



# Food Grain Consumption Survey in 2019

## Food Grain Consumption of Households

### 1. Per Capita Annual Food Grain Consumption

**In the 2019 food grain year, per capita annual food grain consumption amounted to 67.4kg, which fell by 3.0% from 2018.**

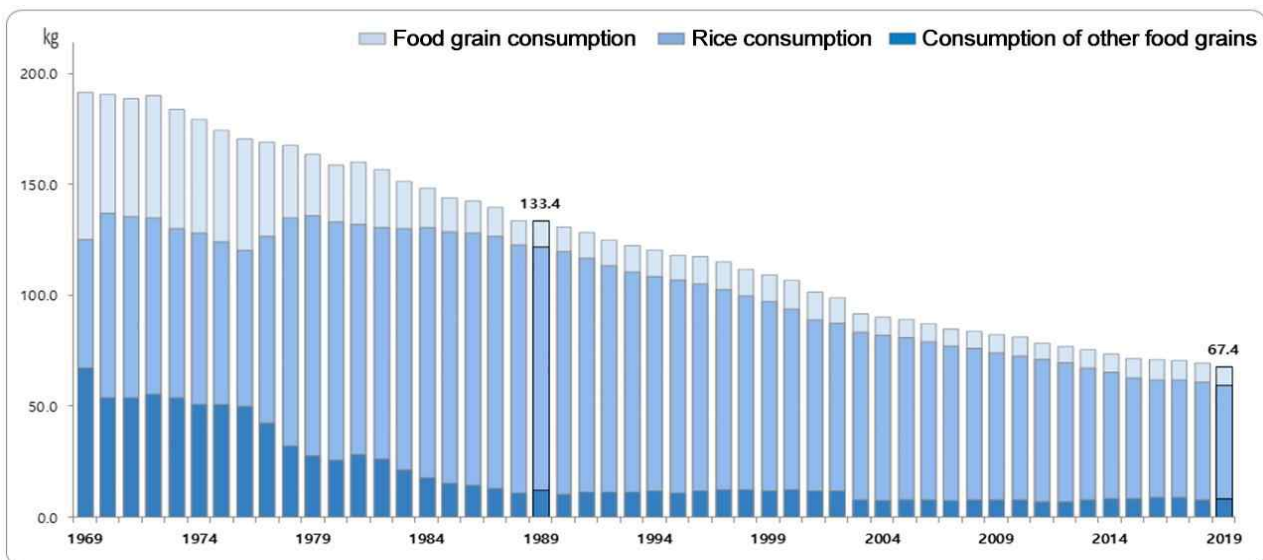
- In the 2019 food grain year\*, annual food grain consumption per capita amounted to 67.4kg, which dropped by 3.0% (2.1kg) from 2018.
- \* 2019 food grain year: From November 1st, 2018 to October 31st, 2019
- Per capita annual food grain consumption showed a continuously decreasing trend after 1981. Food grain consumption in 2019 recorded half of the food grain consumption in 1989 (133.4kg).

[Table 1] Per Capita Annual Food Grain Consumption of Households by Year

(Unit: kg)

| Year           | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019         |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
| Consumption    | 81.3  | 78.6  | 77.1  | 75.3  | 73.8  | 71.7  | 71.2  | 70.9  | 69.5  | <b>67.4</b>  |
| Change         | -1.0  | -2.7  | -1.5  | -1.8  | -1.5  | -2.1  | -0.5  | -0.3  | -1.4  | <b>-2.1</b>  |
| Percent change | -1.2% | -3.3% | -1.9% | -2.3% | -2.0% | -2.8% | -0.7% | -0.4% | -2.0% | <b>-3.0%</b> |

[Figure 1] Per Capita Annual Food Grain Consumption by Year



## 2. Per Capita Annual Rice Consumption

**In the 2019 food grain year, per capita annual rice consumption amounted to 59.2kg, which declined by 3.0% from 2018.**

- In the 2019 food grain year, rice consumption per capita amounted to 59.2kg, which dropped by 3.0% (1.8kg) from 2018.
  - Rice consumption in 2019 recorded half of the rice consumption in 1989 (121.4kg).
- Daily average rice consumption per capita marked 162.1g in 2019, which declined by 3.1% (5.2g) from 2018.
  - Daily rice consumption per capita by year

(Unit: g)

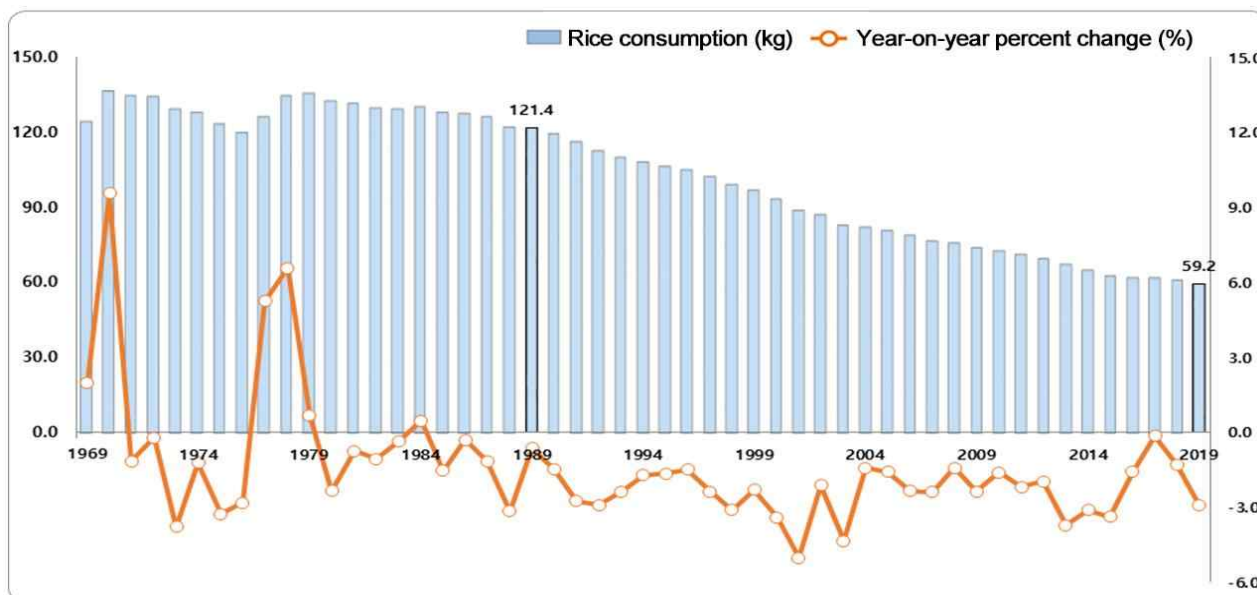
| 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 199.6 | 195.0 | 191.3 | 184.0 | 178.2 | 172.4 | 169.6 | 169.3 | 167.3 | 162.1 |

[Table 2] Per Capita Annual Rice Consumption by Year

(Unit: kg)

| Year           | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019         |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
| Consumption    | 72.8  | 71.2  | 69.8  | 67.2  | 65.1  | 62.9  | 61.9  | 61.8  | 61.0  | <b>59.2</b>  |
| Change         | -1.2  | -1.6  | -1.4  | -2.6  | -2.1  | -2.2  | -1.0  | -0.1  | -0.8  | <b>-1.8</b>  |
| Percent change | -1.6% | -2.2% | -2.0% | -3.7% | -3.1% | -3.4% | -1.6% | -0.2% | -1.3% | <b>-3.0%</b> |

[Figure 2] Per Capita Annual Rice Consumption by Year



### 3. Per Capita Annual Consumption of Other Food Grains

**Per capita annual consumption of other food grains recorded 8.2kg in 2019, falling by 2.4% from 2018.**

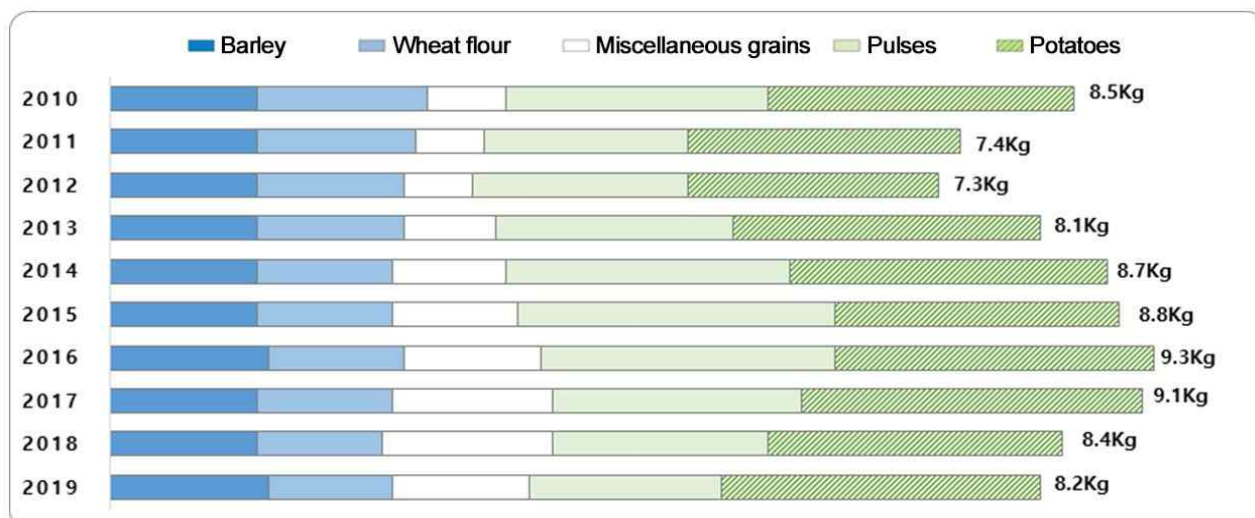
- Per capita annual consumption of other food grains\* fell by 2.4% (0.2kg) to 8.2kg in 2019.
- \* Including barley, wheat flour, miscellaneous grains (millet, sorghum, buckwheat, adlay, etc.), pulses (bean, red bean, peanut, etc.) and potatoes.
- Compared to 2018, the consumption of barley and potatoes rose by 1.4kg and 2.8kg, respectively. Whereas, the consumption of miscellaneous grains and pulses fell by 1.2kg and 1.7kg, respectively.
- The consumption of other food grains occupied 12.2% of the total food grain consumption in 2019, up 0.1%p from 2018.

[Table 3] Per Capita Annual Food Grain Consumption by Year

(Unit: kg, %)

| Year           | Total |       | Rice consumption<br>(Share of rice consumption) |        | Others<br>(Share of other food grains) |        | Barley | Wheat flour | Miscellaneous grains | Pulses | Potatoes |
|----------------|-------|-------|---|--------|--|--------|--------|-------------|----------------------|--------|----------|
|                |       |       |   |        |  |        |        |             |                      |        |          |
| 2010           | 81.3  | (100) | 72.8  | (89.5) | 8.5                                    | (10.5) | 1.3    | 1.5         | 0.7                  | 2.3    | 2.7      |
| 2011           | 78.6  | (100) | 71.2  | (90.6) | 7.4                                    | (9.4)  | 1.3    | 1.4         | 0.6                  | 1.8    | 2.4      |
| 2012           | 77.1  | (100) | 69.8  | (90.5) | 7.3                                    | (9.5)  | 1.3    | 1.3         | 0.6                  | 1.9    | 2.2      |
| 2013           | 75.3  | (100) | 67.2  | (89.2) | 8.1                                    | (10.8) | 1.3    | 1.3         | 0.8                  | 2.1    | 2.7      |
| 2014           | 73.8  | (100) | 65.1  | (88.2) | 8.7                                    | (11.8) | 1.3    | 1.2         | 1.0                  | 2.5    | 2.8      |
| 2015           | 71.7  | (100) | 62.9  | (87.7) | 8.8                                    | (12.3) | 1.3    | 1.2         | 1.1                  | 2.8    | 2.5      |
| 2016           | 71.2  | (100) | 61.9  | (86.9) | 9.3                                    | (13.1) | 1.4    | 1.2         | 1.2                  | 2.6    | 2.8      |
| 2017           | 70.9  | (100) | 61.8  | (87.2) | 9.1                                    | (12.8) | 1.3    | 1.2         | 1.4                  | 2.2    | 3.0      |
| 2018           | 69.5  | (100) | 61.0  | (87.9) | 8.4                                    | (12.1) | 1.3    | 1.1         | 1.5                  | 1.9    | 2.6      |
| 2019           | 67.4  | (100) | 59.2  | (87.8) | 8.2                                    | (12.2) | 1.4    | 1.1         | 1.2                  | 1.7    | 2.8      |
| Percent change | -3.0  |       | -3.0  |        | -2.4                                   |        |        |             |                      |        |          |

[Figure 3] Per Capita Annual Consumption of Other Food Grains by Year



## 4. Annual Food Grain Consumption by Use

**Per capita annual food grain used for main food and side dishes amounted to 66.1kg, which accounted for 98.2% of the total food grain consumption per capita (67.4kg).**

○ Food grain used for main food and side dishes occupied 98.2% of the total annual food grain consumption per capita.

- The share of others (soy sauce & soy bean paste, cakes & cookies, etc.) dropped from 4.9% in 1998 to 1.8% in 2019.

\* Statistics Korea started covering the food grain consumption by use in 1998 when the works related to Food Grain Consumption Surveys were transferred to Statistics Korea from the Ministry of Agriculture, Food and Rural Affairs.

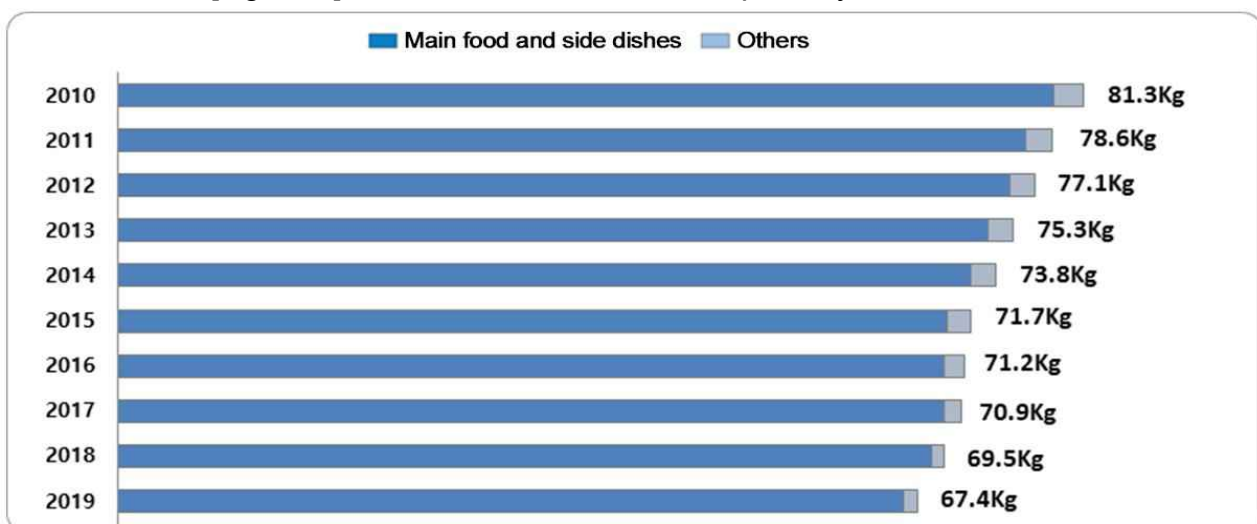
[Table 4] Annual Food Grain Consumption by Use

(Unit: kg, %)

| Year | Total |         | Main food and side dishes |        | Others** |       |
|------|-------|---------|---------------------------|--------|----------|-------|
|      | kg    | (%)     | kg                        | (%)    | kg       | (%)   |
| 1998 | 111.7 | (100.0) | 106.2                     | (95.1) | 5.5      | (4.9) |
| 2010 | 81.3  | (100.0) | 78.7                      | (96.8) | 2.6      | (3.2) |
| 2011 | 78.6  | (100.0) | 76.3                      | (97.1) | 2.3      | (2.9) |
| 2012 | 77.1  | (100.0) | 75.0                      | (97.3) | 2.1      | (2.7) |
| 2013 | 75.3  | (100.0) | 73.2                      | (97.2) | 2.1      | (2.8) |
| 2014 | 73.8  | (100.0) | 71.7                      | (97.2) | 2.1      | (2.8) |
| 2015 | 71.7  | (100.0) | 69.8                      | (97.4) | 1.9      | (2.6) |
| 2016 | 71.2  | (100.0) | 69.5                      | (97.6) | 1.7      | (2.4) |
| 2017 | 70.9  | (100.0) | 69.5                      | (98.0) | 1.4      | (2.0) |
| 2018 | 69.5  | (100.0) | 68.4                      | (98.5) | 1.1      | (1.5) |
| 2019 | 67.4  | (100.0) | 66.1                      | (98.2) | 1.2      | (1.8) |

\*\* Others: Soy sauce & soy bean paste, cakes & cookies, etc.

[Figure 4] Annual Food Grain Consumption by Use and Year



## 5. Food Grain Consumption by Household Type

**Per capita annual food grain consumption of farm and non-farm households recorded 104.2kg and 65.4kg, respectively.**

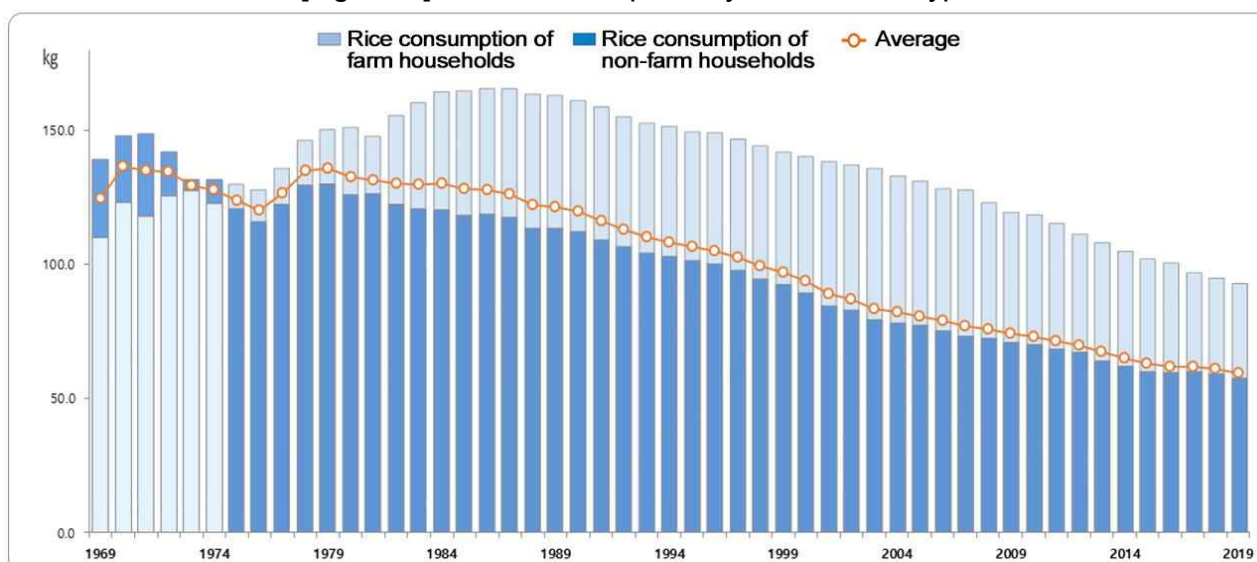
- Per capita annual food grain consumption of farm households decreased by 1.2% to 104.2kg in 2019. Per capita annual food grain consumption of non-farm households decreased by 3.1% to 65.4kg in 2019.
- Per capita annual rice consumption of farm households fell by 1.9% to 92.8kg in 2019. Per capita annual rice consumption of non-farm households dropped by 3.0% to 57.4kg in 2019.
- Per capita annual consumption of other food grains for farm households grew by 4.6% to 11.4kg in 2019. Per capita annual consumption of other food grains for non-farm households fell by 3.6% to 8.0kg in 2019.

[Table 5] Food Grain Consumption by Household Type

(Unit: kg, %)

| Year           | Food grain consumption of farm households |           |             |           | Food grain consumption of non-farm households |           |             |           |
|----------------|---|-----------|-------------|-----------|---|-----------|-------------|-----------|
|                | Rice (kg)                                 | (Share %) | Others (kg) | (Share %) | Rice (kg)                                     | (Share %) | Others (kg) | (Share %) |
| 2010           | 133.4                                     |           | 118.5       | (88.8)    | 14.9  | (11.2)    | 77.8        |           |
| 2011           | 127.4                                     |           | 115.3       | (90.5)    | 12.1  | (9.5)     | 75.4        |           |
| 2012           | 123.3                                     |           | 111.2       | (90.2)    | 12.1  | (9.8)     | 74.0        |           |
| 2013           | 118.5                                     |           | 107.9       | (91.1)    | 10.6  | (8.9)     | 71.9        |           |
| 2014           | 121.3                                     |           | 104.7       | (86.3)    | 16.7  | (13.7)    | 70.0        |           |
| 2015           | 118.5                                     |           | 102.1       | (86.2)    | 16.4  | (13.8)    | 68.3        |           |
| 2016           | 115.7                                     |           | 100.5       | (86.9)    | 15.1  | (13.1)    | 68.5        |           |
| 2017           | 109.5                                     |           | 96.6        | (88.3)    | 12.8  | (11.7)    | 68.7        |           |
| 2018           | 105.5                                     |           | 94.6        | (89.6)    | 10.9  | (10.4)    | 67.5        |           |
| 2019           | 104.2                                     |           | 92.8        | (89.1)    | 11.4  | (10.9)    | 65.4        |           |
| Percent change | -1.2                                      |           | -1.9        |           | 4.6   |           | -3.1        |           |

[Figure 5] Rice Consumption by Household Type



## Rice Consumption of Establishments

### 1. Annual Rice Consumption of Establishments

**Rice consumption of 'Manufacture of Food Products and Beverages' amounted to 744,055 tons in 2019, down 1.5% from 2018.**

- Rice consumption in 'Manufacture of Food Products and Beverages' totaled 744,055 tons in 2019, which decreased by 11,609 tons from 2018.
- Rice consumption in 'Manufacture of Ethyl Alcohol and Neutral Spirits' occupied the largest share at 25.7% of the total rice consumption. This share was followed by 'Manufacture of Rice Cakes' (23.7%), 'Manufacture of Other Prepared Meals and Dishes' (13.2%) and 'Manufacture of Other Grain Mill Products' (7.5%).

[Table 6] Rice Consumption of Major Industries

(Unit: ton, %)

| Major industries  | 2017           |              | 2018           |              | 2019           |              |                |
|---|----------------|--------------|----------------|--------------|----------------|--------------|----------------|
|   | Consumption    | Share        | Consumption    | Share        | Consumption    | Share        | Percent change |
| <b>Total Rice Consumption of Establishments</b>                           | <b>707,703</b> | <b>100.0</b> | <b>755,664</b> | <b>100.0</b> | <b>744,055</b> | <b>100.0</b> | <b>-1.5</b>    |
| Manufacture of Food Products (10)   | 428,829        | 60.6         | 500,843        | 66.3         | <b>494,560</b> | 66.5         | -1.3           |
| Manufacture of Other Grain Mill Products (10619)                          | 42,839         | 6.1          | 45,105         | 6.0          | <b>56,007</b>  | 7.5          | 24.2           |
| Manufacture of Starches and Starch Products (10620)                       | 12,243         | 1.7          | 13,164         | 1.7          | <b>13,230</b>  | 1.8          | 0.5            |
| Manufacture of Rice Cakes (10711)   | 168,865        | 23.9         | 172,317        | 22.8         | <b>176,500</b> | 23.7         | 2.4            |
| Manufacture of Sugar Confectioneries and Cocoa Products (10713)           | 9,042          | 1.3          | 8,866          | 1.2          | <b>9,280</b>   | 1.2          | 4.7            |
| Manufacture of Noodles, Macaroni and Similar Farinaceous Products (10730) | 13,896         | 2.0          | 18,434         | 2.4          | <b>20,126</b>  | 2.7          | 9.2            |
| Manufacture of Soy Sauce and Soy Bean Paste (10743)                       | 10,892         | 1.5          | 12,029         | 1.6          | <b>9,062</b>   | 1.2          | -24.7          |
| Manufacture of Box Lunches and Prepared Meals and Dishes (10798)          | 114,341        | 16.2         | 147,474        | 19.5         | <b>145,187</b> | 19.5         | -1.6           |
| - Manufacture of Box Lunches (10751)                                      | -              | -            | -              | -            | <b>46,760</b>  | 6.3          | -              |
| - Manufacture of Other Prepared Meals and Dishes (10759)                  | -              | -            | -              | -            | <b>98,427</b>  | 13.2         | -              |
| Manufacture of Beverages (11)   | 278,874        | 39.4         | 254,821        | 33.7         | <b>249,495</b> | 33.5         | -2.1           |
| Manufacture of Raw Rice Wines and Refined Rice Wines (11111)              | 56,872         | 8.0          | 60,785         | 8.0          | <b>49,547</b>  | 6.7          | -18.5          |
| Manufacture of Ethyl Alcohol and Neutral Spirits (11121)                  | 215,803        | 30.5         | 187,562        | 24.8         | <b>191,407</b> | 25.7         | 2.0            |

\* According to the 10th revision of industrial classification in 2019, 'Manufacture of Box Lunches and Prepared Meals and Dishes (10798)' was further divided into 'Manufacture of Box Lunches (10751)' and 'Manufacture of Other Prepared Meals and Dishes (10759)'.



## 2. Rice Consumption Trends of Establishments

### Industries Recording an Increase in Rice Consumption

Rice consumption in 'Manufacture of Other Grain Mill Products' totaled 56,007 tons in 2019, which grew by 24.2% (10,902 tons) from 2018.

- Rice consumption in 'Manufacture of Other Grain Mill Products' showed the highest year-on-year increase at 24.2%, which was followed by 'Manufacture of Noodles, Macaroni and Similar Farinaceous Products' (9.2%) and 'Manufacture of Sugar Confectioneries and Cocoa Products' (4.7%).

[Table 7] Major Industries Recording an Increase in Rice Consumption

(Unit: ton, %)

| Industries  | 2017    | 2018    | 2019           | Increase | Percent change |
|---|---------|---------|----------------|----------|----------------|
|   |         |         |                |          |                |
| Manufacture of Other Grain Mill Products (10619)                          | 42,839  | 45,105  | <b>56,007</b>  | 10,902   | 24.2           |
| Manufacture of Noodles, Macaroni and Similar Farinaceous Products (10730) | 13,896  | 18,434  | <b>20,126</b>  | 1,692    | 9.2            |
| Manufacture of Sugar Confectioneries and Cocoa Products (10713)           | 9,042   | 8,866   | <b>9,280</b>   | 414      | 4.7            |
| Manufacture of Rice Cakes (10711)   | 168,865 | 172,317 | <b>176,500</b> | 4,183    | 2.4            |
| Manufacture of Ethyl Alcohol and Neutral Spirits (11121)                  | 215,803 | 187,562 | <b>191,407</b> | 3,845    | 2.0            |
| Manufacture of Starches and Starch Products (10620)                       | 12,243  | 13,164  | <b>13,230</b>  | 66       | 0.5            |

### Industries Recording a Decrease in Rice Consumption

Rice consumption in 'Manufacture of Raw Rice Wines and Refined Rice Wines' totaled 49,547 tons in 2019, which fell by 18.5% (11,238 tons) from 2018.

- Rice consumption in 'Manufacture of Soy Sauce and Soy Bean Paste' showed the highest year-on-year decrease at 24.7%, which was followed by 'Manufacture of Raw Rice Wines and Refined Rice Wines' (-18.5%) and 'Manufacture of Box Lunches and Prepared Meals and Dishes' (-1.6%).

\* Manufacture of Box Lunches and Prepared Meals and Dishes: Manufacture of Box Lunches (10751) + Manufacture of Other Prepared Meals and Dishes (10759)

[Table 8] Major Industries Recording a Decrease in Rice Consumption

(Unit: ton, %)

| Industries   | 2017    | 2018    | 2019           | Decrease | Percent change |
|--|---------|---------|----------------|----------|----------------|
|  |         |         |                |          |                |
| Manufacture of Soy Sauce and Soy Bean Paste (10743)              | 10,892  | 12,029  | <b>9,062</b>   | -2,967   | -24.7          |
| Manufacture of Raw Rice Wines and Refined Rice Wines (11111)     | 56,872  | 60,785  | <b>49,547</b>  | -11,238  | -18.5          |
| Manufacture of Box Lunches and Prepared Meals and Dishes (10798) | 114,341 | 147,474 | <b>145,187</b> | -2,287   | -1.6           |
| - Manufacture of Box Lunches (10751)                             | -       | -       | <b>46,760</b>  | -        | -              |
| - Manufacture of Other Prepared Meals and Dishes (10759)         | -       | -       | <b>98,427</b>  | -        | -              |