1.0158                    | 1.0140            | 0.9964           | 1.0008              | 0.9986           | 1.0553            | 1.0620                      | 1.0586            | 0.9988           | 1.1384              | 1.0663                   | 0.9682            | 0.9797             | 0.9739              | 0.9954           | 1.0034                      | 0.9994           | 1.0899             | 1.0571              | 1.0734             | 1.0222             | 1.0142           | 1.0182             | 0.9797           | 0.9501                      | 0.9648           |
| 17<br>18 | 1.0155<br>1.0152 | 1.0056            | 1.0105<br>1.0197    | 1.0104<br>1.0245      | 1.0137<br>1.0207          | 1.0121<br>1.0226  | 0.9922           | 0.9866<br>1.0142    | 0.9894<br>1.0077 | 1.1368<br>1.0859  | 1.1321<br>1.0650            | 1.1345<br>1.0754  | 1.0237           | 1.1778<br>1.1083    |                          | 0.9924<br>1.0107  | 1.0014<br>1.0215   | 0.9969              | 0.9712<br>0.9833 |                             | 0.9768<br>0.9843 | 1.0982<br>1.0557   | 1.0580<br>1.0388    | 1.0779<br>1.0472   | 1.0183<br>1.0277   | 1.0285<br>1.0053 | 1.0234<br>1.0164   | 1.0323<br>0.9723 | 1.0938                      | 1.0626<br>0.9664 |
| 18       | 0.9807           | 0.9947            | 0.9877              | 0.9790                | 0.9953                    | 0.9871            | 1.0013           | 1.0142              | 1.0077           | 1.0839            | 1.0630                      | 1.0754            | 1.0652           | 1.1083              | 1.0863                   | 0.9942            | 1.0215             | 1.0014              | 0.9833           | 0.9852                      | 0.9843           |                    | 1.0388              | 1.0472             |                    | 1.0055           | 1.0164             | 1.0443           | 1.0893                      | 1.0665           |
| 20       | 1.0110           | 1.0372            | 1.0240              | 1.0288                | 1.0206                    | 1.0247            | 0.9755           | 1.0184              | 0.9967           | 1.0840            | 1.0682                      | 1.0761            | 0.9879           | 1.1423              |                          | 0.9836            | 0.9724             | 0.9779              | 0.9743           | 0.9913                      | 0.9827           | 1.0539             |                     |                    |                    | 1.0138           | 1.0112             |                  | 1.0981                      | 1.1050           |
| 21       | 1.0151           | 0.9996            | 1.0073              | 1.0066                | 1.0155                    | 1.0111            | 0.9863           | 1.0080              | 0.9971           | 1.0657            | 1.1558                      | 1.1098            | 0.9966           | 1.0112              | 1.0039                   | 0.9580            | 0.8983             | 0.9276              | 0.9894           | 0.9882                      | 0.9888           | 1.0143             | 1.0166              | 1.0154             | 1.0002             | 1.0014           | 1.0008             | 1.0846           | 1.0702                      | 1.0774           |

| Saitama_<br>Paache | Saitama_<br>Laspeyre<br>s | Saitama_<br>Fisher | Chiba_P<br>aache | Chiba_L<br>aspeyres | Chiba_Fi<br>sher   | Tokyo_P<br>aache | Tokyo_L<br>aspeyres | Tokyo_F<br>isher | Kanaga<br>wa_Paac<br>he | Kanaga<br>wa_Lasp<br>eyres | Kanaga<br>wa_Fish<br>er | Niigata_<br>Paache | Niigata_<br>Laspeyre<br>s | Niigata_<br>Fisher | Toyama_<br>Paache | Toyama_<br>Laspeyre<br>s | Toyama_<br>Fisher |
|--------------------|---------------------------|--------------------|------------------|---------------------|--------------------|------------------|---------------------|------------------|-------------------------|----------------------------|-------------------------|--------------------|---------------------------|--------------------|-------------------|--------------------------|-------------------|
| 1.0000             | 1.0000                    | 1.0000             | 1.0000           | 1.0000              | 1.0000             | 1.0000           | 1.0000              | 1.0000           | 1.0000                  | 1.0000                     | 1.0000                  | 1.0000             | 1.0000                    | 1.0000             | 1.0000            | 1.0000                   | 1.0000            |
| 0.9857             | 0.9905                    | 0.9881             | 0.9889           | 0.9951              | 0.9920             | 0.9990           | 1.0003              | 0.9997           | 0.9918                  |                            |                         | 1.0066             | 1.0175                    | 1.0120             | 0.9796            |                          | 0.9838            |
| 0.9830             | 1.0054                    | 0.9941             | 0.9863           | 1.0016              | 0.9940             | 0.9950           | 1.0035              | 0.9992           | 0.9959                  | 1.0030                     | 0.9994                  | 0.9863             | 0.9873                    | 0.9868             | 0.9799            | 0.9714                   | 0.9756            |
| 0.9876             | 0.9899                    | 0.9888             | 1.0039           | 1.0067              | 1.0053             | 0.9989           | 1.0063              | 1.0026           | 0.9996                  |                            | 0.9978                  | 0.9393             | 1.0178                    | 0.9777             | 0.9846            |                          | 0.9890            |
| 0.9813             | 0.9952                    | 0.9882             | 0.9769           | 0.9910              | 0.9839             | 0.9961           | 0.9995              | 0.9978           | 0.9886                  |                            |                         | 0.9876             | 0.9786                    | 0.9831             | 0.9921            | 0.9871                   | 0.9896            |
| 0.9824             | 0.9854                    | 0.9839             | 0.9833           | 0.9993              | 0.9913             | 1.0107           | 1.0105              | 1.0106           | 1.0122                  |                            |                         | 0.9806             | 1.0032                    | 0.9919             | 0.9664            | 0.9619                   | 0.9641            |
| 1.0025             | 1.0040                    | 1.0032             | 0.9803           | 0.9867              | 0.9835             | 0.9972           | 1.0132              | 1.0052           | 0.9907                  | 1.0018                     |                         | 0.9971             | 1.0151                    | 1.0061             | 0.9760            |                          | 0.9818            |
| 0.9954<br>0.9590   | 1.0006<br>0.9720          | 0.9980<br>0.9655   | 0.9874<br>0.9783 | 0.9954<br>0.9897    | 0.9914<br>0.9840   | 0.9923<br>0.9890 | 0.9987<br>1.0048    | 0.9955<br>0.9968 | 0.9967<br>1.0072        | 1.0095<br>1.0315           |                         | 0.9018<br>1.0197   | 0.9836<br>1.0102          | 0.9418<br>1.0149   | 0.9665<br>0.9562  |                          | 0.9754            |
| 1.0383             | 1.0436                    | 1.0410             | 1.0197           | 1.0279              | 1.0238             | 1.0063           | 1.0208              | 1.0135           | 1.0326                  |                            |                         | 1.0021             | 1.0304                    | 1.0162             | 0.9874            | 0.9928                   | 0.9901            |
| 1.0449             | 1.0529                    | 1.0489             | 1.0267           | 1.0412              | 1.0339             | 1.0305           | 1.0452              | 1.0378           | 1.0376                  |                            | 1.0393                  | 0.9859             | 1.0136                    | 0.9997             | 0.9771            | 1.0002                   | 0.9886            |
| 1.0185             | 1.0196                    | 1.0191             | 1.0233           | 1.0410              | 1.0321             | 1.0456           | 1.0536              | 1.0496           | 1.0567                  | 1.0488                     |                         | 1.0348             | 1.0706                    | 1.0525             | 0.9632            | 0.9755                   | 0.9693            |
| 1.0034             | 1.0176                    | 1.0105             | 1.0257           | 1.0331              | 1.0294             | 1.0254           | 1.0343              | 1.0298           | 1.0579                  |                            |                         | 1.0435             | 1.0567                    | 1.0501             | 0.9887            | 1.0017                   | 0.9952            |
| 1.0264             | 1.0334                    | 1.0299             | 1.0307           | 1.0335              | 1.0321             | 1.0315           | 1.0326              | 1.0320           | 1.0211                  | 1.0163                     |                         | 1.0103             | 1.0277                    | 1.0190             | 0.9735            | 0.9820                   | 0.9778            |
| 1.0081             | 1.0117                    | 1.0099             | 1.0199           | 1.0258              | 1.0229             | 1.0043           | 1.0170              | 1.0106           | 1.0314                  |                            |                         | 0.9776             | 1.0080                    | 0.9927             | 1.0005            | 1.0038                   | 1.0021            |
| 0.9901<br>1.0067   | 1.0187<br>1.0176          | 1.0043<br>1.0121   | 1.0114<br>1.0142 | 1.0109<br>1.0131    | 1.0111<br>1.0136   | 1.0310<br>1.0159 | 1.0440<br>1.0245    | 1.0375<br>1.0202 | 1.0113<br>0.9940        |                            | 1.0122<br>0.9990        | 0.9987<br>0.9222   | 1.0254<br>1.0304          | 1.0119<br>0.9748   | 0.9603<br>0.9891  | 0.9612<br>0.9947         | 0.9608            |
| 0.9928             | 1.0176                    | 1.0000             | 0.9949           | 1.0131              | 1.0040             | 1.0139           | 1.0243              | 1.0202           | 1.0189                  |                            |                         | 1.0303             | 1.0638                    | 1.0469             | 1.0081            | 1.0066                   | 1.0073            |
| 0.9941             | 0.9916                    | 0.9929             | 1.0138           |                     | 1.0153             | 1.0102           | 1.0308              | 1.0204           | 1.0215                  |                            |                         | 0.9876             |                           | 1.0014             | 0.9902            |                          | 0.9978            |
| 1.0025             | 1.0119                    | 1.0072             | 1.0004           |                     | 1.0035             | 1.0023           | 1.0159              | 1.0091           | 0.9900                  |                            |                         | 1.0178             | 1.0316                    | 1.0247             | 0.9925            | 0.9779                   | 0.9852            |
|                    |                           |                    |                  | TT                  |                    |                  |                     |                  | XV.1                    | XX7-1                      | XX.1                    |                    | T                         |                    |                   |                          |                   |
| Osaka_P            | Osaka_L<br>aspeyres       | Osaka_F            | Hyogo_           | Lachevre            | Hyogo_             | Nara_Pa          | Nara_La             | Nara_Fis         |                         | Wakaya                     | man Dink                | Tottori_           | Tottori_                  | Tottori_           |                   |                          |                   |
| aache              | aspeyres                  | isher              | Paache           | S                   | Fisher             | ache             | speyres             | her              | he                      | eyres                      | er                      | Paache             | Laspeyre<br>s             | Fisher             |                   |                          |                   |
| 1.0000             | 1.0000                    | 1.0000             | 1.0000           | 1.0000              | 1.0000             | 1.0000           | 1.0000              | 1.0000           |                         | •                          | 1.0000                  | 1.0000             | 1.0000                    | 1.0000             |                   |                          |                   |
| 1.0000             | 1.0000                    | 1.0000             | 1.0000<br>0.9938 | 1.0000<br>0.9953    | 1.0000<br>0.9945   | 1.0000           | 1.0000<br>1.0079    | 1.0000<br>1.0105 |                         |                            |                         | 1.0000<br>0.9942   | 1.0000<br>0.9965          | 1.0000<br>0.9954   |                   |                          |                   |
| 1.0205<br>0.9977   | 1.0280<br>0.9965          | 1.0242<br>0.9971   | 0.9938           | 1.0136              | 1.0037             | 1.0132<br>1.0024 | 1.0079              | 1.0034           | 1.0236<br>1.0138        |                            |                         | 0.9942             | 1.0108                    | 0.9934             |                   |                          |                   |
| 1.0135             | 1.0086                    | 1.0110             | 0.9857           | 0.9967              | 0.9912             | 0.9362           | 0.9842              | 0.9599           | 0.9861                  | 0.9945                     |                         | 1.0041             | 1.0053                    | 1.0047             |                   |                          |                   |
| 0.9948             | 1.0006                    | 0.9977             | 0.9918           | 0.9965              | 0.9942             | 1.0325           | 1.0166              | 1.0245           | 1.0219                  | 1.0750                     |                         | 0.9713             | 0.9639                    | 0.9676             |                   |                          |                   |
| 1.0214             | 1.0201                    | 1.0208             | 1.0087           | 1.0216              | 1.0152             | 0.9831           | 1.0179              | 1.0004           | 0.9952                  |                            | 0.9940                  | 1.0313             | 1.0304                    | 1.0308             |                   |                          |                   |
| 1.0020             | 0.9976                    | 0.9998             | 1.0001           | 1.0030              | 1.0015             | 1.0275           | 1.0377              | 1.0326           | 1.0209                  |                            | 1.0215                  | 0.9931             | 0.9875                    | 0.9903             |                   |                          |                   |
| 1.0116             | 1.0215                    | 1.0166             | 0.9777           | 0.9965              | 0.9871             | 1.0160           | 1.0242              | 1.0201           | 1.0058                  |                            |                         | 0.9878             | 0.9769                    | 0.9823             |                   |                          |                   |
| 0.9870             | 1.0007                    | 0.9938             | 0.9914           | 0.9952              | 0.9933             | 1.0080           | 1.0341              | 1.0210           | 0.9808                  |                            |                         | 1.0235             | 1.0006                    | 1.0120             |                   |                          |                   |
| 1.0075             | 1.0008                    | 1.0041             | 0.9870<br>0.9974 | 0.9999<br>1.0028    | 0.9935             | 1.0045           | 1.0220              | 1.0132<br>1.0183 | 0.9965                  |                            | 1.0112                  | 0.9560             | 0.9806                    | 0.9682<br>1.0272   |                   |                          |                   |
| 0.9741<br>1.0152   | 1.0212<br>1.0385          | 0.9974<br>1.0268   | 0.9974           | 0.9964              | 1.0001<br>0.9962   | 1.0117<br>0.9807 | 1.0250<br>1.0042    | 0.9923           | 0.9866<br>1.0353        |                            |                         | 1.0087<br>0.9931   | 1.0459<br>1.0099          | 1.0272             |                   |                          |                   |
| 0.9996             | 1.0263                    | 1.0129             | 1.0296           | 1.0319              | 1.0307             | 0.9968           | 1.0012              | 0.9993           | 1.0337                  | 1.0393                     |                         | 0.9290             |                           | 0.9589             |                   |                          |                   |
| 1.0107             | 1.0103                    | 1.0105             | 1.0037           | 1.0072              | 1.0054             | 1.0157           | 1.0353              | 1.0254           | 1.0209                  |                            |                         | 0.9713             | 0.9817                    | 0.9765             |                   |                          |                   |
| 0.9930             | 1.0000                    | 0.9965             | 1.0250           | 1.0257              | 1.0253             | 0.9895           | 1.0084              | 0.9989           | 1.0035                  | 1.0172                     |                         | 1.0020             | 1.0041                    | 1.0031             |                   |                          |                   |
| 1.0085             | 1.0014                    | 1.0049             | 1.0108           | 1.0147              | 1.0127             | 1.0234           | 1.0521              | 1.0377           | 0.9902                  |                            |                         | 0.9326             |                           | 0.9393             |                   |                          |                   |
| 0.9755             | 1.0010                    | 0.9882             | 1.0156           |                     | 1.0192             | 1.0155           | 1.0344              | 1.0249           | 0.9896                  |                            |                         | 0.7666             |                           | 0.7721             |                   |                          |                   |
| 1.0041             | 1.0015                    | 1.0028             |                  | 1.0163              | 1.0089             | 1.0516           | 1.0262              | 1.0388           | 0.9920                  |                            |                         | 0.9772             |                           | 0.9819             |                   |                          |                   |
| 1.0122<br>1.0149   | 1.0194<br>1.0152          | 1.0158<br>1.0151   | 1.0187<br>0.9909 | 1.0275<br>0.9844    | 1.0231<br>0.9877   | 1.0269<br>0.9900 | 1.0372<br>0.9945    | 1.0320<br>0.9923 | 0.9702<br>1.0214        |                            |                         | 0.9655<br>1.0344   | 0.9737<br>1.0217          | 1.0280             |                   |                          |                   |
|                    |                           | 1.0151             |                  |                     |                    |                  |                     |                  |                         |                            |                         |                    |                           |                    |                   |                          |                   |
| Nagasaki           | Nagasaki                  | Nagasaki           | Kumamo           | Kumamo              | Kumamo<br>to_Fishe | Oita Paa         | Oita Las            | Oita Fis         | Mivazak                 | Miyazak                    | Miyazak                 |                    | Kagoshi                   |                    |                   |                          |                   |
| Paache             | _Laspeyr                  | _Fisher            |                  |                     |                    | che              | peyres              | her              | i_Paache                |                            | i_Fisher                |                    | ma_Lasp                   |                    |                   |                          |                   |
|                    | es                        |                    | e                | yres                | r                  |                  |                     |                  |                         | 108                        |                         | he                 | eyres                     | er                 |                   |                          |                   |
| 1.0000             | 1.0000                    | 1.0000             | 1.0000           |                     | 1.0000             | 1.0000           | 1.0000              | 1.0000           | 1.0000                  |                            |                         | 1.0000             | 1.0000                    | 1.0000             |                   |                          |                   |
| 0.9271             | 0.9785                    | 0.9524             | 1.0095           |                     | 1.0088             | 0.9715           | 0.9718              | 0.9717           | 0.9908                  |                            |                         | 0.9811             | 0.9987                    | 0.9898             |                   |                          |                   |
| 1.0006             | 1.0280                    | 1.0142             | 0.9461           | 0.9697              | 0.9579             | 0.9952           | 0.9941              | 0.9946           | 0.9899                  |                            |                         | 0.9633             | 0.9710                    | 0.9672             |                   |                          |                   |
| 0.9936<br>0.9582   | 1.0118<br>0.9589          | 1.0026<br>0.9585   | 0.9772<br>0.9809 | 1.0209<br>1.0035    | 0.9988<br>0.9922   | 0.9955<br>0.9767 | 0.9976<br>0.9849    | 0.9965<br>0.9807 | 0.9826<br>1.0102        |                            | 0.9927<br>1.0151        | 0.9877<br>0.9870   | 0.9883<br>1.0110          | 0.9880<br>0.9989   |                   |                          |                   |
| 1.0310             | 1.0800                    | 1.0552             | 0.9697           | 0.9783              | 0.9922             | 0.9835           | 1.0017              | 0.9807           | 1.0102                  |                            |                         | 1.0001             | 1.0110                    | 1.0059             |                   |                          |                   |
| 0.9675             | 0.9881                    | 0.9777             | 0.9740           |                     | 0.9695             | 0.9869           | 0.9915              | 0.9892           | 0.9730                  |                            |                         | 0.9826             | 1.0004                    | 0.9914             |                   |                          |                   |
| 0.9757             | 0.9858                    | 0.9807             | 0.9340           | 0.9874              | 0.9603             | 0.9678           | 0.9748              | 0.9713           | 1.0340                  |                            |                         | 0.9755             | 0.9689                    | 0.9722             |                   |                          |                   |
| 0.9505             | 0.9819                    | 0.9661             | 1.0313           | 1.0348              | 1.0331             | 0.9734           | 0.9737              | 0.9735           | 0.9863                  | 0.9982                     | 0.9923                  | 0.9520             | 0.9834                    | 0.9675             |                   |                          |                   |
| 1.0349             | 0.9988                    | 1.0167             | 0.9480           | 0.9711              | 0.9595             | 0.9791           | 0.9873              | 0.9832           | 0.9832                  |                            |                         | 0.9589             | 0.9734                    | 0.9661             |                   |                          |                   |
| 1.0175             | 1.0858                    | 1.0511             | 0.9813           | 0.9966              | 0.9889             | 0.9304           | 0.9344              | 0.9324           | 1.0498                  |                            | 1.0494                  | 0.9705             | 0.9910                    | 0.9807             |                   |                          |                   |
| 1.0277<br>1.0402   | 1.0492<br>1.0909          | 1.0384<br>1.0653   | 0.9331<br>1.0160 | 0.9670              | 0.9499<br>1.0201   | 0.9652<br>0.9684 | 0.9851<br>0.9830    | 0.9751           | 0.9956<br>0.9916        |                            |                         | 1.0487<br>0.9908   | 1.0350<br>0.9944          | 1.0418<br>0.9926   |                   |                          |                   |
| 1.0402             | 1.0909                    | 1.0653             | 0.9900           | 1.0241<br>1.0147    | 1.0201             | 0.9684           | 1.0077              | 0.9757<br>1.0008 | 1.0063                  | 1.0177<br>0.9916           |                         | 0.9908             | 0.9944                    | 0.9926             |                   |                          |                   |
| 0.9810             | 1.0331                    | 1.0067             | 0.9619           | 0.9824              | 0.9721             | 0.9228           | 0.9445              | 0.9336           | 0.9667                  | 1.0019                     |                         | 0.9219             | 0.9867                    | 0.9303             |                   |                          |                   |
| 1.0327             | 1.0762                    | 1.0542             | 0.9857           | 0.9994              | 0.9925             | 0.9651           | 0.9767              | 0.9709           | 0.9966                  |                            |                         | 0.9518             | 0.9180                    | 0.9348             |                   |                          |                   |
| 0.9726             | 0.9690                    | 0.9708             | 0.9396           | 0.9849              | 0.9620             | 1.0173           | 1.0357              | 1.0265           | 1.0489                  | 1.0421                     | 1.0455                  | 1.0333             | 1.0814                    | 1.0571             |                   |                          |                   |
| 0.9938             | 0.9825                    | 0.9881             | 1.0110           | 1.0110              | 1.0110             | 1.0186           | 1.0039              | 1.0112           | 1.0380                  |                            | 1.0552                  | 0.9851             | 0.9741                    | 0.9796             |                   |                          |                   |
| 1.0218             | 1.1240                    | 1.0717             | 1.0201           | 1.0096              | 1.0148             | 1.0143           | 1.0237              | 1.0190           | 0.9952                  |                            |                         | 0.9916             | 1.0169                    | 1.0042             |                   |                          |                   |
| 1.1012             | 1.1551                    | 1.1279             | 1.0070           | 1.0430              | 1.0249             | 1.0214           | 1.0123              | 1.0168           | 0.9666                  | 0.9791                     | 0.9728                  | 1.0176             | 1.0336                    | 1.0255             |                   |                          |                   |

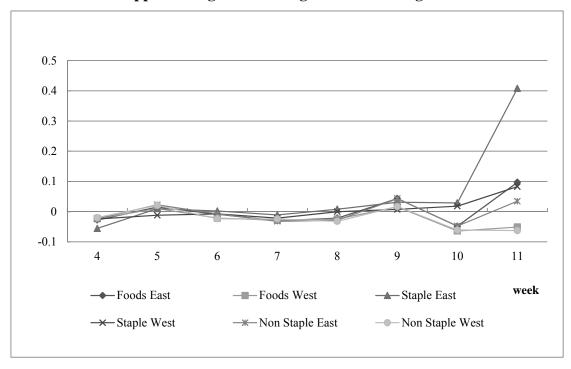
## **Appendix Figure 1: Four major Prefectures**



#### **Appendix Figure 1: Price Index in Four Prefectures**



**Appendix Figure 3: Average Intensive Margin** 



**Appendix Figure 4: Standard Deviation of Intensive Margin** 

