

## (6) Water distribution facilities

### a. Distribution reservoirs

Name	Details (m <sup>2</sup> ) x (reservoir)		Location
Ideura Water Distribution Reservoir *	21,250×1	10,550×2	Oaza Ideura, Kukuraminami-ku
Shindoji Distribution Reservoir	1,400×1		Oaza Ideura, Kukuraminami-ku
Horigoshi Distribution Reservoir	1,500×2		Oaza Horikoshi, Kukuraminami-ku
Numa Distribution Reservoir	5,390×2		Oaza Numa, Kukuraminami-ku
Takakura Distribution Reservoir	600×2		Oaza Numa, Kukuraminami-ku
Hiraodai Distribution Reservoir	150×2		Oaza Shindoji Kukuraminami-ku
Komorie Distribution Reservoir	4,500×2	4,580×1	Hayama 2-chome, Moji-ku
Kazashi Distribution Reservoir	3,500×1		Oaza Komorie, Moji-ku to Oaza Kurokawa
Kurokawa Distribution Reservoir	560×1		Oaza Kurokawa, Moji-ku
Maruyama Distribution Reservoir	1,800×2		Maruyama 4-chome, Moji-ku
Adachi Distribution Reservoir	6,660×2		Yugawa 2-chome, Kukuraminami-ku
Kogumano No.1 Distribution Reservoir	6,300×2		Izumidai 2-chome, Kukurakita-ku
Kogumano No.2 Distribution Reservoir	150×2		Izumidai 2-chome, Kukurakita-ku
Sasao Distribution Reservoir	5,250×2		Oaza Dairi, Moji-ku
Tomino Distribution Reservoir	700×2		Oaza Tomino, Kukurakita-ku
Dobaru Distribution Reservoir *	520×1	1,000×2	Oaza Dobaru, Kukuraminami-ku
Sarayama Distribution Reservoir	3,870×2	2,550×2	Sarayama-machi, Kukurakita-ku
Takami Distribution Reservoir	5,300×2	3,850×2	Hachioji-machi, Yahatahigashi-ku
Einomaru Distribution Reservoir	2,530×2		Oaza Einomaru, Yahatanishi-ku
Bessho Distribution Reservoir	5,100×2		Bessho-machi, Yahatanishi-ku
Yamanomisaki Distribution Reservoir	2,695×2	3,810×1	Sainokami 2-chome, Yahatanishi-ku
Kyoragi Distribution Reservoir	120×2	1,000×1 1,240×2	Kyoragi-machi, Yahatanishi-ku
Hanao Distribution Reservoir	550×2		Oaza Narumizu, Yahatanishi-ku
Yamanokami No.1 Distribution Reservoir	4,090×3	4,160×1	Otani 2-chome, Yahatahigashi-ku
Yamanokami No.2 Distribution Reservoir	1,840×2	3,440×1	Otani 2-chome, Yahatahigashi-ku
Ogura Distribution Reservoir	1,000×2		Oaza Ogura, Yahatahigashi-ku
Hobashira Distribution Reservoir	45×2		Oaza Ogura, Yahatahigashi-ku
Okura Distribution Reservoir	1,200×1	1,650×2	Okura 3-chome, Yahatahigashi-ku
Otani Distribution Reservoir	2,800×2	2,600×2	Shiinoki-machi, Tobata-ku
Shinoki Distribution Reservoir	600×2	1,110×1	Shiinoki-machi, Tobata-ku
Nakao Distribution Reservoir	360×2		Oaza Okura, Yahatahigashi-ku
Komine Distribution Reservoir	3,900×2	2,430×2	Komine 3-chome, Yahatahigashi-ku
Hata No.1 Distribution Reservoir *	615×2	1,655×2	Shimohata-machi, Yahatanishi-ku
Hata No.2 Distribution Reservoir	3,150×2		Shimohata-machi, Yahatanishi-ku
Hoshigaoka Distribution Reservoir	242×1	270×1	Hoshigaoka 2-chome, Yahatanishi-ku
Futajima Distribution Reservoir	2,430×1	4,140×1	Oaza Futajima, Wakamatsu-ku
Fujinoki Distribution Reservoir	1,810×3		Imamitsu 2-chome, Wakamatsu-ku
Ishimine Distribution Reservoir	500×2		Oaza Fujinoki, Wakamatsu-ku
Takato Distribution Reservoir	2,430×2		Shiin otani-machi, Wakamatsu-ku
Sutara Distribution Reservoir	770×1	1,010×1	Oaza Sutara, Wakamatsu-ku
Hinomine Distribution Reservoir	6,190×2		Oaza Asakawa, Yahatanishi-ku
Hibikino Distribution Reservoir	1,850×2		Hibikino, Wakamatsu-ku
Ainoshima Distribution Reservoir	94.5×2		Oaza Ainoshima, Kukurakita-ku
Egawadai Distribution Reservoir	2,800×1		Egawadai, Ashiya-machi
Awaya Distribution Reservoir	1,300×1	500×1	Oaza Ashiya, Ashiya-machi
Koga Distribution Reservoir	2,000×2		Muta, Mizumaki-machi

\* Equipped beside water purification plant. (As of September, 2019)

### b. Distribution pipe

Diameter (mm)	50	75	100	125	150	200	250	300	350	
Length (m)	165,173	166,543	2,044,530	5,187	858,162	316,057	103,051	182,424	78,214	
	400	450	500	600	700	800	900	1,000	1,100	Total
	80,003	51,232	65,073	31,760	12,273	5,228	5,809	905	189	4,171,813

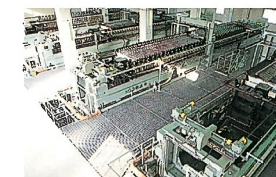
\* Those of 50mm or less diameter are excluded.

## (7) Emergency facilities against Water Shortage

Name	Type	Classification	Location	Water source
Matsugae Dam	Pump	Water conveyance facility	Oaza Hata, Moji-ku	Matsugae Dam



Hiraodai Distribution Reservoir



Filter press dehydrator

## (8) Waste water treatment facilities

### a. Mechanical dehydration facilities

Location	Treatment method	Treatment capacity (t-ds/D)	Number of presses	Start of operation
Isaza	Filter press	6.9	3	March 1997
Honjo	Filter press	4.5	2	April 2010
Ano	Filter press	9.28	4	August 1991

### b. Solar evaporation facilities

Location	Area (m <sup>2</sup> )	Treatment capacity (t-ds/D)	Days for evaporation	Number of reservoir	Start of operation
Ideura	12,000	2.38	165	12	August 1991
Hata	1,688	0.27	120	4	April 1974
Isaza	3,130	2.61	120	5	April 1976
Tonda	4,080	0.69	120	12	April 1974
Honjo	2,160	0.57	120	6	October 1983
Inokuma	2,796	0.50	120	6	October 1983



Drying bed

## 3 | Water quality

Although some improvement is observed, the water quality of Onaga River, one of the main water resources of the city, is still suffering a large pollution load caused by much organic substances due to the inflow of living wastewater from the river basin. The water blocked by the estuary weir retains and boosts biological activity to lead to the growth of blue green algae; as a result, high-concentrated mold odor substances are sometimes detected. Meanwhile, at the water reservoirs for the east area, in recent years, it is becoming a major problem that mold odor substances increase in summer due to the overgrowth of blue green algae.

As to the mold odor substances, etc. to be the cause of disinfection byproduct and offensive smell and taste arising especially from organic substance in the water source, the city established a target value as a critical item for water quality management among the regulatory standards for water quality. In addition, the water quality standard is revised at any time according to social and scientific circumstances but the



Analytical instrument for heavy metal measuring (ICP-MS)