

# Attractive Ehime Project

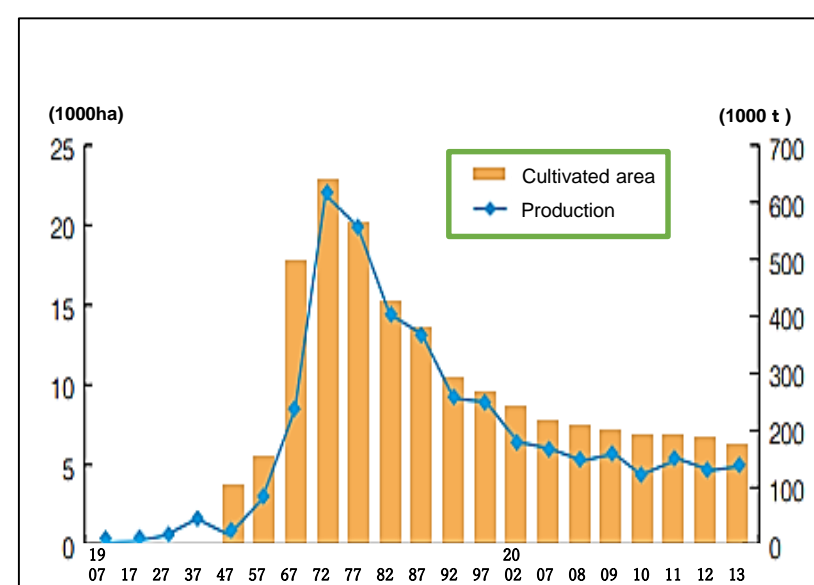
~Think about the future from possibility of agriculture~

## Motivation for research

When we think about our local Ehime, we feel vulnerability of agriculture in Ehime, which produces our food although it is essential in life. We try to analyze the present situations from data, discover problems and research solutions.

## Ehime's now(The present situations)

Data① Transition of Orange's production in Ehime



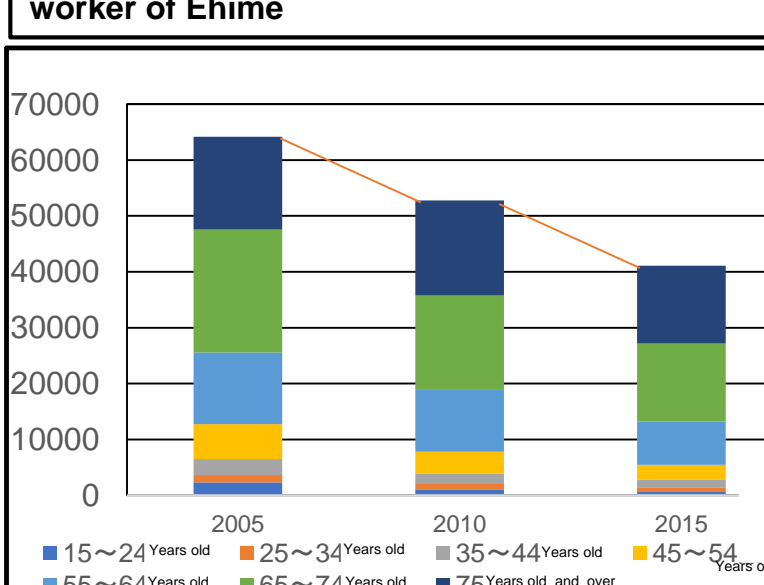
Cited from: Ministry of Agriculture and Commerce's statistical table, old Ministry of Agriculture and Commerce's statistical table, the Ministry of Agriculture, Forestry and Fisheries's statistical table, the Ministry of Agriculture, Forestry and Fisheries's statistical table

Data② Ehime's output ranking

Agricultural output by sector [Fruit]			Agricultural output by sector [Vegetables]		
Ranking	Prefectures	Output amount (100 million yen)	Ranking	Prefectures	Output amount (100 million yen)
1	Aomori	828	1	Hokkaido	2271
2	Wakayama	748	2	Ibaragi	1708
3	Nagano	714	3	Chiba	1546
4	Yamagata	709	4	Kumamoto	1227
5	Yamanashi	629	32	Okayama	214
6	Ehime	530	33	Tottori	211
7	Kumamoto	327	34	Ehime	201
8	Shizuoka	298	35	Wakayama	161

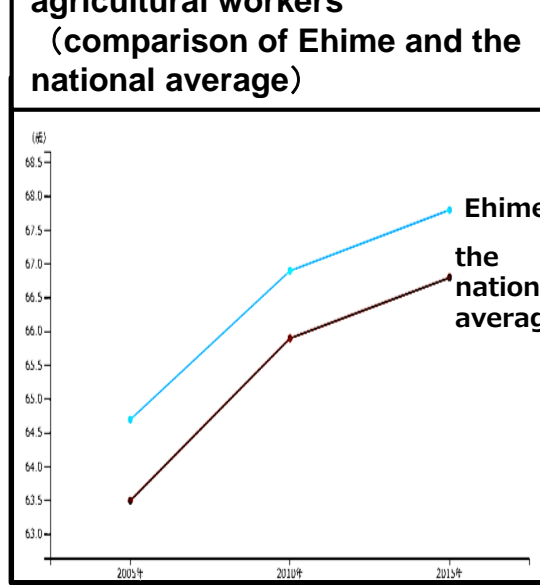
Created from: the Ministry of Agriculture, Forestry and Fisheries' Teach the administrative division of Japan's production of agriculture and production agricultural income

Data③ Transition of the number of agricultural worker of Ehime



Created from: RESAS [Industrial Structure Map]

Data④ The average age of agricultural workers (comparison of Ehime and the national average)



Created from: RESAS [The Average Age of Agricultural Worker]

Data⑤ The employment rate of the disabled in Ehime, the first year of Reiwa.

<private enterprises, legal employment rate 2.2%>  
 • the number of disabled employees 4,000 (4.1% (158.0) increase)  
 • actual employment rate 2.22% (0.06% increase)  
 national average 2.11% [24th in prefectural ranking]  
 national average 48.0% [31st prefectural ranking]  
 <public organization, legal employment rate 2.4~2.5%>  
 • Ehime Governor's Department: the number of disabled employees actual employment rate 1.81% (1.25%) [46th in prefectural ranking]  
 • Ehime Prefectural Board of Education: the number of disabled employees 167.5 (140.0) actual employment rate 1.92% (1.60%) [26th place in the whole country]  
 • Organizations in Cities and Towns: the number of disabled employees 448.0 (361.0) actual employment rate 2.44% (1.96%) [no data on ranking]  
 <Incorporated Administrative Agencies, legal employment rate 2.5%>  
 The number of disabled employees 53.0 (57.0), actual employment rate 2.36% (2.59%) [no data on ranking]

Cited from: Prefectural Governor Department [the result of totaling about employment state of handicaps in first year of Reiwa (as of first year of Reiwa June 1st)]

## Problem

Problem A: Either cultivated area and production have mostly kept decreasing since 1972. We should increase area of cultivation (Problem:A) to develop the rate of self-sufficient in food in Ehime.

Problem B: Production of fruit is large. But production of vegetables is a small. So, we should produce various vegetables in older not to depend to much on fruit. (Problem:B)

Problem C: You can realize the decline and aging in farmer from this data. We should hold down the first costs for young people to be easy to get engaged in agriculture (Problem:C) also for the sustainable agriculture.

Problem D: Compared with national average, aging of Ehime is getting worse. Improvement by the positive administration (Problem:D) is needed.

Problem E: Although we can see big improvement in comparison with the previous year, in terms of public institution, it is not enough about employment rate of disabled. We want to progress employment of disabled (Problem:E) by making their working environment improved.

## Suggestions for solutions

# To Solve The Problems by Promoting Hydroponic culture for Agricultural Normalization

**Concrete proposal 1**  
Constriction of hydroponic culture factory by public organization

**Concrete proposal 2**  
Cultivation and research by public workers

**Problem: D Solution**

**1: Constriction of hydroponic culture factory by public organization**

We make their work environment improved by building hydroponic culture factory and planning Normalization

**Establish condition of factory**

Three conditions

- The place where has a low-cost of **water charges**
- The place where is easy to be obtained **the land**
- The place where lead to **progress employment of the disabled**

**2: Cultivation · Research by public workers**

**Cultivation**: Stable supply of various crops

**Research**: easy to offer the information by researching in public organization (≡ Ehime Prefecture The Ministry Of Agriculture, Forestry And Fisheries Laboratory)

Advantages in hydroponic culture cultivation

- easy to repair
- temperature of water hardly change
- grown up is fast
- quality of crops are stabilized
- initial cost can be saved
- sanitary management is easy because crops are rarely damaged from insects or disease
- easy to work and adjust height of stands

Cited from: "Mainabi" agriculture

**Be expected to increase young people by improving something like environment**  
**Be expected active employment of disabled**  
**increase area of cultivation**

**Problem: A · C · E solution**

**About terms①**

Water charges (Per 20m<sup>3</sup>)

Created from: each municipality website

**About terms②**

**Use of closed school sites**

Be expected

- low initial cost
- convenient sites
- high advertising effect
- regional revitalization etc.

Cited from: Ministry of Education

**About terms③**

Cited from: Google Maps

**The employment retention of disabled is low**

We think what we need to continue is

- introduction of long-term internship
- employment in familiar place

We suggest near **Prefectural Niihama special Needs School!**

If track the record is got ready in Niihama, we will think spread to other special needs schools such as Uwa Special Needs School (Seijo City), and Shigenobu Special Needs School and Minara Special Needs School.

**Lead to the production of various vegetables and local production for local consumption can be realized**

## Conclusion

Under the public organization leadership  
**Agriculture Normalization**  
 By Promoting Hydroponic Culture

problems A ~ E solution → **Ehime become fascinating prefecture!**

problem: B solution