

2 | Current conditions of water utility

1. Amount of water supply

The current capacity of water supply has become 769,000m³ per day, which is 88 times larger than that at the time of establishment of the water utility (former Moji City: 8,700m³) and the annual total supplied water amounted to 112.01 million m³ in FY2018.

(1) Maximum supply amount per day

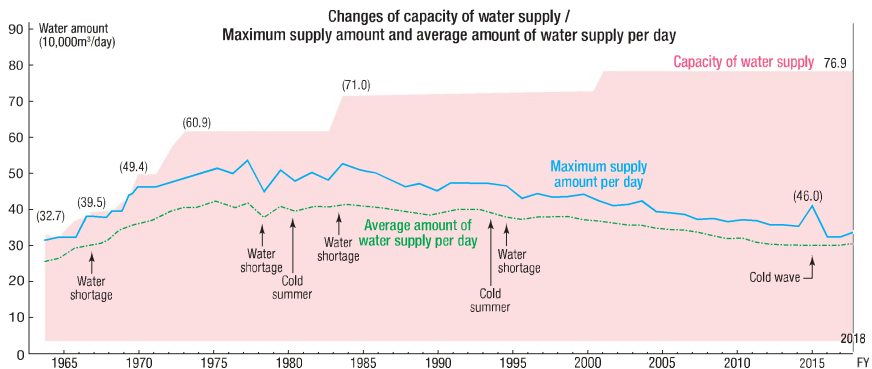
The amount of water supply, which had been steadily increasing year by year after World War II, had remained a slight increase since 1970s, and recorded a record-high quantity (524,000 m³ per day) in 1977. Thereafter, the amount of water

supply had shown an irregular movement due to water shortage, cold summer, etc. In FY2015, the record was 460,351m³ per day (January 25, 2016) due to a number of water leakage problems caused by breakage of water supply pipes etc. under a record-breaking cold wave strongest in the last 40 years.

The maximum supply amount in FY2018 was 339,233m³ per day.

(2) Average amount of water supply per day

The average amount of water supply had been steadily increasing up to FY 1975, and in FY2018, the record was 306,882m³ per day.



2. Served water supply

(1) Number of customers

The number of customers was 502,849 households (483,649 households in Kitakyushu City only) as of the end of FY2018.

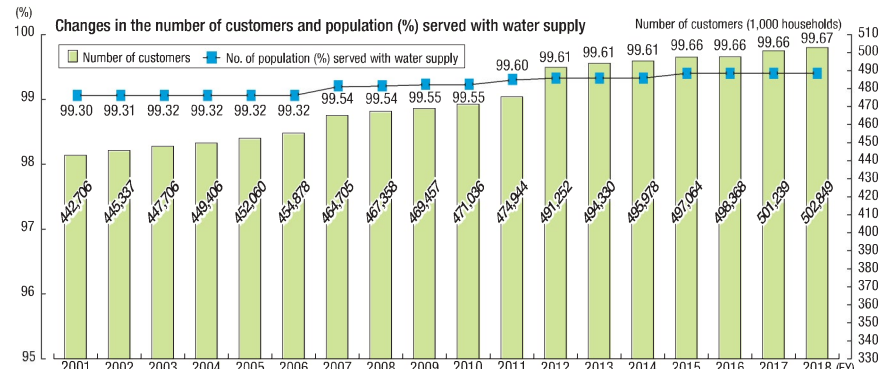
(2) Population served by water supply

The population served by water supply was 99.67% as of the end of FY2018, surpassing 99% in every ward and town, which is almost a full diffusion.

Water supply rate in FY2018

Ward	Area (km ²)	No. of population in the administrative district (people)	Number of households (house)	Population in the coverage area of water supply (people)	Actual water supply		No. of population served by water supply (%)
					Number of houses (house)	Population (people)	
Moji	73.67	98,335	49,872	98,310	49,950	97,671	99.35
Kokurakita	39.23	180,501	100,441	180,469	108,342	180,268	99.89
Kokuraminami	171.74	210,710	100,572	210,367	99,134	208,913	99.31
Wakamatsu	71.31	82,859	40,018	82,711	38,434	82,418	99.65
Yahatahigashi	36.26	66,350	34,762	66,139	33,297	66,001	99.79
Yahatanishi	83.13	253,671	122,949	253,618	123,611	253,071	99.78
Tobata	16.61	57,756	29,935	57,756	30,881	57,756	100.00
Ashiya Town	11.60	13,838	6,476	13,495	6,288	13,468	99.80
Mizumaki Town	11.01	28,381	13,336	28,381	12,912	28,381	100.00
Total	514.56	992,401	498,361	991,246	502,849	987,947	99.67

* The areas in the table above are as of October 1, 2018. And, the populations and number of houses within the administrative districts are those recorded in the Basic Resident Registers as of March 31, 2019.



3. Water demand classified by meter diameter

When looking at the current conditions in terms of usage and meter diameters, the number of customers in FY2018 has increased in all diameters classified by meter diameter: 13 to 25mm, 40 to 75mm, and 100mm or above.

Annual water consumption in FY 2018 showed a decrease of 61,358m³ for the water diameter of 13 to 25mm, an increase of 4,883m³ for the water diameter of 40 to 75, an increase of 7,940m³ for the water diameter of 100mm or above, and a decrease of 13,147m³ for special water supply.

Number of customers and average monthly water consumption (revenue water) classified by meter diameter

Class, usage, diameter	Division	2016		2017		2018	
		Number of customers (meters)	Average monthly consumption (m ³)	Number of customers (meters)	Average monthly consumption (m ³)	Number of customers (meters)	Average monthly consumption (m ³)
13~25mm		494,125	6,976,727	496,960	6,942,451	498,542	6,881,093
40~75mm		3,988	1,030,316	4,019	1,022,439	4,038	1,017,556
100mm or more		158	302,185	158	316,021	160	308,081
Special water supply		97	48,816	102	49,382	109	36,235
Total		498,368	8,358,043	501,239	8,330,293	502,849	8,242,965

* "Special water supply" indicates those for shared use, public bath, extraordinary use and shipping.

