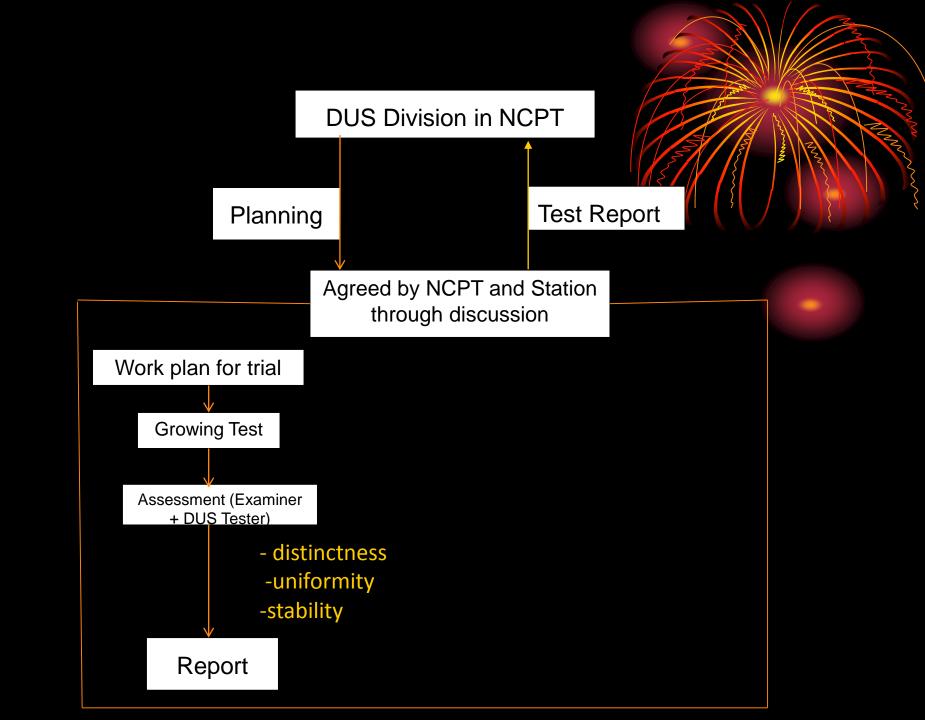


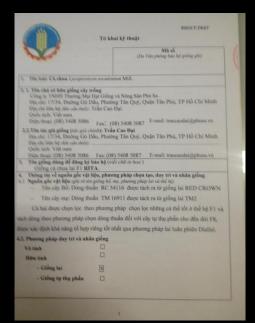
# Planning for DUS Test of tomato

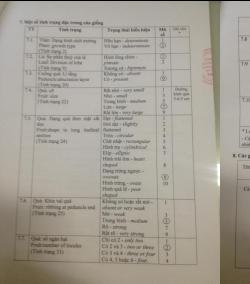
Ngo Thi Thanh Van

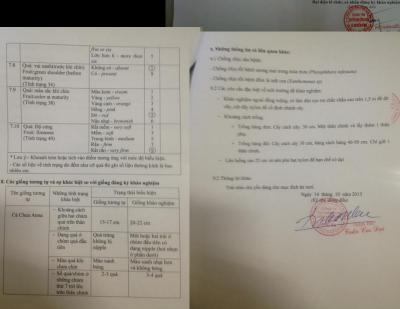


#### Planning

 Receiving application for DUS Test – input data to database – export the data then send to Tuliem Station.





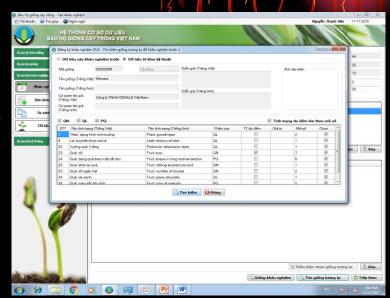


DON DÂNG KÝ KHAO NGHIEM DUS

#### **Planning**

 Listing of candidate varieties and send seed sample to Tuliem Station for DUS Growing Test. Selection of similar varieties from data base.

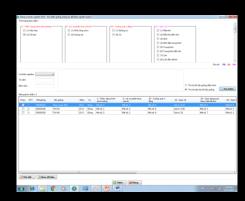
- Tuliem Station Import application to data base.
- Checking characteristics of the candidate variety



#### Grouping characteristics

Selecting similar varieties are based on the Grouping Characteristics as following:

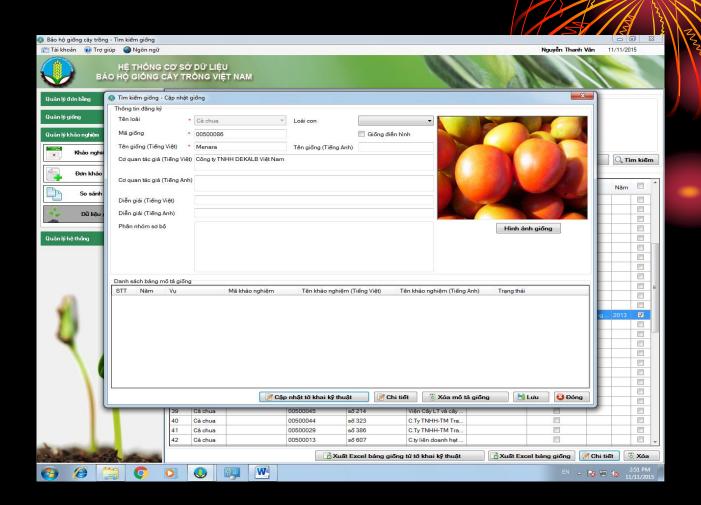
- Plant: growth type (characteristic 2)
- Leaf: type of blade (characteristic 9)
- Peduncle: abscission layer (characteristic 20)
- Fruit: size (characteristic 22)
- Fruit: shape in longitudinal section (characteristic 24)
- Fruit: ribbing at peduncle end (characteristic 25)
- Fruit: number of locules (characteristic 33)
- Fruit: green shoulder (before maturity) (characteristic 34)
- Fruit: color (at maturity) (characteristic 38)
- Fruit: firmness (characteristic 40)



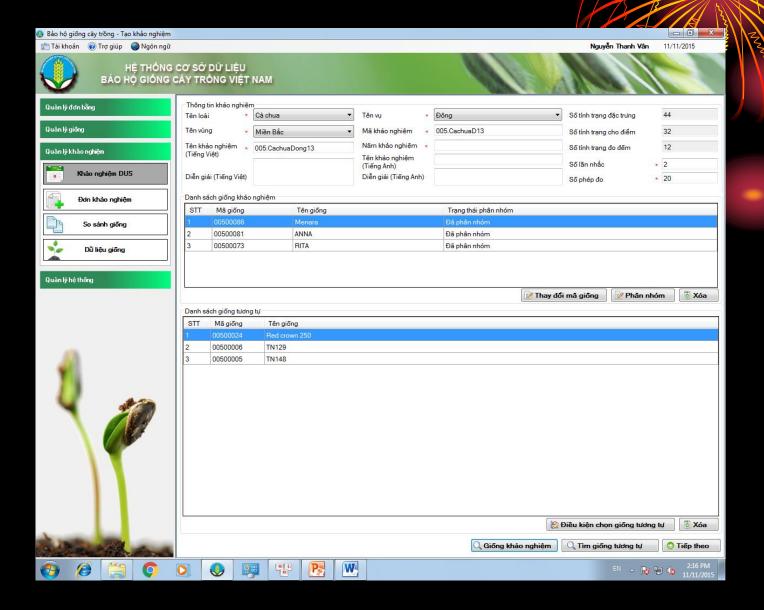
### Selection of similar varieties in data base

- The data of DUS test is kept for many years
- Information from local varieties, the varieties are in any official List.
- Number varieties in data base in Vietnam until now: 80

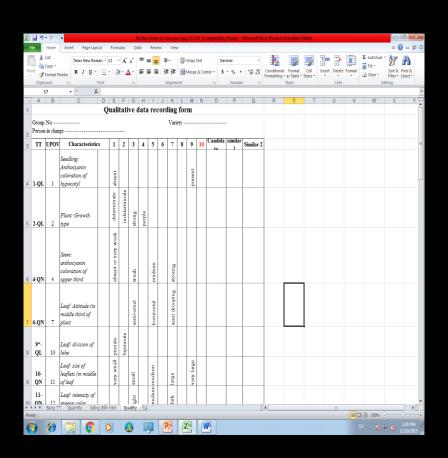
#### Decide the similar variety

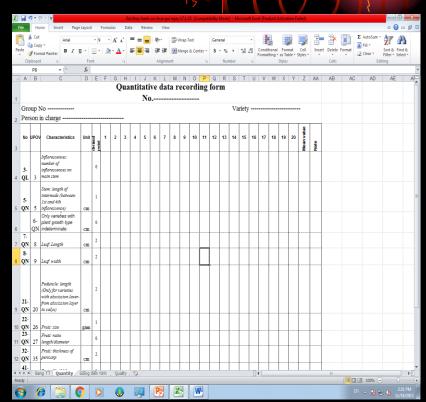


### List of candidate and similar varieties



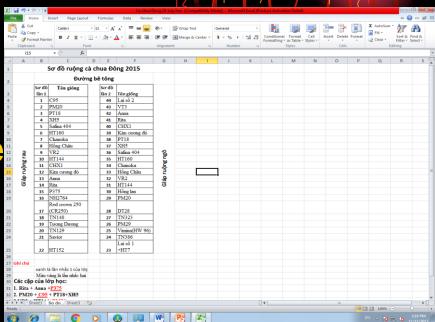
#### Data recording form





#### Design of DUS Growing Test

- List of candidate and similar varieties will be arrange reasonable.
- Arrange the plots for the Test follow TG of Tomato.



#### Cultivation

- Notice on the cultivation techniques
- Soil condition
- Weather
- Insect and deases
- Fertilizer
- Water irrigation

Observation in the filed

- Different characteristic should be evaluated appropriate stage
- Assessment on two replication.
- Observation and Measurement of characteristics
- To take photo some characteristics in the filed.
- Examining for D.U.S
- Discussing assessment result



Measurement in the Room

 Some characteristics have to observe or measure in the room such as: Size of fruit, Ratio of length/diameter fruit, Thickness of pericarp fruit..

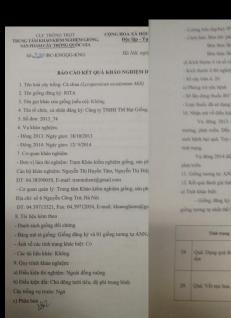




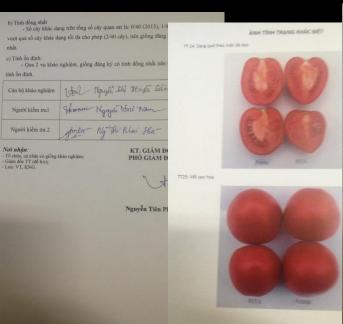


#### Report

- DUS Test report in the first reason
- Final report







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#### **Examine of Distinctness**

+ A variety can be considered to be clearly distinguishable if the difference in the characteristics is consistent and clear.

	Characteristics	year	Candidate variety	Similar variety	Minimum distance
24-PQ	Fruit: shape in longitudinal section	2013	5	4	1
		2014	5	4	1
28-QN	Fruit: size of peduncle scar	2013	5	3	2
		2014	5	3	2
37-QN	Fruit: intensity of green color	2013	3	5	2
		2014	3	5	2

22. Fruit: size

28. Fruit: Size of peduncle scar



24. Fruit: Shape in longitudinal section





Anna Menara

#### **Examine of Uniformity**

- + Based on the No of Off-type plant
- + Allowed number of off-type

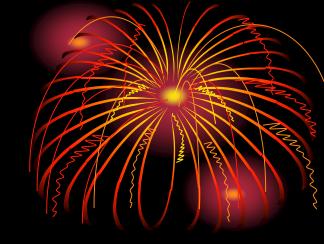
(based on the general guideline and individual test guidelines)

- Plot Sample size of 40 plants the maximum number of off-types allowed would be 2 plants.

#### Examine of Stability

- When a candidate variety is sufficient uniform, it will be considered to be sufficient stable.
- If an additional test is needed, the variety is reproduced of plant materials from each plants and check uniformity in the next season.





## THANK YOU FOR YOUR ATTENTION!