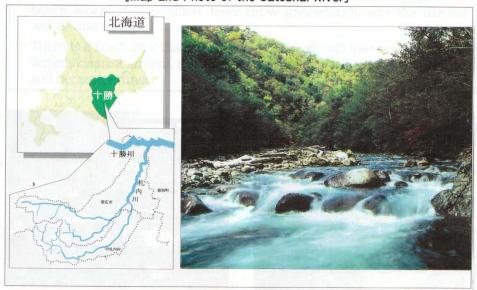
# Question 1 The following are some background information and questions concerning the Satsunai River in Hokkaido.

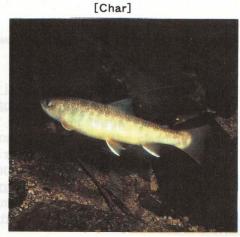
# [About the Satsunai River]

The Satsunai River runs through the Tokachi area in eastern Hokkaido. Surveys conducted by the Construction Ministry rated the river as Japan's clearest stream for three consecutive years, guaranteeing its high water quality. In addition, in the basin of the river inhabits rare wildlife including Ezo Squirrel, Asiatic Pika, Ezo Salamander, Char and Kesho Willow.

[Map and Photo of the Satsunai River]







However, if the river is left as it is now without any protective measures, the following problems are expected to arise.

- Around the Satsunai River spreads one of Japan's major crop-growing and dairy farming areas. In addition there lies Obihiro City, center of the Tokachi Plain. Thus there is a fear of the water pollution and water quality deterioration caused by domestic and industrial sewage.
- It is expected that the completion of the dam and improvement of the roads will invite an increasing number of visitors from all over Japan to the country's clearest stream. As a result, it is feared that the amount of trash dumped there will increase and spoil the beauty of the river beach where Kesho Willow trees grow gregariously and the natural woods and forests.
- There is a possibility that in ten years the river will lose the position as Japan's clearest stream, and Ezo Salamanders and Char inhabiting there will become extinct.



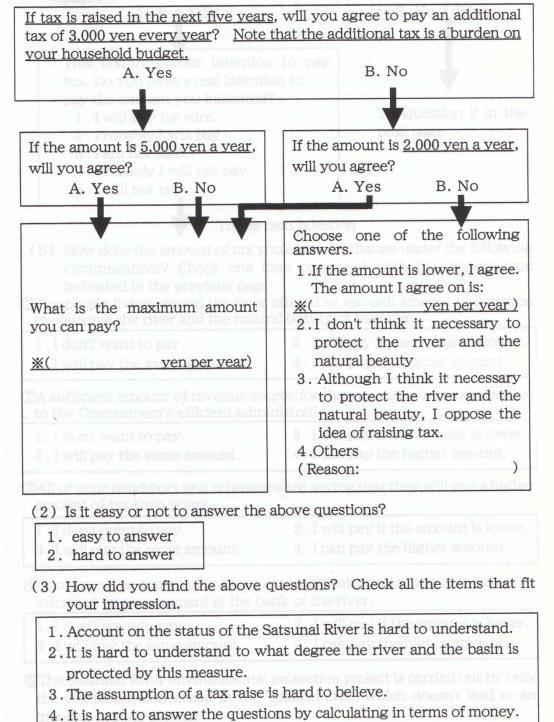


#### [Questions]

Read the following accounts and answer the questions. All the questions are based on the assumption.

(1) Suppose that an additional tax is imposed on all the households in Japan in the next five years to protect the water quality of the Satsunai River and the beauty of the river basin. If the people's consent is obtained, the taxation will start and the cleaning up of water flowing into the river and regular collection of trash will begin. This makes it possible to maintain the present level of the water quality and to preserve the natural beauty of the basin throughout the next 20 years. These measures, taking into consideration the ecosystem of the area, will not affect adversely the rare wildlife.

Answer the following questions, based on the assumption mentioned above. Check either of the answers provided in each question according to arrows.



4. I can pay the higher amount.)

5. I was worried about the surveyor's response.

6.Others (Details:

(4) Did you fill in the amount in the space marked with \* in the previous page? 2. No, I didn't. 1. Yes, I did. This confirms your intention to pay tax. Do you have a real intention to pay the amount you indicated? To Question 2 in the 1. I will pay for sure. next page 2. Probably I will pay. 3. I am not sure. 4. Probably I will not pay. 5. I will not pay. To the next question (5) How dose the amount of tax you agree on change under the following circumstances? Check one item compared with the amount you indicated in the previous page. The people living around the river offered an enough amount of donation to conserve the river and the natural beauty of the area. 2. I will pay if the amount is lower. 1. I don't want to pay. 4. I can pay the higher amount. 3. I will pay the same amount. 2) A sufficient amount of revenue source for the measure was produced due to the Government's efficient administration. 2. I will pay if the amount is lower. 1. I don't want to pay. 4. I can pay the higher amount. 3. I will pay the same amount. 3All of your neighbors and colleagues are saying that they will pay a higher amount of tax than yours. 2. I will pay if the amount is lower. 1. I don't want to pay. 4. I can pay the higher amount. 3. I will pay the same amount. (4) Your name, as contributor to the environmental protection of the river, is inscribed on a monument at the bank of the river. 2. I will pay if the amount is lower. 1. I don't want to pay. 4. I can pay the higher amount. 3. I will pay the same amount. (5) The Satsunai River environmental protection project is carried out by only the companies concerned in the Tokachi area, which doesn't lead to an increase in your income. 2. I will pay if the amount is lower. 1. I don't want to pay. 4. I can pay the higher amount. 3. I will pay the same amount.

#### The following are some background information and Question 2 questions concerning global warming.

(Answer the questions on condition that there isn't donation for the protection of the Satsunai River in Question 1.)

## [About global warming]

We produce a large amount of carbon dioxide in our everyday life. It is predicted that, without any immediate measures, the average temperature on earth will rise 2°C within the next 100 years. As a result, the following problems are expected to come up.

## By 2030 or so:

- · Agricultural produce will start to decline, particularly in developing countries.
- The world's climatic change will become intense and there will be a growing danger of drought and flood in various parts of the world.
- · Plants will not be able to adjust to a rapid climatic change, with the result that there will be a great change in ecosystem of plants and animals worldwide.

#### By 2100 or so:

- Agricultural produce will have been affected enormously in developing countries. For example India's farm products will decline 20% to 50% from the present level.
- The movement of global ocean currents will change significantly and there will be a danger of abnormal weather on a global scale. There will be, for instance, a temporary cooling of the Northern Hemisphere including Japan. Probability of this happening by 2100 is predicted as 5%.
- 30% of the world's forests will disappear due to a sudden climatic change,
- causing a danger that many species of animals and plants will die out. The sea level will rise about 50cm and the phenomenon will have a great impact on the low-lying areas in coastal regions, causing great damage to human life and property.

However, studies show that if we can curb the global temperature rise from predicted 2°C within the next 100 years to 1.5°C by taking the effective measures, we can make the problems less serious as follows:

- It will become possible to reduce an impact on agricultural produce in developing countries. We can minimize a decline in farm products in India within 50%.
- · A danger of a change in the global ocean currents will disappear, and consequently the possibility of a worldwide climatic change will be reduced.
- The world's forests can adjusts to a temperature rise, and thus it will be
- possible to minimize the influence on fauna and flora. A risk of high wave and other damages caused by a rise in sea level can be reduced.

Therefore industrialized countries including Japan need to reduce carbon dioxide emissions 5% or more by 2010 and also 5% in the following 10 years. In addition developing countries are also required to cooperate in reducing the emissions at the same rate after 2030. Japan is going to take the following steps, led by the Government.

- Further save-energy and recycling.
- Switch into alternative energy source which produces less carbon dioxide such as natural gas, solar heat and so on.

### [Questions]

Answer the following questions. All the questions are based on the assumption.

are some questions concerning your

Suppose that expenses for the protective measures are covered by a tax increase. Since the measures are carried out efficiently, an impact of the tax increase on Japanese economy is expected to be small.

(1) What is the maximum amount of additional tax per year your household can pay? This tax will last for at least 30 years, so note that this means a decrease in money you can spend during the years. Answer on condition that there isn't donation in Question 1.

I don't pay.	500 yen	1,000 yen	2,000 yen	3,000 yen
5,000 yen	7,000 yen	10,000 yen	15,000 yen	20,000 yen
30,000 yen	50,000 yen	100,000 yen	150,000 yen	200,000 yen
(In the case	yen)			

Choose one item.

- (2) If you check "I don't pay" in the above question, choose one of the following reasons.
  - 1. There is no need to prevent global warming.
  - 2. Our generation doesn't need to carry out measures to prevent global warming.
  - 3. Measures to prevent global warming are necessary, but I am against a tax increase.
  - 4. I don't agree on the status and the measures against global warming mentioned in the previous page.
  - 5. I don't understand well what is explained in the previous page.
  - 6.Others (Details:

(3) Under the following settings, how much will your household pay? Check one item compared with the amount you chose in the above question.

(1) If donation is collected from the people instead of tax, how much will you pay?

- 1. I don't want to pay at all. 2. I will pay if the amount is lower. 3. I will pay the same amount. 4. I can pay the higher amount.
- ②Suppose the possibility of worldwide abnormal climate will increase from 5% to 10% due to a change in the ocean currents on earth if any measures are not taken. In such case, how much tax will you pay?
  - 1. I don't want to pay at all.
- 2. I will pay if the amount is lower.
- 3.I will pay the same amount.
- 4. I can pay the higher amount.

Question 3 The following are some questions concerning your personal information. Since these questions are necessary for an accurate survey, we would like to ask for your cooperation. (1) Your sex Male Female (2) Your age bracket 60s and over 50s 20s 30s 40s (3) Your occupation Manufacturing Agriculture Forestry Fishery Wholesale and retail Transportation and communications Tourism Service Construction Finance and real estate Government worker Housewife No occupation Others( (4) The number of your household including you

(5) How much is your annual income including tax and social welfare? Check one item. (Unit: yen)

3 million and below between 4 and 5 million between 6 and 8 million between 10 and 14 million between 18 and 25 million between 3 and 4 million between 5 and 6 million between 8 and 10 million between 14 and 18 million 25 million and over

- (6) What is your relation to the Satsunai River? Check all the items that apply to you.
  - 1. I have heard of the river.
  - 2. I have visited the river.
  - 3 . I have visited the Tokachi area where lies Obihiro City and Ikeda
  - 4. Relatives, friends or acquaintances of mine live in the Tokachi area.
  - 5. I used to live in the Tokachi area.

		ollowing activities you. Fill in the		ear? Check all the es, too.
2 .V ti 3 .Vi ( 4 .V	isiting rivers imes per month isiting rivers fo Details:	or pleasure or exector for fishing or on on or other reasons wers during trav	bservation of the boots of the best of the	wildlife ( about imes per month)
yea kin	r? If so, write d, fill in the ap	e down the amou proximate value.	nt. In the case	ayments in the last e of contribution in s local government,
		ion, community		
	otal:	about		
②Donatic	on on your free	will related to yo	our job or your	children's school
	otal:	about		
(3)Donatio	on on vour free		uch as the Red I	Feather Champaign,
	institution and		dell as the Red I	Cather Champaign,
To	otal:	about		
4Other d	onations on yo	our free will		
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	you participat last year?	e in the following	g sorts of activi	ties without pay in
①Activitie	es for environn	nental protection		
1	Yes (about	days per year	) 2.No	
The state of the s	nity activities team and so o		t neighborhood	d association, fire-
1	Yes (about	days per year	) 2.No	
compan	y, agricultura		sociation, fishe	store association, rman's association including PTA
]	Yes (about	days per year	) 2.No	
Activitie and other		e organization su	ch as work at w	velfare organization
	Yes (about	days per year	) 2.No	
This is the	end of the qu	estionnaire. We h	ighly appreciate	e your cooperation.