

We heard in detail the influence of harmful pests of Aomori that occurred while raising rice at Aomori Prefecture Agriculture and Forestry Research Institute.

Let's give some types that occur often among them.

<Spotted rice bugs and their damage>

o a bug called "Akahige hosomidorikasmikame"

It's a major species in the prefecture. It appears four times a year. The damaged brown rice becomes colored grains.

o a bug called "Akazushi cuspidae"

Major speckled rice in the prefecture. It's one of the bugs, They spread over habitat. recent years. It appears three times a year. We think that adults become the cause of harm.

< Diseases of paddy rice >

① Harm of seedling season

The seedling turns yellow and stretches uselessly. Leaves are also thin and weak seedlings.

② Insects that come flying over long distances

o Akyuto

Pests come flying from overseas at late in spring to early summer. They eat only the rice plant and eat up leaves. There is a lot of this damage.

③ Rice blast

Lots of lesions are made on the leaves, and soon the leaves will wither and die. When it occurs more frequently, the whole stock withers, and causes bamboo blight. The first episode is seen from the end of June to the middle of July.

< Measures we thought about >

Pests are a hindrance to make delicious rice. There are various weather, fertilizer, etc. that cause the pests to occur frequently in rice and paddy fields.

In order to keep them away as much as possible. We thought that it was important to quickly extract rice that had pests attacked to prevent enlargement.

Toku-A

Rice

Aomori Prefectural

Hirosaki

Minami

High School

15 HR Groups 5



★ Purpose

We checked the normal rice and the special A rice that was brought up in Aomori. We have rice of Aomori get close more by checking it from various points of view, and these may make rice get close more.

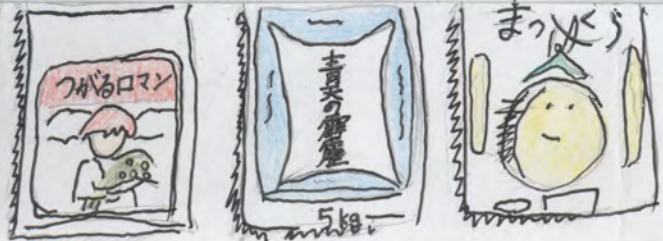
★ Hypothesis

You must clear some condition to become the best rice called special A rice. We thought that there might be the place that was missing about taste and tenacity with 「Tsugaruroman」, 「Massigura」 as of now because it wasn't it.

★ Method

First, we measure sugar content of rice produced in Aomori such as 「Tsugaruroman」, 「Massigura」, and 「A bolt from the blue rice」.

Second, we asked some questions from various points of view to a research institute.



★ Research content

We couldn't carry out experiment on measuring sugar content because we didn't prepare three kinds of rice.

- ① Our findings (A bolt from the blue, Tsugaruroman, Massigura)
- The length of the spike
 - manure
 - volume of rice drop
- There are no differences between the 3 kinds of rice

	A bolt from the blue	Tsugaru roman	Massigura
The planted area	1.3%	33.5%	64%

The data was from the area planted in 2015. So this year's data might change, but we find that there are little areas of "bolt from the blue" rice.

- ② Some condition that I gave by a hypothesis's
- ◇ appearance
 - ◇ smell
 - ◇ taste
 - ◇ persistence
 - ◇ tough
 - ◇ over-all judgement

The above 6 items are evaluated in 7 stages from -3 to 3.

③ Second, Aomori Prefecture Agriculture research center employee answered our question

① Will "A bolt from the blue"s planted area increase?
 → They will change the rice depending on farmer's self-sufficiency. From 2015 to 2016 it increased three times as high as before.

② Now do you make the best rice called special A rice?
 → They always make aim at best rice. Now we are growing it. Condition of weather in Aomori prefecture is suitable for grow it.

③ What improvements can make the best rice called special A rice?
 → We reduce amylose (Tough rice). We chose a rice with little protein.

④ What is future of common manure?
 → The less protein a rice has the more delicious the rice becomes. Because, rice that has a lot of nitrogen also it has lot of protein. We are growing the rice by using manure with little nitrogen. But don't use too much manure.