weed [wi:d]

bend (bénd)

determined |dita:rmind|

release(d) [ກໍໄຊ່:s(t)]

seriously (sipriosli) iliness (finis) disesse (dizl:z)

suffer(ed) [skfər(d)]

mercury [matrixium] poison(ed) [phizn(d)]

domestic (damestik)

(Picheek) Q1, Q2

originatly (aridganali) bred (bred) < breed [bri:d]

One day in 1990, Fukunaga saw a story about the aigamo method of growing rice in the newspaper. On reading it, he thought, "This is it! I may be able to grow organic rice by this method."

If these tragedies had not happened, Fukunaga would

probably have used weed killer or other chemicals.

Aigamo are a cross between wild ducks and domestic ones. They were originally bred for their tasty meat.



Around that time, the Vietnam War was taking place. The American fighter planes sprayed chemicals to kill the trees so that Vietnamese soldiers could not hide there. These chemicals harmed a large number of Vietnamese people. After the war, as many as 150,000 children were born with serious disabilities.

Vietnamese [vietna:mi:z, -n=] soldier(s) soldier(s) (souldger(z)) hìde [háid] harm(ed) [bá:rm(d)]

spray(ed) [sprči(d)]

hamful (liá:rmfəl) Insect(s) [tasekt(s)]

behavlor (bihéivjor)

supply (seplői) oxygen (áksidgen (ák-)

fertilizer | fő:rt#láizər |

lmprove(d) (imprú:v(d)

(PCheck Q1, Q2

fling(s) [si:dlig(z)]

In rice fields, they eat harmful insects and weeds, but they do not eat the rice plants. Some farmers take advantage of this behavior by releasing the birds into their rice fields. In this way, they are able to grow rice safely without using any chemicals. The ducks stir up the mud . in the fields with their feet while swimming around in the rice fields. This increases the supply of oxygen to the mud and helps the rice plants grow. What's more, the ducks' waste is a natural fertilizer.

Fukunaga Daigo is a farmer who grows rice

in Kagoshima Prefecture. Many years ago, he

farmed a small rice field of 10 ares without using weed

killer. He and his mother would bend down and pull

weeds by hand. It was heavy work, and his mother

said, "If you used weed killer, we would not need to pull weeds." However, he would not change his mind.

In the 1960s, a chemical plant in Minamata,

Kumamoto Prefecture, released mercury into the sea. 40

This poisoned the fish living there, and people who ate

the fish became seriously ill. The illness was called Minamata disease. It is thought that over 2,200 people

Why was Fukunaga so determined?

suffered from it.

Soon, Fukunaga tried the aigamo method and w improved it. It seemed that his dream was coming true.

The following are some important points in the aigamo method:

First, farmers should release young aigamo into the fields a few weeks after planting their rice seedlings. If 18





they release the ducks later, the weeds will be too big for them to cat.

Second, aigamo should be one to four weeks old when they are released. The reason is that older and larger s ducks may damage the newly planted rice.

Third, about 15 birds is a suitable number for a field of 10 ares. If there are too few, they cannot eat enough weeds. If there are too many, they produce too much waste. Rice plants do not grow well if the field has too w much fertilizer.

Fourth, it is necessary to keep away dogs, crows, and other animals from the aigamo. Farmers should put up a net around their fields. They should also build a shelter to protect the ducks at night.

Last, just before the ears of rice form, farmers should take the ducks out of the fields. If they don't, the ducks will eat the rice.

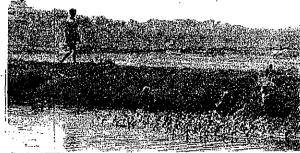


damage (dæmid:)

suitable |sú:təbl [sjú:1-]

owisi[krou(z)] shelter [[t]ter|





() Check Q1, Q2 [práfitəbi | práf-] yleid [ji:ld]

genuinely [dʒénjulnii] addition [adi[an] harvest [he:rvist]

consumer(s) [kansú:mor(z)|-sjú:m-}

The aigamo method is more profitable than you may think. The yield of rice is about 90 percent of that of normal rice. However, it sells for a 30 percent higher price than normal rice, because it is genuinely grown without chemicals. In addition, the s ducks can be sold for their meat after the rice harvest.

Above all, the aigamo method is safe for both producers and consumers. It is an organic farming method that Japan may well be proud of. Today, if you go to Korea, China, Vietnam, and several other 10 Asian countries, you can also see the ducks swimming around in the rice fields.

Rice and Ducks: A Winning Combination Lesson 3

Six years after introducing aigamo. Fukunaga increased his area of chemical-free rice fields to 80 ares. "There is great joy in organic farming," he says. "But without the support of consumers, my efforts would have failed. The ducks are cute, and I am happy that my work is healthy."

Fireflies have come back to the fields where the ducks are released. In summer, school children from big cities come to observe the ducks and the rice. There they can be in touch with a rich natural environment.

All this would not have happened if Fukunaga had not read a newspaper story about the aigamo method in

(P Check O1

chemical-free [kėmikal (rit]

support [sapá:rt] effort(s) [éfort(s)] fail(ed) [fáil(d)]

ireflies [fáiorfláiz] : firefly [fáiorflái]

environment inv*åist*anmant|



音読暗唱テスト Lesson 8 (Rice and Ducks)

Class 1

No.

Name:

(漢字での名前も:

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			· - · ·	
発音は正確に発音されているか? (Pronunciation)	2	1 ·	. 0	
暗唱の完成度は十分か? (Memorization)	2	1	0	
棒読みではなく、相手に伝わるように意味のまとまり を意識しているか?(Fluency and intonation)	2	1	0	
英語応答 (Questions and Answers)	2	1	0	
指示された内容を英語で説明できるか? (Explain "it" clearly and simply)	2	1	0	