

## Supplement S1. Descriptive statistics of explanatory variables

Table S1. Descriptive statistics of explanatory variables (continuous variables) for analysis 1  
(All roads)

|                                     | Variable                               | Min. | 1st Qu. | Median | Mean   | 3rd Qu. | Max.   |
|-------------------------------------|--|------|---------|--------|--------|---------|--------|
| Distance to                         | the main station in the prefecture (m) | 207  | 11,094  | 15,824 | 17,048 | 21,849  | 69,414 |
|                                     | the nearest station (m)                | 1    | 478     | 787    | 930    | 1,213   | 6,373  |
|                                     | the nearest bus station (m)            | 0    | 83      | 148    | 176    | 236     | 1,694  |
|                                     | the nearest elementary school (m)      | 1    | 258     | 403    | 437    | 575     | 2,427  |
|                                     | the nearest junior high school (m)     | 1    | 376     | 589    | 639    | 848     | 3,603  |
|                                     | the nearest hospital (m)               | 0    | 109     | 200    | 235    | 322     | 3,837  |
|                                     | the nearest post office (m)            | 0    | 269     | 417    | 459    | 600     | 2,993  |
|                                     | the nearest clinic (m)                 | 0    | 112     | 206    | 242    | 333     | 3,837  |
| Maximum building coverage ratio (%) |  | 30   | 50      | 60     | 58     | 60      | 80     |

Table S2. Descriptive statistic of explanatory variables (continuous variables) for analysis 1  
(Roads with undergrounded lines)

|                                     | Variable                               | Min.  | 1st Qu. | Median | Mean   | 3rd Qu. | Max.   |
|-------------------------------------|--|-------|---------|--------|--------|---------|--------|
| Distance to                         | the main station in the prefecture (m) | 1,230 | 12,663  | 20,390 | 19,415 | 23,899  | 53,033 |
|                                     | the nearest station (m)                | 8     | 390     | 646    | 915    | 1,034   | 5,511  |
|                                     | the nearest bus station (m)            | 0     | 27      | 105    | 146    | 209     | 900    |
|                                     | the nearest elementary school (m)      | 7     | 210     | 375    | 436    | 621     | 1,403  |
|                                     | the nearest junior high school (m)     | 22    | 281     | 475    | 584    | 823     | 2,011  |
|                                     | the nearest hospital (m)               | 1     | 85      | 163    | 22     | 317     | 958    |
|                                     | the nearest post office (m)            | 12    | 246     | 420    | 576    | 757     | 2,876  |
|                                     | the nearest clinic (m)                 | 1     | 88      | 168    | 224    | 319     | 958    |
| Maximum building coverage ratio (%) |  | 30    | 50      | 60     | 55     | 60      | 80     |

Table S3. Descriptive statistics of explanatory variables (dummy variables) for analysis 1  
 (All roads)

| <b>Variable</b>  | <b>No (0)</b> | <b>Yes (1)</b> |
|--|---------------|----------------|
| Landscape planning area  | 7,045         | 287,460        |
| Landscape emphasis planning area   | 281,961       | 12,544         |
| Each of the following seven residential districts are considered as a dummy variable |               |                |
| ( i )Category 1 low-rise exclusive residential districts                             | 161,942       | 132,563        |
| ( ii )Category 2 low-rise exclusive residential districts                            | 290,878       | 3,627          |
| ( iii )Category 1 medium-to-high-rise exclusive residential districts                | 231,843       | 62,662         |
| ( iv )Category 2 medium-to-high-rise exclusive residential districts                 | 283,732       | 10,773         |
| ( v )Category 1 residential districts  | 225,920       | 68,585         |
| ( vi )Category 2 residential districts   | 283,602       | 10,903         |
| ( vii )Quasi-residential districts   | 289,113       | 5,392          |
| New towns developed after 1976   | 260,352       | 34,153         |
| New towns developed before 1976  | 271,100       | 23,405         |

Table S4. Descriptive statistics of explanatory variables (dummy variables) for analysis 1  
 (All roads)

| <b>Variable</b>  | <b>No (0)</b> | <b>Yes (1)</b> |
|--|---------------|----------------|
| Landscape planning area  | 72            | 762            |
| Landscape emphasis planning area   | 640           | 194            |
| Each of the following seven residential districts are considered as a dummy variable |               |                |
| ( i )Category 1 low-rise exclusive residential districts                             | 614           | 220            |
| ( ii )Category 2 low-rise exclusive residential districts                            | 823           | 11             |
| ( iii )Category 1 medium-to-high-rise exclusive residential districts                | 661           | 173            |
| ( iv )Category 2 medium-to-high-rise exclusive residential districts                 | 789           | 45             |
| ( v )Category 1 residential districts  | 636           | 198            |
| ( vi )Category 2 residential districts   | 737           | 97             |
| ( vii )Quasi-residential districts   | 744           | 90             |
| New towns developed after 1976   | 640           | 194            |
| New towns developed before 1976  | 755           | 79             |

Table S5. Descriptive statistics of explanatory variables (continuous variables) for analysis 2  
 (All roads)

|                                     | Variable                               | Min. | 1st Qu. | Median | Mean   | 3rd Qu. | Max.    |
|-------------------------------------|--|------|---------|--------|--------|---------|---------|
| Distance to                         | the main station in the prefecture (m) | 20   | 9,089   | 15,218 | 22,582 | 24,924  | 251,781 |
|                                     | the nearest station (m)                | 0    | 494     | 833    | 1,057  | 1,353   | 33,116  |
|                                     | the nearest bus station (m)            | 0    | 93      | 162    | 209    | 257     | 5,556   |
|                                     | the nearest elementary school (m)      | 1    | 276     | 432    | 476    | 624     | 5,815   |
|                                     | the nearest junior high school (m)     | 1    | 412     | 648    | 713    | 937     | 5,926   |
|                                     | the nearest hospital (m)               | 0    | 236     | 505    | 700    | 970     | 10,188  |
|                                     | the nearest post office (m)            | 0    | 264     | 415    | 466    | 610     | 2,993   |
|                                     | the nearest clinic (m)                 | 0    | 114     | 209    | 251    | 340     | 3,836   |
| Maximum building coverage ratio (%) |  | 30   | 50      | 60     | 57     | 60      | 80      |

Table S6. Descriptive statistics of explanatory variables (continuous variables) for analysis 2  
 (Roads with undergrounded lines)

|                                     | Variable                               | Min. | 1st Qu. | Median | Mean   | 3rd Qu. | Max.   |
|-------------------------------------|--|------|---------|--------|--------|---------|--------|
| Distance to                         | the main station in the prefecture (m) | 901  | 10,352  | 19,249 | 19,841 | 23,933  | 12,369 |
|                                     | the nearest station (m)                | 8    | 429     | 769    | 1,064  | 1,273   | 7,426  |
|                                     | the nearest bus station (m)            | 0    | 27      | 98     | 139    | 199     | 1,225  |
|                                     | the nearest elementary school (m)      | 7    | 220     | 398    | 445    | 630     | 1,502  |
|                                     | the nearest junior high school (m)     | 21   | 331     | 601    | 660    | 925     | 2,011  |
|                                     | the nearest hospital (m)               | 1    | 133     | 319    | 578    | 760     | 4,141  |
|                                     | the nearest post office (m)            | 8    | 238     | 430    | 562    | 741     | 2,876  |
|                                     | the nearest clinic (m)                 | 1    | 83      | 167    | 226    | 317     | 1,224  |
| Maximum building coverage ratio (%) |  | 30   | 50      | 60     | 56     | 60      | 80     |

Table S7. Descriptive statistics of explanatory variables (dummy variables) for analysis 2  
 (All roads)

| <b>Variable</b>  | <b>No (0)</b> | <b>Yes (1)</b> |
|--|---------------|----------------|
| Landscape planning area  | 197,990       | 670,018        |
| Landscape emphasis planning area   | 848,822       | 19,186         |
| Each of the following seven residential districts are considered as a dummy variable |               |                |
| ( i )Category 1 low-rise exclusive residential districts                             | 606,013       | 261,995        |
| ( ii )Category 2 low-rise exclusive residential districts                            | 857,403       | 10,605         |
| ( iii )Category 1 medium-to-high-rise exclusive residential districts                | 694,383       | 173,625        |
| ( iv )Category 2 medium-to-high-rise exclusive residential districts                 | 790,493       | 77,515         |
| ( v )Category 1 residential districts  | 595,518       | 272,490        |
| ( vi )Category 2 residential districts   | 816,134       | 51,874         |
| ( vii )Quasi-residential districts   | 848,104       | 19,904         |
| New towns developed after 1976   | 812,620       | 55,388         |
| New towns developed before 1976  | 815,269       | 52,739         |

Table S8. Descriptive statistics of explanatory variables (dummy variables) for analysis 2  
 (Roads with undergrounded lines)

| <b>Variable</b>  | <b>No (0)</b> | <b>Yes (1)</b> |
|--|---------------|----------------|
| Landscape planning area  | 307           | 1,157          |
| Landscape emphasis planning area   | 1,230         | 234            |
| Each of the following seven residential districts are considered as a dummy variable | 1,136         | 328            |
| ( i )Category 1 low-rise exclusive residential districts                             | 1,136         | 328            |
| ( ii )Category 2 low-rise exclusive residential districts                            | 1,412         | 52             |
| ( iii )Category 1 medium-to-high-rise exclusive residential districts                | 1,225         | 239            |
| ( iv )Category 2 medium-to-high-rise exclusive residential districts                 | 1,385         | 79             |
| ( v )Category 1 residential districts  | 1,072         | 392            |
| ( vi )Category 2 residential districts   | 1,255         | 209            |
| ( vii )Quasi-residential districts   | 1,299         | 165            |
| New towns developed after 1976   | 1,169         | 295            |
| New towns developed before 1976  | 1,373         | 91             |

## **Supplement S2. Regression coefficients of explanatory variables**

We show regression coefficients of explanatory variables for analysis 1 and analysis 2. In analysis 1, the regression coefficients are almost the same, not depending on the threshold.

Table S9. Regression coefficients for analysis 1 in linear functional form

| Variables   | FAR threshold of 2 |                |
|---|--------------------|----------------|
|   | Coefficient        | P value        |
| Intercept   | 144819             | 0.00.E+00 ***  |
| the main station in the prefecture                                    | -3                 | 0.00.E+00 ***  |
| the nearest station   | -18                | 0.00.E+00 ***  |
| the nearest bus station   | -5                 | 4.34.E-35 ***  |
| Distance to the nearest elementary school                             | -2                 | 1.26.E-11 ***  |
| the nearest junior high school  | -3                 | 2.37.E-92 ***  |
| the nearest hospital  | -12                | 1.65.E-21 ***  |
| the nearest post office   | -6                 | 1.02.E-175 *** |
| the nearest clinic  | -10                | 5.49.E-17 ***  |
| Maximum building coverage ratio                                       | -184               | 3.70.E-36 ***  |
| Maximum floor area ratio  | 146                | 0.00.E+00 ***  |
| ( i )Category 1 low-rise exclusive residential districts              |                    |                |
| ( ii )Category 2 low-rise exclusive residential districts             | -7912              | 5.92.E-60 ***  |
| ( iii )Category 1 medium-to-high-rise exclusive residential districts | -8035              | 2.57.E-273 *** |
| ( iv )Category 2 medium-to-high-rise exclusive residential districts  | -5219              | 1.20.E-53 ***  |
| ( v )Category 1 residential districts                                 | -9497              | 7.08.E-306 *** |
| ( vi )Category 2 residential districts                                | -4224              | 1.43.E-32 ***  |
| (vii)Quasi-residential districts                                      | -7915              | 3.95.E-69 ***  |
| New towns developed after 1976  | 8516               | 1.45.E-198 *** |
| New towns developed before 1976                                       | -5376              | 1.45.E-59 ***  |
| Landscape planning area   | -2184              | 4.64.E-01      |
| Landscape emphasis planning area                                      | -5876              | 2.59.E-99 ***  |
| Narrow  | -                  | -              |
| Medium  | 6248               | 0.00.E+00 ***  |
| Wide  | 15487              | 1.13.E-153 *** |
| UGUL  | 33459              | 8.13.E-31 ***  |
| Neighborhood  | 5557               | 8.20.E-27 ***  |
| (Wide/Medium)   | -20849             | 9.08.E-09 ***  |
| (High)  | -10907             | 1.14.E-04 ***  |
| (Wide/Medium and High)  | 20192              | 2.68.E-06 ***  |
| (Prefecture dummy of Saitama)   | -10076             | 1.38.E-02 *    |
| (Prefecture dummy of Chiba)   | -17947             | 8.63.E-09 ***  |
| (Prefecture dummy of Tokyo)   | -6833              | 1.40.E-02 *    |
| (Prefecture dummy of Kanagawa)  | -                  | -              |
| Sample size   | 294,504            |                |
| R-squared   | 0.932              |                |
| P value of F-Statistic  | 2.20.E-16          |                |

Table S10. Regression coefficients for analysis 1 in semi-log functional form

| Variables   | FAR threshold of 2 |                |
|---|--------------------|----------------|
|   | Coefficient        | P value        |
| Intercept   | 11.92              | 0.00.E+00 ***  |
| the main station in the prefecture                                    | -1.91E-05          | 0.00.E+00 ***  |
| the nearest station   | -1.36.E-04         | 0.00.E+00 ***  |
| the nearest bus station   | -5.48E-06          | 2.52.E-02 *    |
| Distance to<br>the nearest elementary school                          | -3.12E-05          | 2.63.E-106 *** |
| the nearest junior high school  | -3.10E-05          | 4.27.E-220 *** |
| the nearest hospital  | -9.99E-05          | 1.21.E-40 ***  |
| the nearest post office   | -5.70E-05          | 0.00.E+00 ***  |
| the nearest clinic  | -1.04.E-04         | 3.04.E-46 ***  |
| Maximum building coverage ratio                                       | -1.62.E-03         | 3.29.E-72 ***  |
| Maximum floor area ratio  | 4.95.E-04          | 3.31.E-263 *** |
| ( i )Category 1 low-rise exclusive residential districts              | -3.86.E-03         | 1.94.E-01      |
| ( ii )Category 2 low-rise exclusive residential districts             | 1.31.E-03          | 3.46.E-01      |
| ( iii )Category 1 medium-to-high-rise exclusive residential districts | 2.16.E-02          | 2.01.E-25 ***  |
| ( iv )Category 2 medium-to-high-rise exclusiveresidential districts   | -7.41.E-03         | 1.91.E-06 ***  |
| ( vi )Category 2 residential districts                                | 4.67.E-02          | 5.42.E-102 *** |
| ( vii )Quasi-residential districts                                    | 1.03.E-02          | 1.80.E-04 ***  |
| New towns developed after 1976  | 6.92.E-02          | 0.00.E+00 ***  |
| New towns developed before 1976                                       | -3.75.E-02         | 1.91.E-76 ***  |
| Landscape planning area   | 4.64.E-03          | 8.00.E-01      |
| Landscape emphasis planning area                                      | 1.08.E-03          | 5.23.E-01      |
| Narrow  |                    |                |
| Medium  | 4.11.E-02          | 0.00.E+00 ***  |
| Wide  | 1.02.E-01          | 3.70.E-176 *** |
| UGUL  | 0.2320             | 2.58.E-57 ***  |
| Neighborhood<br>(Wide/Medium)   | 0.0590             | 8.83.E-77 ***  |
| (High)  | -0.1130            | 3.05.E-07 ***  |
| (Wide/Medium and High)  | -0.0515            | 2.53.E-03 **   |
| (Prefecture dummy of Saitama)   | 0.0627             | 1.70.E-02 *    |
| (Prefecture dummy of Chiba)   |                    |                |
| (Prefecture dummy of Tokyo)   | -0.1281            | 9.64.E-28 ***  |
| (Prefecture dummy of Kanagawa)  |                    |                |
| Sample size   | 294,504            |                |
| R-squared   | 0.932              |                |
| P value of F-Statistic  | 2.20.E-16          |                |

Table S11. Regression coefficients for analysis 1 in full log functional form

| Variables   | FAR threshold of 2 |            |     |
|---|--------------------|------------|-----|
|   | Coefficient        | P value    |     |
| Intercept   | 1.51.E+01          | 0.00.E+00  | *** |
| the main station in the prefecture                                    | -2.80.E-01         | 0.00.E+00  | *** |
| the nearest station   | -1.07.E-01         | 0.00.E+00  | *** |
| the nearest bus station   | -1.08.E-03         | 4.46.E-04  | *** |
| Distance to   |                    |            |     |
| the nearest elementary school   | -1.62.E-02         | 1.74.E-212 | *** |
| the nearest junior high school  | -1.91.E-02         | 4.25.E-295 | *** |
| the nearest hospital  | -1.50.E-02         | 1.06.E-16  | *** |
| the nearest post office   | -1.59.E-02         | 1.08.E-229 | *** |
| the nearest clinic  | -1.63.E-02         | 1.08.E-19  | *** |
| Maximum building coverage ratio                                       | -1.03.E-01         | 9.81.E-87  | *** |
| Maximum floor area ratio  | 7.99.E-02          | 8.88.E-200 | *** |
| ( i )Category 1 low-rise exclusive residential districts              |                    |            |     |
| ( ii )Category 2 low-rise exclusive residential districts             | -7.31.E-03         | 1.59.E-02  | *   |
| ( iii )Category 1 medium-to-high-rise exclusive residential districts | -6.02.E-03         | 7.90.E-05  | *** |
| ( iv )Category 2 medium-to-high-rise exclusive residential districts  | 1.29.E-02          | 2.93.E-09  | *** |
| ( v )Category 1 residential districts                                 | -1.65.E-02         | 1.19.E-22  | *** |
| ( vi )Category 2 residential districts                                | 4.12.E-02          | 3.41.E-72  | *** |
| (vii)Quasi-residential districts                                      | 8.35.E-03          | 3.65.E-03  | **  |
| New towns developed after 1976  | 4.57.E-02          | 1.15.E-148 | *** |
| New towns developed before 1976                                       | -1.18.E-02         | 8.70.E-09  | *** |
| Landscape planning area   | 7.24.E-04          | 9.69.E-01  |     |
| Landscape emphasis planning area                                      | -1.99.E-03         | 2.49.E-01  |     |
| Narrow  |                    |            |     |
| Medium  | 3.96.E-02          | 0.00.E+00  | *** |
| Wide  | 9.89.E-02          | 1.11.E-159 | *** |
|   |                    |            | *** |
| UGUL  | 0.1212             | 2.35.E-13  | *** |
| Neighborhood  | 0.0632             | 3.93.E-85  | *** |
| (Wide/Medium)   | -0.0681            | 2.43.E-03  | **  |
| (High)  | 0.0052             | 7.67.E-01  |     |
| (Wide/Medium and High)  | 0.0351             | 1.88.E-01  |     |
| (Prefecture dummy of Saitama)   | -                  | -          |     |
| (Prefecture dummy of Chiba)   | 0.0488             | 4.17.E-03  | **  |
| (Prefecture dummy of Tokyo)   | -0.0699            | 2.29.E-06  | *** |
| (Prefecture dummy of Kanagawa)  | -                  | -          |     |
| Sample size   | 294,504            |            |     |
| R-squared   | 0.930              |            |     |
| P value of F-Statistic  | 2.20.E-16          |            |     |

Table S12. The regression coefficients of explanatory variables for analysis 2

| Variables   | Linear      |                | Semi Log      |                | Full Log    |                |               |
|---|-------------|----------------|---------------|----------------|-------------|----------------|---------------|
|   | Coefficient | P value        | Coefficient   | P value        | Coefficient | P value        |               |
| Intercept   | 63560       | 0.00.E+00 ***  | 1.10.E+01     | 0.00.E+00 ***  | 1.36.E+01   | 0.00.E+00 ***  |               |
| the main station in the prefecture                                    | -2          | 0.00.E+00 ***  | -2.01.E-05    | 0.00.E+00 ***  | -2.44.E-01  | 0.00.E+00 ***  |               |
| the nearest station   | -7          | 0.00.E+00 ***  | -8.19.E-05    | 0.00.E+00 ***  | -7.66.E-02  | 0.00.E+00 ***  |               |
| the nearest bus station   | -2          | 4.37.E-71 ***  | -3.75.E-05    | 2.77.E-234 *** | -6.59.E-03  | 4.78.E-226 *** |               |
| Distance to   |             |                |               |                |             |                |               |
| the nearest elementary school   | -2          | 2.89.E-61 ***  | -4.09.E-05    | 0.00.E+00 ***  | -2.12.E-02  | 0.00.E+00 ***  |               |
| the nearest junior high school  | -3          | 0.00.E+00 ***  | -3.73.E-05    | 0.00.E+00 ***  | -2.65.E-02  | 0.00.E+00 ***  |               |
| the nearest hospital  | -1          | 1.16.E-177 *** | -3.65.E-05    | 0.00.E+00 ***  | -1.79.E-02  | 0.00.E+00 ***  |               |
| the nearest post office   | -5          | 0.00.E+00 ***  | -5.39.E-05    | 0.00.E+00 ***  | -1.67.E-02  | 0.00.E+00 ***  |               |
| the nearest clinic  | -18         | 0.00.E+00 ***  | -2.29.E-04    | 0.00.E+00 ***  | -4.00.E-02  | 0.00.E+00 ***  |               |
| Maximum building coverage ratio                                       | 38          | 6.38.E-08 ***  | 1.63.E-03     | 3.58.E-152 *** | 7.83.E-02   | 6.01.E-105 *** |               |
| Maximum floor area ratio  | 87          | 0.00.E+00 ***  | 2.33.E-04     | 7.90.E-99 ***  | 3.28.E-02   | 9.08.E-64 ***  |               |
| ( i )Category 1 low-rise exclusive residential districts              |             |                |               |                |             |                |               |
| ( ii )Category 2 low-rise exclusive residential districts             | -2274       | 1.10.E-25 ***  | -1.54.E-03    | 4.26.E-01      | -9.50.E-03  | 1.22.E-06 ***  |               |
| ( iii )Category 1 medium-to-high-rise exclusive residential districts | -7465       | 0.00.E+00 ***  | -3.13.E-02    | 4.57.E-164 *** | -2.72.E-02  | 3.82.E-105 *** |               |
| ( iv )Category 2 medium-to-high-rise exclusive residential districts  | -6954       | 0.00.E+00 ***  | -8.65.E-03    | 6.66.E-11 ***  | -4.54.E-03  | 1.64.E-03 **   |               |
| ( v )Category 1 residential districts                                 | -10087      | 0.00.E+00 ***  | -5.52.E-02    | 0.00.E+00 ***  | -5.55.E-02  | 0.00.E+00 ***  |               |
| ( vi )Category 2 residential districts                                | -5788       | 1.30.E-261 *** | 1.53.E-02     | 1.02.E-24 ***  | 6.50.E-03   | 3.84.E-05 ***  |               |
| ( vii )Quasi-residential districts                                    | -8090       | 0.00.E+00 ***  | -2.08.E-03    | 2.62.E-01      | 3.19.E-03   | 9.89.E-02      |               |
| New towns developed after 1976  | 2994        | 4.84.E-169 *** | 3.65.E-02     | 0.00.E+00 ***  | 2.94.E-02   | 1.99.E-201 *** |               |
| New towns developed before 1976                                       | 414         | 1.29.E-04 ***  | 1.39.E-02     | 2.05.E-47 ***  | 1.94.E-02   | 3.38.E-88 ***  |               |
| Landscape planning area   | 4775        | 6.38.E-40 ***  | 4.09.E-02     | 4.27.E-37 ***  | 3.59.E-02   | 2.65.E-28 ***  |               |
| Landscape emphasis planning area                                      | -6440       | 8.38.E-298 *** | -1.18.E-02    | 2.45.E-14 ***  | -1.34.E-02  | 1.35.E-17 ***  |               |
| Narrow  | -           | -              | -             | -              | -           | -              |               |
| Medium  | 5310        | 0.00.E+00 ***  | 5.61.E-02     | 0.00.E+00 ***  | 5.21.E-02   | 0.00.E+00 ***  |               |
| Wide  | 11671       | 0.00.E+00 ***  | 1.38.E-01     | 0.00.E+00 ***  | 1.33.E-01   | 0.00.E+00 ***  |               |
| UGUL  | 17343       | 2.23.E-38 ***  | 1.96.E-01     | 4.68.E-79 ***  | 8.96.E-02   | 2.77.E-15 ***  |               |
| Neighborhood  | 8184        | 1.39.E-184 *** | 8.92.E-02     | 8.04.E-276 *** | 8.65.E-02   | 1.36.E-253 *** |               |
| (Medium)  | -2561       | 2.57.E-02 *    | -6.03.E-02    | 4.25.E-09 ***  | -5.24.E-02  | 4.52.E-07 ***  |               |
| (Wide)  | -7678       | 4.60.E-04 ***  | -1.14.E-01    | 2.01.E-09 ***  | -1.12.E-01  | 6.66.E-09 ***  |               |
| Hokkaido  | -12374      | 3.32.E-03 **   | -             | -              | 1.13.E-01   | 2.58.E-03 **   |               |
| Ibaraki   | -21608      | 1.84.E-05 ***  | -1.83.E-01    | 3.91.E-05 ***  | -8.84.E-02  | 5.08.E-02      |               |
| Tochigi   | -20181      | 1.87.E-08 ***  | -1.52.E-01    | 1.41.E-06 ***  | -           | -              |               |
| Saitama   | -           | -              | -             | -              | 8.72.E-02   | 3.64.E-04 ***  |               |
| Chiba   | -5954       | 1.19.E-03 **   | -             | -              | 1.07.E-01   | 2.87.E-11 ***  |               |
| Tokyo   | 4810        | 2.11.E-03 **   | -1.23.E-01    | 4.82.E-22 ***  | -3.44.E-02  | 1.15.E-02 *    |               |
| (The  | -           | -              | -             | -              | -           | -              |               |
| Kanagawa  | -           | -              | -             | -              | -           | -              |               |
| prefecture  | Nigata      | -9602          | 1.54.E-04 *** | 4.95.E-02      | 2.33.E-02 * | 1.48.E-01      | 5.46.E-11 *** |
| dummy of)   | Gifu        | -              | -             | -              | -           | 1.87.E-01      | 3.60.E-06 *** |
| Aichi   | -15315      | 2.47.E-04 ***  | -1.54.E-01    | 2.59.E-05 ***  | -           | -              |               |
| Mie   | -           | -              | 1.16.E-01     | 2.04.E-03 **   | 1.95.E-01   | 3.53.E-07 ***  |               |
| Kyoto   | 7184        | 8.60.E-04 ***  | 5.82.E-02     | 1.48.E-03 **   | 1.62.E-01   | 1.90.E-17 ***  |               |
| Osaka   | -           | -              | -5.93.E-02    | 1.06.E-02 *    | -           | -              |               |
| Hyogo   | -7962       | 9.08.E-04 ***  | -9.26.E-02    | 5.66.E-06 ***  | -           | -              |               |
| Fukuoka   | 6694        | 1.88.E-02 *    | 1.47.E-01     | 2.52.E-09 ***  | 2.39.E-01   | 3.86.E-21 ***  |               |
| Sample size   | 868,007     |                | 868,007       |                | 868,007     |                |               |
| R-squared   | 0.931       |                | 0.937         |                | 0.936       |                |               |
| P value of F-Statistic  | 2.20E-16    |                | 2.20E-16      |                | 2.20E-16    |                |               |