'NARITA 1'

'NARITA 1' is a high-yielding and disease-resistant hybrid that is related, through its female grandparent, to a group of cooking and beer bananas called East African highland bananas (EAHB). 'NARITA 1' is named after NARO and IITA, the institutes that jointly developed the NARITA hybrids\(^1\).

Two crosses were performed to obtain 'NARITA 1'. The triploid EAHB cultivar 'Enzirabahima' was crossed with a wild source of disease resistance to produce a tetraploid. This tetraploid was then crossed with an improved diploid to produce the triploid hybrid 'NARITA 1' (see Breeding strategy below).

'NARITA 1' has been tested on station in Uganda. Its primary use is as a cooking type.

Contents

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Breeding strategy

![Breeding scheme for 'NARITA 1']

'NARITA 1' is a secondary triploid obtained by crossing a disease-resistant tetraploid (917K-2) with an improved diploid (9128-3)\(^2\).

The tetraploid female parent 917K-2 was obtained by crossing the triploid EAHB cultivar 'Enzirabahima' and Calcutta 4, a genebank accession of the diploid wild species Musa acuminata ssp. burmannica (Calcutta 4), 'Tjau Lagada' (AA) and 'Pisang Lilin' (AA).

Breeder's code

7798S-2

ITC code

ITC1828

Pedigree

'Enzirabahima' (AAA), Musa acuminata ssp. burmannica (Calcutta 4), 'Tjau Lagada' (AA) and 'Pisang Lilin' (AA)

'NARITA 1', its female parent 917K-2 and its female grandparent 'Enzirabahima'

Ploidy level

3x

Genome group

AAA

Status

Synthetic hybrid

Breeding institutes

NARO and IITA

See also on this website

External links
The diploid male parent 9128-3 (whose code used to be preceded by TMBx, for tropical *Musa* bananas\(^\text{[3]}\)) had been obtained by crossing two diploid cultivars: ‘Tjau Lagada’ and ‘*Pisang Lilin*’.

**Agronomic performance**

The following agronomic data were collected during a preliminary yield trial carried out by IITA and NARO at Namulonge in Central Uganda\(^\text{[2]}\):

<table>
<thead>
<tr>
<th>Traits</th>
<th>NARITA 1*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant height at flowering (cm)</td>
<td>370.0</td>
</tr>
<tr>
<td>Pseudostem girth at flowering (cm)</td>
<td>57.2</td>
</tr>
<tr>
<td>Time from flowering to harvest (days)</td>
<td>153.0</td>
</tr>
<tr>
<td>Bunch weight (kg)</td>
<td>13.4</td>
</tr>
<tr>
<td>Number of hands</td>
<td>9.5</td>
</tr>
<tr>
<td>Number of fingers</td>
<td>145.4</td>
</tr>
<tr>
<td>Fruit circumference (cm)</td>
<td>11.2</td>
</tr>
<tr>
<td>Fruit length (cm)</td>
<td>16.6</td>
</tr>
<tr>
<td>Number of functional leaves at flowering</td>
<td>9.7</td>
</tr>
<tr>
<td>Number of functional leaves at harvest</td>
<td>4.2</td>
</tr>
<tr>
<td>Height of tallest sucker at flowering (cm)</td>
<td>318.0</td>
</tr>
<tr>
<td>Height of tallest sucker at harvest (cm)</td>
<td>356.8</td>
</tr>
<tr>
<td>Youngest leaf spotted at flowering</td>
<td>9.4</td>
</tr>
<tr>
<td>Youngest leaf spotted at harvest</td>
<td>3.8</td>
</tr>
<tr>
<td>Survival rate (%)</td>
<td>100</td>
</tr>
</tbody>
</table>

* Data are averages for 10 plants evaluated over three crop cycles.

**Reaction to diseases and pests**

The scores for number of functional leaves and youngest leaf spotted at flowering and harvest indicate good resistance to black leaf streak.

**References**

1. IITA press release on the first ever high-yielding matooke hybrids.

**See also on this website**

- Photos of NARITA hybrids in Musarama
- Articles on NARITA hybrids in Musalit
Musapedia pages on NARITA hybrids:
Kabana 6H
Kiwangaazi
M9
NARITA 1
NARITA 10
NARITA 11
NARITA 12
NARITA 13
NARITA 14
NARITA 15
NARITA 16
NARITA 17
NARITA 18
NARITA 19
NARITA 2
NARITA 20
NARITA 21
NARITA 22
NARITA 23
NARITA 24
NARITA 25
NARITA 26
NARITA 27
NARITA 3
NARITA 4
NARITA 5
NARITA 6
NARITA 7
NARITA 8
NARITA 9

Musapedia pages on improved materials:
BITA-2
BITA-3
BRS Platina
CRBP-39
FHIA-01
FHIA-02
FHIA-03
FHIA-17
FHIA-18
FHIA-20
FHIA-21
FHIA-23
FHIA-25
FLHORBAN 916
External links

To browse accession-level information on 'NARITA 1' in MGIS
Official website of Uganda's National Agricultural Research Organization, NARO and its banana research program

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The original document is available at http://www.promusa.org/NARITA+1