UNCLASSIFIED

AD NUMBER

AD837255

NEW LIMITATION CHANGE

TO
Approved for public release, distribution unlimited

FROM
Distribution authorized to U.S. Gov’t. agencies and their contractors; Critical Technology; 06 JUL 1965. Other requests shall be referred to Department of the Army, Fort Detrick, MD.

AUTHORITY

SMUFD ltr, 14 Feb 1972

THIS PAGE IS UNCLASSIFIED
DDC AVAILABILITY NOTICE

Qualified requesters may obtain copies of this document from DDC.

This publication has been translated from the open literature and is available to the general public. Non-DOD agencies may purchase this publication from the Clearinghouse for Federal Scientific and Technical Information, U. S. Department of Commerce, Springfield, Va.

DEPARTMENT OF THE ARMY
Fort Detrick
Frederick, Maryland

STATEMENT #2 UNCLASSIFIED
This document is subject to special export controls and each transmittal to foreign governments or foreign nationals may be made only with prior approval of Dept. of Army, Fort Detrick, ATTN: Technical Release Branch/ TID, Frederick, Maryland 21701
THE SELECTION OF SEEDS FOR THE SPRING CROP

- North Vietnam -

[Following is a translation of an article by Tran Thien, Engineer, in the Vietnamese-language periodical Khoa Hoc Ky Thuat Nong Nghiep-Loa Cho Hop Tac Xa (Agricultural Sciences and Technology - For Cooperatives) Hanoi, 15 December 1963, pp 26-27.]

"Tra trung tu" seeds: This species has been imported from China. It has several qualities:

- It withstands cold weather better than "Nam Ninh" and "Nong Nghiep" I species. During the seedling stage, a relatively small portion of the leaves get pale during a cold spell. When warm weather returns the leaves become green again quickly if enough care and fertilizer are provided.

- It reproduces more abundantly and earlier then the "Nong Nghiep" I species. Although its ability to reproduce does not match that of "Nam Ninh," the shoots give the highest proportion of ears.

- This species blossoms and ripens four to six days earlier than the two species mentioned above. Hence, it is seldom damaged by the "duc than" worms or exposed to the prevailing Laotian winds. Consequently, the proportion of dry ears and hollow grains is small.

- Its ears are long. The number of grains per ear is less than for the "Nong Nghiep" I species but greater than the "Nam Ninh" species. The weight per 1,000 grains is greater than the other two species, the proportion of hollow grains is the lowest, hence the yield is highest.
The "Nong Nghiep" I species. Under conditions of the spring crop, it produces few shoots; secondary stalks produce relatively few ears. The number of grains per ear is greater. Due to late blooming, the "Nong Nghiep" species is often harmed by "duc than" worms and the prevailing Lao-tian winds. Consequently, the proportion of dry ears and hollow grains is large.

Under identical conditions of weather and care, the "Nong Nghiep" I species does not withstand cold as well as the other two species, due to attacks by the "chiem lua" disease.

The "Nam Ninh" species: It multiplies extensively but slowly. The ears are short, having only a few grains. The weight per 1,000 grains is low, hence its yield is the lowest.

After three continuous years of investigation, the Thai Binh [work] Camp concluded that the "tra trung tu" gave the highest yield. Cooperatives also noticed that the "tra trung tu" species planted in the spring crop gave higher yields than other species. For the spring crop of 1963 the Dai Thanh (Ha Dong) Cooperative obtained 26.30 piculs per hectare for the "tra trung tu" species; the Hoang Xa (Ha Duong) Cooperative obtained 25.54 piculs; the Hau Thi (Ha Dong) Hau obtained 23.61 piculs. Compare these figures with yields of 23 piculs per hectare at the most for the "Nam Ninh" and "Nong Nghiep" I species.

<table>
<thead>
<tr>
<th>Year</th>
<th>Nam Ninh</th>
<th>&quot;Nong Nghiep&quot;</th>
<th>&quot;Tra Trung Tu&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>1961</td>
<td>22.72 ton</td>
<td>34.99 ton</td>
<td>35.26 ton</td>
</tr>
<tr>
<td>1962</td>
<td>37.55 ton</td>
<td>31.02 ton</td>
<td>31.09 ton</td>
</tr>
<tr>
<td>1963</td>
<td>24.73 ton</td>
<td>24.73 ton</td>
<td>27.78 ton</td>
</tr>
</tbody>
</table>

[Legend]: 1) Year; 2) "Nam Ninh" Species; 3) "Nong Nghiep" I species; 4) "Tra Trung Tu" Species; 5) Spring; 6) piculs.