



**MONITORING REPORT OF PRODUCTION AND
HARVESTING YEAR 2017
Second Quarter**

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CREA: MT-024685

CONFEA 121.050.661-0

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1. INTRODUCTION

The study area has 8,460.7463 ha, in which great part has *Tectona grandis* plantation. Currently, the stands of the Pimental and Buriti project are in the exploration phase, in which trees are felled and sectioned according to client demands. After, the cubing of logs take place, followed by log plating and classification in relation to their diameter, and lastly, they are grouped according to their destination.

In this context, the objective of this study is to present the results obtained from the Second quarter of the year 2017, in the Pimental and Buriti project, by presenting volumetrics collected by the company, as well as to determine the accuracy of the surveys carried out in the year.

2. GENERAL INFORMATION

2.1. Owner Identification

Company Name: Floresteca S/A
Address: Rodovia BR-163, Km 510 – Bairro: Bauxi (Fazenda Panflora), Rosário Oeste - MT
CNPJ: 74.301.482/0007-41
I.E.: 13.262.092-8
Contact: Cassiano Sasaki
E-mail: cassiano.sasaki@floresteca.com.br

2.2. Identification of Applicant

Company Name: Floresteca S/A
Address: Rodovia BR-163, Km 510 – Bairro: Bauxi (Fazenda Panflora), Rosário Oeste - MT
CNPJ: 74.301.482/0007-41
I.E.: 13.262.092-8

2.3. Identification of the Technical Responsible

Name: Frederico Tupinambá Simões
Address: Rua Batista das Neves, 585 – Centro – Ed. TopGeo – Sala 2 - Cuiabá – MT – CEP: 78.005-190
ID: 012.665.256-29
Qualification: Forester
Class Council n.º: 121050661-0
Phone: +55(65)98157-4874
E-mail: fredericotupinamba@hotmail.com

2.4. Identification of the Executor

Name: Augusto Cesar Braga Louzada
Address: Rua Batista das Neves, 585 – Centro – Ed. TopGeo – Sala 2 – Cuiabá – MT – CEP: 78.005-190
ID: 028.067.691-32
Qualification: Forester
Class Council n.º: 121263227-3
Phone: (65) 98116-5924
E-mail: gutolouzada@hotmail.com

2.5. Property Identification

Name: PANFLORA FARM
City: Rosário Oeste - MT

Locality:

The Project area is located in the city of Rosário Oeste, on the right side of Federal Highway – BR-364, 26.8 km from Rosario Oeste in the direction of the capital Cuiabá. according to the access sketch shown in Figure 1.

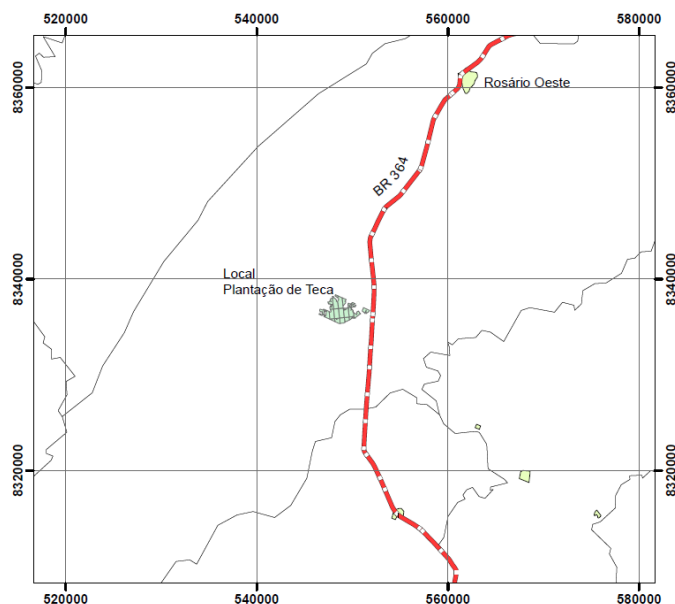


Figure 1. Location of the farm PanFlora, municipality of Rosário Oeste MT.

2.6. UTM Coordinates of the Evaluated Field

Chart 1 – Central Coordinates of Evaluated Fields.

Project	Field	East (x)	North (y)	Zone
Pimental	05	542159	8329696	21
Pimental	06	541837	8329263	21
Pimental	07	541449	8328903	21
Pimental	08	540988	8328631	21
Pimental	09	540727	8328271	21
Pimental	28	541826	8329984	21
Buriti	01	553027	8319592	21

2.7. Lots Evaluated

Chart 2 - Lots evaluated in the second quarter of 2017.

Project	Field	Area	Number of lots evaluated
Pimental	05	28,13	237, 238, 247, 248, 249, 254, 255, 256, 266 e 282
Pimental	06	36,17	335, 336, 347, 350, 356, 371, 373, 375, 392 e 403
Pimental	07	30,13	406, 407, 414 , 416, 417, 482, 483, 484, 494 e 505
Pimental	08	31,43	510, 511, 524, 525, 526, 538, 544 e 546.
Pimental	09	17,00	614, 615, 628, 629 e 630
Pimental	28	9,33	-
Buriti	01	56,77	218, 489 e 722

3. METHODOLOGY

COLLECTION OF DATA

The process for collecting the information was based on the following steps:

Planning:

In the second quarter of 2017, 7 blocks were audited, of which 6 were from the pimental project and 1 from the Buriti project.

Number of parcel:

A total of 46 lots were randomly selected to represent the projects' plots during the second quarter of 2017.

For lumber destined for sawmills that did not form lots, we measured the wood stacks of the above-mentioned fields on the terraces and on some trucks together with the Floresteca team, on the days when our team was in the Pimental project and Buriti.

Measurements:

A total of 46 lots were measured for the project, with a total of 2,623.00 wood logs. (Photos Annex I).

Table 1 - Number of lots and number of logs.

Class	Nº of Lots	Nº of Logs
Long	42	2,106.00
20-30	03	392.00
25-30	01	125.00
TOTAL	46	2,623.00

3.1. DATES OF VISITS

Dates for indicative technical visits to reports delivered in the second quarter of 2017.

2017

March	10, 20 and 21
April	06, 13 and 18
May	03, 11, 17 and 25
June	07 and 09

4. PRODUCTIVITY EVALUATION

4.1. Harvest Data per Diameter Class

Table 2 shows the results of the volumes loaded by diameter class for the fields inspected in the second quarter of 2017 of the Pimental and Buriti project, where the diameter class of 25 to 30 centimeters obtained a larger volume loaded, followed by classes of 20 to 30, 35 to 40, 30 to 35, 20 to 25 and greater than 40 centimeters in diameter, totaling a volume of **11,203.44** cubic meters of exported wood.

Table 2 – Harvesting Data per diameter class (Export).

EXPORT				
Project	Year	Area (ha)	Diameter class	Volume (m³)
Pim/Bur	1995	208.96	20-30	1,526.27
			20-25	1,193.18
			25-30	5,364.64
			30-35	1,246.92
			35-40	1,483.15
			> 40	389.28
TOTAL				11,203.44

For sawmills, three diameters classes were obtained, totaling the volume of **1,886.52** cubic meters.

Table 3 - Harvesting Data per diameter class (Domestic market).

SAWMILLS				
Project	Year	Area (ha)	Diameter Class	Volume (m³)
Pim/Bur	1995	208.96	15-25	1,123.00
			25-30	436.44
			30-35	326.77
TOTAL				1,886.52

5. EVALUATION OF AUDITED VOLUMES

A total of 46 lots were compared relating the length and circumference. Table 4 shows the results of the volumes obtained by the company and the volumes obtained by the audit.

Table 4 – Comparison of Volumes.

Project	Year	Area (ha)	Class of Diameter	Volume (m³)	
				Company	Audit
Pim/Bur	1995	208.96	Long	1,024.905	1,033.01
			20 – 30	72.81	71.777
			25 - 30	24.16	24.421
TOTAL				1,121.875	1,129.208

5.1. Statistical analysis of data

To compare and measure the lengths and circumferences of the wood logs, 46 lots were selected to verify that they are being correctly calibrated.

The Analysis of Variance and the Tukey Test were applied by class of diameter in the comparison of the volumes supplied by the company with the one audited.

Table 5 - Statistical analysis of the blocks by diameter class.

STATISTICAL ANALYSIS								
Project	Year	Field	Area (ha)	Class of Diameter	F tabled	F calculated		Coefficient of variation (%)
Pim	1995	05	28.13	Long	3.84	0.0991	ns	27.60
Pim	1995	06	36.17	Long	3.89	0.0159	ns	20.84
Pim	1995	07	30.13	Long	3.89	0.1347	ns	20.14
				25-30	3.85	0.6489	ns	10.14

Pim	1995	08	31.43	Long	3.87	1.4592	ns	19.15
Pim	1995	09	17.00	Long	3.86	0.9869	ns	20.77
Bur	1995	01	56.77	Semi-Long	3.84	2.1808	ns	13.76

As can be seen, the F value Calculated in all classes is less than the Tabulated F. Therefore, the numerical differences observed between the means of the volumes in the treatments are not statistically significant. Thus, the average of the volumes obtained by the company in the lots do not have significant differences compared to the audited one.

6. CONCLUSION

After the standardization work in the lots during the second quarter of 2017 of the Pimental and Buriti project, it was verified that the numerical differences between the averages of the volumes in the treatments are not significant. Thus, it is observed that the employees of the company have been doing a good job in terms of precision in terms of measures of length, circumference and formation of lots for export.

In the classes of 15 to 25, 25 to 30 and 30 to 35 centimeters of diameter destined to sawing, all the waybill for validation of the total volume were analyzed and checked.

With the data obtained from the audit, in comparison with the data provided by the company, all timber collected and loaded on the second quarter of 2017 from the stands analyzed were correctly measured in volume and quality, as this audit could verify.

Cuiabá, August 03th 2017.



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ATTACHMENT I – PHOTOGRAPHIC REPORT

