MONITORING REPORT OF PRODUCTION AND HARVESTING YEAR 2019
Fourth Trimester

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CREA: MT-024685
CONFEA 121.050.661-0

SUMMARY

TABLES LIST

1. INTRODUCTION

Currently, the Cassange and São Judas Tadeu projects 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 fourth trimester of the year 2019, in the São José da Canastra and Capim Branco 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:	TRC AGROFLORESTAL LTDA
Address:	Av. Castelo Branco, 272, sala 01, Bairro São Miguel, Cáceres – MT.
CNPJ:	06.697.090/0001-06
I.E.:	13.271.007-2

2.3. Identification of the Technical Responsible

Name:	Frederico Tupinambá Simões
Address:	Rua Batista das Neves, 585 – Centro – Ed. TopGeo – Sala 5 - 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 5 – Cuiabá – MT – CEP: 78.005-190
ID:	028.067.691-32
Qualification:	Forester
Class Council n.º:	121263227-3
Phone:	+55(65) 98116-5924
E-mail:	gutolouzada@hotmail.com

2.5. Property Identification

Name:	São José da Canastra Project And Capim Branco Project
City:	Rosário Oeste – MT

Locality: The Project area is in the municipality of Rosário Oeste - MT, on the left side of the local road, approximately 7 km from the municipal headquarters of Rosário Oeste MT. as shown in Figure 1.

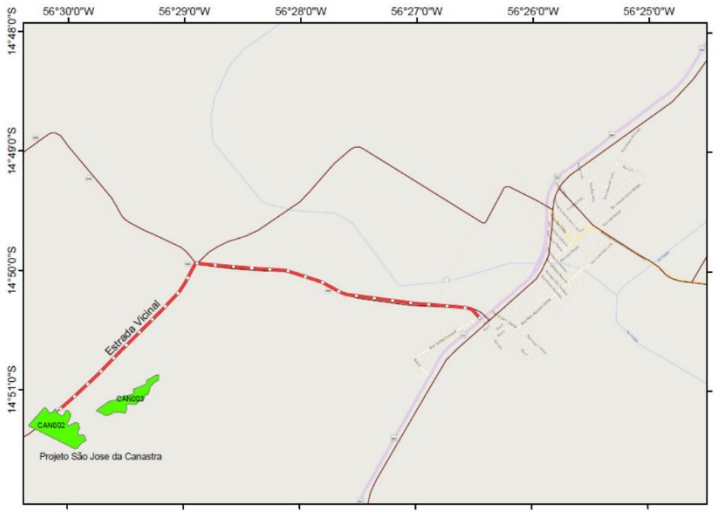

Figure 1. Location of the São José da Canastra project, municipality of Rosário Oeste MT.

Locality: The Project area is in the municipality of Rosário Oeste - MT, on the right bank of the local road, approximately 7 km from the municipal headquarters of Rosário Oeste MT. as shown in Figure 2.

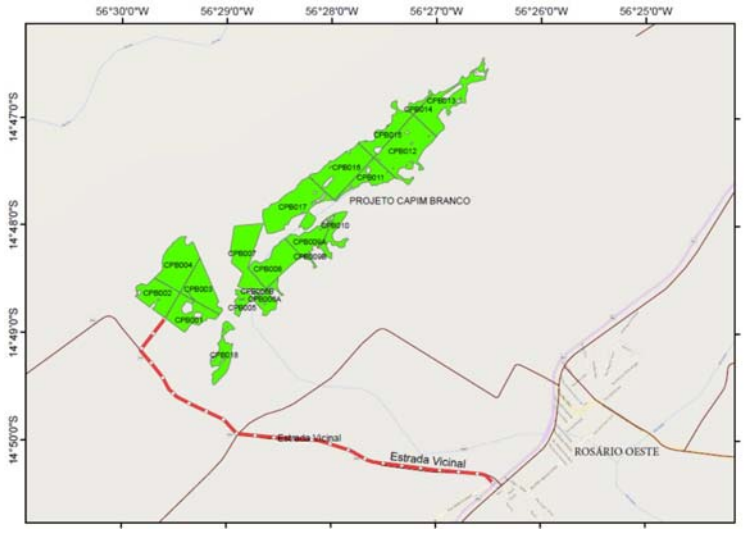

Figure 2. Location of the Capim Branco project, municipality of Rosário Oeste MT.

2.6. UTM Coordinates of the Evaluated Field

Chart 1 – Central Coordinates of Evaluated Fields.

Project	Field	East (x)	North (y)	Zone
São José da Canastra	02	21L 553574	8357651 UTM	21
São José da Canastra	03	21L 554709	8358040 UTM	21
Capim Branco	02	21L 554448	8362531 UTM	21

2.7. Lots Evaluated

Chart 2 - Lots evaluated in the fourth trimester of 2019.

Project	Field	Area	Number of lots evaluated
São José da Canastra	02	28.08	1566, 1579, 1581, 1582 e 1583.
São José da Canastra	03	16.53	1478, 1479, 1480, 1481 e 1501.
Capim Branco	02	27.18	1607, 1620, 1628 e 1629.

3. METHODOLOGY

COLLECTION OF DATA

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

Planning:

In the fourth trimester of 2019, 3 fields were audited, 2 from the São José da Canastra project and 1 from the Capim Branco Project.

Number of parcel:

10 lots were randomly selected to represent the fields of the São Jose da Canastra project, and 4 lots of the Capim Branco project.

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 São José da Canastra project and Capim Branco.

Measurements:

A total of 14 lots were measured for the project, with a total of 719.00 wood logs. (Photos Annex I).

Table 1 - Number of lots and number of logs.

Class	N° of Lots	N° of Logs
(20-25) Long	03	162
(25-30) Long	11	557
TOTAL	**14**	**719**

3.1. DATES OF VISITS

Dates for indicative technical visits to reports delivered in the fourth trimester of 2019.

2019

September	30.
October	11 and 24.

4. PRODUCTIVITY EVALUATION

4.1. Harvest Data per Diameter Class

In Table 2 shows the results of loaded values by diameter class from the audit stands in the fourth trimester of 2019 can be observed. The diameter class of 25 to 30 centimeters obtained a higher loaded value, followed by the classes 35 to 40, 20 to 25, 30 to 35, greater than 40 centimeters in diameter and 20 to 30, totaling a volume of **4,876.624** cubic meters of exported wood.

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

EXPORT				
Project	**Year**	**Area (ha)**	**Diameter class**	**Volume (m³)**
CAN/PCB	**1999/1999**	**71.79**	20-30	72.819
			20-25	1,000.782
			25-30	2,148.101
			30-35	268.101
			35-40	1,191.921
			> 40	194.901
TOTAL				**4,876.624**

For sawmills, two diameters classes were obtained, totaling the volume of **574.136** cubic meters.

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

SAWMILLS				
Project	**Year**	**Area (ha)**	**Diameter Class**	**Volume (m³)**
CAN/PCB	**1999/1999**	**71.79**	15-20	171.116
			25-30	403.020
TOTAL				**574.136**

5. EVALUATION OF AUDITED VOLUMES

A total of 14 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
CAN/PCB	1999/1999	71.79	20-25 (long)	24.516	24.401
			25-30(long)	317.962	317.583
TOTAL				**342.478**	**341.984**

5.1. Statistical analysis of data

To compare and measure the lengths and circumferences of the wood logs, 14 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 (%)**
CAN	1995	02	28.08	(20-25) Comprida	3.93	0.0331	ns	13.10
				(25-30) Comprida	3.86	0.0209	ns	14.43
CAN	1999	03	16.53	(20-25) Comprida	3.88	0.1425	ns	14.46
				(25-30) Comprida	3.87	0.1004	ns	18.74
CPB	1999	02	27.18	(25-30) Comprida	3.87	0.0411	ns	14.90

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 TRC Agroflorestal LTDA is a company well-structured to control its clearcutting and harvesting processes.

After the standardization work in the lots during the fourth trimester of 2019 of the São José da Canastra and Capim Branco 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 20 and 25 to 30 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 fourth trimester of 2019 from the stands analyzed were correctly measured in volume and quality. as this audit could verify.

Cuiabá. February 17th 2019.

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ATTACHMENT I – PHOTOGRAPHIC REPORT


SE
S
147°SE (T) -14.852174, -56.493665 ±4m ▲ 244 m
30 Sep 2019, 10:40:16


N
NE
E
52°NE (T) -14.852689, -56.495071 ±9m ▲ 235 m


S
SW
W
214°SW (T) -14.852946, -56.49476 ±6m ▲ 227 m
30 Sep 2019, 09:05:26


West Elevation
113°E (T) -14.810787, -56.493325 ±4m ▲ 250 m