Clone Recommendation

Rubber Research Institute of Sri Lanka

Centennial Celebration
Clone Recommendation

Genetics and Plant Breeding Department
Rubber Research Institute Substation
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Revised in November 2013
1. **Clone recommendation for the Plantation Sector**  
   **(below 300 m altitude)**

   **Group I**

   Each clone to be planted up to a maximum of 10% of the total extent of the plantation to minimize the risk on sudden outbreak of diseases (*e.g.* Corynespora leaf fall)

   RRIC 102, RRIC 121, RRIC 130*, R里斯L 203, PB 260*

   **Group II**

   Each clone to be planted up to 3% of the total extent of the plantation.

   RRIC 133  R里斯L 201  R里斯L 2001  BPM 24  
   R里斯L 205  R里斯L 2003  PB 217*  
   R里斯L 206*  PB 235*  
   R里斯L 210  PB 28/59*  
   R里斯L 211*  
   R里斯L 217*  
   R里斯L 219

   **Group III**

   Each clone to be planted up to two hectares in a plantation.  
   (Estate/RRI collaborative clone trials)

   R里斯L 208  R里斯L Centennial 1  PB 255  
   R里斯L 2000  R里斯L Centennial 2  PR 255  
   R里斯L 2002  R里斯L Centennial 3  PR 305  
   R里斯L 2004  R里斯L Centennial 4  RRII 105  
   R里斯L 2005  R里斯L Centennial 5  RRIM 712  
   R里斯L 2006  
   R里斯L 2100

   * Clones to be tapped at 67%, *i.e.* S/2d3
2. **Clone recommendation for the Smallholder Sector**  
(below 300 m altitude)

Group (a.) RRIC 102, RRIC 121, RRISL 203

Group (b.) RRIC 100 - The clone is recommended only for non-traditional areas.

Group (c.) RRISL 2001 - This clone is recommended for holdings more than 5 ha. in extent and the area planted should not exceed 10% of the total extent of the holding.

3. **Clone recommendation for planting at high elevations**  
(above 300 m up to 900m)

Group (a) - RRIC 100, RRIC 1130*

Group (b) - RRIC 102, RRISL 206*

Each clone of the Group (b) should not exceed 5 ha. in a plantation.

1 Better not to plant wind prone areas.

* Clones to be tapped at 67%, i.e. S/2d3

**Note:**

- **RRIC 100**: The clone suitable for seed production - 1% of the total extent per year can be planted up to 10% of the total extent until the year 2020.

- **RRIC 121**: For the Plantation Sector - As in the case of RRIC 100, this clone has already been extensively planted during recent past. Therefore, you may refrain from planting the clone RRIC 121 until a reasonable clone balance is achieved.
• RRIC 121 and RRISL 203 should not be planted in humid pockets.

• RRIC 130 is prone to wind damage and should not be planted in areas with strong winds.

• Clones RRIC 130, RRISL 206, RRISL 211, RRISL 217, PB 217, PB 235, PB 28/59 and PB 260 should be tapped at 67% intensity i.e. S/2d3 until intensification.

• In the intermediate zone, planting may be extended to areas beyond 900m elevation on trial basis with the collaboration of RRISL.

• For clone RRIC 102, being very sensitive to Magnesium deficiency, application of additional 25% of Mg fertilizer is recommended as an insurance dose.

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**RRISL recommendation for usage of clones**

At present, the clonal composition in rubber plantations is rather poor. It is comprises mainly three clones i.e. PB 86, RRIC 100 and RRIC 121. However, maintenance of genetic diversity or good clone balance is a must to protect the industry against possible disasters associated with disease out break. Therefore, it is strictly advised to use a large number of clones as much as possible with the guidelines given below.

<table>
<thead>
<tr>
<th>Clones</th>
<th>Ideal composition to your estate</th>
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<tbody>
<tr>
<td><strong>Group I</strong></td>
<td>50% of the total extent by 5 clones in Group I</td>
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<tr>
<td>5 clones</td>
<td>Each clone 10%</td>
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<tr>
<td><strong>Group II</strong></td>
<td>42% of the total extent by 14 clones in Group II</td>
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<tr>
<td>14 clones</td>
<td>Each clone 3%</td>
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<tr>
<td><strong>Group III – ECT/RRI</strong></td>
<td>8% of the total extent by 16 clones in Group III</td>
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<tr>
<td>17 clones</td>
<td>Each clone 2 ha.</td>
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