

Yield Profiles of Outstanding Clones



**Rubber Research Institute
of Sri Lanka**



Centennial Celebration

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Outstanding Clones bred at the Rubber Research Institute of Sri Lanka

Rubber Research Institute of Sri Lanka has produced a number of out standing clones during the recent past with the productivity touching a record high of 3,000 kg/ha/y. The objective of document is to highlight the potential and commercial yields of some of these clones.

It is also emphasized that the g/t/t (grams per tree per tapping) values and YPH (Yield per hectare) stated here can only be achieved if the vegetative growth of the tree is satisfactory. Being a high yielding clone has little effect if the growth conditions and the quality of the plants are poor.

YPH stated here have been calculated, with the assumptions that the stand per hectare is 450 with 140 tapping days (d₃ clones have only 92 days) and adoption of RRISL recommendations for the frequency and quality of tapping.

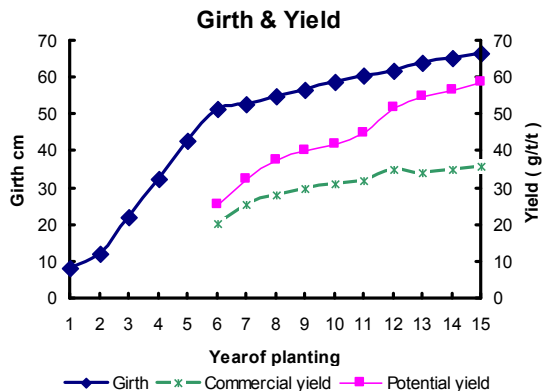
The merchantable timber volume is calculated using RRIC 100 as the reference. However, the total timber volume is much higher than merchantable timber volume.

Other agromanagement practices such as weeding manuring mulching etc. need to be maintained according to the RRISL recommendations in order to achieve the high productivity performance of these clones.

RRIC 100

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Girth (cm)	8.2	12.1	21.9	32.6	42.9	51.4	52.7	54.8	56.7	58.7	60.4	61.8	63.9	65.1	66.5

Yield		1	2	3	4	5	6	7	8	9	10
	Potential g/t/t	25.4	32.5	37.6	40	42	45	53.7	54.8	56.7	58.7
	Commercial g/t/t	20.4	25.5	28	30	31	32	35	34	35	36.5
	y/t/annum (kg)	3.4	4.2	4.62	4.9	5.1	5.2	5.7	5.6	5.7	6.0



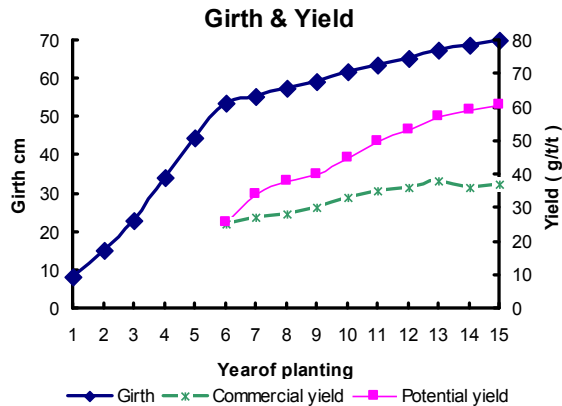
Average Potential (YPH) - 2812 kg
 Average Commercial (YPH) - 1937 kg
 Merchantable timber volume - 0.271 m³/tree

RRIC 102

Year

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Girth (cm)	8.2	15	23.0	34	44.6	53.6	55.5	57.5	59.3	61.9	63.5	65.4	67.2	68.5	70.2

Yield		1	2	3	4	5	6	7	8	9	10
	Potential g/t/t	25.7	34	38	40	45	50.	53.5	57.5	59.3	60
	Commercial g/t/t	25	27	28	30	33	35	36	38	36	37
	y/t/annum (kg)	4.1	4.5	4.6	5.0	5.4	5.8	5.9	6.3	5.9	6.1



Average Potential (YPH) - 2917 kg
 Average Commercial (YPH) - 2048 kg
 Merchantable timber volume - 0.271 m³/tree

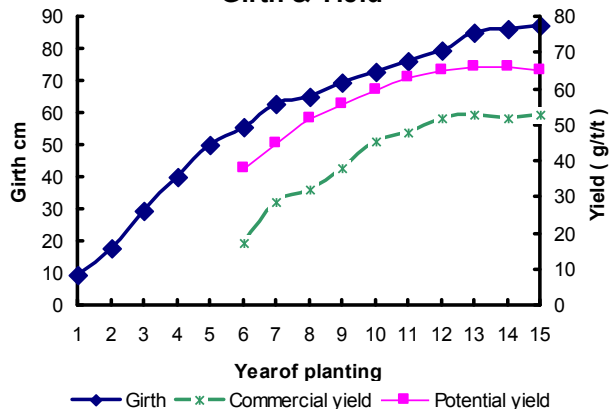
RRIC 121

Year

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Girth (cm)		9.2	18	29.2	39.8	49.8	55.8	62.8	64.9	69.7	73.0	76.1	79.6	84.8	85.9	87.2

Yield		1	2	3	4	5	6	7	8	9	10
	Potential g/t/t	37.9	45	52	56	60	63	65	66	66	65
	Commercial g/t/t	17.5	28.5	32	38	45.5	48	52	53	52	53
	y/t/annum (kg)	2.9	4.7	5.3	6.3	7.5	7.9	8.6	8.7	8.6	8.7

Girth & Yield

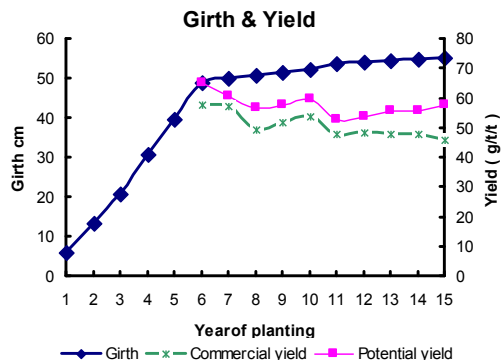


Average Potential (YPH) - 3628 kg
 Average Commercial (YPH) - 2643 kg
 Merchantable timber volume - 0.406 m³/tree

RRIC 130

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Girth (cm)	6	13.5	20.7	30.7	39.6	49	50	50.8	51.5	52.3	53.7	54	54.5	54.8	55.2

Yield (S2/d3)		1	2	3	4	5	6	7	8	9	10
	Potential g/t/t	65	60.5	57	58	60	53	54	56	56	58
	Commercial g/t/t	43.9	57.4	49.5	52	54	48	48.6	48	48	46
	y/t/annum (kg)	4.8	6.3	5.4	5.7	5.9	5.2	5.3	5.3	5.3	5.0



Average Potential (YPH) - 2857 kg
 Average Commercial (YPH) - 2452 kg
 Merchantable timber volume - 0.119 m³/tree

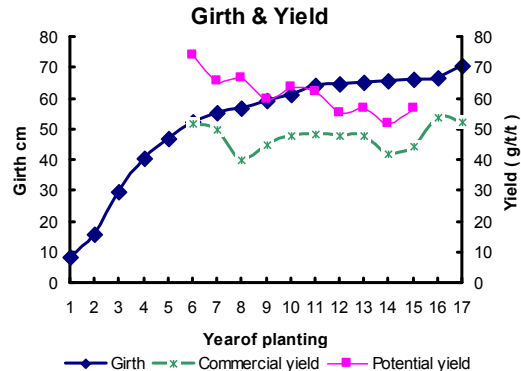
Tapping system – ½ S d/3

RRISL 203

	Year																
Girth (cm)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	8.5	16	29.8	40.5	46.9	52.2	55.5	56.6	59.5	61.2	64.3	64.5	65	65.8	66.2	66.8	70.5

Yield		1	2	3	4	5	6	7	8	9	10	11	12
	Potential g/t/t	74	65.8	66.6	59.6	63.7	62	55.4	57	52	57		
	Commercial g/t/t	52	50	40	45	48	48.5	48	48	42.0	44.3	54	52.3
	y/t/annum (kg)	8.6	8.2	6.6	7.4	7.9	8.0	7.9	7.9	6.9	7.3	8.9	8.6

Sites: Dartonfield, Kuruwita sub-station, Godagama smallholding, Kegalle smallholding



Average Potential (YPH) - 3863 kg
 Average Commercial (YPH) - 3004 kg
 Merchantable timber volume - 0.149 m³/tree

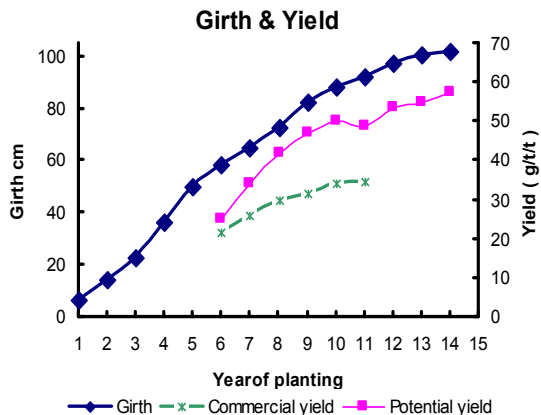
RRISL 205

Year

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Girth (cm)	6.6	14.3	22.8	36.6	49.8	58.6	64.6	72.8	82.5	88.4	92	97.5	100.5	102

Yield		1	2	3	4	5	6	7	8	9
	Potential g/t/t	24.9	34.1	41.7	47	50	49	53.6	55	57.5
	Commercial g/t/t	21.4	26	30	31.5	34	34.5			
	y/t/annum (kg)	3.5	4.3	5.0	5.2	5.6	5.7			

Sites: Pallegoda estate, Vogan Estate, Neuchatel estate



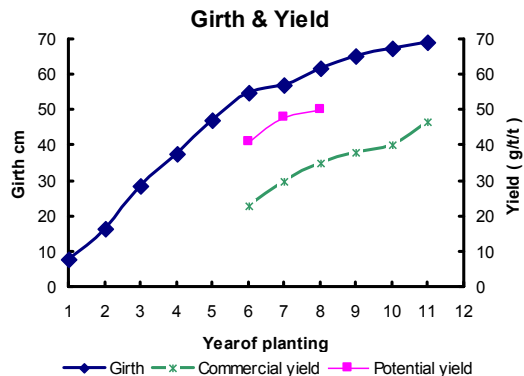
Average Potential (YPH) - 2890 kg
 Average Commercial (YPH) - 1863 kg
 Merchantable timber volume - 0.430 m³/tree

RRISL 206

	Year										
	1	2	3	4	5	6	7	8	9	10	11
Girth (cm)	7.9	16.3	28.4	37.5	47.3	55	57.1	61.6	65.4	67.6	69

Yield		1	2	3	4	5	6
	Potential g/t/t	38.7	52.3	47.9			
	Commercial g/t/t	23	32.5	32	33	47.5	46.5
	y/t/annum (kg)	3.8	5.4	5.3	5.4	7.8	7.6

Sites: Pallegoda estate, Vogan estate, Salawa estate



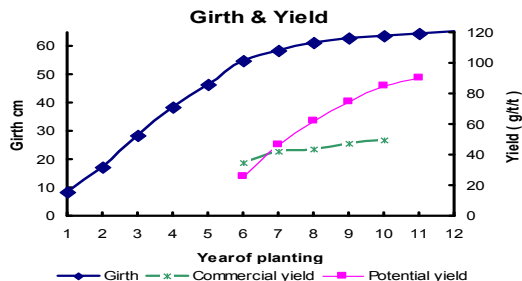
Average Potential (YPH) - 2917 kg
 Average Commercial (YPH) - 2252 kg
 Merchantable timber volume - 0.230 m³/tree

RRISL 211

	Year											
	1	2	3	4	5	6	7	8	9	10	11	12
Girth (cm)	8.5	17.3	28.5	38.7	46.4	55	58.4	61.2	62.8	63.7	64.5	65.5

Yield		1	2	3	4	5	6
	Potential g/t/t	26.2	46.8	62	75	85	90
	Commercial g/t/t	35	42	44	47.5	50	
	y/t/annum (kg)	5.7	6.9	7.2	7.8	8.2	

Sites : Galewatta



Average Potential (YPH) - 4043 kg
 Average Commercial (YPH) - 2753 kg
 Merchantable timber volume - 0.271 m³/tree

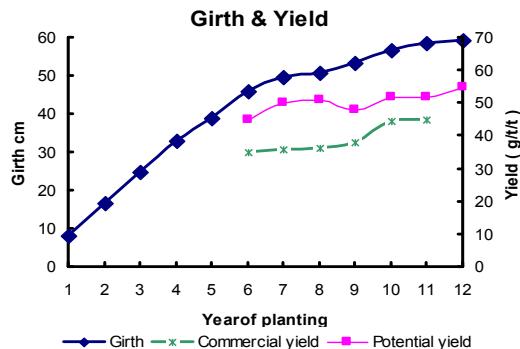
RRISL 217

Year

	1	2	3	4	5	6	7	8	9	10	11	12
Girth (cm)	8	16.6	25	32.9	39	45.8	49.6	50.9	53.4	56.7	58.4	59.3

Yield		1	2	3	4	5	6	7
	Potential g/t/t	45	50	52	48	52	52	55
	Commercial g/t/t	35	36	36.4	38	44.5	45	
	y/t/annum (kg)	3.85	3.9	4.0	4.1	4.89	5.0	

Sites: Kuruwita sub station, Vorgan estate



Average Potential (YPH) - 2503 kg
 Average Commercial (YPH) - 1937 kg
 Merchantable timber volume - 0.106 m³/tree

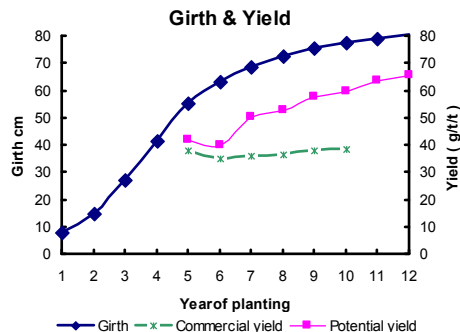
Tapping system – ½ S d/3

RRISL 2001

	Year											
Girth cm	1	2	3	4	5	6	7	8	9	10	11	12
	8	14.9	27	41.4	55.5	63.2	68.7	72.5	75.4	77.5	79	80.5

Yield		1	2	3	4	5	6	7	8
	Potential g/t/t	42.0	40.0	50.5	53.0	57.9	60.0	63.7	65.5
	Commercial g/t/t	37.9	35.0	36.0	36.4	38.0	38.4		
	y/t/a (kg)	6.2	5.7	5.9	6.0	6.2	6.3		

Sites: Pallegoda estate, Nivitigalakele, Dosert division , Clyde estate



Average Potential YPH - 3407 kg
 Average Commercial YPH - 2328 kg
 Merchantable timber volume - 0.326 m³/tree

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Nivithigalakele
Matugama