



Food Grain Consumption Survey in 2022

Food Grain Consumption of Households

1. Per Capita Annual Food Grain Consumption

In 2022, per capita annual food grain consumption amounted to 64.7kg, which fell by 0.5% from 2021.

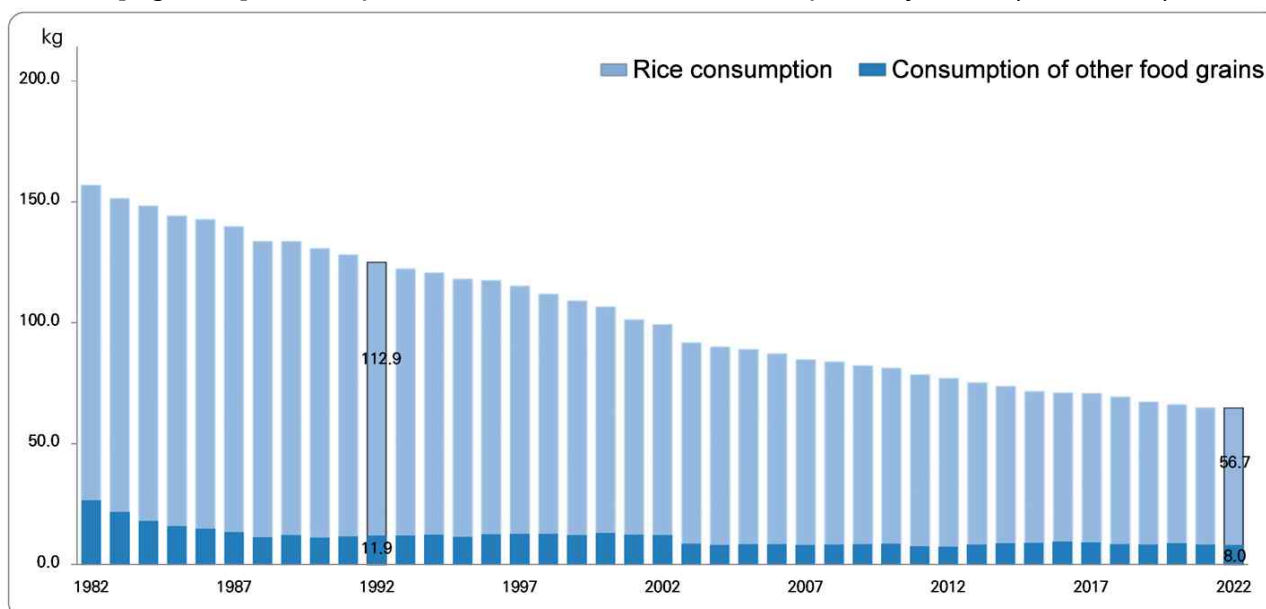
- In 2022, annual food grain consumption per capita amounted to 64.7kg, which dropped by 0.5% (0.3kg) from 2021.
- Per capita annual food grain consumption had shown a continuously decreasing trend since 1982. Food grain consumption in 2022 recorded half of the food grain consumption in 1992 (124.8kg).

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

(Unit: kg, %)

| Year | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|
| Consumption | 75.3 | 73.8 | 71.7 | 71.2 | 70.9 | 69.5 | 67.4 | 66.3 | 65.0 | 64.7 |
| Change | -1.8 | -1.5 | -2.1 | -0.5 | -0.3 | -1.4 | -2.1 | -1.1 | -1.3 | -0.3 |
| Percent change | -2.3 | -2.0 | -2.8 | -0.7 | -0.4 | -2.0 | -3.0 | -1.6 | -2.0 | -0.5 |

[Figure 1] Per Capita Annual Food Grain Consumption by Year (1982-2022)



2. Per Capita Annual Rice Consumption

In 2022, per capita annual rice consumption amounted to 56.7kg, which declined by 0.4% from 2021.

- In 2022, daily average rice consumption per capita marked 155.5g, which went down by 0.2% (0.3g) from 2021.

[Table 2-1] Per Capita Daily Rice Consumption by Year

(Unit: g)

| Year | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Consumption | 184.0 | 178.2 | 172.4 | 169.6 | 169.3 | 167.3 | 162.1 | 158.0 | 155.8 | 155.5 |

- In 2022, annual rice consumption per capita amounted to 56.7kg, which dropped by 0.4% (0.2kg) from 2021.

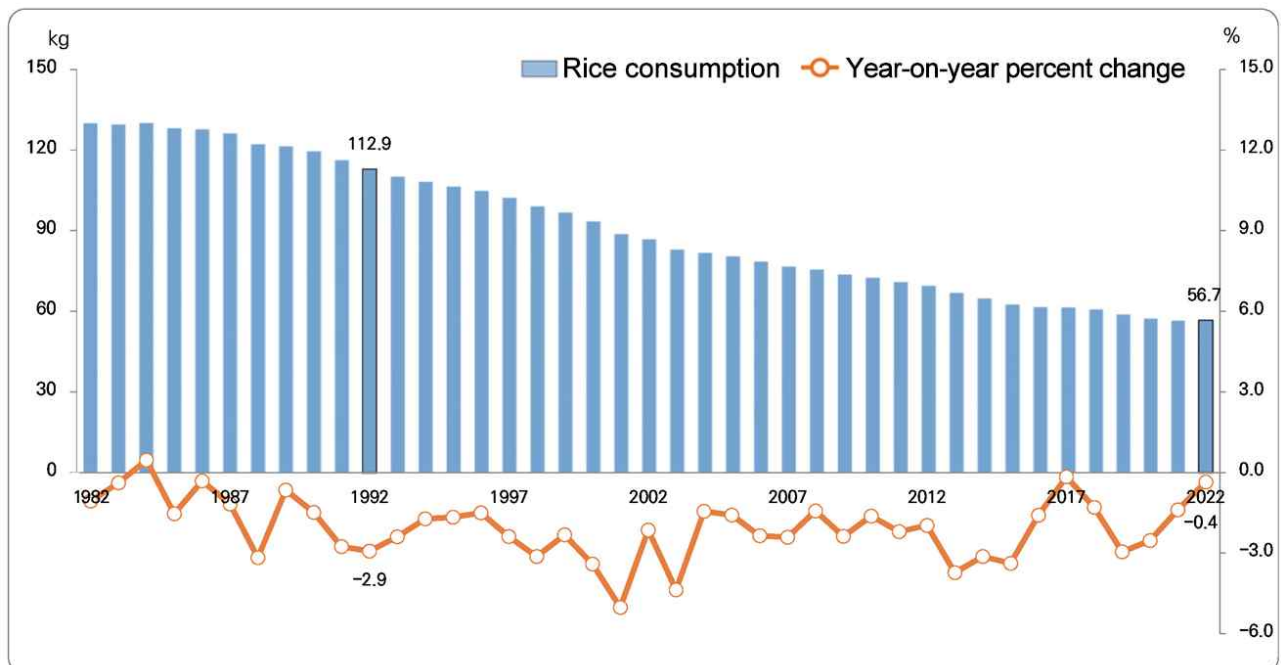
- Annual rice consumption per capita in 2022 recorded half of the annual rice consumption in 1992 (112.9kg).

[Table 2-2] Per Capita Annual Rice Consumption by Year

(Unit: kg)

| Year | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------|------|------|------|------|------|------|------|------|------|------|
| Consumption | 67.2 | 65.1 | 62.9 | 61.9 | 61.8 | 61.0 | 59.2 | 57.7 | 56.9 | 56.7 |
| Change | -2.6 | -2.1 | -2.2 | -1.0 | -0.1 | -0.8 | -1.8 | -1.5 | -0.8 | -0.2 |
| Percent change | -3.7 | -3.1 | -3.4 | -1.6 | -0.2 | -1.3 | -3.0 | -2.5 | -1.4 | -0.4 |

[Figure 2] Per Capita Annual Rice Consumption by Year (1982-2022)



3. Per Capita Annual Consumption of Other Food Grains

Per capita annual consumption of other food grains recorded 8.0kg in 2022, falling by 2.4% from 2021.

- Per capita annual consumption of other food grains* fell by 2.4% (0.2kg) to 8.0kg in 2022.

* Including barley, wheat flour, miscellaneous grains (millet, sorghum, buckwheat, adlay, etc.), pulses (bean, red bean, peanut, etc.) and potatoes.

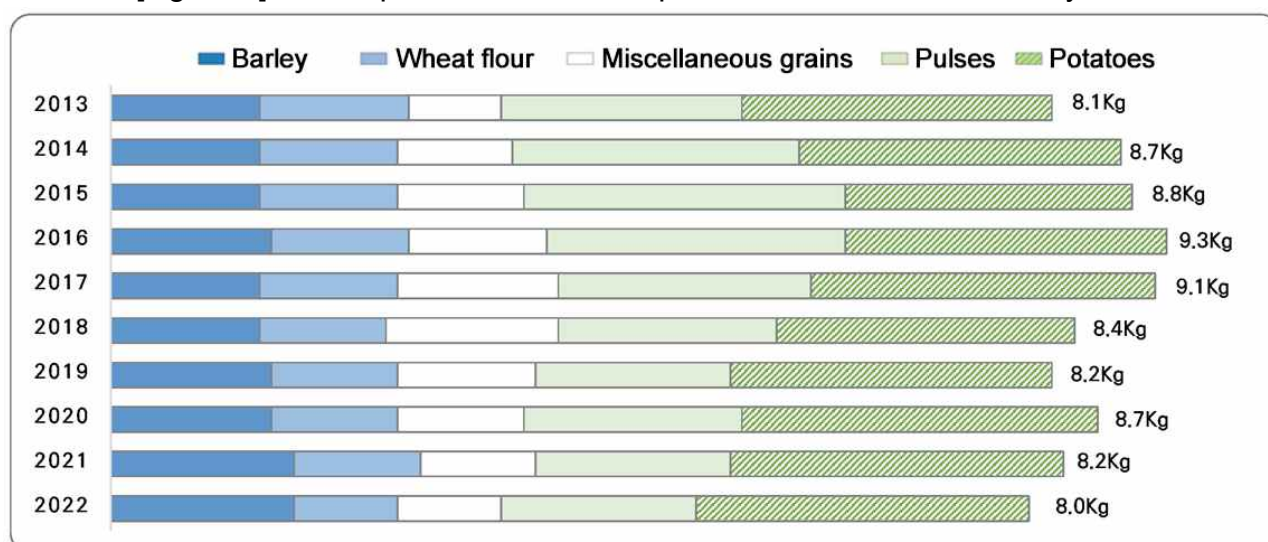
- Compared to 2021, the consumption of wheat flour and miscellaneous grains fell by 0.9kg and 0.9kg, respectively. Whereas, the consumption of barley rose by 1.6kg.
- The consumption of other food grains occupied 12.3% of the total food grain consumption in 2022, down 0.3%p from 2021.

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

(Unit: kg, %)

| Year | Total (Share) | | Rice consumption (Share) | | Other food grains (Share) | | Barley | Wheat flour | Miscellaneous grains | Pulses | Potatoes |
|----------------|---------------|----------------|--------------------------|---------------|---------------------------|---------------|------------|-------------|----------------------|------------|------------|
| 2013 | 75.3 | (100.0) | 67.2 | (89.2) | 8.1 | (10.8) | 1.3 | 1.3 | 0.8 | 2.1 | 2.7 |
| 2014 | 73.8 | (100.0) | 65.1 | (88.2) | 8.7 | (11.8) | 1.3 | 1.2 | 1.0 | 2.5 | 2.8 |
| 2015 | 71.7 | (100.0) | 62.9 | (87.7) | 8.8 | (12.3) | 1.3 | 1.2 | 1.1 | 2.8 | 2.5 |
| 2016 | 71.2 | (100.0) | 61.9 | (86.9) | 9.3 | (13.1) | 1.4 | 1.2 | 1.2 | 2.6 | 2.8 |
| 2017 | 70.9 | (100.0) | 61.8 | (87.2) | 9.1 | (12.8) | 1.3 | 1.2 | 1.4 | 2.2 | 3.0 |
| 2018 | 69.5 | (100.0) | 61.0 | (87.9) | 8.4 | (12.1) | 1.3 | 1.1 | 1.5 | 1.9 | 2.6 |
| 2019 | 67.4 | (100.0) | 59.2 | (87.8) | 8.2 | (12.2) | 1.4 | 1.1 | 1.2 | 1.7 | 2.8 |
| 2020 | 66.3 | (100.0) | 57.7 | (87.0) | 8.7 | (13.0) | 1.4 | 1.1 | 1.1 | 1.9 | 3.1 |
| 2021 | 65.0 | (100.0) | 56.9 | (87.4) | 8.2 | (12.6) | 1.6 | 1.1 | 1.0 | 1.7 | 2.9 |
| 2022 | 64.7 | (100.0) | 56.7 | (87.7) | 8.0 | (12.3) | 1.6 | 0.9 | 0.9 | 1.7 | 2.9 |
| Percent change | -0.5 | | -0.4 | | -2.4 | | | | | | |

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



4. Food Grain Consumption by Household Type

Per capita annual food grain consumption of farm and non-farm households stood at 99.3kg and 63.0kg, respectively.

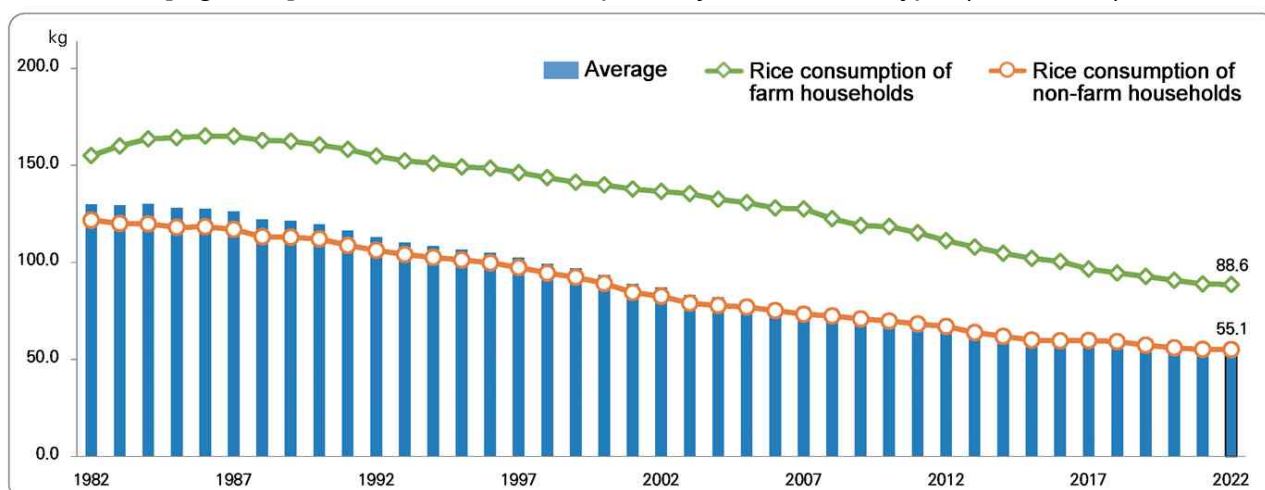
- Per capita annual food grain consumption of farm households decreased by 0.2% to 99.3kg in 2022. Per capita annual food grain consumption of non-farm households decreased by 0.5% to 63.0kg in 2022.
- Per capita annual rice consumption of farm households fell by 0.3% to 88.6kg in 2022. Per capita annual rice consumption of non-farm households dropped by 0.2% to 55.1kg in 2022.
- Per capita annual consumption of other food grains of farm households grew by 0.9% to 10.7kg in 2022. Whereas, per capita annual consumption of other food grains of non-farm households fell by 2.5% to 7.8kg in 2022.

[Table 4] Food Grain Consumption by Household Type

(Unit: kg, %)

| Year | Farm households | | | | | Non-farm households | | | | |
|----------------|-----------------|-------------|---------------|-------------|---------------|---------------------|-------------|---------------|------------|---------------|
| | Total | Rice | (Share) | Others | (Share) | Total | Rice | (Share) | Others | (Share) |
| 2013 | 118.5 | 107.9 | (91.1) | 10.6 | (8.9) | 71.9 | 63.9 | (88.9) | 8.0 | (11.1) |
| 2014 | 121.3 | 104.7 | (86.3) | 16.7 | (13.7) | 70.0 | 61.9 | (88.4) | 8.1 | (11.6) |
| 2015 | 118.5 | 102.1 | (86.2) | 16.4 | (13.8) | 68.3 | 60.0 | (87.8) | 8.3 | (12.2) |
| 2016 | 115.7 | 100.5 | (86.9) | 15.1 | (13.1) | 68.5 | 59.6 | (87.0) | 9.0 | (13.1) |
| 2017 | 109.5 | 96.6 | (88.3) | 12.8 | (11.7) | 68.7 | 59.8 | (87.0) | 8.9 | (13.0) |
| 2018 | 105.5 | 94.6 | (89.6) | 10.9 | (10.4) | 67.5 | 59.2 | (87.7) | 8.3 | (12.3) |
| 2019 | 104.2 | 92.8 | (89.1) | 11.4 | (10.9) | 65.4 | 57.4 | (87.7) | 8.0 | (12.3) |
| 2020 | 102.1 | 90.8 | (88.9) | 11.3 | (11.1) | 64.5 | 56.0 | (86.8) | 8.5 | (13.2) |
| 2021 | 99.5 | 88.9 | (89.4) | 10.6 | (10.6) | 63.3 | 55.2 | (87.3) | 8.0 | (12.7) |
| 2022 | 99.3 | 88.6 | (89.2) | 10.7 | (10.8) | 63.0 | 55.1 | (87.6) | 7.8 | (12.4) |
| Percent change | -0.2 | -0.3 | | 0.9 | | -0.5 | -0.2 | | -2.5 | |

[Figure 4] Annual Rice Consumption by Household Type (1982-2022)



5. Food Grain Consumption by Use

Per capita annual food grain used for main food and side dishes amounted to 63.8kg, which accounted for 98.6% of the total food grain consumption per capita (64.7kg).

- Food grain used for main food and side dishes occupied 98.6% 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 1.4% in 2022.

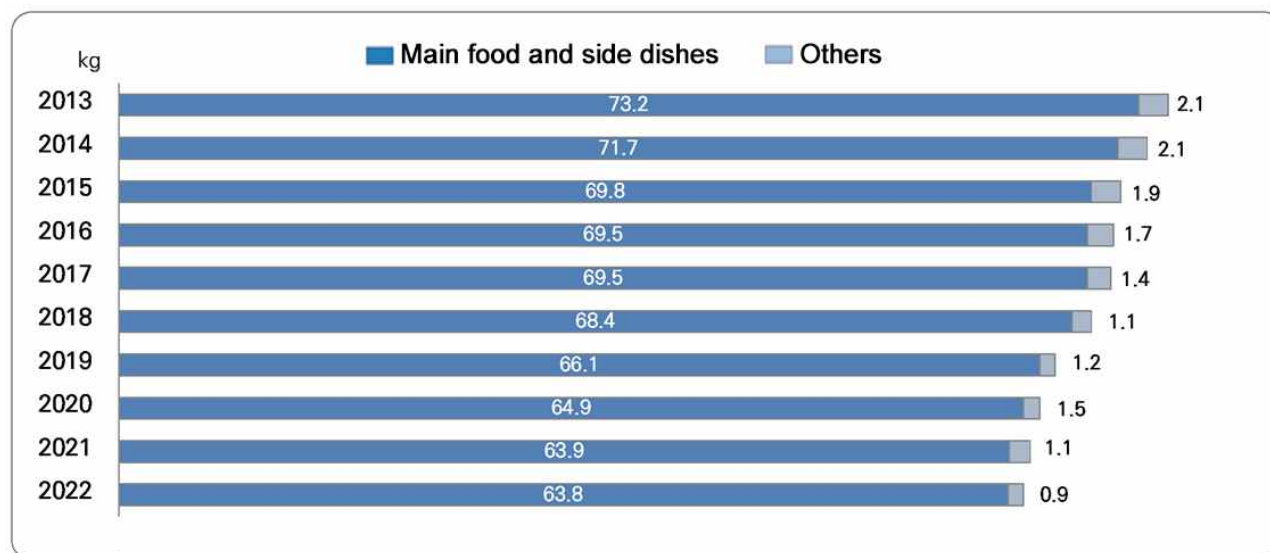
[Table 5] Annual Food Grain Consumption by Use

(Unit: kg, %)

| Year | Total | | Main food and side dishes | | Others** (Share) | |
|-------------|-------------|----------------|---------------------------|---------------|------------------|--------------|
| 1998 | 111.7 | (100.0) | 106.2 | (95.1) | 5.5 | (4.9) |
| 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) |
| 2020 | 66.3 | (100.0) | 64.9 | (97.8) | 1.5 | (2.2) |
| 2021 | 65.0 | (100.0) | 63.9 | (98.3) | 1.1 | (1.7) |
| 2022 | 64.7 | (100.0) | 63.8 | (98.6) | 0.9 | (1.4) |

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

[Figure 5] Annual Food Grain Consumption by Use and Year



Rice Consumption of Establishments

1. Annual Rice Consumption of Establishments

Rice consumption of 'Manufacture of Food Products and Beverages' amounted to 691,422 tons in 2022, rising by 1.7% from 2021.

- Rice consumption in 'Manufacture of Food Products and Beverages' totaled 691,422 tons in 2022, which increased by 11,265 tons from 2021.
- Rice consumption in 'Manufacture of Rice Cakes' occupied the largest share at 26.8% of the total rice consumption. This share was followed by 'Manufacture of Other Prepared Meals and Dishes' (20.9%), 'Manufacture of Ethyl Alcohol and Neutral Spirits' (17.6%) and 'Manufacture of Other Grain Mill Products' (9.3%).

[Table 6] Rice Consumption of Major Industries

(Unit: ton, %)

| Major industries | 2020 | | 2021 | | 2022 | | |
|---|-------------|-------|-------------|-------|----------------|-------|----------------|
| | Consumption | Share | Consumption | Share | Consumption | Share | Percent change |
| Total Rice Consumption of Establishments | 650,130 | 100.0 | 680,157 | 100.0 | 691,422 | 100.0 | 1.7 |
| Manufacture of Food Products (10) | 436,683 | 67.2 | 474,746 | 69.8 | 515,894 | 74.6 | 8.7 |
| Manufacture of Other Grain Mill Products (10619) | 54,903 | 8.4 | 60,920 | 9.0 | 63,967 | 9.3 | 5.0 |
| Manufacture of Starches and Starch Products (10620) | 11,255 | 1.7 | 10,804 | 1.6 | 11,741 | 1.7 | 8.7 |
| Manufacture of Rice Cakes (10711) | 159,179 | 24.5 | 176,690 | 26.0 | 185,079 | 26.8 | 4.7 |
| Manufacture of Sugar Confectioneries and Cocoa Products (10713) | 9,710 | 1.5 | 10,080 | 1.5 | 10,258 | 1.5 | 1.8 |
| Manufacture of Noodles, Macaroni and Similar Farinaceous Products (10730) | 19,599 | 3.0 | 22,144 | 3.3 | 20,307 | 2.9 | -8.3 |
| Manufacture of Soy Sauce and Soy Bean Paste (10743) | 7,712 | 1.2 | 7,944 | 1.2 | 8,819 | 1.3 | 11.0 |
| Manufacture of Box Lunches (10751) | 40,197 | 6.2 | 46,723 | 6.9 | 47,045 | 6.8 | 0.7 |
| Manufacture of Other Prepared Meals and Dishes (10759) | 102,955 | 15.8 | 113,677 | 16.7 | 144,595 | 20.9 | 27.2 |
| Manufacture of Beverages (11) | 213,447 | 32.8 | 205,411 | 30.2 | 175,528 | 25.4 | -14.5 |
| Manufacture of Raw Rice Wines and Refined Rice Wines (11111) | 43,415 | 6.7 | 45,139 | 6.6 | 46,582 | 6.7 | 3.2 |
| Manufacture of Ethyl Alcohol and Neutral Spirits (11121) | 157,647 | 24.2 | 153,446 | 22.6 | 121,775 | 17.6 | -20.6 |

2. Rice Consumption Trends of Establishments

Industries Recording an Increase in Rice Consumption

Rice consumption in 'Manufacture of Other Prepared Meals and Dishes' totaled 144,595 tons in 2022, which grew by 27.2% (30,918 tons) from 2021.

- As for rice consumption, 'Manufacture of Other Prepared Meals and Dishes', 'Manufacture of Soy Sauce and Soy Bean Paste', 'Manufacture of Starches and Starch Products' and 'Manufacture of Other Grain Mill Products' rose by 27.2%, 11.0%, 8.7% and 5.0%, respectively, from 2021.

* Manufacture of Other Prepared Meals and Dishes: Manufacture of retort food products, frozen food products and semi-cooked food products

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

(Unit: ton, %)

| Industries | 2020 | 2021 | 2022 | Increase | Percent change |
|---|---------|---------|----------------|----------|----------------|
| Manufacture of Other Prepared Meals and Dishes (10759) | 102,955 | 113,677 | 144,595 | 30,918 | 27.2 |
| Manufacture of Soy Sauce and Soy Bean Paste (10743) | 7,712 | 7,944 | 8,819 | 875 | 11.0 |
| Manufacture of Starches and Starch Products (10620) | 11,255 | 10,804 | 11,741 | 937 | 8.7 |
| Manufacture of Other Grain Mill Products (10619) | 54,903 | 60,920 | 63,967 | 3,047 | 5.0 |
| Manufacture of Rice Cakes (10711) | 159,179 | 176,690 | 185,079 | 8,389 | 4.7 |
| Manufacture of Raw Rice Wines and Refined Rice Wines (11111) | 43,415 | 45,139 | 46,582 | 1,443 | 3.2 |
| Manufacture of Sugar Confectioneries and Cocoa Products (10713) | 9,710 | 10,080 | 10,258 | 178 | 1.8 |
| Manufacture of Box Lunches (10751) | 40,197 | 46,723 | 47,045 | 322 | 0.7 |

Industries Recording a Decrease in Rice Consumption

Rice consumption in 'Manufacture of Ethyl Alcohol and Neutral Spirits' totaled 121,775 tons in 2022, which fell by 20.6% (31,671 tons) from 2021.

- As for rice consumption, 'Manufacture of Ethyl Alcohol and Neutral Spirits' and 'Manufacture of Noodles, Macaroni and Similar Farinaceous Products' fell by 20.6% and 8.3%, respectively, from 2021.

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

(Unit: ton, %)

| Industries | 2020 | 2021 | 2022 | Decrease | Percent change |
|---|---------|---------|----------------|----------|----------------|
| Manufacture of Ethyl Alcohol and Neutral Spirits (11121) | 157,647 | 153,446 | 121,775 | 31,671 | -20.6 |
| Manufacture of Noodles, Macaroni and Similar Farinaceous Products (10730) | 19,599 | 22,144 | 20,307 | 1,837 | -8.3 |