'FLHORBAN 916' is a AAA dessert banana bred by CIRAD to be resistant to *Mycosphaerella fijiensis* and *Mycosphaerella musicola*. It is also tolerant to *Radopholus similis* and *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
- Recommendations for cultivation
- References
- See also on this website
- External links

Breeding strategy

'FLHORBAN 916' was produced by crossing an AA cultivar with a tetraploid (AAAA). The tetraploid parent was produced by doubling the genome of a AA cultivar using colchicine (a natural substance used to induce polyploidy in plant cells).

Morphological and agronomic characteristics

'FLHORBAN 916' is taller than the Cavendish cultivar 'Grande Naine', but it is more slender and the bunch is 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 short 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 916' to 'Grande Naine' (CIRAD data collected in Guadeloupe):

<table>
<thead>
<tr>
<th>Traits</th>
<th>FLHORBAN 916</th>
<th>Grande Naine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant height (cm)</td>
<td>320</td>
<td>290</td>
</tr>
</tbody>
</table>
### Traits

<table>
<thead>
<tr>
<th>Trait</th>
<th>FLHORBAN 916</th>
<th>Grande Naine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pseudostem girth (cm)</td>
<td>55</td>
<td>66</td>
</tr>
<tr>
<td>Robustness (girth / height x 100)</td>
<td>17</td>
<td>23</td>
</tr>
<tr>
<td>Number of cycles per year</td>
<td>2.9</td>
<td>2.1</td>
</tr>
<tr>
<td>Bunch weight (kg)</td>
<td>19</td>
<td>33</td>
</tr>
<tr>
<td>Number of hands in a bunch</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>Number of fingers in a bunch</td>
<td>160</td>
<td>230</td>
</tr>
<tr>
<td>Fruit length (mm)</td>
<td>200</td>
<td>250</td>
</tr>
<tr>
<td>Fruit diameter (mm)</td>
<td>32</td>
<td>34</td>
</tr>
<tr>
<td>Fruit weight (g)</td>
<td>110</td>
<td>160</td>
</tr>
<tr>
<td><strong>Optimum harvest stage</strong> (Cumulative temperature, degree-days)</td>
<td>650</td>
<td>900</td>
</tr>
<tr>
<td>Base temperature for harvest optimum stage (°C)</td>
<td>17</td>
<td>14</td>
</tr>
<tr>
<td>Flower relics removal</td>
<td>easy</td>
<td>easy</td>
</tr>
<tr>
<td>Fruit falling when fully ripe</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>Fruit taste</td>
<td>sweet and fruity</td>
<td>sweet, typical banana</td>
</tr>
<tr>
<td>Fruit texture</td>
<td>gluey, floury</td>
<td></td>
</tr>
<tr>
<td>Shelf life (days after climacteric induction)</td>
<td>3 - 7</td>
<td>4 - 9</td>
</tr>
<tr>
<td>Consumption life (days after climacteric induction)</td>
<td>4 - 7</td>
<td>5 - 11</td>
</tr>
<tr>
<td>Susceptibility to impacts</td>
<td>yes</td>
<td>moderately</td>
</tr>
<tr>
<td>Tiger-skinned/spotted</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Packing</td>
<td>easy</td>
<td>easy</td>
</tr>
</tbody>
</table>

### Host reaction to pests and diseases

'FLHORBAN 916' is resistant to *M. fijiensis* and *M. musicola*, 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 tolerant to the nematodes *R. similis* and *P. coffeae*.

### Recommendations for cultivation

Unlike 'Grande Naine', 'FLHORBAN 916' can be cultivated in double rows to increase yield.

### References

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Page 2 / 4
See also on this website

Musapedia pages on FLHORBAN hybrids:
FLHORBAN 916
FLHORBAN 920
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
External links

To browse accession-level information on 'FLHORBAN 916' in MGIS

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Page last modified on Wednesday, 26 July 2017 17:45:34 CEST by Inge Van den Bergh.
The original document is available at http://www.promusa.org/FLHORBAN+916