Naramata dam

Purpose of dam ●Flood control

During the floods period (1st July to 30th September), the dam diminishes the high water discharge in the lower course area, by controlling the flow at about 360m3/s, out of the high water discharge of 370m³/s during floods, at the dam site, in coordination with the other dams in the uppercourse of the Tone River.

Maintenance of normal functions of the river

Naramata dam maintains and improves the normal functions of the river, such as the vested water supply in the Tone River, in coordination with the other dams in the upper course of the

Water supply

Water for irrigation

The dam supplies water for irrigation to the farmland in the Toso canal, and the amount of water is 0.69m³/s in average during the summer irrigation period (26th April to 30th September), and is 0.08m³/s in average during the winter irrigation period (1st October to 25th April).

Water for town use

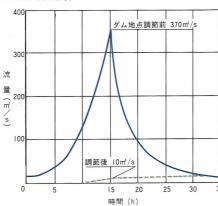
Ensure 8.695m³/s of water (maximum) for town-use water, for Tokyo metropolis and neighbor prefectures.

Power generation

Dam structure

Naramata power station, in Gunnma Prefecture, generates up to 12,400kw of electricity, with a maximum water flow of 11m³/s.

Flood control



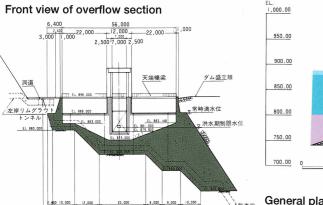
Water supply for metropolis and prefectures

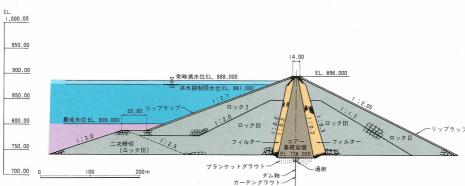
			-
用水名 都県名	農業用水	水道用水	工業用水
群馬		2.435	0.65
茨 城		0.179	
埼玉		0.951	
千 葉	0.69	2.41	
東京		2.07	
合 計	0.69	8.045	0.65

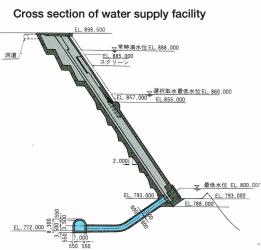
Stoage capacity distribution of reservoir

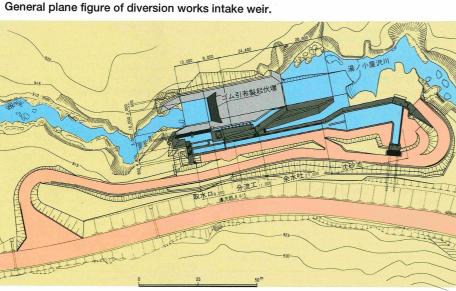


Typical cross section of dam









• Creating the environment in the dam surroundings

The environmental service in Naramata dam surroundings offers spaces to rest, relax, and for the leisure of the citizens, who have better living conditions and more free time. Also, it's expected increase the activity of the water resources

In the dam and the surroundings, there are squares, promenades, and a reference room which looks like a mushroom. These are tourist attractions in Okutone.

©Right bank square

The square is arranged in the right bank of the dam top.

The three circles in the dam front represents the

.... unice circles in the dam front represents the universe and the relationship between human, water and nature, and the cloud is a geometric circle.



ODam top sidewalk

In the both sides of the 520m-long sidewalk on the dam top, there are balustrades made from massive rock.

massive rock.
From the sidewalk, in the midst of the road, the lakes and the downstream landscape can be seen, as well as the stone benches drawing an up and down scenic landscape.



\bigcirc Promenade

The stone promenade has about 700 steps, and it can be climbed from the right bank, in the top of the dam, to the downstream left bank square. The dam can be seen closely. Two rest places are arranged in the halfway.



ODownstream left bank square

When coming through the square entrance, the dam appears huge and imposingly. The tile painting in the square pavement represents the scene of going up, from the Pacific ocean, to the Tone River dams.



©Left bank square

Left bank square, located at the side of "spill-way", is the main saucer in Naramata dam. There are a reference room which is the central spot in the square, a parking area for visitors, a service center (stands, snacks), and a public lava-

Dam site general plane figure



ONaramata dam reference room

There is the reference room which looks like a mushroom. It's established to deepen the visitor's understanding of the roles and importance tor's understanding of the roles and importance of dams and of the water and water resources developments. In the reference room, the nature of Okutone, the construction of Naramata dam and its roles, and the water resources developments, are explained in detail to the visitors, by means of images, panels and models.



OMonument of construction square

The monument commemorating the completion of the Naramata dam construction work is in the center of the square. Above the monument, a bronze statue of a worker who is constructing "bedding materials" to tell the life of the rockfill dam.



利根川の水源を訪ね、奥利根を探訪。

Trace the Tone River to its source and visit Okutone



Numata is one of the main towns in the north Gunnma Prefecture. It is well known as the gateway to the sightseeing o Oze and Nikko.

Numata was a under castle town and prospered as the residence of the Houjou family, the Sanada family, and the Toki family, in which the history of the old days are still alive. Places of scenic beauty and historic interest can be visited, such as the hitoric famous grave related to the Sanada family.

ORuins of Numata castle · Numata park

The beautiful park which have a flower bed and a belfry symbol.

©Kashouzan Mirokuji temple

Temple, on northern Numata city, stands on the south mountain side of the Mt. Kashouzan (1,322m high), where old cryptomeas are growing thick. The Mt. Kashouzan is famous as one of the three great mountains in the Kanto region, together with the Mt. Takao and Mt. Furumine.

©Tan-bara plateau

There is a plateau which expands in the east foot of the Mt. Hotaka in the north of Numata city suburb. Here, visitors can enjoy hiking, camping, skiing, and playing tennis, and more-

②Going up the Katashina River which is a branch

Romantic road

The world-wide famous Romantic road (die Romantische Strasse) is an old main road which goes to "Füssen in Alps", from Wuerzburg, in Germany. The Japanese Romantic road is a road 230Km long, which goes to Nikko through Karuizawa, Kusatsu, Numata, the Tone village, and Katashina from Komoro inNagano Pref.. Both are charming in history and literature. The natural scene along this road is not inferior to that of the original one.

(3)Going up the Tone River to Minakami from Numata

©Suwakyou-gorge It is located at the outskirts of Minakami hot spring town. Promenades of 3.5Km are continuing along the Tone River. Visitors can enjoy the clear beauty from Sasafue Bridge, the harmony of mountain streams and the Tanigawa mountain range

©Minakami hot spring

It is the center of a hot spring villages. And it's scattered along the Tone River valley in the background at Mother Nature of the Tanigawa-dake mountain.

©Tanigawa hot spring

The quiet hot spring located in the southern foot of the Tanigawa-dake mountain.

©Unose hot spring Located near the confluence of the Tone River and the Yunohiso River. The former name of the Unose hot spring was Ouana hot spring.

OYubiso hot spring

It is located along the Yubiso River, which is the tributary of the Tone River. It's said that the name Yubiso was based on the calling name of the discoverer, Oze Sadaji, who was a soldier defeated in battle in the Kamakura era, as "Yu-no-hisomumura", which means "The village where the hot spring hides ".

In rappore with literature in nature

©Literary monument of Dazai Osamu

It stands in the road that goes along the entrance of the Tanigawa hot spring.

OSong monument of Wakayama Bokusui Stands at the foot of the Minakami bridge.

OLiterary monument of Yosano Akiko Stands at the foot of the Sasafue bridge, in the Suwa valley. Also, there are scattered monuments for Kitahara Hakushu. Hayashi Fusao, Yoshii Isamu, and Saijou Yaso.

(4) From Yubiso, going up the Yubiso River which is the of the Tone River.

©Tanigawa-dake mountain

The Tanigawa-dake mountain is the main peak of the Mikuni range of mountains.

The height above sea level is 1963m. The mountain has deep

swamps and rock walls, such as the Ichinokura-sawa, which ha fascinated the many climbers.

As the visitors climb the Tenjin-daira by a rope way, the spreading plateau where alpine plants are blooming can be seen, and the charm of the mountains can be enjoyed in all aspects.

◎Ichinokura-sawa It lies between the Ichinokura ridge and the South ridge, and the climb route from the Ichinokura-sawa is counted in Japanese, as one of three great craggy places, together with the Hodaka-dake mountain and the Tsurugi-dake mountain, in the

⑤Going up the Tone River from Yubiso to Fujiwara dam

©Fujiwara dam · Fujiwara lake

Fujiwara dain Tujiwara dan Completed in 1958, and the lake area is about 1.7km², growing in north and south directions. It is located in the lowermost course of the four Okutone

©Fujiwara village (The Heike family's refugee)
The descendant of the Oushu-Fujiwara family's, Hidehira '
Yasuhira, who was defeated by the Yoritomo's Oushu attack, found refuge in this village. It is the origin of the name Fujiwara, that the descendent reveal the identify at the family

There are promenades in the back sides of the waterfalls, and the view from the back side has a different effect.

©Takarakawa hot spring

There is a legend that Yamato-takeru, one of the Japanese gods, went to this spring as a white colored hawk and healed his disease there. The most wonderful open-air bathes in Japan are

(6)Going up from Fujiwara lake to Sudagai dam

OSudagai dam · "Dougen lake"

Ti is a "gravity type dam", with the first complete underground power station in Japan. The lake is about 1.3km², with a forked form. The lake of left side leads to the Tone River, where there is the Yagisawa dam, and the lake of right side leads to the

7)Going up from Dougen lake to Naramata dam

◎Naramata dam·Naramata lake

It is newest dam of the four dams in Okutone, and it is a rockfill type, with a beautiful landscape. Going up the lake, which is about 2.0km² extent, leads to the Oze ridges, where there is a

(8) Going up the Yunokoyasawa River, which is a tributary just below the Naramata dam.

OYunokoya hot spring
Located in the inner part of the Minakami hot spring village,
many afficionates come to practice climbing, and there is abundant hot spring water, which is praiseworthy by the people.

Teruha gorge

Terinia gorge
It is a valley with almost unexplored waterfalls. It was named by
Mizuhara Shuu-oushi and there are twelve large and small falls, such as the Tsuzumino-taki fall and Higurashino-taki, and the scenery is particularly beautiful on Autumn, during the season

(9)Crossing the the Konroku ridge leads to

the Hatomachi ridge which is the entrance of the Oze.

©Oze

The Oze is a rich repository of Mother Nature and has different landscapes, with mountains, lakes and marshes, marshy areas , swamps, and forests. There are many plants and animals difficult to be seen elsewhere, such as alpine plants and marsh plants.

10Going up to Yagisawa dam from Dougen lake

◎Yagisawa dam · Okutone lake

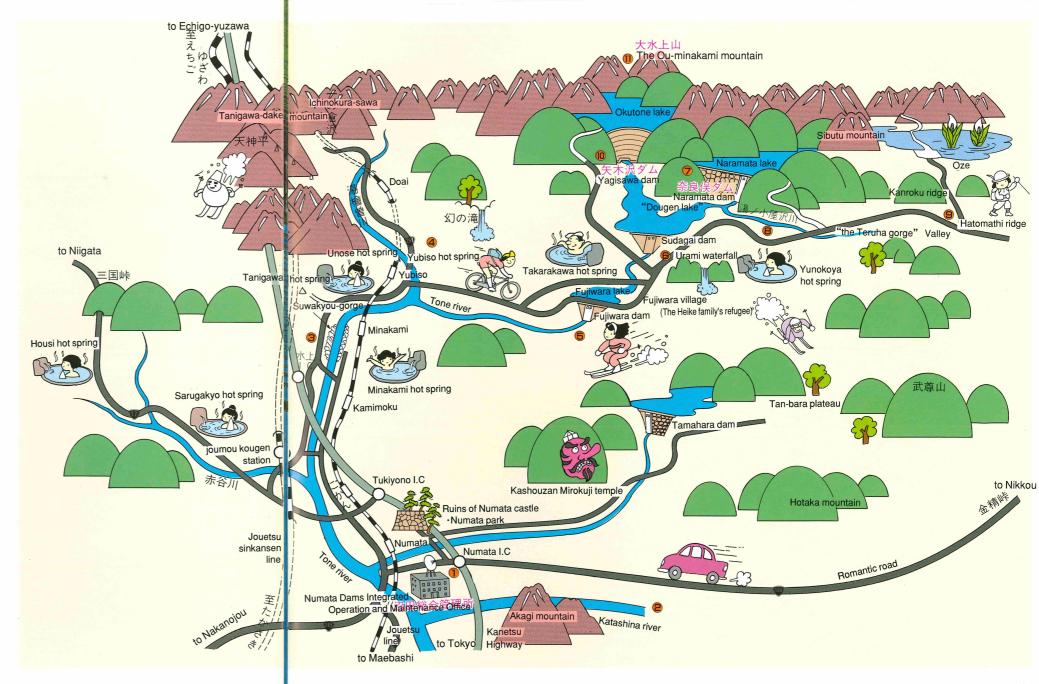
w 1 agnosawa (14111 ** OKUTORE 14RE**)
The arch type dam located at the entrance into the Tone River source. The Okutone lake is the biggest lake of the four lake in Okutone, the extent being about 5.1km². The lake is surrounded by a virgin forest, having an atmosphere of an unexplored region. plored region

①Leaving to the Tone River source from Okutone lake

The Ou-minakami mountain, which is

the water resource of the Tone River Going up 322km from the Tone River mouth, in Choshi city, the Ou-minakami mountain is reached, and it is just the origin of the Tone River. The Ou-minakami mountain is located in the Jou-etsu border region, and the steepness of the mountain range delayed the discovery of the origin of the river, until 1925.

The water from this mountain has been blessing the people in the overall Kanto region.



交通のご案内 Transportation

Numata Dams Integrated Operation and Maintenance Office

■Ueno station→Jouetsu line (approx. 2 hours and 5 min.)
→Numata station Car (4km/10min. approx.)→Numata Dams Integrated Operation and Maintenance Office

■Tokyo station→Jouetsu shinkansen line (approx. 1 hour and 20min.) → Joumou kougen station → Car (14km/30min. approx.)→Numata Dams Integrated Operation and Maintenance Office

■Kanetsu-nerima I.C.→KanetsuHighway(126km/1hour and 30min. approx.)→Numata I.C. (front of the exit ramp)→Numata Dams Integrated Operation and Maintenance Office

Yagisawa dam

■Ueno station→Jouetsu line (2hours and 20min. approx.)→Minakami station Car (27km/40min. approx.)→Yagisawa dam

■Tokyo station →Jouetsu shinkansen line (1hour and 20min. approx.)→ Joumou-kougen station→ Car (37km/60min. approx.)→Yagisawa dam

■Kanetsu-nerima I.C.KanetsuHighway(141km/1hour and 40min approx.)→ Minakami I.C.→ Car (32km/45min. approx.)→Yagisawa dam

Naramata dam

Train

■Ueno station→Jouetsu line (2hours and 20min. approx.)→Minakami station Car (24km/40min. approx.)→Naramata dam

■Tokyo station →Jouetsu shinkansen line (1hour and 20min. approx.) → Journou-kougen station → Car (34km/60min. approx.)→Naramata dam

■kanetsu-nerima I.C. →KanetsuHighway (141km/1hour and 40min. approx.) → Minakami I.C. → Car (20km/45min. approx.)→Naramata dam

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