MONITORING REPORT OF PRODUCTION AND HARVESTING YEAR 2017
Third Quarter

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CREA: MT-024685
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SUMMARY

1. INTRODUCTION 3
2. GENERAL INFORMATION 4
2.1. Owner Identification 4
2.2. Identification of Applicant 4
2.3. Identification of the Technical Responsible 4
2.4. Identification of the Executor 4
2.5. Property Identification 4
2.6. UTM Coordinates of the Evaluated Field 6
2.7. Lots Evaluated 6
3. METHODOLOGY 7
3.1. DATES OF VISITS 7
4. PRODUCTIVITY EVALUATION 8
4.1. Harvest Data per Diameter Class 8
5. EVALUATION OF AUDITED VOLUME 9
5.1. Statistical analysis of data 9
6. CONCLUSION 11
ATTACHMENT I 12

TABLES LIST

Table 1 – Number of lots and number of logs.....7

Table 2 – Harvesting Data per diameter class (Export).....08

Table 3 – Harvesting Data per diameter class (Domestic market).....08

Table 4 – Comparison of Volumes.....09

Table 5 – Statistical analysis of the blocks by diameter class.....09

1. INTRODUCTION

The study area has 8,460.7463 ha, in which great part has *Tectona grandis* platation. 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 third 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 and Jangada - 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.

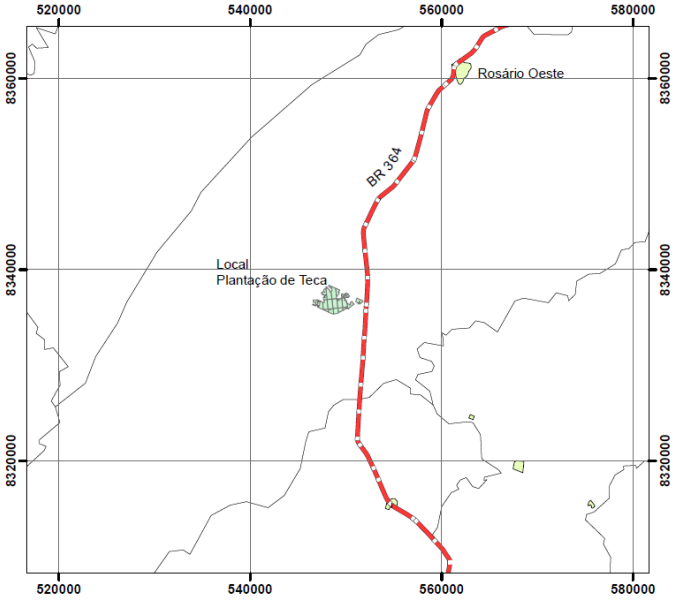

Figure 1. Location of the farm PanFlora, municipality of Rosário Oeste MT.

Locality: The Buriti Project area is located in the municipality of Jangada-MT, on the right bank of BR 364, 4 km from the municipal headquarters in the direction Jangada à Rosario Oeste, according to the access sketch shown in Figure 2.

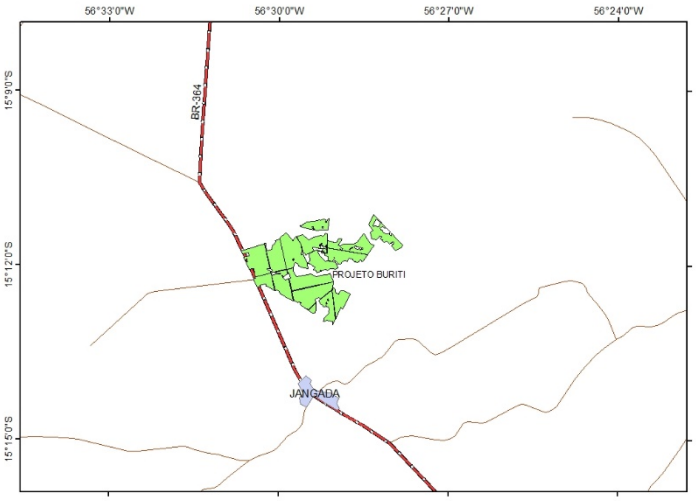

Figure 2. Location of the farm Buriti, municipality of Jangada MT.

2.6. UTM Coordinates of the Evaluated Field

Chart 1 – Central Coordinates of Evaluated Fields.

Project	Field	East (x)	North (y)	Zone
Pimental	10	540267	8327789	21
Pimental	11	544627	8329616	21
Pimental	12	544145	8329508	21
Pimental	13	543764	8329254	21
Pimental	19	544159	8328686	21
Pimental	20	544681	8329167	21
Buriti	02	553603	8319684	21
Buriti	13	555691	8319831	21
Buriti	14	555859	8320079	21

2.7. Lots Evaluated

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

Project	Field	Area	Number of lots evaluated
Pimental	10	33,69	641, 646, 682, 683, 684, 696, 734 e 735.
Pimental	11	15,45	738, 745, 746, 747 e 752.
Pimental	12	35,81	860, 861, 862, 863, 864, 865, 898, 899 e 905.
Pimental	13	50,16	926,934, 985, 990, 991, 993, 1023, 1024, 1028 e 1032.
Pimental	19	13,39	1171.
Pimental	20	1,84	-
Buriti	02	42,5	724, 725, 726 e 727.
Buriti	13	38,48	980.
Buriti	14	41,64	216.

3. METHODOLOGY

COLLECTION OF DATA

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

Planning:

In the third quarter of 2017, 9 blocks were audited, of which 6 were from the pimental project and 3 from the Buriti project.

Number of parcel:

We randomly selected 39 lots to represent the fields throughout the year 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 and Buriti project.

Measurements:

A total of 39 lots were measured for the fields of the Pimental and Buriti projects, with a total of 2,910 logs. (Photos Annex I).

Table 1 - Number of lots and number of logs.

Class	N° of Lots	N° of Logs
Semi-Long	07	869
Long (20-25)	10	788
Long (25-30)	21	1,175
35-40	01	78
TOTAL	**39**	**2,910**

3.1. DATES OF VISITS

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

2017	
June	07, 09, 14 and 28
July	13, 17, 24 and 31
August	10, 24 and 31
September	06 and 21

4. PRODUCTIVITY EVALUATION

4.1. Harvest Data per Diameter Class

Table 2 shows the results of the volumes loaded by diameter class for the blocks of the third 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 25, 20 to 30, 35 to 40, 30 to 35 and greater than 40 centimeters in diameter, totaling a volume of **9,799.57** 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**	**272.96**	20-30	1,972.73
			20-25	2,512.82
			25-30	2,913.35
			30-35	776.18
			35-40	1,460.30
			> 40	146.19
TOTAL				**9,799.57**

For sawmills, four diameters classes were obtained, totaling the volume of **2,951.57** cubic meters.

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

SAWMILLS				
Project	**Year**	**Area (ha)**	**Diameter Class**	**Volume (m³)**
Pim/Bur	**1995**	**272.96**	15-25	1,679.81
			25-30	1,007.9
			30-35	241.08
			35-40	23.60
TOTAL				**2,951.57**

5. EVALUATION OF AUDITED VOLUME

A total of 39 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	272.96	Semi-Long (20-30)	170.49	170.252
			Long (20-25)	244.716	243.925
			Long (25-30)	512.907	514.331
			35-40	24.31	24.46
TOTAL				**952.418**	**952.972**

5.1. Statistical analysis of data

To compare and measure the lengths and circumferences of the wood logs, 39 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.

ANALISE ESTATISTICA								
Project	Year	Field	Area (ha)	Class of Diameter	F tabled	F calculated		Coefficient of variation (%)
Pim	1995	10	33,69	Long (25-30)	3,86	0,1483	ns	21,65
Pim	1995	11	15,45	Long (20-25)	3,85	0,0869	ns	14,54
				Long (25-30)	3,87	0,4761	Ns	14,53

Pim	1995	12	35,81	Long (20-25)	3,84	0,3711	ns	17,35
				Long (25-30)	3,85	0,0334	ns	17,96
Pim	1995	13	50,16	Long (20-25)	3,86	0,2249	ns	18,81
				Long (25-30)	3,87	0,0724	ns	16,25
				Semi-Long (20-30)	3,86	0,0218	ns	12,08
				35-40	3,86	0,0640	ns	15,08
Pim	1995	19	13,39	Long (20-25)	3,86	0,2618	ns	18,28
Bur	1995	02	42,5	Semi-Long (20-30)	3,84	0,0501	ns	14,60
Bur	1995	13	38,48	Semi-Long (20-30)	3,84	0,0398	ns	10,39
Bur	1995	14	38,48	Semi-Long (20-30)	3,85	0,2052	ns	14,45

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

According to the items verified during the audit, it can be seen that the company Floresteca S/A is a company well-structured to control its clearcutting and harvesting processes.

After the standardization work in the lots during the third 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, 30 to 35 and 35 to 40 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 third quarter of 2017 from the stands analyzed were correctly measured in volume and quality, as this audit could verify.

Cuiabá, October 30th 2017.

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ATTACHMENT I – PHOTOGRAPHIC REPORT