

# 2809 Saga Prefectural Saga Agricultural High School

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**Topic 2** 



ator into the channel

High tide

Challenging for global issues conducted by agricultural high school.

# The Current Situation and Problems of Production Base in the Mekong Delta

### Purpose

Making the production base in the Mekong Delta a more sustainable one **1** The current situation of water pollution in the Mekong Delta

Used water level indicator.

water gate (fresh water).

Interviewed the local farmers.

2 The present irrigation system in the Mekong Delta

Checked the water in the irrigation channel near the

#### Methods

#### Topic 1

- Used simplified water analysis products.
  - \* Sold by the Kyoritsu Chemical-Check Lab.
- Collected water at four different places: the floating market, the conservation forests, the seedling research center, and the water gate(fresh water).

NTTA

Simplified water analysis products

Measured the water at five different inspection values.

### Results

▼ Table1 The results of the research about water quality in the Mekong Delta					
	COD	PO4 <sup>3-</sup> -P	NH4 <sup>+</sup> -N	NO <sub>2</sub> <sup>-</sup> -N	NO <sub>3</sub> <sup>-</sup> -N
Standard values of the rivers (Japan)	0~5	0~0.05	0~0.5	0~0.02	1~2
Standard values of the rivers (Vietnam)	10~50	0.04~0.20	0.1~1.0	0.005~0.01	2~15
At floating market	10	0.40	0.8	0.002	0.4
At conservation forests	26	0.20	1.0	0.040	0.4
At seedling research center	10	0.10	0.4	0.005	0.6
At water gates (fresh water)	21	0.14	1.0	0.050	0.6

- O The data of 13 samples are much higher than the standard value in Japan.
- O The standard value of the water quality in Vietnam is lower than that in Japan.

 $\rightarrow$  Determine the pollution source

## Examination Be sustainable

#### Topic 1 Improving the water quality

Topic 2

Water level

2.5 2 1.5

Improving water shortage

- $\rightarrow$  Replicating the small reservoir in Shiroishi
  - = control water supplies effectively

### Conclusion

#### **Approaches**

- ① Determine the pollution source
- **(2)** Collecting the data about water income and outcome of agriculture

Making the production base in the Mekong Delta a more sustainable one

2350 0:50 1:50 2:550 6:50 6:50 8:50 9:50 10:50 11:50 1

▲ Figure1 Temporal changes of water level

High tide

O Though the irrigation system in the Mekong Delta is simple, it can store enough fresh water for farming.
O To do double or triple cropping and shrimp cultivation ⇒ Fresh water shortage happens.