

TWC/31/30

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

TECHNICAL WORKING PARTY ON AUTOMATION AND COMPUTER PROGRAMS

Thirty-First Session

Seoul, June 4 to 7, 2013

"SISNAVA" AND "SIVAVE" SOFTWARE USED IN MEXICO

Document prepared by an expert from Mexico

- 1. On February 25, 2013, Mexico provided the Office of the Union with information on exchangeable software in addition to that included in document UPOV/INF/16 "Exchangeable Software".
- 2. The procedure for considering such proposed inclusions is set out in document UPOV/INF/16 "Exchangeable Software", as follows:
 - "2. Procedure for inclusion of software

"Software proposed for inclusion in document UPOV/INF/16 by members of the Union is, in the first instance, presented for review by the Technical Working Party on Automation and Computer Programs (TWC). On the basis of such presentations and the experience of members of the Union, the TWC makes a recommendation to the Technical Committee on whether to include that software in document UPOV/INF/16. In the case of a positive recommendation by the TC and by the Administrative and Legal Committee (CAJ), the software will be listed in a draft of document UPOV/INF/16, to be considered for adoption by the Council. Document UPOV/INF/16 is adopted by the Council."

- 3. The Annex to this document contains proposals by Mexico, for review by the TWC, at its thirty-first session, to be held in Seoul, from June 4 to 7, 2013.
 - 4. The TWC is invited to review the software proposed by Mexico for inclusion in document UPOV/INF/6 "Exchangeable software", as presented in Annex to this document.

[Annex follows]

ANNEX

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Ministry of Agriculture, Husbandry, Rural Development and Fishery National Service of Seed Inspection and Certification

"SISNAVA and SIVAVE as exchangeable software" by Mexico

<u>Technical Working Party on Automation and Computer Programs (TWC-31)</u> Seoul, Republic of Korea, <u>June 4 to 7, 2013.</u>

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"SISNAVA" by its acronym in Spanish. It means: SNICS system for grouping plant varieties"



Some relevant considerations:

- It is a Program Data Base on Microsoft Access
- •SISNAVA works based on numerical values stated for different states of expression for each morphological characteristic. This information is declared by the applicant taking in account the specific UPOV TG.
- It does not involve statistical probability levels, it only calculates differences in absolute values;

In example:

If a plant variety "A" has a plant shape: Cylindrical = 3 -> Difference... 3-1=2 and a plant variety "B" has a plant shape: Conical= 1

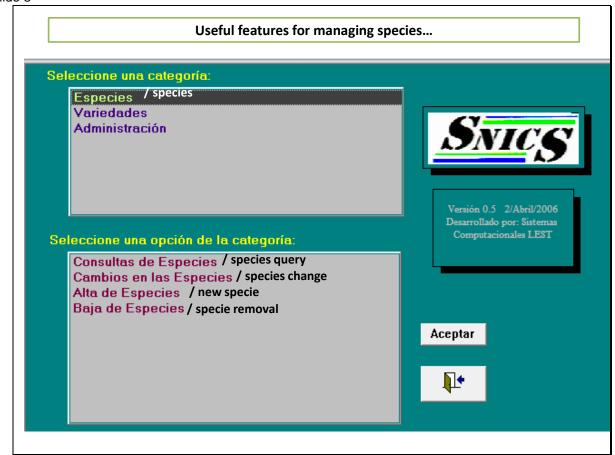
Variety "A" Time of beginning of fruit ripening: very early = 1 > Difference... 9-1=8

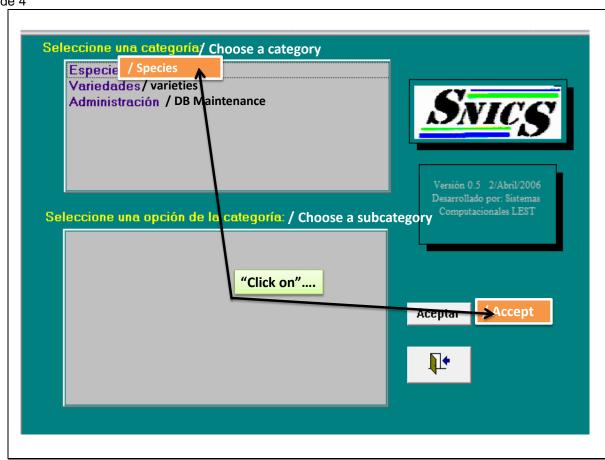
Variety "B" Time of beginning of fruit ripening: very late = 9

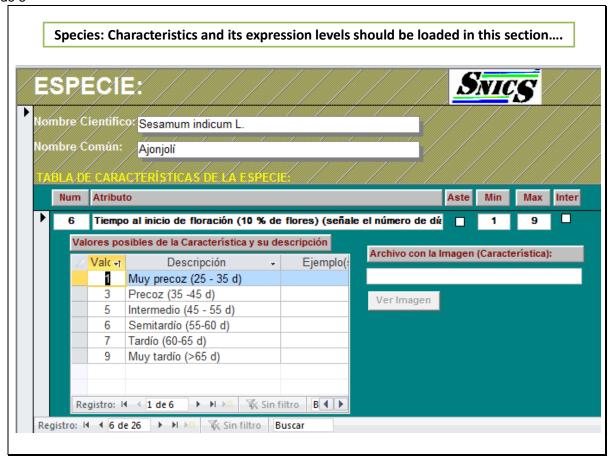
Sum of differences

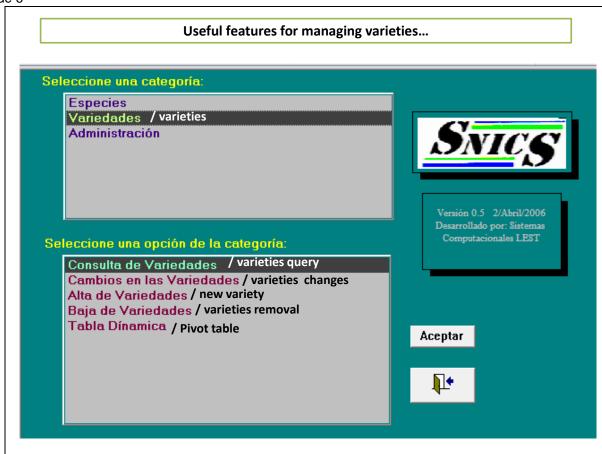
10

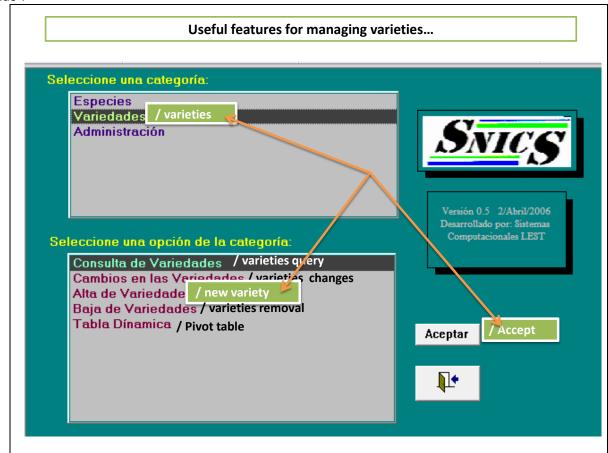
"When a sum of differences is close to zero, we said the varieties apparently are very similar and a distinctness test could be carried out"

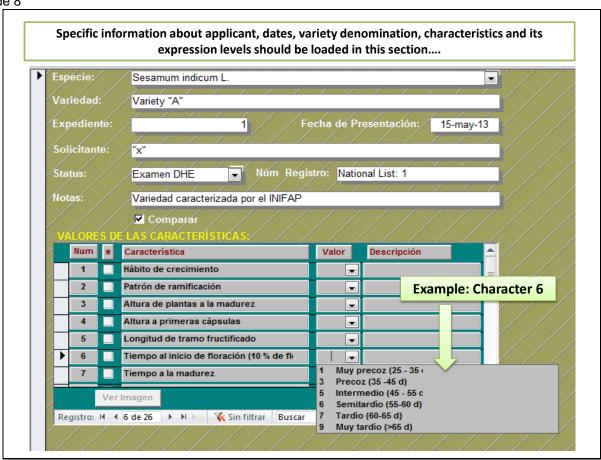


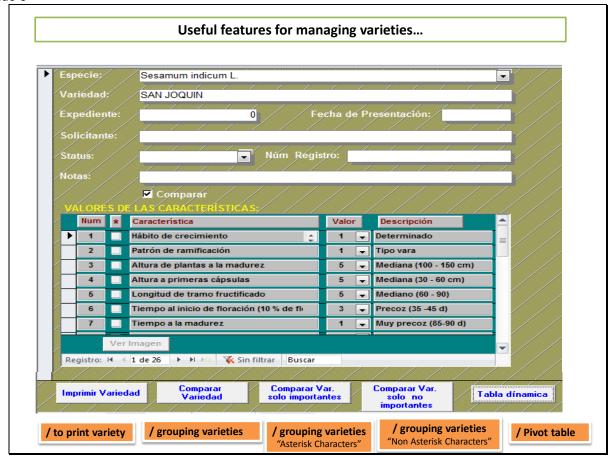


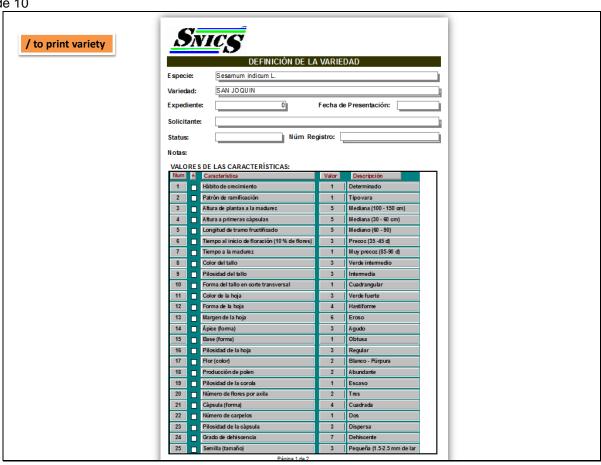


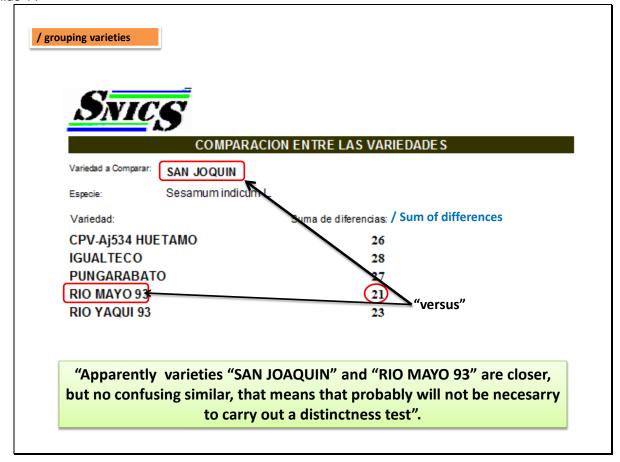


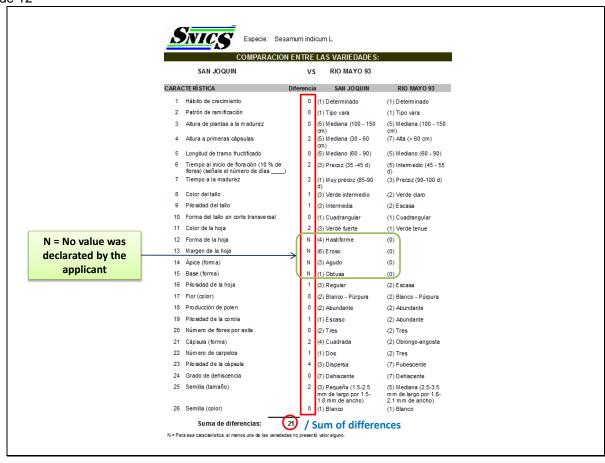














"SIVAVE" by its acronym in Spanish. It means: system on plant varieties"



SIVAVE System General Features:

Technical specifications

- Technology used to develop SIVAVE system
- PHP 5.3 language
- Database MySQL 5.X.
- HTML 5
- JQuery
- Adobe Flash

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"SIVAVE" by its acronym in Spanish.
It means: system on plant varieties"



System objective

- The main goal of the system is to efficiently manage the applications process, as well as administer the obtainers registrations of plant varieties.
- It is a useful tool that considerably speeds up the response time to applications through reports.

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"SIVAVE" by its acronym in Spanish. It means: system on plant varieties"



System Features

- Internationalized application: Neutral Spanish and English languages.
- Access System scheme by roles.
- Report Module for executives, statistic data and charts which show information in real time.
- Mobile devices version. Only for executives.

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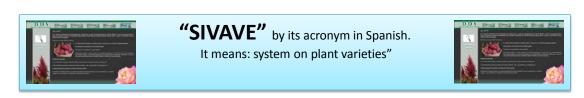


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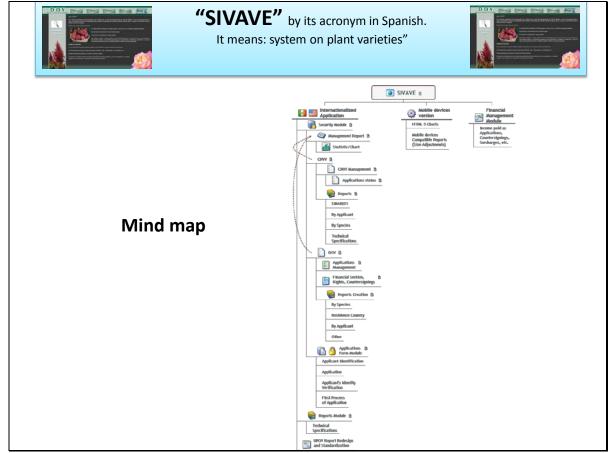
Automated process

- Applications of Obtainers Rights Management.
- Income paid as rights of obtainer applications.
- Plant varieties registered in the institution.



Principal Reports

- Executive Report: this shows the applications status through management indicators.
- Technical Specifications Report: established to the technical and qualifying committee.
- Standardized information exportation for UPOV PLUTO System.





[End of Annex and of document]