

What Are the Benefits of Having Agriculture, Forestry and Fishery Experiences?

What are the impacts of gaining agriculture, forestry and fishery experience at school? Here's what we found out based on studies conducted with Japanese people.

Benefits of Agriculture, Forestry and Fishery Experiences

- Agriculture, forestry and fishery experience is related to raised awareness and interest in food.
- Agriculture, forestry and fishery experience is related to food awareness and knowledge.
- Agriculture, forestry and fishery experience is related to food preferences.
- Agriculture, forestry and fishery experience is related to eating behavior, such as leaving food unfinished.
- Agriculture, forestry and fishery experience is related to mental health.

What is Agriculture, Forestry and Fishery Experience?

- The Third Basic Plan for the Promotion of Shokuiku provides that workers in the agriculture, forestry and fishery industry are to collaborate with a wide range of stakeholders who promote shokuiku, including staff at schools, nurseries, and other educational organizations in proactively providing opportunities to gain a variety of experience related to agriculture, forestry and fisheries, through initiatives such as educational farms.*1
- Agriculture, forestry and fishery experience includes rice planting (seeding), rice harvesting, vegetable harvesting and livestock care.



^{*1} Educational farms are farms run by farmers' associations where consumers can visit and experience a series of farming activities. Their purpose is to help consumers understand various activities of people whose work is related to nature or food.

Agriculture, forestry and fishery experience is related to raised awareness and interest in food.

Studies show that having agriculture, forestry and fishery experience is related to raised awareness and interest in food.

Benefits of Having Agriculture, Forestry and Fishery Experience

- 1 Studies with elementary and junior high school students showed that having agriculture, forestry, and fishery experience led to a greater appreciation of food and interest in food.*1
- 2 Studies with infants showed that having agriculture, forestry and fisheries experience had a positive impact on eating habits, such as increased consumption of vegetables.*2



Example of vegetable farming experience	
Who were the subjects?	64 third grade students in Fukuoka Prefecture engaged in vegetable farming experience as part of their comprehensive learning program over half a year.
What was this study about?	The study examined the effects of the farming experience on the students' awareness concerning environment, food, and farming, their daily behavior, and their eating habits. A questionnaire survey was conducted with the students before and after the experience. A questionnaire survey was also conducted with students who did not participate in the experience for the purpose of comparison.
What was found out?	Among the survey items, the percentage of students who responded "I don't hate any food" or "I always want to eat more vegetables" was higher after the experience. The percentage was also higher among the students who participated in the experience (after the completion of the experience) than those who did not.

^{*1} Article No. (Agriculture, Forestry and Fishery Experience): 1, 2, 5, 7, 8

^{*2} Article No. (Agriculture, Forestry and Fishery Experience): 6, 9

The list of articles can be found here (MAFF website):http://www.maff.go.jp/j/syokuiku/evidence/index.html

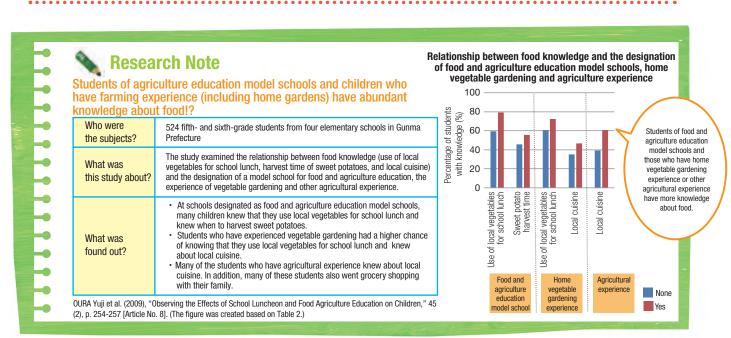
Agriculture, forestry and fishery experience is related to food awareness and knowledge.

Studies show that agriculture, forestry and fishery experience is related to food awareness and knowledge.

Benefits of Having Agriculture, Forestry and Fishery Experience

Compared to those who have not, people who have agriculture, forestry and fishery experience tend to...

- 1 Have stronger interest in food and feel greater appreciation for food (studies on farming in kindergartens and schools with infants, elementary and junior high school students).*1
- 2 Have better knowledge of seasonal vegetables and local cuisine (studies on agriculture experience for elementary school students at model schools, home gardens, and travel destinations, and studies with college students).*2
- 3 Have a higher level of awareness about food (studies on farming on experience farms and community farms with adults and older people).*3



^{*1} Article No. (Agriculture, Forestry and Fishery Experience): 1, 2, 4, 5, 7, 12

^{*2} Article No. (Agriculture, Forestry and Fishery Experience): 8, 13

^{*3} Article No. (Agriculture, Forestry and Fishery Experience): 19

Agriculture, forestry and fishery experience is related to food preferences.

Studies show that agriculture, forestry and fishery experience is related to food preferences.

Benefits of Having Agriculture, Forestry and Fishery Experience

Compared to those who have not, people who have agriculture, forestry and fishery experience tend to...

- 1 Prefer vegetables grown in home or school gardens (studies on vegetable gardening and farming at kindergartens).*1
- 2 Have no dislikes for foods (studies on agricultural experience with elementary school students).*2



Changes in children's preference for Research Note tomatoes before, after, and 6 months after tomato cultivation Children who grew tomatoes come to like tomatoes!? 70 esponded, "Hike tomatoes" (%) Who were 221 children in the first year of five kindergartens in Hokkaido the subjects? The study examined whether the children's preference for tomatoes What was would change after growing, harvesting, and eating tomatoes and this study about? cherry tomatoes. Children's preference for tomatoes improved after the harvest and six months after the harvest compared to before cultivation. Other criteria such as balanced eating (eating foods even if they do not What was Refore After harvest 6 months like them), interest in food (speaking happily about what they know found out? about vegetables, and feeling regretful when leaving foods unfinished or dropping foods) were also improved after the harvest and six months after the harvest. The number of children who liked tomatoes increased after harvest KIDA Haruyo et al. (2016), "Tomato Cultivation in a Kindergarten: Influence of a Vegetable Growing Activity on Picky compared to before cultivation Eating Habits among Preschoolers," The Japanese Journal of Nutrition and Dietetics, 73 (1), p. 20-28 [Article No. 2]. (The figure was created based on Table 2.)

^{*1} Article No. (Agriculture, Forestry and Fishery Experience): 1, 2

^{*2} Article No. (Agriculture, Forestry and Fishery Experience): 4

The list of articles can be found here (MAFF website):http://www.maff.go.jp/j/syokuiku/evidence/index.html

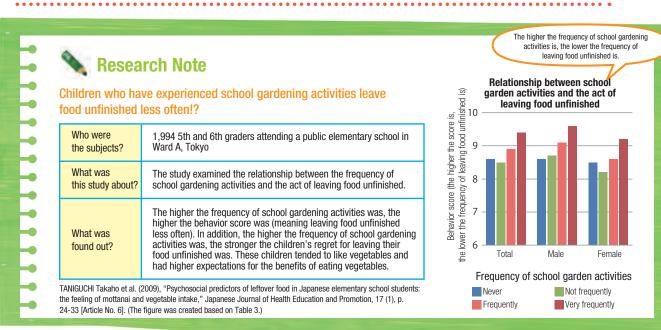
Agriculture, forestry and fishery experience is related to eating behavior, such as leaving food unfinished.

Studies show that agriculture, forestry and fishery experience is related to eating behavior, such as leaving food unfinished.

Benefits of Having Agriculture, Forestry and Fishery Experience

Compared to those who have not, people who have agriculture, forestry and fishery experience tend to...

- 1 Leave foods unfinished less often (studies on farming at home and school with preschoolers and elementary school students).*1
- 2 Eat a balanced diet consisting of staple food, a main dish, and side dishes, and take in various kinds of foods (studies on agricultural exp farming with college students, adults, and older people).*2
- 3 Eat vegetables more frequently and have more opportunities to acquire vegetables (studies on farming at community farms and home gardens with adults and older people).³



^{*1} Article No. (Agriculture, Forestry and Fishery Experience): 1, 2, 3, 6

^{*2} Article No. (Agriculture, Forestry and Fishery Experience): 13, 18

^{*3} Article No. (Agriculture, Forestry and Fishery Experience): 16, 18 (Note: Article No. 17 observed no relevance.)

The list of articles can be found here (MAFF website):http://www.maff.go.jp/j/syokuiku/evidence/index.html

Agriculture, forestry and fishery experience is related to mental health.

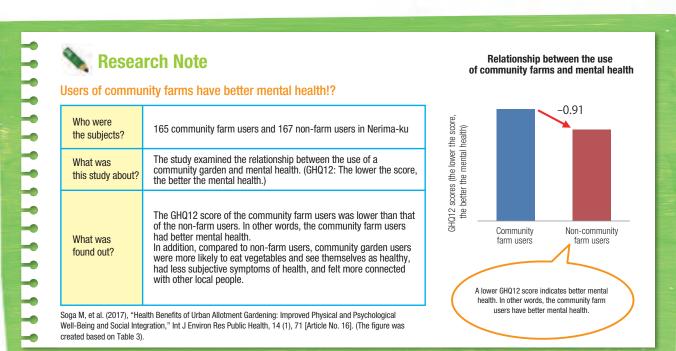
Studies show that agriculture, forestry and fishery experience is related to mental health.

Benefits of Having Agriculture, Forestry and Fishery Experience

Engaging in agriculture, forestry and fishery experience...

- 1 Alleviates tension, anxiety, and anger (studies on agricultural experience in rural areas with elementary school and junior high school students).*1
- 2 Helps people maintain a good mental condition (studies on farming on community farms with adults and older people).*2





^{*1} Article No. (Agriculture, Forestry and Fishery Experience): 9, 11

^{*2} Article No. (Agriculture, Forestry and Fishery Experience): 16

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Findings Related to Agriculture, Forestry and Fishery Experience (3)

What Are the Benefits of **Agriculture, Forestry and Fishery Experience?**

Findings from Overseas Studies

Benefits of Having Agriculture, Forestry and Fishery Experience

The following tendencies have been reported in relation to people who have agriculture, forestry and fishery experience as compared to those who have not.

Agriculture, forestry and fishery experience is related to food awareness and knowledge.*1

It has been reported that they tend to be more willing to eat vegetables and fruits and have high knowledge of nutrition.

- Agriculture, forestry and fishery experience is related to food preferences.*2 It has been reported that they tend to like vegetables and fruits.
- Agriculture, forestry and fishery experience is related to eating behavior.*3 It has been reported that they tend to eat a lot of vegetables and fruits and have a well-balanced diet.
- Agriculture, forestry and fishery experience is related to physical activities.*4 It has been reported that they tend to be more physically active.
- Agriculture, forestry and fishery experience is related to mental health.*5

It has been reported that their stress hormone level tends to be low.

Agriculture, forestry and fishery experience is related to connections with the local people and communities.*6 It is reported that they tend to have more opportunities of social participation and strong connection with their local community.



^{*1} Article No. (Agriculture, Forestry and Fishery Experience/Overseas): 2, 8, 9, 10, 12, 14

^{*2} Article No. (Agriculture, Forestry and Fishery Experience/Overseas): 7, 8, 9, 10, 12, 14
*3 Article No. (Agriculture, Forestry and Fishery Experience/Overseas): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14

^{*4} Article No. (Agriculture, Forestry and Fishery Experience/Overseas): 1, 3, 6, 7, 8

^{*5} Article No. (Agriculture, Forestry and Fishery Experience/Overseas): 1, 6, 7, 11

^{*5} Article No. (Agriculture, Forestry and Fishery Experience/Overseas): 1, 3, 6, 7, 11 The list of articles can be found here (MAFF website):http://www.maff.go.jp/j/syokuiku/evidence/index.html