Clone Recommendation

Rubber Research Institute
of Sri Lanka

1909 – 2009
Centennial Celebration

Clone Recommendation

Genetics and Plant Breeding Department
Rubber Research Institute Substation
Nivitigalakele - Matugama
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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 out break 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 [1]130*

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 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.

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