4 Radial gated

What is "Radial gated"?

⇒ Reduce muddy water from floods early

Dams become cloudy from heavy rains and floods.
However, if there is a radial gate, muddy water can be discharged from the dam lake to protect fish and other creatures living in the dam.

Tsugaru Dam can reduce muddy water more quickly because of its large conduit gate.

5 Investigation result

Two common points

1. Both have water storage capacity.

2. Preventing flood damage.
   → Flood damage reduction.

— Summary —

As a result of the survey, both Shirakami Mountains and Tsugaru Dam must continue to work.

To protect Shirakami Sanchi, a net is wrapped around the trunk like an apple tree so that animals cannot eat it.

We must take measures such as hunting to prevent the increase of Japan's deer.

Role and commonality of Shirakami Sanchi and Tsugaru Dam

Hirosaki Minami High school

11-01

[redacted]

1 Motivation · Purpose

- We didn't know anything about Shirakami Sanchi and Tsugaru Dam.
- We wanted to know something about their roles and abilities.

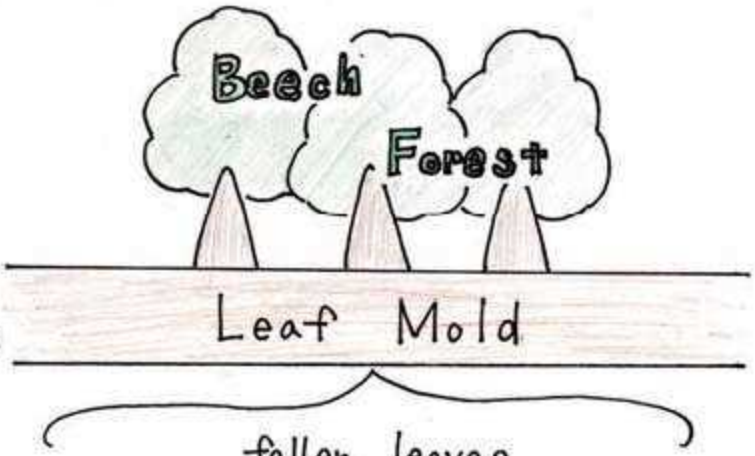
Shirakami Sanchi

- From south west Aomori Prefecture across the north western part of Akita Prefecture Mountains.
- The world's largest scale Beech forest registered as the first world Natural Heritage site in Japan.

Tsugaru Dam

- Iwaki river in Aomori Prefecture upstream in Nishimeya village.
- 2017 operation.
- Dam lake name is "Tsugaru shirakamiko".
- Basin area is 172.0 square kilometers.
- Dam height is 97.2 meters.

2 Shirakami Sanchi



fallen leaves
⇓
insect, micro organism
⇓
decomposition
⇓
Natural Dam
⇒ Preventing flood damage

Progress of global waming
Japanese deer eat forest tree ⇒ Deforestation

—What is Japan's deer?—

- Live in forests and eat most plants.
- The antelope belongs to the bovine family, and Japan's deer belongs to the deer family.
- The antelope is said not to harm the forest.

3 Tsugaru Dam

Role

◦ Flood measure

2940 square meters per second, can adjust water flow 2.94 million liters.

× 1.47 million

◦ Generate Electricity

· 8500 kW Power generation is possible.

◦ The water power supply

Iwaki river right bank supplies about 9600 hectares for farmland.

Goshogawara city's new 10,000 cubic meters supply of industrial water.

Hirosaki city's new 14,000 cubic meters supply of tap water.