

Kawaji Dam





🚹 : Beautiful arch shape

The dam body is narrower on the upper side (crest), forming a beautiful curve



: Black and white dam body

The white areas of the dam body are protected from the rain by an overhanging structure. In contrast, the black areas are exposed to the rain.



(G): Catwalks

The catwalks (inspection galleries) are installed at the heights of 30m, 60m and 90m. You can enter the catwalk at the height of 60m during the tour.





🚹 : Bedrock

Concrete arch dams are constructed on solid bedrock. Thus, there is bedrock beneath the Kawaji Dam.

Kawaii Dam Management Branch Office

Kinugawa Integrated Dam Control Office Kanto Regional Development Bureau Ministry of Land, Infrastructure, Transport and Tourism



Address:

Kawaji 319-6 Kawaji Onsen, Nikko City, Tochigi 321-2611

Tel. 0288-78-0702

About Kawaji Dam

General Information

- Construction started in 1968 and ended in 1983.
- It controls flood water, supplies water for irrigation, domestic and industrial purposes.



Type: Concrete arch dam Geology: Diorite and tuff breccia

Height: 140m Length: 320m

Volume of dam body: 700,000 m³

Elevation of the dam top:

EL.619m

Specifications of reservoir

Catchment area: 323.6 km² (144.2 km² when catchment area of Kawamata Dam is excluded) Water surface area: 2.2 km²

Normal water level : EL. 616m Minimum operating level :

EL.544m

Total storage capacity: 83 mil. m

Effective storage capacity: 76mil.m³
Flood control capacity: 36mil.m³
Design flood discharge: 1,800m³/s
Maximum discharge: 400m³/s
Control volume: 1,400m³/s
Effective water level: 72 m

EL.(elevation) is based on Tokyo Peil, the Japanese measuring system of elevation. In Tokyo Peil, mean sea level in Tokyo Bay is equal to 0 (zero) m.



Let's visit other types of dams in the area





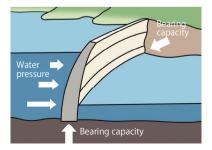


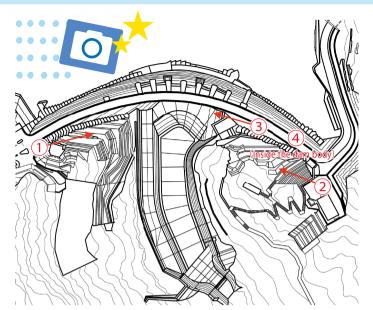




Kawaji Dam is a concrete arch dam.

- Concrete arch dams require less construction material than concrete gravity dams.
- •Please visit other dams in the nearby area including Kawamata Dam (concrete arch dam), Ikari Dam and Yunishigawa Dam (concrete gravity dam).







①View from the right bank



③Catwalk (inspection gallery) accessible during tour



②View from the left bank



(4) Inspection gallery accessible during tour

Emergency spillway



6 roller gates (Discharge capacity) 4,400 m³/s

Regular spillway



2 high-pressure roller gates (Discharge capacity) 500 m³/s

Low-water outlet facility



2 jet flow gates (primary and secondary) [Discharge capacity] Primary: 30 m²/s Secondary: 5 m²/s

