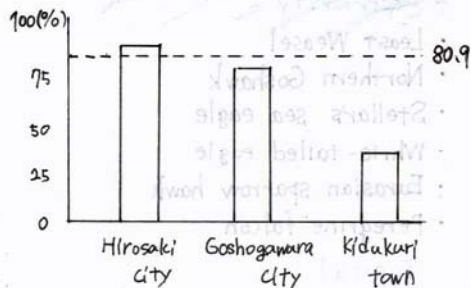


About Sewer System

The water quality of Iwaki river is improving because of

- ① The city's sewer maintenance
- ② Life drainage measures..



↑
"The people clean the dirty water of the city river basin."



Future Tasks

① About the environment around the river

We should make up an environment which all the local people can feel safe in.

② About water quality investigation

We get the latest water quality data.

~ Reference material: ~

□ Current condition and issues of Iwaki river

~ Matters concerning the natural environment □

Iwaki and Tsuchibuchi

River!!

Hirosaki Minami High School



11HR group 04 theme character

Mr. Kumagera

Motivation

We want to understand the water quality of Iwaki river and the ecosystem around it.



Purpose

- We research the water quality of Iwaki river and Tsuchibuchi river.
- We research ecosystems around Iwaki river.



Hypothesis

The water quality of Iwaki river is better than Tsuchibuchi river, because the city's sewer is improving.



Water quality of Iwaki river and Tsuchibuchi river

o Yearly changes of BOD o

Rivers name Year	(RANK A) Iwaki river	(RANK B) Tsuchibuchi river
2009	0.8	1.51
2010	1.1	2.18
2011	0.9	1.10
2012	1.0	1.54
2013	0.6	1.87

RANK A ... Environmental standard value less than 2.0mg/L

RANK B ... Environmental standard value less than 3.0mg/L

What is BOD?

It's "Biochemical oxygen demand". The amount of oxygen used by microorganisms to eat organic matter. It is used as a standard for investigating dirty rivers.

Ecosystem of Iwaki River

Specific species

- Three-spined stickleback
- Nine-spined stickleback
- Dytiscidae
- Whooper swan
- Stellar's sea eagle
- Ural owl
- Heartleaf false pickerel weed

Superiority

- Least Weasel
- Northern Goshawk
- Stellar's sea eagle
- White-tailed eagle
- Eurasian sparrow hawk
- Peregrine falcon

Typical

- Sweetfish
- Sculpin
- Ice goby
- Dytiscidae
- Chinese pond turtle
- Long-billed plover
- Quail
- Artemisia stelleriana hoay mugwort
- Euphorbia adenochoira
- Beach rose