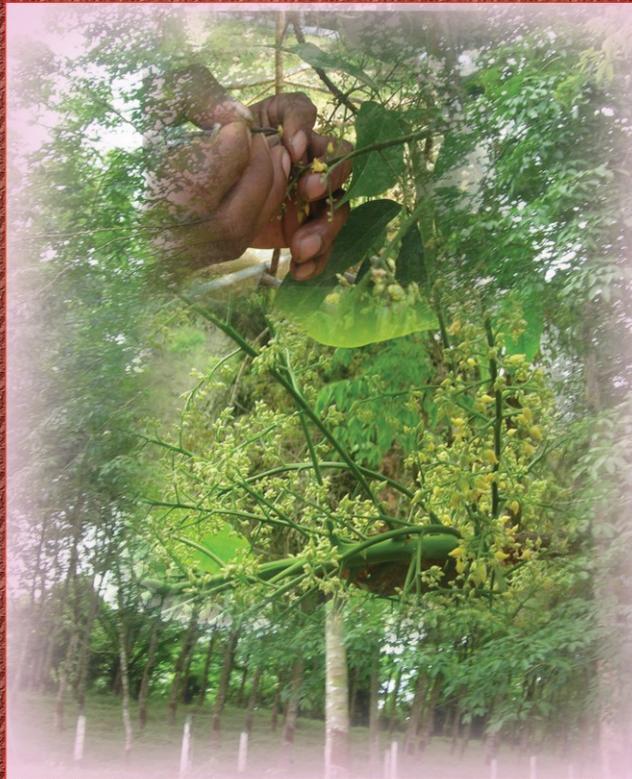


Clone Recommendation



Rubber Research Institute
of Sri Lanka



Centennial Celebration



Clone Recommendation

***Genetics and Plant Breeding Department
Rubber Research Institute Substation
Nivitigalakele - Matugama
Sri Lanka***

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*, RRISL 203, PB 260*

Group II

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

| | | | |
|----------|------------|------------|-----------|
| RRIC 133 | RRISL 201 | RRISL 2001 | BPM 24 |
| | RRISL 205 | RRISL 2003 | PB 217* |
| | RRISL 206* | | PB 235* |
| | RRISL 210 | | PB 28/59* |
| | RRISL 211* | | |
| | RRISL 217* | | |
| | RRISL 219 | | |

Group III

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

| | | |
|------------|--------------------|----------|
| RRISL 208 | RRISL Centennial 1 | PB 255 |
| RRISL 2000 | RRISL Centennial 2 | PR 255 |
| RRISL 2002 | RRISL Centennial 3 | PR 305 |
| RRISL 2004 | RRISL Centennial 4 | RRII 105 |
| RRISL 2005 | RRISL Centennial 5 | RRIM 712 |
| RRISL 2006 | | |
| RRISL 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.

RRISL recommendation for usage of clones

At present, the clonal composition in rubber plantations is rather poor. It 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 outbreak. Therefore, it is strictly advised to use a large number of clones as much as possible with the guidelines given below.

| Clones | Ideal composition to your estate |
|---|---|
| Group I 5 clones Each clone 10% | : 50% of the total extent by 5 clones in Group I |
| Group II 14 clones Each clone 3% | : 42% of the total extent by 14 clones in Group II |
| Group III – ECT/RRI 17 clones Each clone 2 ha. | : 8% of the total extent by 16 clones in Group III |