'FLHORBAN 920' is a AAA dessert banana bred by CIRAD to be resistant to *Mycosphaerella fijiensis* and *Mycosphaerella musicola*. It is also slightly tolerant to *Radopholus similis* and resistant to *Pratylenchus coffeae*. Its shelf life is too short for the export market, but other features might appeal to domestic producers.

### Contents

- Breeding strategy
- Morphological and agronomic characteristics
- Host reaction to pests and diseases
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### Breeding strategy

'FLHORBAN 920' was produced by crossing an AA cultivar with a tetraploid (AAAA). The tetraploid parent was produced by doubling the genome of an AA cultivar using colchicine (a natural substance used to induce polyploidy in plant cells).

### Morphological and agronomic characteristics

'FLHORBAN 920' is taller than the Cavendish cultivar 'Grande Naine', but is slender and its bunch smaller. Nevertheless, the annual yield may be similar or higher as a result of the short interval between harvests (about 4 months). The hybrid is characterized by a high number of small fruits, whose skin is thinner than those of 'Grande Naine'. A panel of consumers appreciated its sweet and fruity taste. It was bred for the export market, but its shelf life and consumption life are too short.

The table below compares 'FLHORBAN 920' to 'Grande Naine' (CIRAD data collected in Guadeloupe):

<table>
<thead>
<tr>
<th>Traits</th>
<th>FLHORBAN 920</th>
<th>Grande Naine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant height (cm)</td>
<td>350</td>
<td>290</td>
</tr>
<tr>
<td>Plant girth (cm)</td>
<td>46</td>
<td>66</td>
</tr>
</tbody>
</table>
## Traits

<table>
<thead>
<tr>
<th>Trait</th>
<th>FLHORBAN 920</th>
<th>Grande Naine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robustness (girth / height x 100)</td>
<td>13</td>
<td>23</td>
</tr>
<tr>
<td>Number of cycles per year</td>
<td>2.8</td>
<td>2.1</td>
</tr>
<tr>
<td>Bunch weight (kg)</td>
<td>17</td>
<td>33</td>
</tr>
<tr>
<td>Number of hands in a bunch</td>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>Number of fingers in a bunch</td>
<td>200</td>
<td>230</td>
</tr>
<tr>
<td>Fruit length (mm)</td>
<td>160</td>
<td>250</td>
</tr>
<tr>
<td>Fruit diameter (mm)</td>
<td>29</td>
<td>34</td>
</tr>
<tr>
<td>Fruit weight (g)</td>
<td>90</td>
<td>160</td>
</tr>
<tr>
<td><strong>Optimum harvest stage</strong> (Cumulative temperature, degree-days)</td>
<td>950</td>
<td>900</td>
</tr>
<tr>
<td>Base temperature for harvest optimum stage (°C)</td>
<td>9</td>
<td>14</td>
</tr>
<tr>
<td>Flower relicts removal</td>
<td>easy</td>
<td>easy</td>
</tr>
<tr>
<td>Fruit falling when fully ripe</td>
<td>moderately</td>
<td>no</td>
</tr>
<tr>
<td>Fruit taste</td>
<td>sweet and slightly acid</td>
<td>sweet, typical banana</td>
</tr>
<tr>
<td>Fruit texture</td>
<td>firm</td>
<td>gluey, floury</td>
</tr>
<tr>
<td>Shelf life (days after climacteric induction)</td>
<td>4 - 8</td>
<td>4 - 9</td>
</tr>
<tr>
<td>Consumption life (days after climacteric induction)</td>
<td>5 - 13</td>
<td>5 - 11</td>
</tr>
<tr>
<td>Susceptibility to impacts</td>
<td>very</td>
<td>moderately</td>
</tr>
<tr>
<td>Tiger-skinned/spotted</td>
<td>yes, at a late stage</td>
<td>yes</td>
</tr>
<tr>
<td>Packing</td>
<td>not as easy</td>
<td>easy</td>
</tr>
</tbody>
</table>

## Host reaction to pests and diseases

'FLHORBAN 920' is resistant to *M. fijiensis* and *M. musicola*, the causal agents of black leaf streak and Sigatoka leaf spot respectively.

It has not been evaluated for its reaction against *Fusarium oxysporum f. sp. cubense*.

It is somewhat less susceptible to the nematode *R. similis* than Cavendish cultivars and tolerant to *P. coffeae*.

## Recommendations for cultivation

Unlike 'Grande Naine', 'FLHORBAN 920' can be cultivated in double rows to increase yield.

## References

Musapedia pages on FLHORBAN hybrids:
FLHORBAN 916
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
FLHORBAN 920
Formosana
GCTCV-105
GCTCV-119
GCTCV-218
Goldfinger
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
External links

To browse accession-level information on 'FLHORBAN 920' in MGIS

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The original document is available at http://www.promusa.org/FLHORBAN+920