NIAB Artemisia development
2005 to 2010

1) Parent selection
3) Testing new crosses
4) Agronomy
5) Commercial seed production
6) Commercial seed use.
Establishment of Trials
8th June 2009
Testing new crosses
8th July 2009
Testing new crosses
7th Sept 2009
Harvesting trial plots
22nd Sept
Parent Line Improvement

Harvest in last week of the month
# 2006 selections

% Artemisinin

<table>
<thead>
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<tbody>
<tr>
<td>Parent</td>
<td>2007</td>
<td>2008</td>
<td>2009</td>
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<tr>
<td>1015</td>
<td>1.2</td>
<td>1.0</td>
<td>1.17</td>
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<tr>
<td>1001-9</td>
<td>1.1</td>
<td>1.05</td>
<td>1.3</td>
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<tr>
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<td>1.33</td>
<td>1.1</td>
<td>1.26</td>
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<td>1001-3</td>
<td>1.0</td>
<td>0.9</td>
<td>1.12</td>
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<tr>
<td>1001-1</td>
<td>0.95</td>
<td>1.0125</td>
<td>1.06</td>
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<tr>
<td>Average</td>
<td>1.116</td>
<td>1.0125</td>
<td>1.182</td>
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<td></td>
<td>100%</td>
<td>91%</td>
<td>106%</td>
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2009 parent results
Harvested 30/9/2009

% of Controls

100% = 1.6% artemisinin

Parents

Control  P9  P19  P20  P22  P23
Hybrid results in 2009

The graph shows the comparison of different hybrids with the control group. Each hybrid is represented by a bar, and the y-axis represents the percentage control, with 100% being equivalent to 1.6% artemisinin. The hybrids are labeled as NIAB1062, NIAB1104, NIAB1105, NIAB1111, NIAB1114, and NIAB1118. The graph indicates how each hybrid compares to the control in terms of percentage control.
Agronomy

- Germplasm
- Environment
- Growing systems
Commercial Seed Production
Commercial testing

- UK,
- Canada,
- Morocco,
- USA,
- Madagascar.
- Uganda, Zimbabwe, South Africa, Kenya
Frontier commercial production in Surrey

15th Sept 2008
Canada
Morocco
Washington State
Sept 11th
Madagascar 2010
Summary

• Continued parent and cross improvement

• Commercial varieties with seed production

• Commercial field production
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• the many colleagues at NIAB who have helped me with this project.
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