

June 2024

Realtime Deforestation Monitoring System 21



Soy Supply Chain in Cerrado biome - Brazil

Updated in September 2024



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Aidenvironment develops **Realtime Deforestation Monitoring (RDM)** reports to engage companies in urging action and support civil society and financial sector stakeholders in their efforts to halt deforestation linked to commodity production and trade. In Brazil, deforestation rates are mainly linked to the expansion of Soy and Cattle production within the Amazon, Pantanal and Cerrado biomes.

The RDM 21 report of June 2024 highlights 9 case studies linked to the soy supply chain in the Cerrado biome. 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, happening after December 2020. The 9 cases present **9,217 hectares** of deforestation in Maranhão, Tocantins, Piauí and Bahia states (or **Matopiba** region of the Cerrado biome), of which at least **3,359 hectares** are **non-compliant** with the vegetation type criteria of the **EUDR**. The cases cover deforestation alerts detected during May 2024, with visually confirmed deforestation events happening between December 2023 and June 2024.

Together with the confirmed cleared area of native vegetation, the RDM also estimates the linked **CO₂ emissions (above-ground carbon emissions)** according to vegetation type. The 9 cases of the RDM 21 report represent a gross emission of up to **0.7 million tons of CO₂**.

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Property				
Fazenda São João e Santo Antônio				
São Desidério, Bahia			Cerrado biome	
CAR:	BA-2928901-15EC67AF11024D80BF79623922F12C7E (Fazenda São João), BA-2928901-CC8E7902F7B3460A982901E421E1255F (Fazenda Santo Antônio)		SIGEF/SNCI:	9999897917920, 9999897918307
Area property (ha):		8,823	Coordinates property:	-13.01871,-45.21728
Cleared Area				
Coordinates clearance:		-13.00249,-45.20371		
3,227 hectares		period clearance:	March to May '24	
367,512 tons of CO ₂				
- fires alerts				
Inside Forest Code's protected areas:		No	-	-
Type of vegetation:	Forested Savanna, Park 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)

February 2024



Source: Imagery ©2024 Planet Labs Inc.

About 1,895 ha of the native vegetation cleared area falls into the FAO Forest definition and is non-compliant with the EUDR

May 2024



Source: Imagery ©2024 Planet Labs Inc.

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-
Ownership and other linked properties			
Ownership:	Roberta Brennand de Souza Leão Bezerra, João Felipe Brennand de Souza Leão, Joaquim Felipe Brennand de Souza Leão		
Company group:	CSL Produção Rural, registered in Passira (PE) as a horse breeding company. Várzea do Guará Agroindustrial, registered in Recife (PE) as a sugar-cane-producing company. Several other real states, sports, and energy companies registered in Pernambuco and São Paulo, including Crescent Holding Participações.		
Linked properties:	9 other properties, totaling 68,000 ha. In São Desidério (BA): Fazenda Jatobá (3,310 ha), Fazenda Semear (5,480 ha), Fazenda São José (4,260 ha), Fazenda Gaya (2,030 ha), Fazenda Chapadão VIII (2,500 ha), Fazenda Ceres (4,200 ha), Barra e São Domingos (12,650 ha), Fazenda Borda da Mata (31,000 ha). In Cotigipe (BA): Fazenda Campo Largo do Rio Grande (2,570 ha). Several other properties in Pernambuco.		
Supply chain links			
Main Commodities		Soy	
Level of certainty of a potential trading link to soy trader/ beef processor		-	-
Soy	Warehouses (50 km radius)	9 silos, all owned by regional traders	
	Supply chain links & details:	The property did not have soy cultivated until 2022, but it close to other soy areas.	
Other supply chain links and details:		Active in sugar-cane production in Pernambuco.	
General comments			

In February 2024, Roberta Brennand Souza Leão received authorization for the clearance of 3,238 hectares of native vegetation at Fazenda São João (1). Between 2020 and 2022, two other properties of the Brennand Souza Leão family (Fazenda São Pedro e Fazenda Borda da Mata) also received authorizations for the clearance of 4,700 hectares of native vegetation (2, 3). One of the family members, Roberto de Souza Leão Filho, was prosecuted for the assassination of the farmer Brasilino Dias Ramos, linked to the dispute of ownership of Fazenda Natália (4). The father of Roberto was the main financier in the state of Pernambuco of the “Comando de Caça aos Comunistas” (CCC), a paramilitary organization that kidnapped political dissidents during the military dictatorship in Brazil. Roberto de Souza Leão was pointed out by the Truth Commission as the man behind the assassination of the catholic priest Padre Henrique (5). Brennand Souza Leão family is still active in politics in Pernambuco state. A linked case, Fazenda Borda da Mata (São Desidério - BA), was part of the Rapid Response Report 14 (June 2020) and a Realtime Deforestation Report (RDM 12), published in May 2023. Bunge, Cargill, and Cofco claimed no trading links with this linked property (6).

(1) Inema Bahia database

(2) <https://www.jusbrasil.com.br/diarios/231331870/trt-6-judiciario-07-03-2019-pg-4847?ref=serp>

(3) <https://www.aatr.org.br/post/bahia-%C3%A1-autorizou-o-desmatamento-de-34-307-712-ha-durante-a-pandemia>

(4) <https://www1.folha.uol.com.br/fsp/cotidian/ff2111200329.htm>

(5) <https://blogs.ne10.uol.com.br/jamildo/2012/09/20/major-ferreira-confirma-que-empresarios-pernambucanos-financiavam-assassinatos-de-comunistas/>

(6) https://www.mightyearth.org/wp-content/uploads/RR_Report_June_2020.pdf#new_tab

Property			
Fazenda Rancho Alegre			
Jaborandi, Bahia		Cerrado biome	
CAR:	BA-2917359-EFE54BFF8A484403945864CF41E54755		SIGEF/SNCI: 0000191667662
Area property (ha):		609	Coordinates property: -14.047919,-45.826093
Cleared Area			
Coordinates clearance:		-14.050096,-45.824512	
411 hectares		period clearance:	February to March '24
58,749 tons of CO ₂			
- fires alerts			
Inside Forest Code's protected areas:	Yes	6.5 ha inside declared Legal Reserve	
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)

January 2024



Source: Imagery ©2024 Planet Labs Inc.

About 280 ha of the native vegetation cleared area falls into the FAO Forest definition and is non-compliant with the EUDR

March 2024



Source: Imagery ©2024 Planet Labs Inc.

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-
Ownership and other linked properties			
Ownership:	José Ademir Toniazzo		
Company group:	Grupo Toniazzo, J & C Brasil (registered as an agricultural company in Jaborandi - BA), and GT Empreendimentos (registered as a contractor company in Posse - GO)		
Linked properties:	4 other properties totalling 1,700 ha. In Jaborandi (BA): Fazenda Tropeira Velho e Outra (990 ha), Fazenda Ouro Verde (260 ha), Fazenda Ouro Verde I (250 ha), Fazenda Santa Terezinha (200 ha)		
Supply chain links			
Main Commodities	Soy		
Level of certainty of a potential trading link to soy trader/ beef processor		Low	Bunge
Soy	Warehouses (50 km radius)	73 silos, including 1 from Bunge	
	Supply chain links & details:	The property did not have soy cultivated until 2022, but it is surrounded by soy areas.	
Other supply chain links and details:		Cotton	
General comments			

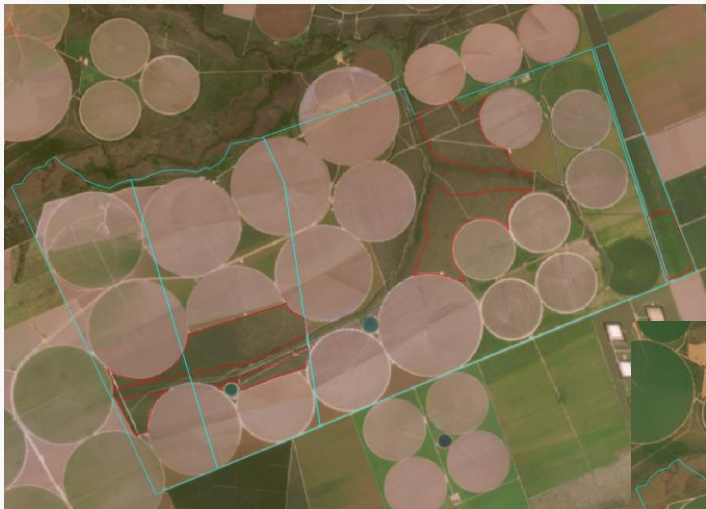
In March 2022, José Ademir Toniazzo received authorization for the clearance of 472 hectares of native vegetation at Fazenda Rancho Alegre, which is valid until March 2024 (1). Anderson Toniazzi, a relative of José Ademir Toniazzo, is one of the directors of the APRUP, Association of Rural Producers of Pratudão River, which is active in the agribusiness sector of West Bahia (2). Other Toniazzo family members are also part of AIBA, the Association of Irrigation in Bahia (3), and ABAPA, the Association of Cotton Producers (4). In July 2023, José Ademir Toniazzo and other members of the Toniazzo family benefited from a court decision that gave them the land rights of more than 400,000 hectares, an area previously occupied by 342 small farmers in Correntina, in Bahia (5, 6).

(1) Inema Bahia database
(2) <https://www.maisoeste.com.br/politica/oziel-se-reune-com-liderancas-do-agronegocio-do-oeste-para-tratar-demandas-do-setor/>
(3) <https://aiba.org.br/>
(4) <https://abrapa.com.br/quem-somos/>
(5) https://apublica.org/wp-content/uploads/2023/11/TJBA-decisao-19-10-2023-caso-0000121-88.2009.8.05.0069_Justica-libera-400-mil-hectares-sob-suspeita-de-grilagem-apos-pessao-ruralista-na-Bahia.pdf
(6) <https://apublica.org/2023/11/justica-libera-400-mil-hectares-sob-suspeita-de-grilagem-apos-pessao-ruralista-na-bahia/#>

Property				
Fazenda Santo Antônio II, III, IV and V, Fazenda São Joaquim, Fazenda São Luis				
Barreiras, Bahia			Cerrado biome	
CAR:	BA-2903201-CF46176AF6164D98B1C5E9733EB9BF5E, BA-2903201-73F08FFE1CB54A0080390E0550772988, BA-2903201-AF7E1085B0BD416A8FAC2ACDE34AD555, BA-2903201-4A762C4268294B649B6238E50822BC5E, BA-2903201-A7A3ACF3CA044D8DA7506B47F77907C0, BA-2903201-42634F3163C74E9883C6B2263A3C1FF5, BA-2919553-FAEA684466324E368A0EBCE1F0E74BD5, BA-2919553-8A32C9AB7EC840F09C3084B59121FD34		SIGEF/ SNCI:	3010350145417 (SNCI), 9501492353428 (SIGEF), 9501492353185 (SIGEF)
Area property (ha):		6,654	Coordinates property:	-11.94170,-45.63121
Cleared Area				
Coordinates clearance:		-11.940737,-45.629289		
715 hectares		period clearance:	April to May '24	
36,572 tons of CO ₂				
- fires alerts				
Inside Forest Code's protected areas:		Yes	398 ha inside declared Legal Reserve and APP	
Type of vegetation:	Savanna Park, Fluvial and/or lacustre influenced Vegetation		Priority for Biodiversity Conservation:	Extremely high
Conservation area(s) (overlapping or bordering):			Área de Proteção Ambiental Bacia do Rio de Janeiro	
Indigenous Territories (overlapping or bordering):			-	

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

March 2024



Source: Imagery ©2024 Planet Labs Inc.

About 113 ha of the native vegetation cleared area falls into the FAO Forest definition and is non-compliant with the EUDR

May 2024



Source: Imagery ©2024 Planet Labs Inc.

Environmental fines and embargoes

Embargoes:	No	-	
Environmental fines:	Yes	Unauthorized clearing of 664 ha of native vegetation in an unknown property in Barreiras (BA) in 2012. Unauthorized clearing of 241 ha of native vegetation in an unknown property in Barreiras (BA) in 2012. In 2016, received a fine for non-compliance with an embargoed area in 2012 in Barreiras (BA). Unauthorized agricultural activities in Fazenda São Joaquim and Fazenda São Luiz (Luís Eduardo Magalhães - BA) in 2008.	BRL 1,067,000

Ownership and other linked properties

Ownership:	Asa Agrícola Santo Antonio, Agronol Agro Industrial
Company group:	Asa Agrícola Santo Antônio is registered as a non-financial holding company, and Agronol Agro Industrial as a crop-producing company. Both are registered in is registered in Luís Eduardo Magalhães (BA) and have similar ownership: Ferdinando Valle Magalhães and GSI Agronegócios Participações, which is registered in Rio de Janeiro (RJ) as a non-financial holding company. Bel Agrícola is a linked company registered as a coffee-producing company in Luís Eduardo Magalhães (BA). Another linked company, Construtora Santa Isabel, is a contractor company registered in Rio de Janeiro (RJ).
Linked properties:	At least 5 other properties totalling 7,280 ha. All linked to Belap Agropecuária and bordering the properties Fazenda Santo Antônio, São Luis and São Joaquim. In Luís Eduardo Magalhães (BA): Fazenda São José I (4,430 ha), Fazenda São Francisco (850 ha), Fazenda São Lucas (1050 ha), Fazenda Santa Marta (560 ha), Fazenda Santa Alice (394 ha)

Supply chain links

Main Commodities		Soy	
Level of certainty of a potential trading link to soy trader/ beef processor		Low	Bunge, Cargill
The links to ADM , LDC and Amaggi were removed as the companies stated having no commercial relationship with the property. The link to Cargill was maintained as the company informed that, among the properties listed in the present RDM report, three farms are registered in its system and they had recent negotiations with two of them without disclosing names.			
Soy	Warehouses (50 km radius)	115 silos, including 13 from Bunge, 2 from Cargill, 2 from ADM, 1 from Amaggi and 1 from Louis Dreyfus	
	Supply chain links & details:	The property had at least 2,000 ha of soy in 2022.	
Other supply chain links and details:		Coffee and cattle (the linked farm, Fazenda Agronol (Luís Eduardo Magalhães - BA), supplied local slaughterhouses in 2018)	

General comments

Ferdinando Valle Magalhães, one of the owners of Asa Agrícola, Agronol, and GSI Agronegócios, deceased in September 2023. In 2008, he received a Prize for his entrepreneurship capacity in an event organized by the National Society of Agriculture (SNA) (1). Márcia Magalhães Deccache, also linked to the same companies, is one of the founders of the political party "Novo" (2). The Deccache family is cited in land-grabbing cases in south Bahia, being involved in bribing Indigenous leaders from Pataxó people to convince their communities to stop pressuring for the official recognition of their territory (3). The region of Ponta de Corumbau, in Pardo (BA), has been under pressure from the hospitality industry for the development of resorts (4). The partners of companies that operate in the hotel business (Grupo Santa Isabel and Protell) are also partners of Agronol and Asa Agrícola (5). In April 2021, Asa Agrícola Santo Antônio S.A. received authorization for the clearance of 1,345 hectares at Fazendas Santo Antônio I, II, III, IV, V and VI, valid until April 2024 (6). The company also obtained authorization for the clearance of 1,176 hectares at Fazenda São Joaquim and São Luiz valid until April 2023 (7).

(1) <https://www.agrimidia.com.br/negocios/mercado-interno/os-melhores-do-agronegocio/>

(2) <https://novo.org.br/novo/conheca/historia-do-novo/>

(3) <https://causaoperaria.org.br/2023/latifundiarios-estao-financiando-conflitos-entre-indios-pataxo/>

(4) <https://terrasindigenas.org.br/pt-br/noticia/155535>

(5) <https://www.gruposantaisabel.com.br/csi/empresa#>

(6) Inema Bahia database

(7) https://forcainvicta.com.br/wp-content/uploads/2021/06/doe_2021-06-11_completo-1.pdf

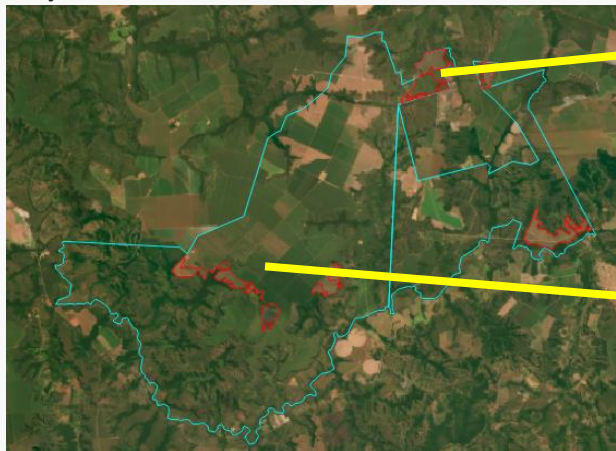
Property			
Fazenda Cana Brava - Tapuio I and II			
Carolina, Maranhão		Cerrado biome	
CAR:	MA-2102804-AB8C650B69264E7ABA2F30F8ABE787BE, MA-2102804-02024FE44A5342AAA8999312B52FFEBB, MA-2102804-CCB878EA889A48C084913BADA31F1D81, MA-2109502-A144B9AB006C4E76A29931B7127BAB6D	SIGEF/SNCI:	8160271598919
Area property (ha):	32,442	Coordinates property:	-7.95679,-46.96113
Cleared Area			
Coordinates clearance:	-7.865379,-46.902005, -7.95530,-46.83856, -8.00022,-46.98999, -7.98178,-46.96292, -7.97047,-47.03938		
1,307 hectares	period clearance:	February to June '24	
90,705 tons of CO ₂			
- fires alerts			
Inside Forest Code's protected areas:	Yes	477 ha inside declared Legal Reserve and APP	
Type of vegetation:	Forested Savanna, Park Savanna	Priority for Biodiversity Conservation:	No
Conservation area(s) (overlapping or bordering):	-		
Indigenous Territories (overlapping or bordering):	20km from the Indigenous Territory Kraolândia (Krahô people)		

Imagery: limits of the property (green), limits of the cleared area (red)
January 2024



Source: Imagery ©2024 Planet Labs Inc.

May 2024



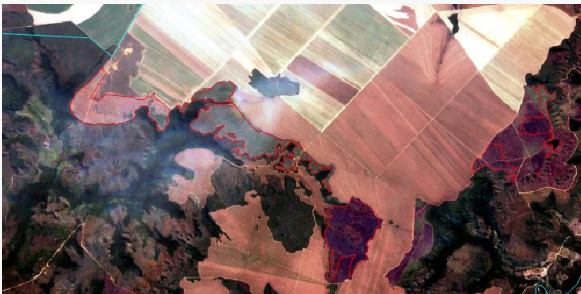
Source: Imagery ©2024 Planet Labs Inc.

About 535 ha of the native vegetation cleared area falls into the FAO Forest definition and is non-compliant with the EUDR

June 2024 – burned area



Processed image. Source: European Union - EO Browser Copernicus Sentinel data 2024



Processed image. Source: European Union - EO Browser Copernicus Sentinel data 2024

Environmental fines and embargoes

Embargoes:	No	-	
Environmental fines:	No	-	-

Ownership and other linked properties

Ownership:	Agropecuária Canabrava
Company group:	Grupo Samara Agronegócios. Agropecuária Canabrava is registered as a soy-producing company in Balsas (MA) and owned by the Samara family (Jamil Samara Gaia, Jamil João Samara, Luciano Samara, Marco Antônio Sarkis Samara). Linked companies are Agropecuária Rio Branco (a soy-producing company registered in Carolina - MA); JJ Incorporadora e Agronegócios (holding registered in Pastos Bons - MA); and Agropecuária Samara (registered in Alto Taquari - MT, Costa Rica - MS, and Ponta Grossa - PR)
Linked properties:	At least 5 other properties totalling 1,960 ha. In Pastos Bons (MA): Fazenda Chapada do Bacuri (445 ha). In Nova Iorque (MA): Fazenda Gangorra (325 ha), Fazenda Chapada da Costela (430 ha), Gleba Unha de Gato e Marmelada (560 ha). In Alto Parnaíba (MA): Fazenda Baixa da Mamona II (200 ha). Grupo Samara states that it has properties also in São Domingos do Azeitão (MA) and Carolina (MA), but we could not find any info.

Supply chain links

Main Commodities	Soy		
Level of certainty of a potential trading link to soy trader/ beef processor		Low	Bunge, Cargill
The link to Cargill was maintained as the company informed that, among the properties listed in the present RDM report, three farms are registered in its system and they had recent negotiations with two of them without disclosing names.			
Soy	Warehouses (50 km radius)	18 silos, including 1 from Bunge and 1 from Cargill	
	Supply chain links & details:	The property had at least 8,500 ha of soy in 2022.	
Other supply chain links and details:		-	

General comments

The Samara Agronegócios Group is mentioned as the owner of one of the highest soy-productivity properties in Maranhão in 2022 in an advertisement of a soybean variety commercialised by Bayer (1). In 2018, the company JJ Agronegócios, linked to Samara Group, was one of the soy traders that received environmental fines from the Federal Environmental Agency (IBAMA) for purchasing soy produced in an embargoed area in Balsas (MA). The company JJ Agronegócios received a fine of BRL 110,000, Cargill of BRL 5 million, and Bunge of BRL 1,87 million, among the fines received by other companies (2). In March 2023, Jamil João Samara was fined by the Maranhão Environment Secretariat for carrying out aerial spraying without registration, not having a decontamination yard and storing product packaging inappropriately on the linked property Fazenda Cacimbas (3). In 2021, the deforestation of an area at Fazenda Cacimbas resulted in impacts on three communities in São Domingos do Azeitão, affecting 30 families who had their subsistence production affected by mud. The families filed a lawsuit against Jamil João Samara, who was ordered to recover the deforested area (4).

(1) <https://www.agro.bayer.com.br/nossa-bayer/release-area-de-refugio-em-soja>

(2) <https://istoedinheiro.com.br/algar-bunge-e-cargill-sao-multadas-por-comprar-graos-de-producao-ilegal/>

(3) <https://pesquisa.in.gov.br/imprensa/servlet/INPDFViewer?jornal=530&pagina=3&data=28/03/2023&captchafield=firstAccess>

(4) <https://fetaema.com/wp-content/uploads/2023/03/Livro%20FETAEMA%202.pdf>

Property				
Fazenda Engano				
Alto Parnaíba, Maranhão			Cerrado biome	
CAR:	MA-2100501-B26A19165D864602B58FA9AC1755AD2A		SIGEF/SNCI:	1140140110884
Area property (ha):		2,337	Coordinates property:	-8.9622, -46.4486
Cleared Area				
Coordinates clearance:		-8.9487, -46.4517		
578 hectares		period clearance:	December 2023 to April 2024	
28,887 tons of CO ₂				
- fires alerts				
Inside Forest Code's protected areas:	No	-	-	
Type of vegetation:	Savanna Park	Priority for Biodiversity Conservation:		High
Conservation area(s) (overlapping or bordering):		-		
Indigenous Territories (overlapping or bordering):		-		

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

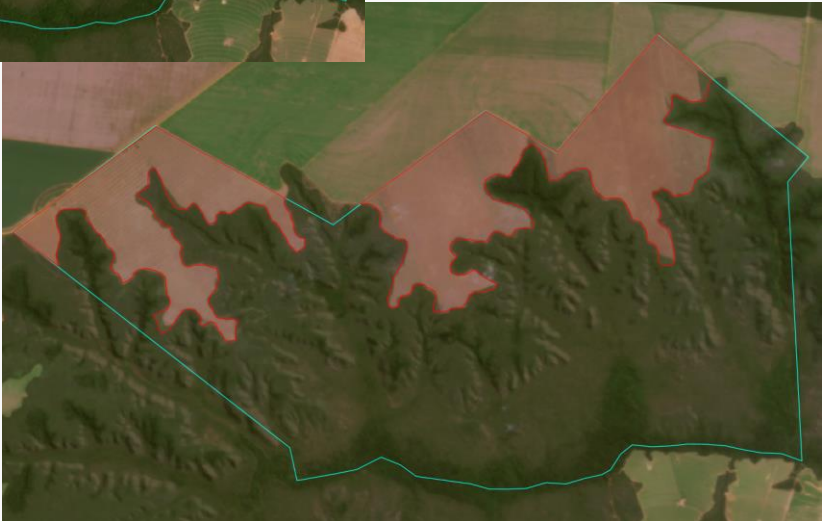
December 2023



Source: Imagery ©2023 Planet Labs Inc.

About 127 ha of the native vegetation cleared area falls into the FAO Forest definition and is non-compliant with the EUDR

April 2024



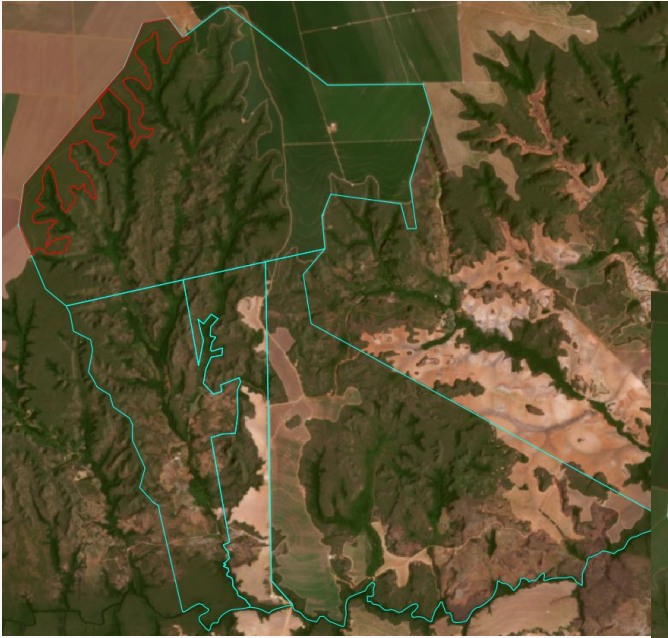
Source: Imagery ©2024 Planet Labs Inc.

Environmental fines and embargoes			
Embargoes:	Yes (other links)	2 embargoes for clearing native vegetation without authorization: 386 ha in Fazenda Ponta da Serra (Balsas - MA), in 2011; 148 ha in Fazenda Baixão Fechado (Santa Filomena - PI), in 2009	
Environmental fines:	Yes	at least 3 environmental fines for clearance of native vegetation without proper authorization: 1 for 150 ha in Santa Filomena, in 2000; 1 for 148 ha in Fazenda Baixão Fechado (Santa Filomena - PI) in 2009; 1 for 386 ha in Fazenda Ponta da Serra (Balsas - MA), in 2011	BRL 60,000
Ownership and other linked properties			
Ownership:	Agropecuária Marimbondo		
Company group:	De Carli's family owns 16 different companies, among which: De Carli Empreendimentos e Participações, Codeca - Colonizadora de Carli, Agropecuária Caracol, Agropecuária Marimbondo, and Agropecuária Centauro		
Linked properties:	At least 16 other properties totaling 50,712 ha. In Santa Filomena (PI): Fazenda Kajubar (9,377 ha), Fazenda Primavera (1,126 ha), Fazenda Salto (1,187 ha), Fazenda Tagi (2,579 ha), Fazenda Zodorica (413 ha), Fazenda Belo Monte (173 ha) and Fazendas Novas e Outras (4,996 ha); in Alto Parnaíba (MA): Fazenda Mangabeira (1,805 ha), Fazenda Gleba Serra (363 ha), Fazenda Altamira (1,021 ha), Fazenda Cristalina (3,611 ha) and Fazenda São Francisco (17,785 ha); in Riachão (MA): Fazenda Chapadinha Primeira do Norte (440 ha); in Balsas (MA): Fazenda Ponta da Serra (2,798 ha); in Itacajá (TO): Fazenda Telha (1,007 ha); in Santa Maria do Tocantins (TO): Fazenda Porto Alegre (2,301 ha)		
Supply chain links			
Main Commodities		Soy	
Level of certainty of a potential trading link to soy trader/ beef processor		Low	Bunge, Cargill
The link to Cargill was maintained as the company informed that, among the properties listed in the present RDM report, three farms are registered in its system and they had recent negotiations with two of them without disclosing names.			
Soy	Warehouses (50 km radius)	16 silos, including 2 from SLC Agrícola	
	Supply chain links & details:	The property had at least 2,000 ha of soy in 2022.	
Other supply chain links and details:		-	
General comments			
<p>Agropecuária Marimbondo, one of the companies through which Euclides de Carli operated, sold the property Fazenda Marimbondo in Alto Paranaíba (MA) to Tellus Agropecuária (1), one of the subsidiaries of Radar, linked to the TIAA (2). Fazenda Marimbondo, the south part of the property under alert, is part of TIAA's farmland portfolio, and it is linked to the TCGA II investment fund (3). On the Nuveen website, the TIAA's farmland investment manager, the property Fazenda Marimbondo appears as "leased", but there is no information about who is operating it (3). The TCGA farmland investment vehicles include in its portfolio of investors global pension fund companies such as AP2 (Sweden), BCI (Canadá), and ABP (Netherlands), among others (2). The estimated land portfolio linked to TIAA (through Radar and other subsidiaries) is about 15 properties in Maranhão, Piauí and Bahia states, totalling at least 95 thousand hectares, among which at least nine properties (around 28 thousand hectares) are leased to SLC Agrícola (2). The north part of the property under alert, Fazenda Engano, where the reported deforestation is, does not appear in TIAA's farmland portfolio. We also could not find any information about selling operations involving Fazenda Engano. However, the local Agrarian Court estimates that 300,000 ha of land in Maranhão and Piauí states are linked to De Carli's land-grabbing crimes and also accused of violence and threats connected to invasions of lands occupied by local communities (4, 5, 6, 7).</p> <p>(1) https://www.teses.usp.br/teses/disponiveis/8/8136/tde-23062023-114657/publico/2023_BrunoRezendeSpadotto_VCorr.pdf (2) https://www.aidenvironment.org/wp-content/uploads/2021/07/Radar-company-report-2.pdf (3) https://www.nuveen.com/global/investment-capabilities/real-assets/farmland/map (4) https://jornaldebrasil.com.br/noticias/brasil/alvo-de-pistoleiros-juiz-faz-cruzada-solitaria-contra-grileiros/ (5) https://reporterbrasil.org.br/2018/09/empresario-euclides-de-carli-acusado-mortes-roubo-terras-nordeste/ (6) https://www.nytimes.com/2015/11/17/world/americas/tiaa-cref-us-investment-giant-accused-of-land-grabs-in-brazil.html (7) https://apublica.org/2023/05/cosan-e-fundo-de-pensao-dos-eua-compraram-terras-de-acusados-de-grilagem-no-brasil/</p>			

Property			
Fazenda Eldorado, Fazenda Serra Negra (Data Nazaré)			
Balsas, Maranhão		Cerrado biome	
CAR:	MA-2101400-3FFAA30B9CE74689B3D56F2A10E08F7B, MA-2101400-02CB890A3AD74FFF959B5846C096A655, MA-2101400-D43F6F53B5104D92AF3AE5323FF6B27B, MA-2101400-C0C83519A6684A48A79D4328E8445A9E, MA-2101400-C03526010D7C400D836A16E15FCDC2DB	SIGEF/ SNCI:	9999704024789; 9999708143855
Area property (ha):	7,385	Coordinates property:	-8.4408, -46.4313
Cleared Area			
Coordinates clearance:		-8.4321, -46.4577	
276 hectares	period clearance:	December 2023 to January 2024	
13,794 tons of CO2			
4 fires alerts			
Inside Forest Code's protected areas:	No	-	-
Type of vegetation:	Wooded 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)

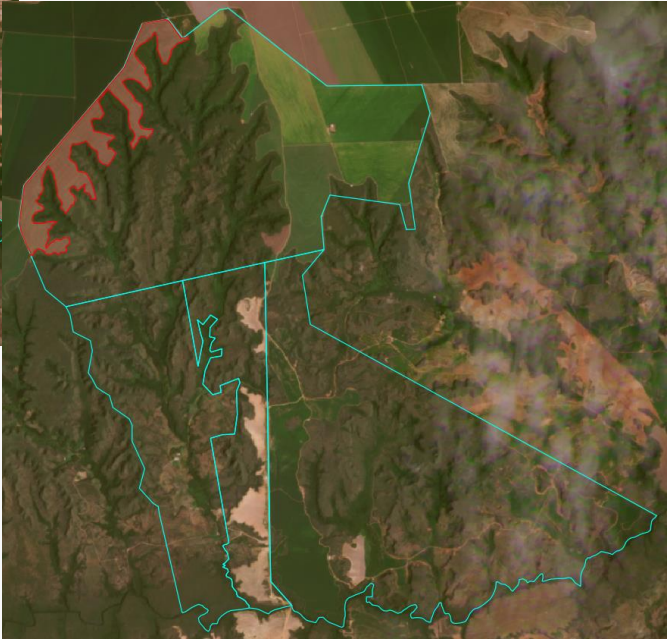
December 2023



Source: Imagery ©2023 Planet Labs Inc.

About 45 ha of the native vegetation cleared area falls into the FAO Forest definition and is non-compliant with the EUDR

January 2024



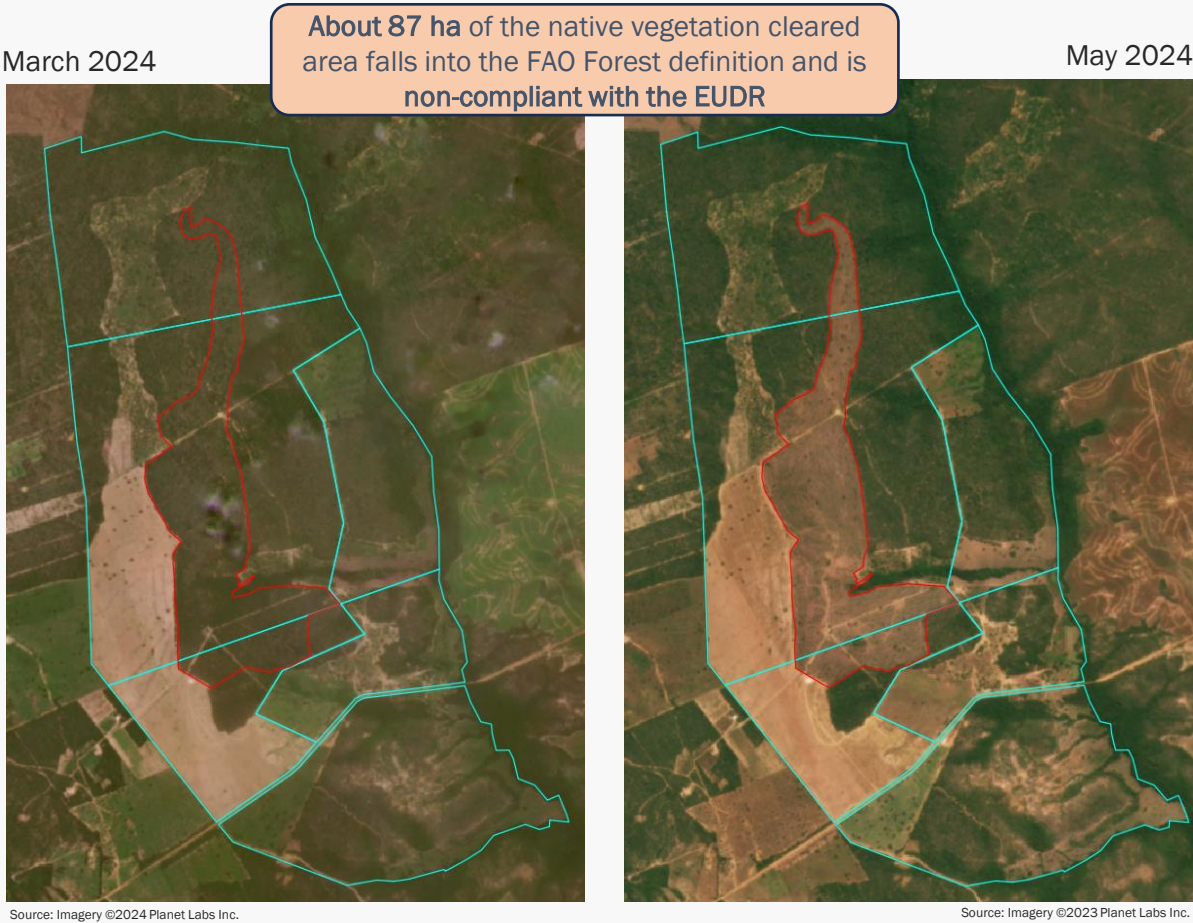
Source: Imagery ©2024 Planet Labs Inc.

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-
Ownership and other linked properties			
Ownership:	Marcos da Motta Mello, Paulo César da Motta Mello		
Company group:	Motta Mello Agronegócios (Taruma Agro), registered as a cattle-producing company in Balsas (MA). MDGC Incorporadora e Empreendimentos, registered as a real estate company in Balsas (MA). Motta Mello family is also active in fuel distribution (gas stations) in several cities in Maranhão.		
Linked properties:	6 linked properties totalling at least 258 ha. In Balsas (MA): Fazenda Alterosa (77 ha), Chácara Recreio (17 ha), Chácara 3M (34 ha), Chácara Novo Acordo (unknown area), Fazenda Bom Jesus (65 ha), Fazenda Camoína and Campina II (65 ha)		
Supply chain links			
Main Commodities	Soy		
Level of certainty of a potential trading link to soy trader/ beef processor		Low	Bunge, Cargill
The link to ADM was removed as the company stated that it has no commercial relationship with the property. The link to Cargill was maintained as the company informed that, among the properties listed in the present RDM report, three farms are registered in its system and they had recent negotiations with two of them without disclosing names.			
Soy	Warehouses (50 km radius)	35 silos, including 1 from ADM, 1 from Bunge, and 1 from Cargill	
	Supply chain links & details:	The properties had at least 1,200 ha of soy in 2022.	
Beef - supply chain links & details		A linked property, Chácara 3M, indirectly supplied cattle to local slaughterhouses between in 2023	
Other supply chain links and details:		-	
General comments			
A member of the "da Motta Mello" family, Débora Cristina Vieira da Motta Mello, is the coordinator of social projects of the Agrex Instituto, owned by Agrex do Brasil, a subsidiary of the Mitsubishi Group in Brazil (1).			

(1) <https://www.agrex.com.br/institucional/#sobre>

Property			
Fazenda Capim Branco (Parte 01), Fazenda Marrúas			
Balsas, Maranhão		Cerrado biome	
CAR:	MA-2101400-918FBDD5FF7142489F7D07884EEBE8D6, MA-2101400-8419A48BB6234004BA352946021A0311, MA-2101400-10D7C0B9DC1A44788C1A9178CCC7A152	SIGEF/ SNCI:	9510216587317, 1140220087530
Area property (ha):		777	Coordinates property: -7.4332, -45.9073
Cleared Area			
Coordinates clearance:		-7.4332, -45.9111	
105 Hectares		period clearance:	March to May '24
5,248 tons of CO ₂			
- fires alerts			
Inside Forest Code's protected areas:		Yes	32 ha inside declared Legal Reserve
Type of vegetation:	Wooded 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)

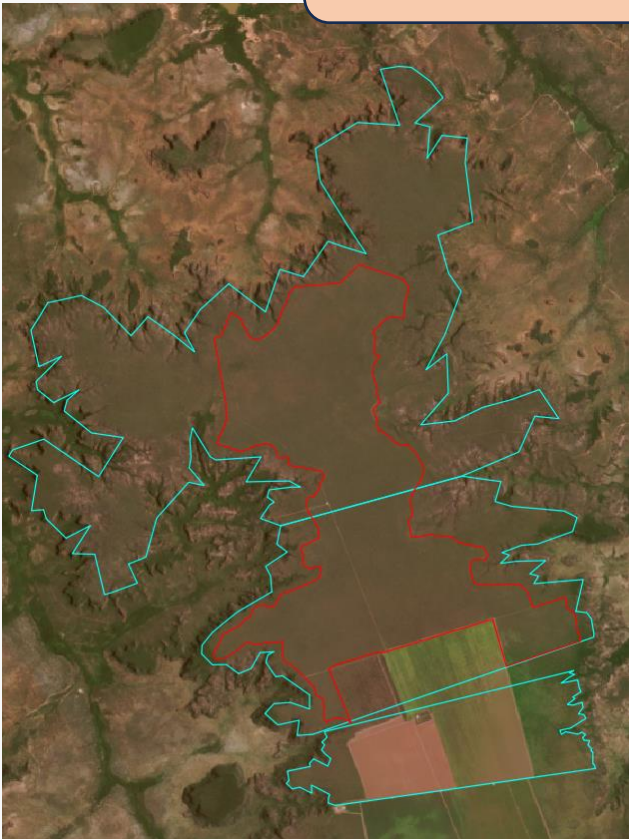


Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-
Ownership and other linked properties			
Ownership:		Ricardo Fontana, Rita Maria Fontana	
Company group:		No linked company identified	
Linked properties:		2 other linked properties, unknown area. In Balsas (MA): Fazenda Lote 11 (unknown area), Fazenda Testa Branca (unknown area)	
Supply chain links			
Main Commodities		Soy	
Level of certainty of a potential trading link to soy trader/ beef processor		Low	Bunge, Cargill
The link to ADM was removed as the company stated that it does not have a commercial relationship with the property. The link to Cargill was maintained as the company informed that, among the properties listed in the present RDM report, three farms are registered in its system, and they had recent negotiations with two of them without disclosing names.			
Soy	Warehouses (50 km radius)	37 silos, including 1 from ADM, 2 from Bunge, and 4 from Cargill	
	Supply chain links & details:	The properties did not have soy cultivated until 2022, but it is close to another small soy area.	
Beef - supply chain links & details		Fazenda Capim Branco and other linked properties, indirectly supplied cattle to local slaughterhouses in 2023	
Other supply chain links and details:		-	
General comments			

Property				
Fazenda Quilombo				
Bom Jesus, Piauí			Cerrado biome	
CAR:	PI-2201903-BD069A12D0164F7C9E3F08A502EE6CE5, PI-2201903-FCEAA553F71F444D916ED9D7614EBFA3, PI-2201903-AE05BC0B494B47FA90419FD6EA912893, PI-2201903-0700DAA4086345D68B8EA6AA93881B74, PI-2201903-7EE9772B30B94D0AABB2431B67612170, PI-2203230-94599FBC9D744D0D9F6BE29C63071266		SIGEF/ SNCI:	9501736184623, 1260390254020
Area property (ha):		5,839	Coordinates property:	-9.0552, -44.9743
Cleared Area				
Coordinates clearance:		-9.0309, -44.9807		
2,159 hectares		period clearance:	March to May '24	
107,900 tons of CO ₂				
- fires alerts				
Inside Forest Code's protected areas:		Yes	646 ha inside declared Legal Reserve	
Type of vegetation:	Wooded Savanna		Priority for Biodiversity Conservation:	Extremely high
Conservation area(s) (overlapping or bordering):			7 km from the Estação Ecológica de Uruçuí-Una	
Indigenous Territories (overlapping or bordering):			-	

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

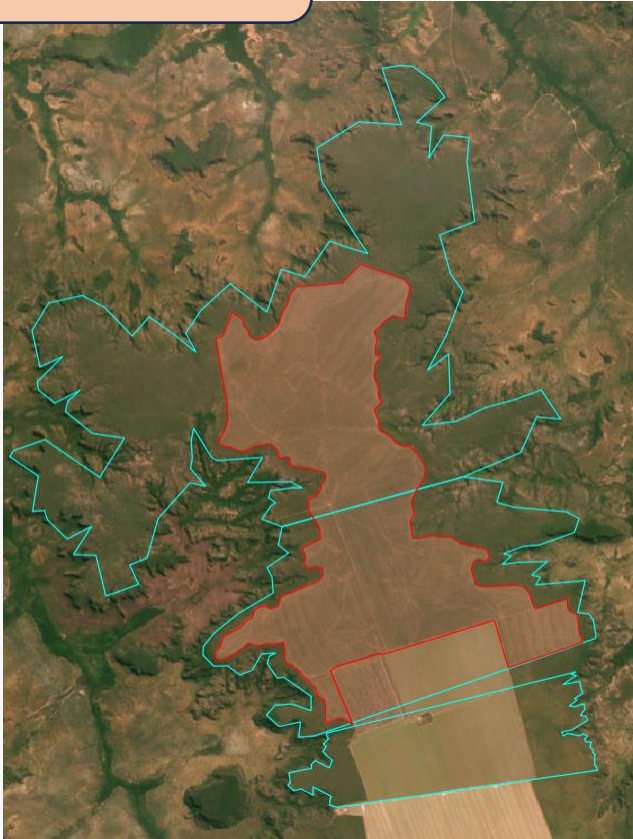
March 2024



Source: Imagery ©2023 Planet Labs Inc.

About 65 ha of the native vegetation cleared area falls into the FAO Forest definition and is non-compliant with the EUDR

May 2024



Source: Imagery ©2024 Planet Labs Inc.

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-
Ownership and other linked properties			
Ownership:	Fazenda QBO Empreendimentos e Participações (Ademar Diógenes Lustosa)		
Company group:	M & A Empreendimentos Imobiliarios, a real state company registered in Teresina (PI), Elvas e Elvas, a contractor company registered in Bom Jesus (PI) and Teresina (PI). Fazenda QBO Empreendimentos e Participações is based in São Paulo (SP) and owned by Sequoia Empreendimentos e Participações, Fábio Greco, and Amaury Fonseca Junior. Fabio Greco and Amaury Fonseca Junior partner in 39 real estate and investment companies.		
Linked properties:	10 other linked properties totalling 22,850 ha. In Bom Jesus (PI): Fazenda Novo Horizonte (2,215 ha), Fazenda Santa Tereza (1,483 ha), Fazenda Nossa Senhora de Fátima (1,840 ha), Fazenda Nossa Senhora da Conceição (1,268 ha), Fazenda Santa Cecilia (501 ha), Fazenda Esperança (2,360 ha), Fazenda Areia (1,535 ha), Bixão do Quilombo (10,780 ha), Fazenda Santa Maria (824 ha), Escalvado (43 ha).		
Supply chain links			
Main Commodities		Soy	
Level of certainty of a potential trading link to soy trader/ beef processor		Low	Bunge
Soy	Warehouses (50 km radius)	37 silos, including 2 from Bunge,	
	Supply chain links & details:	The property had at least 670 ha of soy in 2022.	
Other supply chain links and details:		-	
General comments			

Ademar Diógenes Lustosa is an entrepreneur from Bom Jesus (PI) (1). In 1998, Lustosa bought Fazenda Quilombo from Ademar Queiroz Diógenes and Maria do Carmo Pequeno Diógenes, both already deceased (2). An Environmental Impact Study from February 2022 indicates that Fazenda Quilombo is managed by the company Fazenda QBO Empreendimentos e Participações, owned by Sequoia Empreendimentos e Participações, Fábio Greco, and Amaury Fonseca Junior (3). The company requested authorization for the clearance of 3,050 hectares of native vegetation at Fazenda Quilombo to implement grain cultivation (4), which was issued by the Environmental Agency of Piauí in July 2023 and is valid until July 2027 (5).

- (1) https://br.linkedin.com/in/ademar-diogenes-lustosa-4539b9225?trk=public_profile_samename-profile
- (2) <https://www.jusbrasil.com.br/processos/113851051/processo-n-000XXX-4820168180042-do-tjpi>
- (3) <https://siga.semar.pi.gov.br/media/uploads/2023/06/19/16d8b717-a646-4d24-83b1-fcccfcd837c7.pdf>
- (4) <https://cruzagrafos.abraji.org.br/graph/#node/286b4ed9-4ac9-512e-b055-16a46d0a4f92>
- (5) Piauí State Environmental Agency database

Property			
Fazenda Campo Verde, Fazenda Agua Limpa, Fazenda Paraíso, Fazenda Cabeceira Verde, Fazenda Unigigel			
Campos Lindos, Tocantins		Cerrado biome	
CAR:	TO-1703842-E455101F4504486FAF2B3063C2D269EA		SIGEF/SNCI: 0000433872231
Area property (ha):	2,782	Coordinates property:	-8.1565, -46.7229
Cleared Area			
Coordinates clearance:		-8.1741, -46.7103	
439 Hectares		period clearance:	January to April 2024
21,940 tons of CO2			
- fires alerts			
Inside Forest Code's protected areas:	No	-	-
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)

January 2024



Source: Imagery ©2023 Planet Labs Inc.

About 213 ha of the native vegetation cleared area falls into the FAO Forest definition and is non-compliant with the EUDR

April 2024



Source: Imagery ©2024 Planet Labs Inc.

Environmental fines and embargoes

Embargoes:	Yes (other links)	Unauthorized construction in a mandatory preservation area of a property in Palmas (TO) in 2007	
Environmental fines:	Yes (other links)	At least 9 environmental fines in linked properties. In Ceseara (TO), for clearing 144 ha of native vegetation without proper authorization in 2004, non-compliance with the same embargoed area in 2012, and illegal use of agrochemicals in 2010. In Palmas (TO), for construction in a mandatory preservation area in 2004. In Pium (TO), for illegal use of agrochemicals in Fazenda Imperador in 2012. In Chapadão do Céu (TO), for illegal use of agrochemicals twice in 2017. In Formosa do Araguaia (TO), for illegal use of agrochemicals, twice, in 2019.	BRL 731,925

Ownership and other linked properties

Ownership:	Fausto Vinícius de Guimarães Garcia		
Company group:	Formoso Agropecuária, a soy-producing company registered in Chapdão do Sul (MS), Costa Rica (MS). FB Agropecuária, a seed-producing company registered in Lagoa da Confusão (TO). Uniggel Agroindústria de Algodão (Uniggel Cotton), registered in Campos Lindos (TO) and Chapadão do Céu (GO). Sinergia, registered as an agricultural consultancy company in Porto Nacional (TO). Centro Tecnológico para Pesquisas Agropecuária, a training company registered in Goiânia (GO). Formoso Participações, a non-financial holding registered in Chapadão do Sul (MS).		
Linked properties:	In Campos Lindos (TO): Fazenda Cabeceira Verde II (667 ha), Fazenda Serra Bonita II (325 ha), Fazenda Serra Bonita III (296 ha), Fazenda Pratinha (487 ha). In Pium (TO): Fazenda Santa Maria do Sul (1,800 ha).		

Supply chain links

Main Commodities	Soy		
Level of certainty of a potential trading link to soy trader/ beef processor		Low	Bunge, Cargill
The link to ADM was removed as the company stated that it has no commercial relationship with the property. The link to Cargill was maintained as the company informed that, among the properties listed in the present RDM report, three farms are registered in its system, and they had recent negotiations with two of them without disclosing names.			
Soy	Warehouses (50 km radius)	23 silos, including 1 from ADM, 1 from Bunge and 1 from Cargill	
	Supply chain links & details:	The properties had at least 2,000 ha of soy in 2022.	
Other supply chain links and details:		Cotton	

General comments

Fausto Vinícius received a tribute from the state legislative assembly in May 2024 during the agribusiness fair of Tocantins (1). He is a direct cotton exporter to companies in Pakistan and Indonesia (2).

- (1) <https://www.al.to.leg.br/noticia/14184/assembleia-homenageia-18-produtores-rurais-com-comenda-de-merito-na-agrotins>
 (2) <https://www.volza.com/company-profile/fausto-vinicius-de-guimaraes-garcia-812545/>

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).

CO₂ Emissions

The calculation of CO₂ 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 CO₂ 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.

For more info, please contact:

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