March 2024

Realtime Deforestation Monitoring System 19



Soy and cattle supply chains
Amazon and Cerrado Biomes - Brazil

Updated in September 2024



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Aidenvironment develops **Realtime Deforestation Monitoring (RDM)** reports to engage companies to urge action towards real-time deforestation events and to support civil society and financial sector stakeholders in their efforts to halt deforestation linked to commodity production and trade. In Brazil, the recent increase in deforestation rates is mainly linked to the expansion of Soy and Cattle production within the Amazon and Cerrado biomes.

The RDM 19 report of March 2024 highlights 8 case studies linked to the soy and beef supply chains in the Cerrado and Amazon biomes. The cases include the indication of non-compliance with the **European Union Deforestation Regulation** (EUDR) covering deforestation of native vegetation classified as Forest type, according to the forest definition of FAO, or any kind of illegality in the clearance of any other type of native vegetation after December 2020. The 8 cases present **9,827 hectares of deforestation in Pará, Bahia, and Tocantins states.** The cases cover deforestation alerts detected between January and February 2024, with visually confirmed deforestation events between August 2023 and February 2024.

Together with the confirmed cleared area of native vegetation, the RDM also estimates the linked **CO_2 emissions (above-ground carbon emissions)** according to vegetation type. The 8 cases of the RDM 19 report represent a gross emission of up to **0,75 million tons of CO_2.**

Table of Contents

	Case Studies	Supply chain	Page
1.	**Fazenda Princesa do Araguaia** Santana do Araguaia (Pará)	Beef and Soy	3
2.	**Fazenda Bela Vista** Santa Rita de Cássia (Bahia)	Beef	5
3.	**Fazenda Estiva A / Fazenda Estiva B** Guaraí (Tocantins)	Beef and Soy	7
4.	**Fazenda Formasa I, II, III** Correntina (Bahia)	Soy	9
5.	**Fazenda Campinas Verdes** Santa Maria das Barreiras (Pará)	Beef and Soy	11
6.	**Fazenda Ouro Branco** Couto Magalhães (Tocantins)	Beef	13
7.	**Fazenda Estância Vale Verde** Itacajá (Tocantins)	Beef and Soy	15
8.	**Fazenda Marília I and II** Correntina (Bahia)	Beef and Soy	17
	Methods & Sources		19

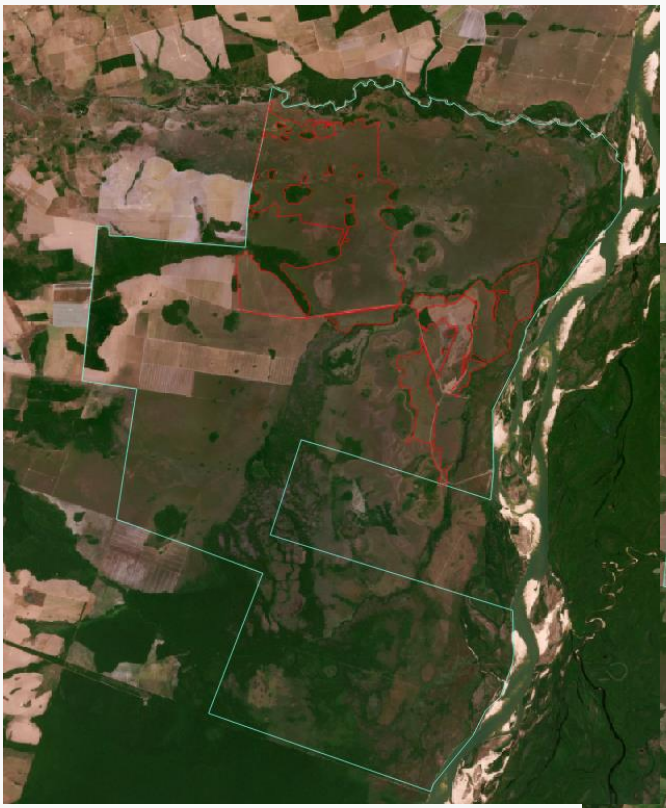
Case Study 1

Property			
Fazenda Princesa do Araguaia			
Santana do Araguaia, Pará		Amazon biome	
CAR:	PA-1506708-496D30AEA7A34EFEAC06544BE921F5BC (active)	**SIGEF/SNCI:**	9500682469114
Area property (ha):	38,764	**Coordinates property:**	-9.42172,-50.15895

Cleared Area			
Coordinates clearance:		-9.40500,-50.16739	
5,630	hectares	**period clearance:**	September '23 - February '24 (perhaps ongoing)
238,535	tons of CO_2		
-	fires alerts		
Inside Forest Code's protected areas:	Yes	1,124 ha inside declared Legal Reserve and APP	
Type of vegetation:	Seasonal parkland savanna, contact between savanna and seasonal forest	**Priority for Biodiversity Conservation:**	Very high
Conservation area(s) (overlapping or bordering):		Bordering Parque Estadual do Cantão	
Indigenous Territories (overlapping or bordering):		-	

Imagery: limits of the property (green), limits of the cleared area (red)

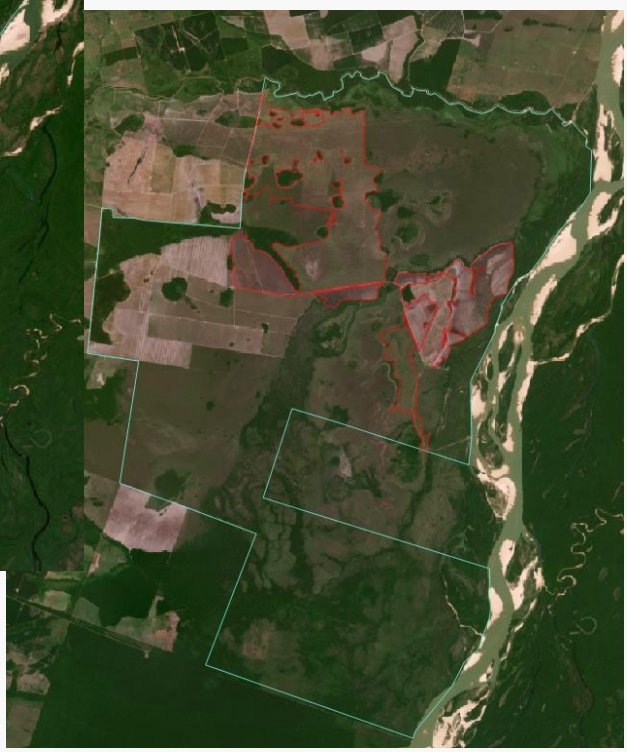
August 2023



Source: Imagery ©2023 Planet Labs Inc.

No authorisation or environmental license was found in the database of the Environment Agency of Pará (Semas)

December 2023



Source: Imagery ©2023 Planet Labs Inc.

Environmental fines and embargoes			
Embargoes:	Yes	1 embargo issued by the Environmental Agency of Pará (Semas) due to the illegal deforestation of 98,5 hectares in 2011	
Environmental fines:	No	-	-

Ownership and other linked properties	
Ownership:	Green Agropecuária & Reflorestadora (Valdo Henrique Mardegan Favoreto)
Company group:	Rancho Serrano (registered in Barueri - SP as a cattle trading company) and MPF Agrícola Promoção de Vendas (registered in the property Fazenda Princesa do Araguaia in Santana do Araguaia - PA as a cattle trading company).
Linked properties:	No linked properties identified

Supply chain links			
Main Commodities		Beef and Soy	
Level of certainty of a potential trading link to soy trader/ beef processor		Medium / Low	JBS / Bunge
Soy	**Warehouses** (50 km radius)	11 silos, 3 owned by Bunge	
	Supply chain links & details:	-	
Beef	**Slaughterhouses** (sourcing from the municipality)	-	
	Supply chain links & details:	Indirectly supplied cattle to JBS (Santana do Araguaia - PA) between 2018 and 2020 through the property Fazenda Laluth (ownership Luciana Virgili Pedrosa Garcia) (Santana do Araguaia - PA)	
Other supply chain links and details:		-	

General comments

Valdo Henrique Mardegan Favoreto and Rancho Serrano (company) own Green Agropecuária & Reflorestadora, a crop production company registered in Santana do Araguaia (PA). The family, Mardegan Favareto, also owns Rancho Serrano, which is registered in Barueri (SP) as a cattle trading company. Valdo Henrique Mardegan Favoreto also owns the company MPF Agrícola Promoção de Vendas, registered in the property Fazenda Princesa do Araguaia in Santana do Araguaia (PA) and in Londrina (PR) as a soy producing company. According to the Selo Verde platform, the property Fazenda Princesa do Araguaia has 74 ha of soy and 2,880 hectares of deforestation detected by PRODES (Program to Calculate Deforestation in the Amazon) after 2008 (1).

(1) https://seloverde.info/

Property			
Fazenda Bela Vista			
Santa Rita de Cássia, Bahia		Cerrado biome	
CAR:	BA-2928406-6D3573FB68B24132A1DA16417C19C567	**SIGEF/SNCI:**	9999385881134
Area property (ha):	2,301	**Coordinates property:**	-11.06708,-44.46554

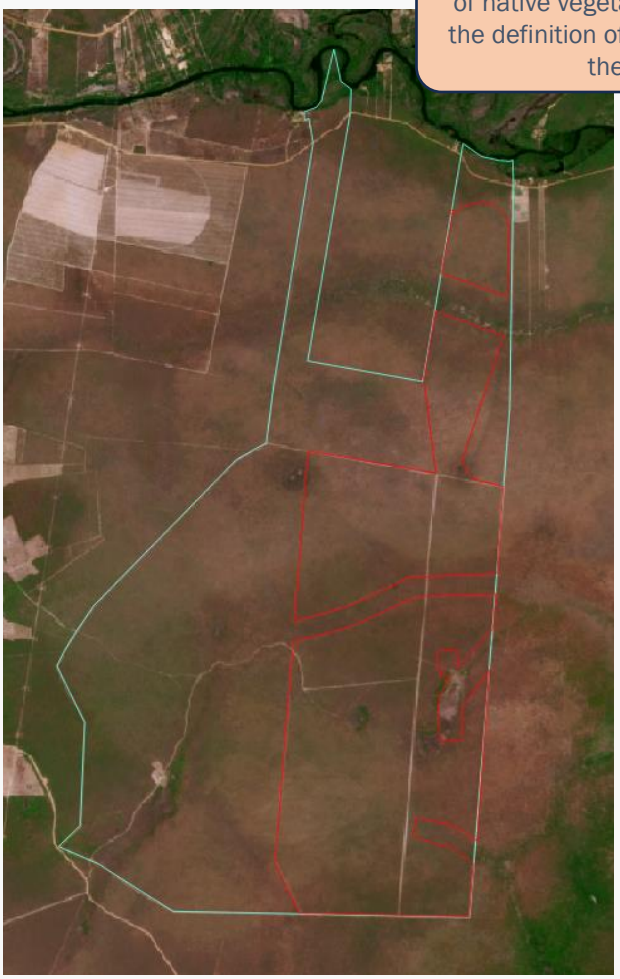
Cleared Area			
Coordinates clearance:		-11.07256,-44.45730	
982	hectares	**period clearance:**	Late November '23 - February 24
126,291	tons of CO_2		
-	fires alerts		
Inside Forest Code's protected areas:	No	-	-
Type of vegetation:	Forested Savanna	**Priority for Biodiversity Conservation:**	Very high
Conservation area(s) (overlapping or bordering):		Inside APA do Rio Preto	
Indigenous Territories (overlapping or bordering):		-	

Imagery: limits of the property (green), limits of the cleared area (red)

November 2023

At least **250 ha of the cleared** area of native vegetation overlaps with the definition of **Forest** adopted by the **EUDR**

February 2024



Source: Imagery ©2023 Planet Labs Inc.



Source: Imagery ©2024 Planet Labs Inc.

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-

Ownership and other linked properties	
Ownership:	Agropecuária BS
Company group:	Agropecuária BS is registered in Serra (ES) as a cattle producing company under the names of Christiane Cuzzuol Brunelli Soares and Emerson Soares Junior
Linked properties:	1 linked property in Santa Rita de Cássia: Fazenda Santa Rita de Cássia (unknown area)

Supply chain links			
Main Commodities		Beef	
Level of certainty of a potential trading link to soy trader/ beef processor		-	-
Soy	**Warehouses** (50 km radius)	-	
	Supply chain links & details:	-	
Beef	**Slaughterhouses** (sourcing from the municipality)	-	
	Supply chain links & details:	Directly and indirectly supply cattle to regional slaughterhouses, indirectly through the linked property Fazenda Santa Rita de Cássia (Santa Rita de Cássia - BA)	
Other supply chain links and details:		-	

General comments

Emerson Soares Junior is a member of the Association of the Cattle of Producers in West Bahia (Acrioeste) (1), and he is also part of the board of the Federation of Agriculture and Cattle of Espírito Santo (FAES) (2). In 2018, Agropecuária BS obtained the authorization for the deforestation of 988 hectares valid until 2020, to implement agricultural and cattle activities at Fazenda Bela Vista (3). In January 2024, the company requested to the Environmental Agency of Bahia (Inema) a declaration of controlled burning of the area of 988 hectares, which was issued in February (4).

(1) https://acrioeste.org.br/wp-content/uploads/2017/03/informativo-janeiro-fevereiro.pdf
(2) https://senar-es.org.br/admin/data/dynamic/revista/19/downloads/89a4e481a51c127a341bee0929e64e1c.pdf
(3) http://sistema.seia.ba.gov.br
(4) http://sistema.seia.ba.gov.br (Process number: 2017.001.000389/INEMA/LIC-00389)

Property			
Fazenda Estiva A / Fazenda Estiva B			
Guaraí, Tocantins		Cerrado biome	
CAR:	(1) TO-1709302-A093DD0084FF48C4A297FCC12B9B1B1E (active) (2) TO-1709302-09F4941359954352B6AA46E92F06454B (active)	**SIGEF/ SNCI:**	9241482616615
Area property (ha):	2,403	**Coordinates property:**	-8.599541,-48.390989

Cleared Area			
Coordinates clearance:		-8.597975,-48.370634	
712	hectares	**period clearance:**	October '23 - February '24 (ongoing)
185,611	tons of CO_2		
-	fires alerts		
Inside Forest Code's protected areas:	Yes	14.71 ha inside declared Legal Reserve	
Type of vegetation:	Open Submontane Humid Forest	**Priority for Biodiversity Conservation:**	No
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	

Imagery: limits of the property (green), limits of the cleared area (red)

September 2023



Source: Imagery ©2023 Planet Labs Inc.

All the cleared area of native vegetation overlaps with the definition of **Forest vegetation** adopted by the **EUDR**

November 2023



Source: Imagery ©2023 Planet Labs Inc.

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-

Ownership and other linked properties	
Ownership:	CAR (1): Adair Basso (1,793 ha)/ CAR (2): Ricardo Laitarte Rodrigues (609 ha)
Company group:	Adair Basso owns Agropecuária Basso, registered in Magalhães de Almeida (MA) as a soy-producing company.
Linked properties:	Adair Basso has 1 other property in Porto Nacional (TO): Fazenda São Jorge (190 ha). Ricardo Laitarte has 3 linked properties, all in Monte do Carmo (TO): Fazenda Vovô Cristiano (unknown area), Fazenda Campo Grande (unknown area), and Fazenda Eldorado (unknown area)

Supply chain links			
Main Commodities		Beef and Soy	
Level of certainty of a potential trading link to soy trader/ beef processor		**Low**	**Bunge**
The link to LDC was removed as the company stated having no commercial relationship with the property			
Soy	**Warehouses** (50 km radius)	14 silos, 2 owned by Bunge	
	Supply chain links & details:	Linked property of Adair Basso, Fazenda Santo Inácio (Diamantino - MT) supplied soy to Louis Dreyfus Company in 2019	
Beef	**Slaughterhouses** (sourcing from the municipality)	-	
	Supply chain links & details:	Ricardo Laitarte Rodrigues directly and indirectly supplies cattle to regional slaughterhouses through linked properties.	
Other supply chain links and details:		-	

General comments

An expansion area of soy cultivation surrounds the property, but there was no soy production area within the property until 2022 (1). Adair Basso has a valid license for soy cultivation in Fazenda São Jorge (Porto Nacional—TO), valid from November 2019 to November 2023 (2). In October 2023, Basso requested a license for soy and cattle production in Fazenda Estiva (3). Ricardo Laitarte Rodrigues received insurance from Brasilseg and Essor Seguros for soy production in Monte do Carmo (TO) and Fátima (TO) during 2016 and 2021 (4).

(1) https://www.globalforestwatch.org/map/
(2) https://www.portonacional.to.gov.br/images/sec_meio_ambiente/Publicações/Publicação_Licenças_Emitidas_2019_c.pdf
(3) https://doe.to.gov.br/diario/5015/download
(4) https://dados.agricultura.gov.br/dataset/sisser3

Case Study 4

Property			
Fazenda Formasa I, II, III			
Correntina, Bahia		Cerrado biome	
CAR:	BA-2909307-3FC1BE61F7BD42C58F7076E8D9EE783F BA-2909307-5E02E6155FCC44008F67D43BEA2DAAE8 BA-2909307-0B314FC32F894C8591FD1DDA699F9218	SIGEF/SNCI:	3020400541606 3020400541517 0000198907820
Area property (ha):	1,575	Coordinates property:	-13.17591,-45.23176
Cleared Area			
Coordinates clearance:		-13.174356,-45.234166	
862 hectares 110,814 tons of CO_2 - fires alerts		period clearance:	August '23 -February '24
Inside Forest Code's protected areas:	No	-	-
Type of vegetation:	Forested Savanna	Priority for Biodiversity Conservation:	Extremely high
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	

Imagery: limits of the property (green), limits of the cleared area (red)

July2023



Source: Imagery ©2023 Planet Labs Inc.

At least **150 ha of the cleared** area of native vegetation overlaps with the definition of **Forest vegetation** adopted by the **EUDR**

February 2024



Source: Imagery ©2024 Planet Labs Inc.

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-

Ownership and other linked properties	
Ownership:	Real Estate Empreendimentos e Participações Imobiliárias
Company group:	Real Estate Empreendimentos e Participações Imobiliárias is registered in Rio de Janeiro (RJ) as a real estate company under the names of Felipe Elias Regino and Valeria Neves da Silva Regino
Linked properties:	No linked properties identified

Supply chain links			
Main Commodities	Soy		
Level of certainty of a potential trading link to soy trader/ beef processor		**Low**	**Bunge**
The links to Cargill and LDC were removed as the companies stated having no commercial relationship with the property			
Soy	**Warehouses** (50 km radius)	21 silos, 2 owned by Agrícola Xingu and 1 by SLC Agrícola	
	Supply chain links & details:	Indirectly linked to Cargill, Bunge and/or LDC through SLC Agrícola, the three companies are mentioned as the largest buyers of SLC Agrícola products in 2021 (in 2022, only Cargill is mentioned in the SLC Agrícola Reference Report)	
Beef	**Slaughterhouses** (sourcing from the municipality)	-	
	Supply chain links & details:	-	
Other supply chain links and details:		-	

General comments
In January 2022, the company owning the property Fazenda Formasa I, II, and III (Real Estate Empreendimentos e Participações Imobiliárias) received authorization for the deforestation of 1,082 hectares in the three properties (267 hectares at Fazenda Formasa I; 334 ha at Formasa II and 481 ha at Formasa III), valid until 2024, to implement agricultural activities (1).

(1) http://sistema.seia.ba.gov.br

Property			
Fazenda Campinas Verdes			
Santa Maria das Barreiras, Pará		Amazon and Cerrado biomes	
CAR:	PA-1506583-8F139E66A5B34DE5B5BC4C5101418106 (pending)	**SIGEF/SNCI:**	9511108549723
Area property (ha):	1,073	**Coordinates property:**	-8.359190,-49.796205

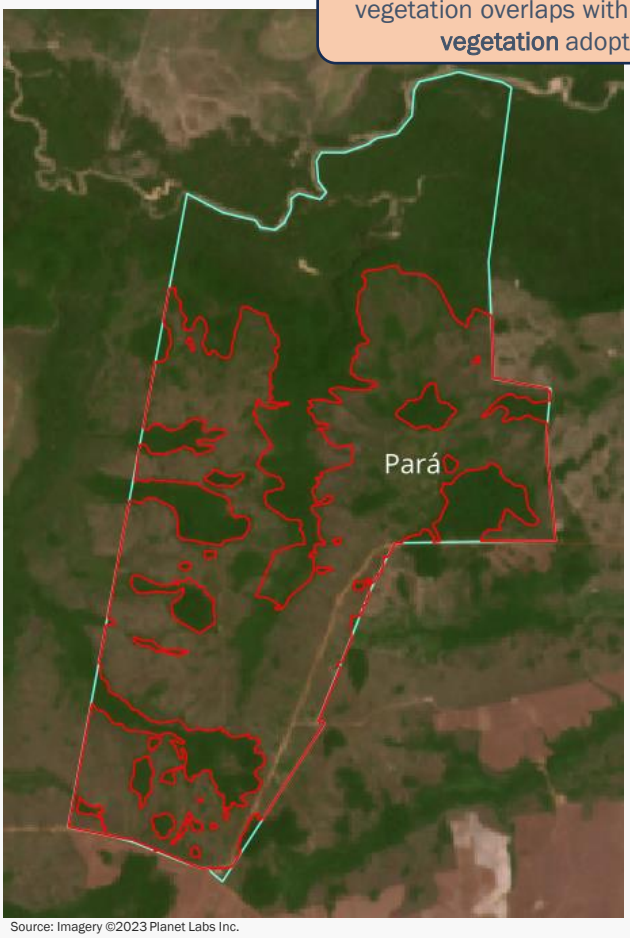
Cleared Area			
Coordinates clearance:		-8.354345,-49.789775	
599	hectares	**period clearance:**	December '23
5,734	tons of CO_2		
-	fires alerts		
Inside Forest Code's protected areas:	Yes	6.34 ha inside declared Legal Reserve	
Type of vegetation:	Woody-grass Savanna	**Priority for Biodiversity Conservation:**	Extremely high
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	

Imagery: limits of the property (green), limits of the cleared area (red)

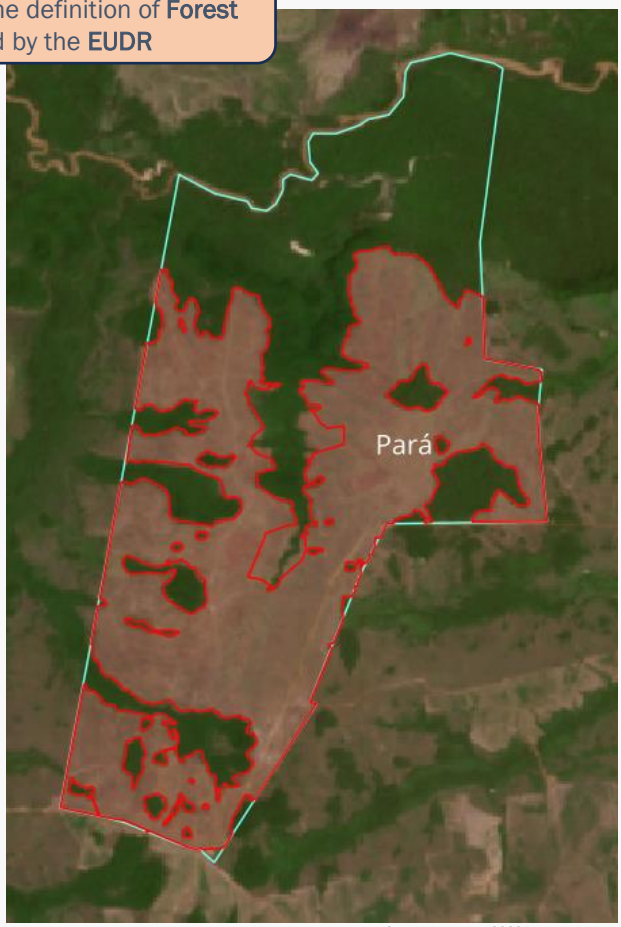
November 2023

At least **20 ha of the cleared** area of native vegetation overlaps with the definition of **Forest vegetation** adopted by the **EUDR**

December 2023



Source: Imagery ©2023 Planet Labs Inc.



Source: Imagery ©2023 Planet Labs Inc.

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-

Ownership and other linked properties	
Ownership:	Antônio Alves Pinto Neto / Antônio Augusto Alves Pinto
Company group:	No active linked company found.
Linked properties:	1 other property with a linked ownership (Antônio Augusto Alves Pinto) in Santa Maria das Barreiras (PA): Fazenda Campos Verdes (3,703 ha), bordering Fazenda Campinas Verdes

Supply chain links			
Main Commodities		Beef and Soy	
Level of certainty of a potential trading link to soy trader/ beef processor		**High**	**JBS**
Soy	**Warehouses** (50 km radius)	4 silos, all owned by regional traders	
	Supply chain links & details:	-	
Beef	**Slaughterhouses** (sourcing from the municipality)	-	
	Supply chain links & details:	Fazenda Campinas Verdes indirectly supplied cattle to JBS (Redenção - PA) through Fazenda Campos Verdes in 2022, a linked and bordering property	
Other supply chain links and details:		-	

General comments

The property does not have soy cultivation (2022) but is surrounded by soy areas (1). According to the Selo Verde Platform, the property has illegal deforestation after 2008 (2). Antônio Alves Pinto Neto is an agronomist and works as a salesman in the south of Pará for Stoller Group, an American crop chemicals company (3).

(1) https://www.globalforestwatch.org/map/
(2) https://seloverde.info/consultar-car/
(3) https://www.linkedin.com/in/ant%C3%B4nio-alves-pinto-neto-a4a712124/

Property			
Fazenda Ouro Branco			
Couto Magalhães, Tocantins		Cerrado biome	
CAR:	TO-1706001-6289BB5BB1CF477A92249CB7B008ADD3 (conflict)	SIGEF/SNCI:	-
Area property (ha):	2,708	Coordinates property:	-8.38823,-49.25287

Cleared Area			
Coordinates clearance:		-8.386623,-49.253506	
379	hectares	period clearance:	October '23 - December '23
23,920	tons of CO_2		
-	fires alerts		
Inside Forest Code's protected areas:	Yes	58 ha inside declared Legal Reserve and APP	
Type of vegetation:	Alluvial Semi Deciduous Seasonal Forest, Wooded Savanna, Seasonal grassy-woody savanna	Priority for Biodiversity Conservation:	Very high
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	

Imagery: limits of the property (green), limits of the cleared area (red)

September 2023

At least **80 ha of the cleared** area of native vegetation overlaps with the definition of **Forest vegetation** adopted by the **EUDR**

December 2023



Source: Imagery ©2023 Planet Labs Inc.



Source: Imagery ©2023 Planet Labs Inc.

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-

Ownership and other linked properties	
Ownership:	Gilda Santiago Guimarães
Company group:	No active linked company found. Gilda is partner of Allan Santiago Guimarães and Anderson Santiago Guimarães in at least two (inactive) companies in Rendenção (PA): WG Agropastoril and Guimarães Agropastoril
Linked properties:	1 linked property in Redenção (PA): Chácara Morada do Sol (unknown area)

Supply chain links			
Main Commodities		Beef	
Level of certainty of a potential trading link to soy trader/ beef processor		**Medium**	**Minerva, JBS**
The indirect link to Minerva was maintained as the company confirmed the trading link with the intermediate farm, Fazenda Nova Esperança (Couto Magalhães – TO), which received cattle from Fazenda Ouro Branco (Cout Magalhães – TO) and supplied Minerva (Araguaína – TO). Minerva was not able to verify the trading links between both farms.			
Soy	**Warehouses** (50 km radius)	3 silos, all owned by regional traders	
	Supply chain links & details:	-	
Beef	**Slaughterhouses** (sourcing from the municipality)	-	
	Supply chain links & details:	Indirect supplier to Minerva (Araguaína - TO) and JBS (Araguaína - TO) in 2023, both through Fazenda Nova Esperança (Couto Magalhães - TO). A linked property, Chácara Morada do Sol (Redenção - PA), indirectly supplied JBS (Redenção - PA) through the property Morada Nova (Redenção - PA) in 2020	
Other supply chain links and details:		-	

General comments

Gilda Santiago Guimarães is linked to Allan Santiago Guimarães and Anderson Santiago Guimarães through at least two inactive companies (WG Agropastoril and Guimarães Agorpastoril) registered in Redenção (PA) as cattle-producing companies (1). Allan is also a partner in at least two companies linked to mining activities: Zirconita Mineração, registered in Jaú do Tocantins (TO) and the Cooperative of Miners and Gold Miners of South Pará (Coomigasulp) (2). In November 2023, Gilda Guimarães requested authorization for controlled burning for the Environmental Agency of Tocantins, but it is unclear if the request is linked to Fazenda Ouro Branco (3).

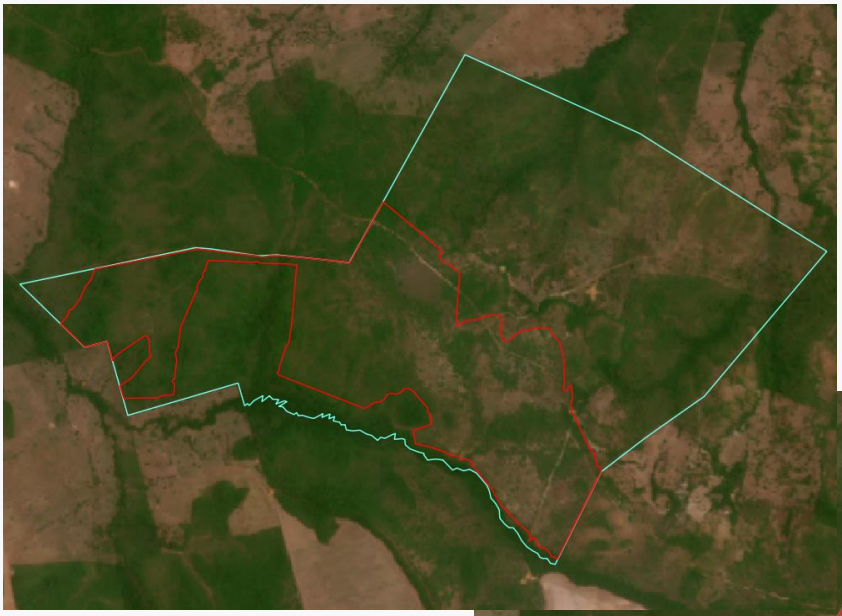
(1) https://www.consultasocio.com/q/sa/gilda-santiago-guimaraes
(2) https://www.consultasocio.com/q/sa/allan-santiago-guimaraes?page=1
(3) https://sigam.to.gov.br/cadastrousuarioexterno/consulta_documento_processo.aspx

Property			
Fazenda Estância Vale Verde			
Itacajá, Tocantins		Cerrado biome	
CAR:	TO-1710508-382F1231B56A4C0F84EE72F88025ACCC	SIGEF/SNCI:	9230280041031
Area property (ha):	753	Coordinates property:	-8.647506,-47.917481

Cleared Area			
Coordinates clearance:		-8.648683,-47.922313	
273	hectares	period clearance:	November '23
13,652	tons of CO_2		
-	fires alerts		
Inside Forest Code's protected areas:	Yes	71 ha inside declared Legal Reserve and APP	
Type of vegetation:	Wooded Savanna	Priority for Biodiversity Conservation:	No
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	

Imagery: limits of the property (green), limits of the cleared area (red)

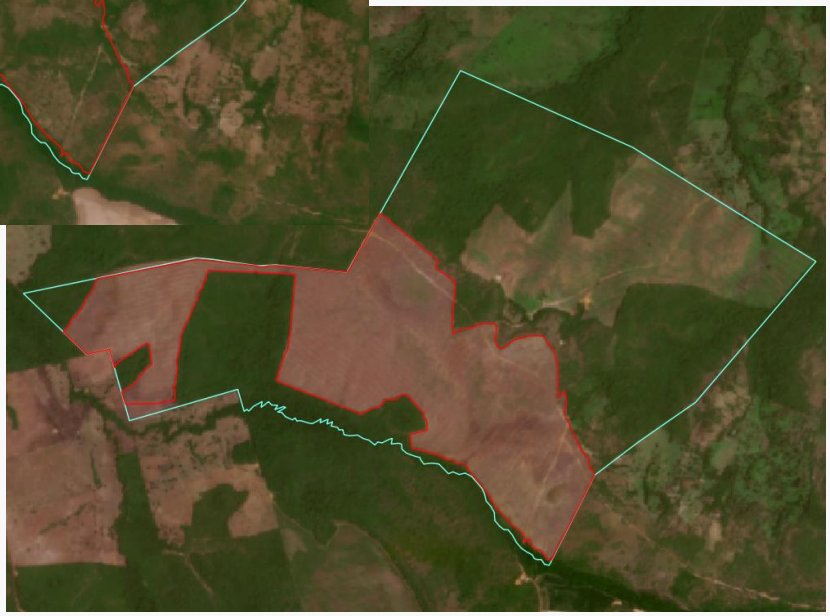
October 2023



Source: Imagery ©2023 Planet Labs Inc.

At least **150 ha of the cleared** area of native vegetation overlaps with the definition of **Forest vegetation** adopted by the **EUDR**

February 2024



Source: Imagery ©2024 Planet Labs Inc.

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-

Ownership and other linked properties	
Ownership:	Luavel Prestadora de Serviços e Negócios
Company group:	Celia Niero Machado, João Carlos Machado Filho and Mariana Carolina Machado Braga own Luavel Prestadora de Serviços. They are also owners of Terra Brasil Araguaia Empreendimentos e Participações, registered in Divinópolis do Tocantins (TO)
Linked properties:	4 other linked properties, totalling 2,348 ha. In Araguacema (TO): Fazenda Água Cristalina (641 ha). In Marianópolis do Tocantins (TO): Lote 359 (488 ha). In Divinópolis do Tocantins (TO): Fazenda Onça Preta (675 ha). In Abreulândia (TO): Fazenda Rancho Fundo (544 ha).

Supply chain links				
Main Commodities		Beef and Soy		
Level of certainty of a potential trading link to soy trader/ beef processor			**Low**	**Bunge**
Soy	**Warehouses** (50 km radius)	10 silos, 2 owned by Bunge		
	Supply chain links & details:	-		
Beef	**Slaughterhouses** (sourcing from the municipality)	-		
	Supply chain links & details:	-		
Other supply chain links and details:		-		

General comments

João Carlos has a license for clearing 318 ha of native vegetation, valid until July 2018, in an unknown property in Divinópolis do Tocantins (TO) (1). In February 2024, Luavel Prestadora de Serviços e Negócios requested authorization for controlled burning for the Environmental Agency of Tocantins, but it is not clear if the authorization is linked to Fazenda Estância Vale Verde (2). In November 2022, the company requested licenses for the implementation of agricultural activities in the property Fazenda Estância Vale Verde (3). João Carlos is a cattle producer in Tocantins, with farms dedicated to fattening animals (4).

(1) https://doe.to.gov.br/diario/3104/download
(2) https://sigam.to.gov.br/cadastrousuarioexterno/consulta_documento_processo.aspx
(3) https://doe.to.gov.br/diario/4771/download
(4) Undisclosed source

Property			
Fazenda Marília I and II			
Correntina, Bahia		Cerrado biome	
CAR:	BA-2909307-CF81B4E3AA5E43B89071DA9C5C3044D1	**SIGEF/SNCI:**	9500174157230 9500176049338
Area property (ha):	3,631	**Coordinates property:**	-13.66994,-45.21815
Cleared Area			
Coordinates clearance:		-13.634849,-45.227264	
390 hectares 50,091 tons of CO_2 - fires alerts		**period clearance:**	End of November '23 to February '24 (ongoing)
Inside Forest Code's protected areas:	Yes	1.81 ha inside declared Legal Reserve	
Type of vegetation:	Forested Savanna	**Priority for Biodiversity Conservation:**	No
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	

Imagery: limits of the property (green), limits of the cleared area (red)

November 2023



Source: Imagery ©2023 Planet Labs Inc.

At least **200 ha of the cleared** area of native vegetation overlaps with the definition of **Forest vegetation** adopted by the **EUDR**

February 2024



Source: Imagery ©2024 Planet Labs Inc.

Case Study 8

Environmental fines and embargoes			
Embargoes:	Yes	2 embargoes in Japu do Tocantins (TO) for illegal clearance of 53 ha and 19 ha in 2018.	
Environmental fines:	Yes	4 Environmental fines in linked properties. In 1999, for illegal clearance of native vegetation in an APP area and clearance of native vegetation without authorization in Niquelândia (GO). In 2018, for illegal clearance of 50ha and for not allowing the regeneration of native vegetation in Jaú do Tocantins (TO).	BRL 65,600

Ownership and other linked properties	
Ownership:	Agrovitta Ltda, Edwaldo de Paulo Peres and Rafael Augusto Braga Pereira
Company group:	Braga Pereira Agrícola is registered in Correntina (BA) as a soy-producing company (owned by Rafael Augusto Braga Pereira, one of the owners of Fazenda Marília I and II). Tangará da Serra Agropecuária and Tainá I Agropecuária, both registered in Goiânia (owned by Edwaldo de Paulo Peres). Agrovitta Ltda, registered in Correntina (BA) as a cattle-producing company (owned by Everton Luis Milanezi, Bruno Colnago Ferreguete and Verisaldo Ribeiro).
Linked properties:	2 other linked properties, totalling 9,235 ha. In Cocos (BA): Fazenda Chapadão da Santa Luzia e Riacho Claro da Santa Luzia (7,170 ha), Fazenda Barra da Serra (2,065 ha). In Santo Antônio do Leste (MT): Fazenda Fernandópolis (3,717 ha), Fazenda Tucano (4,842 ha). In Jaú do Tocantins (TO): Fazenda Serra Verde / Tucuns (1,668 ha) (registered ownership of all properties in the name of Edwaldo de Paulo Peres)

Supply chain links			
Main Commodities		Beef and Soy	
Level of certainty of a potential trading link to soy trader/ beef processor		**Low**	**Bunge, JBS**
The links to Cargill and LDC were removed as the companies stated having no commercial relationship with the property			
Soy	**Warehouses** (50 km radius)	14 silos, 1 owned by Agrícola Xingu and 1 by SLC Agrícola	
	Supply chain links & details:	Indirectly linked to Cargill, Bunge and/or LDC through SLC Agrícola, the three companies are mentioned as the largest buyers of SLC Agrícola products in 2021 (in 2022, only Cargill is mentioned in the SLC Agrícola Reference Report)	
Beef	**Slaughterhouses** (sourcing from the municipality)	-	
	Supply chain links & details:	A linked property (Fazenda Tucuns, in Japu do Tocantins - TO) indirectly supplied JBS (Goiânia - GO, Senador Canedo - GO, Mozarlândia - GO) between 2019 and 2023 through Fazenda Camarinha (Jaú do Tocantins - TO). A linked property (Fazenda Tucano, in Santo Antônio do Leste - MT) indirectly supplied JBS (Barra do Garças - MT) in 2018 through Fazenda Santo Antônio (Santo Antônio do Leste - MT)	
Other supply chain links and details:		-	

General comments

The property does not have soy cultivation (2022) but is surrounded by soy areas (1). In March 2022, Ricardo Anversa and Denise Anverse sold Fazenda Marília I and II to Agrovitta Ltda, Edwaldo de Paulo Peres and Rafael Augusto Braga Pereira (2). In November 2022, Agrovitta requested authorization to deforested 2,511 hectares in Fazenda Marília I, Fazenda Caboclinha and AEPL, part of the same complex, to implement agricultural activities (2). Edwaldo de Paulo Peres is involved in a land conflict in Campinaçu (GO) and is being investigated by environmental crimes in the same area (3, 4).

(1) https://www.globalforestwatch.org/map/
(2) http://sistema.seia.ba.gov.br
(3) https://cptnacional.org.br/publicacoes/noticias/conflitos-no-campo/4879-ha-39-anos-em-posse-familia-do-municipio-de-campinacu-go-e-despejada
(4) https://cptnacional.org.br/publicacoes/noticias/conflitos-no-campo/4933-apos-despejo-de-familia-de-posseiros-em-goias-pretenso-proprietario-da-area-e-denunciado-por-crimes-ambientais

Methods & Sources

Deforestation and fire alert data are the starting point of the analysis for each case study. After confirming the clearance of native vegetation through satellite imagery, each of the cases is analyzed through the Aidenvironment database crossing data from different sources and datasets as described below. Finally, the data is validated by a local partner, and a qualitative analysis of each case is developed using publicly available data.

Deforestation & Fire

We processed deforestation alert data from the INPE/Deter program for both biomes, Amazon and Cerrado. The Global Forest Watch (GLAD alerts) and the Mapbiomas Alertas platforms are alternative sources. The fire alerts are checked in the NASA/Firms platform and processed using the EO Browser Copernicus Sentinel platform. For each selected case, the deforestation is confirmed through satellite images.

Landownership (SIGEF/SNCI/SNCR) and the Environmental Cadastre self-declaration (CAR)

The landownership data is from the Federal Tenure Land systems SIGEF and SNCI, crossing it with SNCR to identify the owner. The land ownership registration on local notary offices is not checked and might differ from the federal systems. The self-declaration for the Environmental Cadastre (CAR) is checked in the Federal System SICAR, including the Legal Reserves and Permanent Preservation Areas (APP), according to the Brazilian Forest Code. For some states, such as Mato Grosso and Pará, it is possible to check the CAR declarant name through the Environmental State Agencies' CAR platforms. It is essential to highlight that CAR is not recognized as official ownership data.

Brazilian Forest Code protected areas

The Brazilian Forest Code defines Legal Reserves and Permanent Preservation Areas (APP) as having mandatory conservation status on private properties. The size of *Legal Reserves* in private properties varies according to the biome [80% Amazonia biome, 35% Cerrado biome inside Legal Amazon, and 20% other areas]. Permanent *Preservation Areas (APP)* are those linked to water and soil conservation areas (close to river bases, wetlands, slopes, and high hills.) The Legal Reserve and APP areas considered in this report are those self-declared within the Cadastro Ambiental Rural (CAR) system – Brazil's environmental registration system. In some cases, the CAR was also used to find information on ownership because even if it is a self-declared document, in some cases, it still provides the most recent information on who is operating in a property.

Conservation Areas and Indigenous Territories

Conservation Areas data is from the ICMBio, responsible for monitoring and managing the Officially recognized Natural Reserves according to the National System of Natural Reserves (SNUC – Sistema Nacional de Unidades de Conservação). The SNUC determines the jurisdiction of the area - federal, state, or local government or private owner – and how the natural resources may be used by whom in each of the natural reserves' categories. Indigenous Territories data is from FUNAI, the National Foundation for Indigenous Populations. Indigenous Territories are officially recognized and determine areas where local Indigenous populations have customary rights to access and use the land.

Type of Vegetation and Priority for Biodiversity Conservation

The type of vegetation data is from the IBGE (Brazilian Institute of Geography and Statistics) and Embrapa, consulted through the INPE website. The classification according to the Priority for Biodiversity Conservation is from a study elaborated by the Brazilian Ministry of the Environment, updated in 2018.

Environmental Embargoes and Fines

Embargoed areas and Environmental fines are checked in the database from IBAMA, the Federal Environment Agency. Embargoes are areas where any activity is suspended or unauthorized by IBAMA, oftentimes due to environmental degradation or other crimes such as slavery labor. Properties can be removed from the list of embargoed areas after addressing the problem. Environmental fines are usually linked to regulation infractions and are addressed to the property owner.

Company Group and linked properties

Once the ownership of the property is linked to an individual, we use the SINTEGRA database to check all the registered companies under this individual or group of individuals' names. If a company already registers the ownership, we also check the corporate structure of the company through open-source websites. Once the ownership, linked companies, and corporate structure are defined, we search for other properties registered under the same or similar ownership in the Federal Tenure Land systems SIGEF and SNCI.

Level of certainty of links to soy traders and beef processors

Soy – *High*: the trading relationship between the owner of the property and the trader is confirmed by traders or by the National Supply Company (Conab) trading subsidy programs, or traders have assets (warehouses) within the boundaries of the property; *Medium*: trading relationship with the corporate group, not necessary with the specified property is confirmed by traders or by Conab's subsidy programs; *Low*: the trader is the leading soy exporter in the municipality (Trase platform), or traders have assets (warehouses) within a radius of 50 km from the property.

Cattle – *High*: animal transportation data (GTA) confirm the direct trading relationship between the property and beef processors; *Medium*: animal transportation data (GTA) confirm the indirect trading relationship between the property and beef processors; *Low*: the beef processor is the leading meat exporter in the municipality (Trase platform), or beef processors have assets (slaughterhouse) within a radius of 50 km from the property.

Leading exporters (municipality), warehouses, and slaughterhouses

The data on main soy and beef exporters per municipality is from the Trase platform. The warehouses' location is from the SICARM, and the slaughterhouses' location is from the Ministry of Agriculture. The municipalities' export data and companies' assets' location only indicate a potential trading link, not being used as proof of trading links as explained in the previous item (level of certainty of links to soy traders and beef processors).

CO_2 Emissions

The calculation of CO_2 emissions refers to the "above-ground carbon emissions" according to the cleared vegetation type(s) [Source: 1) Nogueira et al. (2015). *Carbon stock loss from deforestation through 2013 in Brazilian Amazonia*], 2) United Nations Framework Convention on Climate Change (2016). *Brazil's Forest Reference Emission Level for Reducing Emissions from Deforestation in the Cerrado biome for Results-based Payments for REDD+ under the United Nations Framework Convention on Climate Change.* The tons of CO_2 emission is calculated per type of vegetation times the ratio of molecular weight of carbon dioxide to carbon (44/12) times the number of hectares cleared.

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European Climate Foundation

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