

TWC/26/24

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA

TECHNICAL WORKING PARTY ON AUTOMATION AND COMPUTER PROGRAMS

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METHODS TO ADJUST THE ASSESSMENT TABLE FOR QUANTITATIVE CHARACTERISTICS: FOCUS ON THE DIFFERENCE BETWEEN SELF- AND CROSS-POLLINATED PLANTS

Document prepared by experts from Japan

Data processing for measure QN characteristics in Japan

The Methods to adjust the Assessment Table for QN Characteristics

focus on the difference between self- and cross-pollinated plants

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The Context

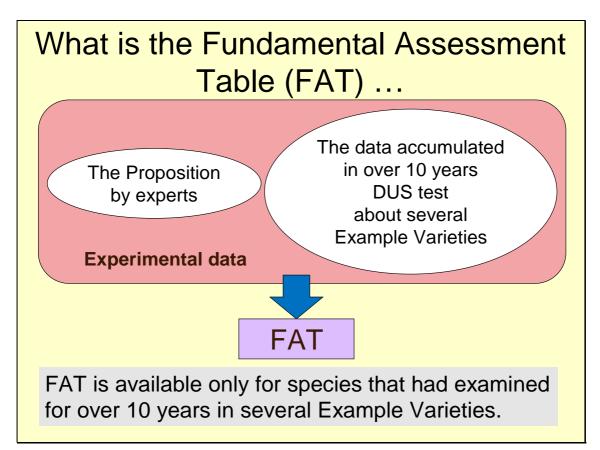
General Method

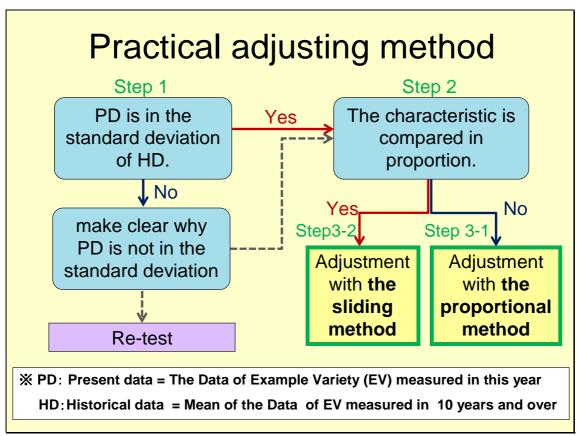
The relative assessment based on the data of the Example Variety(EV) in this year .

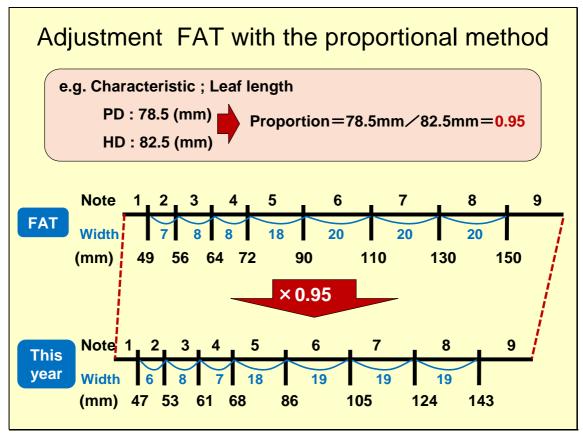
We seek more effective Method to reduce the yearly variation

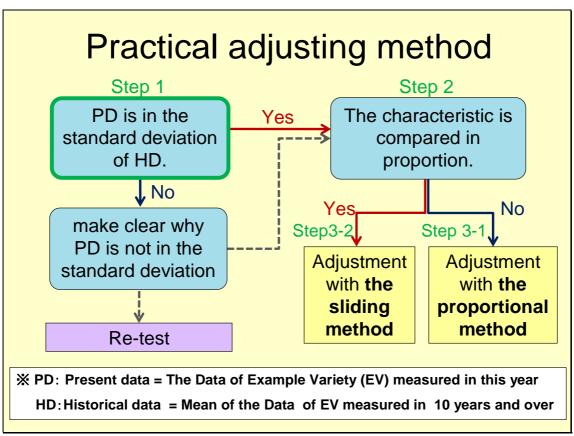


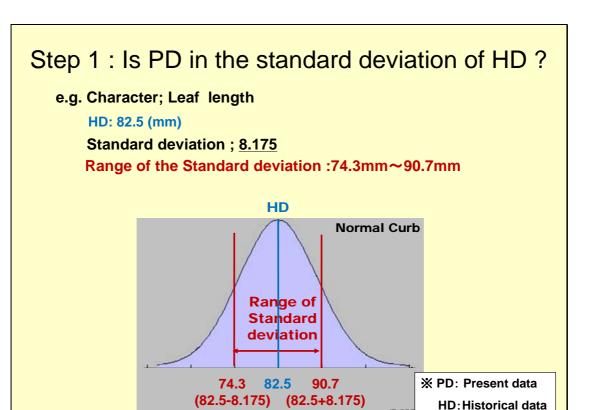
the Method with Fundamental Assessment Table(FAT)

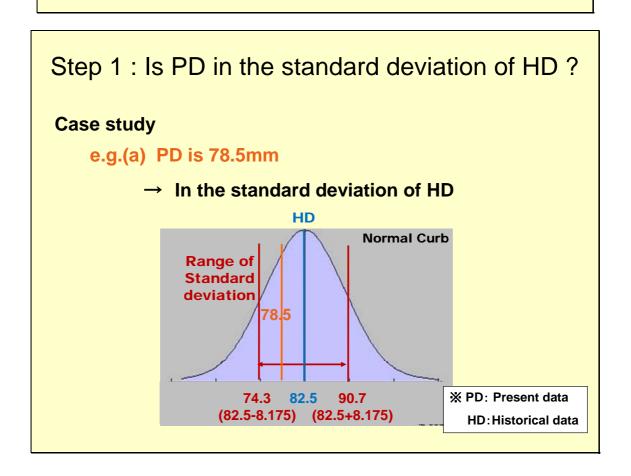


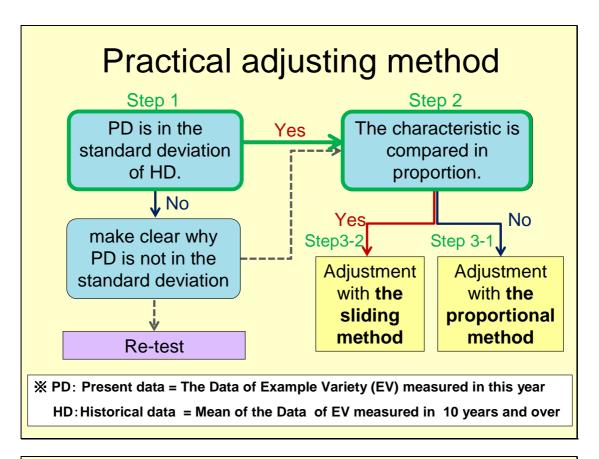


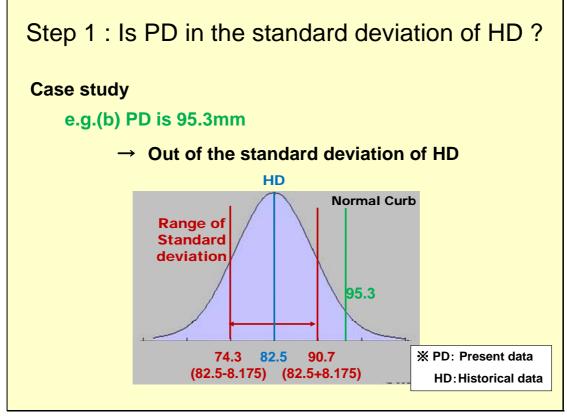


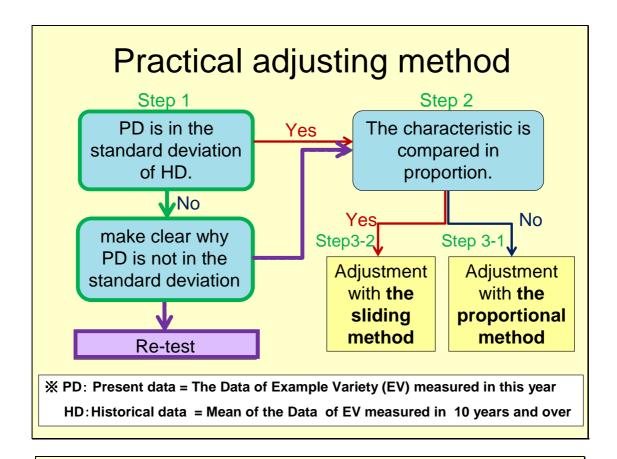








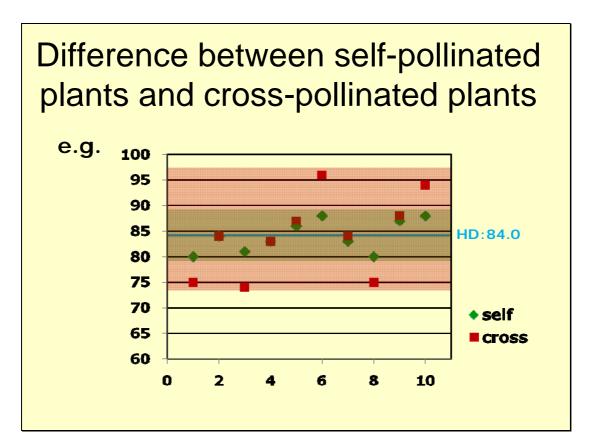




Difference between self-pollinated plants and cross-pollinated plants

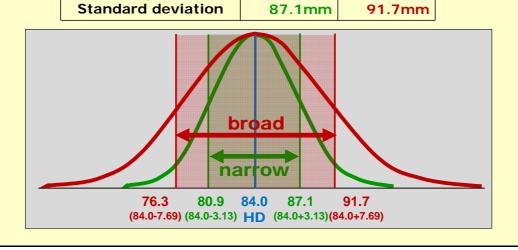
e.g.

	Self	E.V.	Cross	E.V.
1 st year		80		75
2 nd year		84		84
3 rd year		81		74
4 th year		83		83
5 th year		86		87
6 th year		88		96
7 th year		83		84
8 th year		80		75
9 th year		87		88
10 th year		88		94
Historical Data (HD)	same	84.0	same	84.0
standard deviation	low	9.78	high	59.11
coefficient of variance	low	3.13	high	7.69
dispersion	low	11.64	high	70.37





Range of



80.9mm~

76.3mm~

Difference between self-pollinated plants and cross-pollinated plants

- The methods are same one.
- The adjustable range changes according to dispersion of Historical data of the Example variety.

The propagation system of EV is automatically reflected in the adjustable range.

Tendency:

- > Self-pollinated plants; smaller adjustment range
- Cross-pollinated plants; bigger adjustment range

Thank you very much for your attention!