Training Course for Distinctness, Uniformity and Stability test of Corn, Vung Tau, Viet Nam, August 1 to 4, 2016





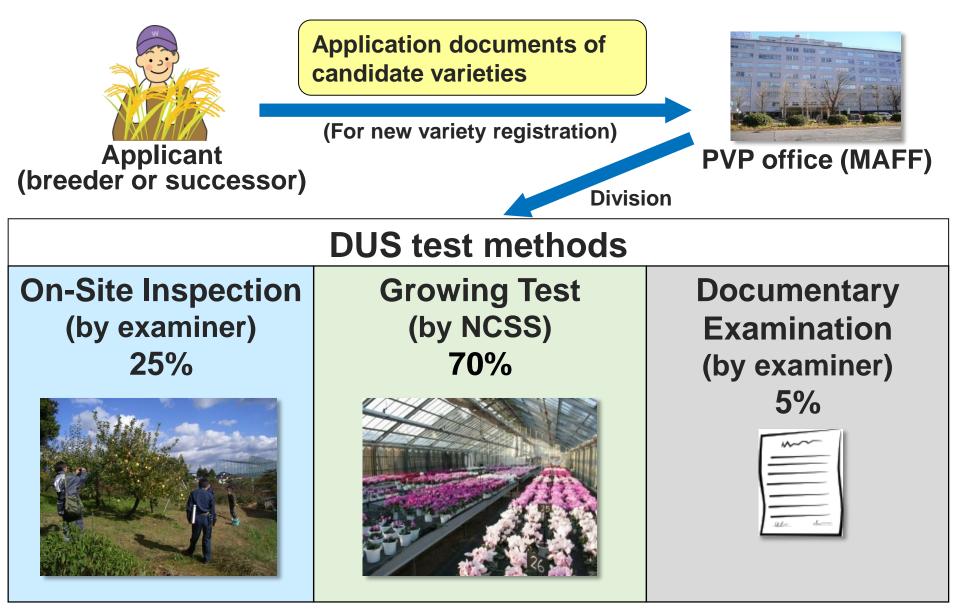
Kohei IMAMURA Senior staff, DUS Test Section, NCSS (Center for Seeds and Seedlings, NARO)



- 1. Overview of examination procedures of plant new varieties in Japan
- 2. Application and registration of corn
- 3. Situation of DUS test of corn in Japan
- 4. DUS growing test of corn in Japan

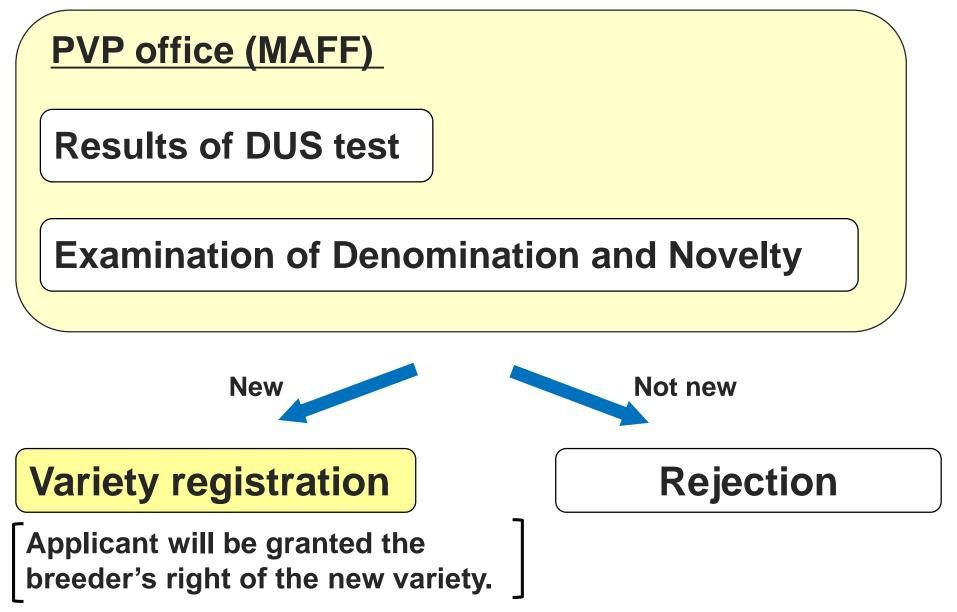
#### Overview of examination procedures of plant new varieties in Japan- 1





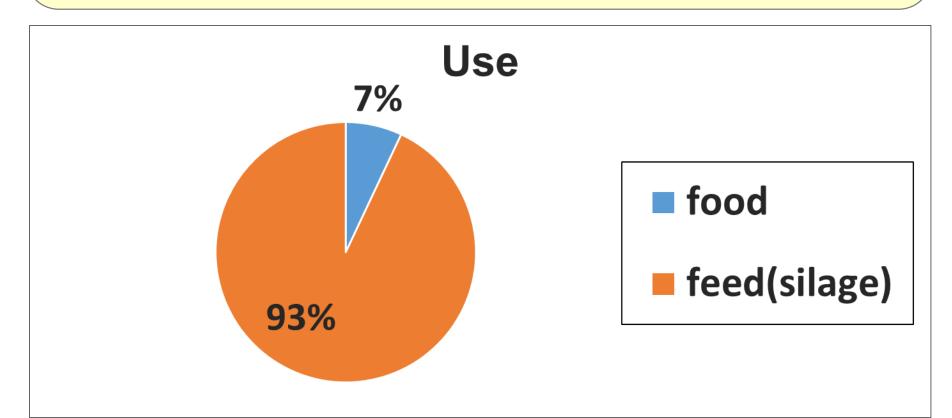
Overview of examination procedures of plant new varieties in Japan- 2





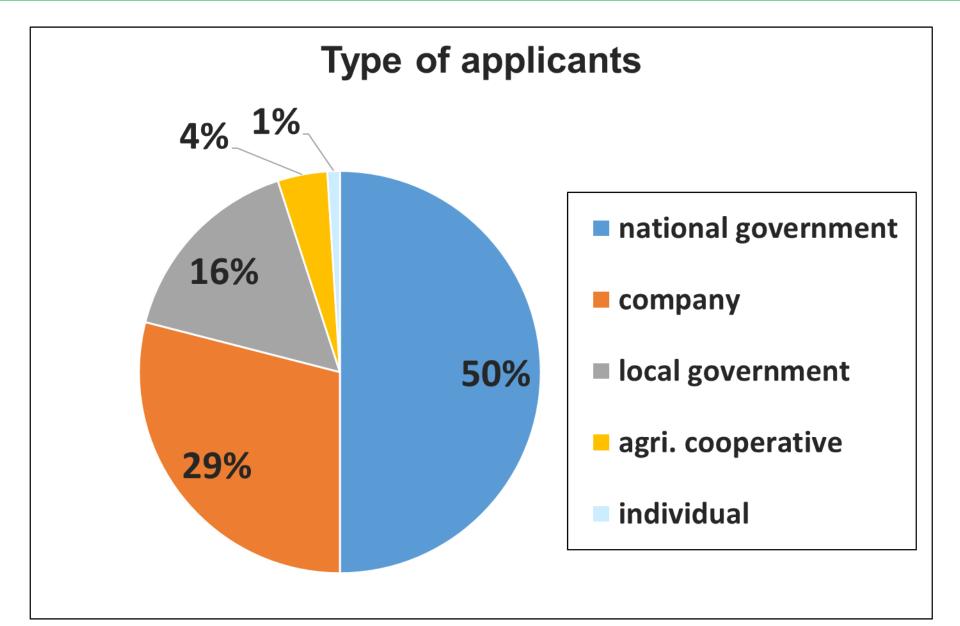


### Number of applications: 123 varieties Number of registration: 92 varieties (~July. 10, 2016)



**Application and registration of corn - 2** 





Situation of DUS test of corn in Japan-1

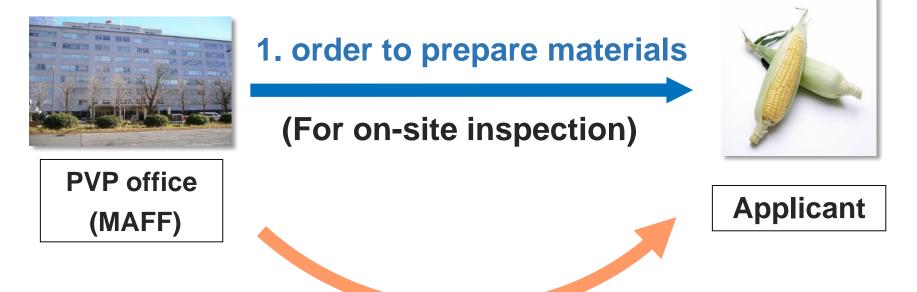
- Documentary Examination : 53%
- On-Site Inspection : 46%
- Growing Test : 1%

- The majority of the applicant is a public institution.
- It is not sufficiently equipped to do routine DUS growing test of corn.



Situation of DUS test of corn in Japan- 2

### **On-site inspection**



### 2. visit the field for assessment of characteristics







National Agriculture and

Food Research Organization

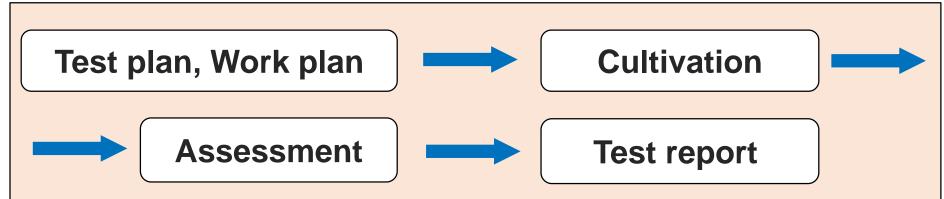
Situation of DUS test of corn in Japan- 3

### **DUS growing test**

• The similarity of existing variety and candidate variety is very high.

• The determination of distinctness is difficult in on-site inspection.

### **General flow of DUS growing test**



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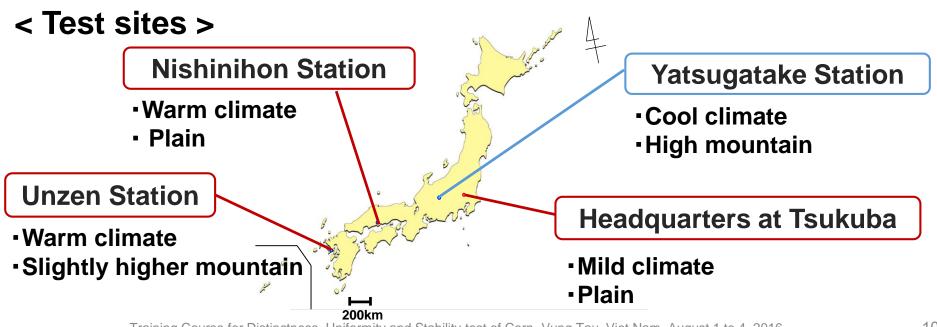
Food Research Organization



### Test planning

Test plan is a simple list that summarized when, where and how to do DUS growing test.

In particular, we need to select the test place with appropriate climate <u>for corn.</u>

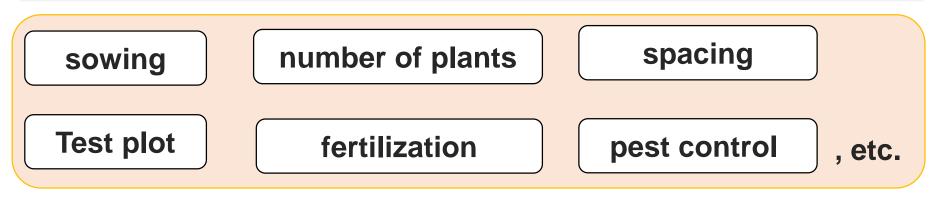




### Work planning

Work plan is a document that is described concrete cultivation method for each plant species.

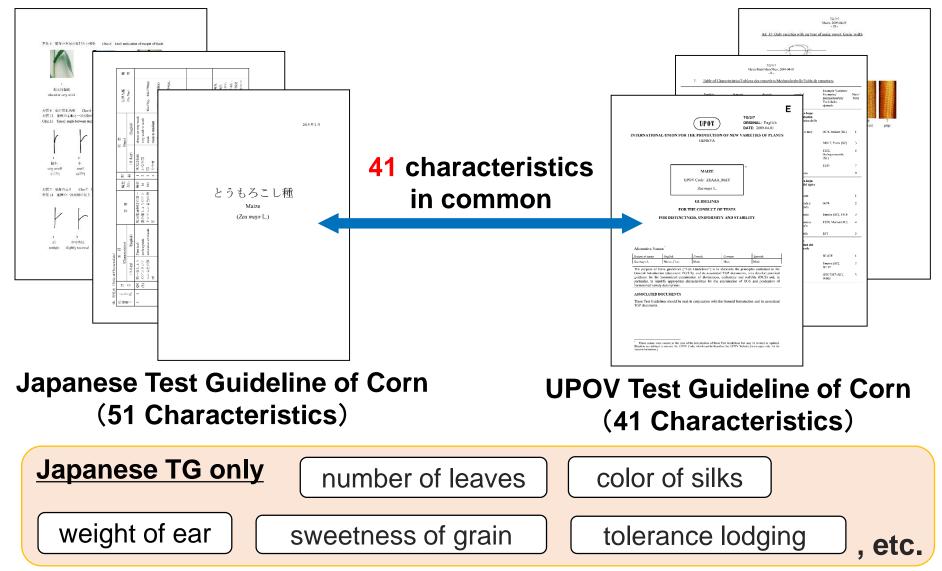
We determine the standard cultivation method of corn based on the references.



### < Objectives > I . Confirmation of the practical method of the test II. Sharing and accumulation of information



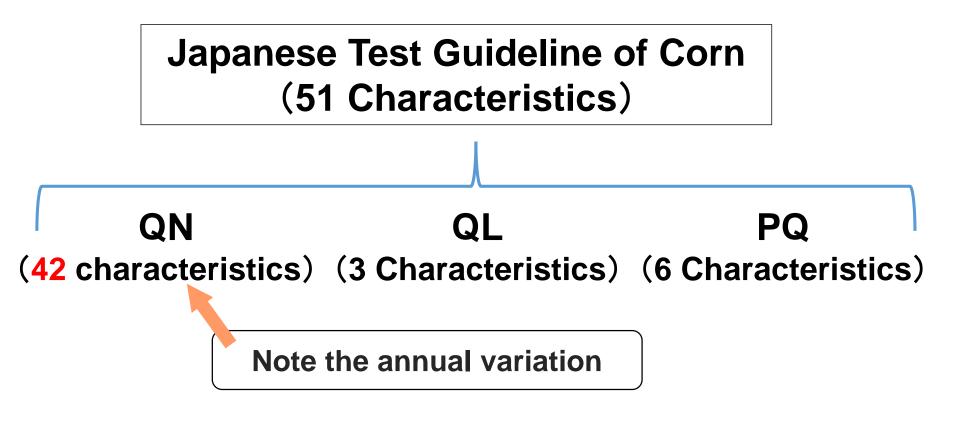
### Assessment: TG



DUS growing test of corn in Japan-4



### Assessment: QN



### We assess QN characteristics based on the growth ratio of the past and present data of the example varieties.

### DUS growing test of corn in Japan-4



### Assessment: photo



### It is important that photographs are taken to be able to confirm the characteristics of the plant.

## As for how to take photo, I'll give you more details in next my lecture.



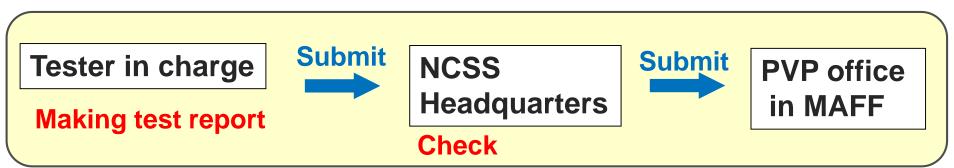
### Assessment: check



- We check the assessment by three or more staff.
- On the basis of examination data and plant condition, the assessment is determined.

In the case of corn, it is important that we often check the assessment of characteristics with more than three staff.

### Test report







# Thank you for your attention.

### Have a nice day.

