

May 2024

Realtime Deforestation Monitoring System 20



*Soy and cattle supply chains
Amazon, Pantanal and Cerrado biomes - Brazil*

Updated in
September
2024



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Aidenvironment develops **Realtime Deforestation Monitoring (RDM)** reports to engage companies in urging action regarding 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, deforestation rates are mainly linked to the expansion of Soy and Cattle production within the Amazon, Pantanal and Cerrado biomes.

The RDM 20 report of May 2024 highlights 9 case studies linked to the beef and soy supply chains in the Cerrado, Amazon and Pantanal 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 9 cases present **4,480 hectares of deforestation in Mato Grosso and Mato Grosso do Sul states**. The cases cover deforestation alerts detected between March and April 2024, with visually confirmed deforestation events between April 2023 and April 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 20 report represent a gross emission of up to **1 million tons of CO₂**.

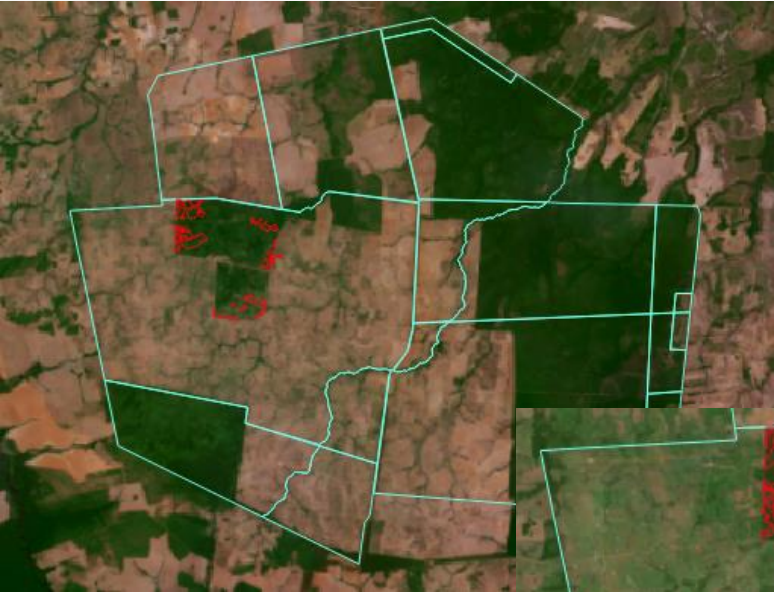
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Property			
Fazenda Rio Preto I			
Canabrava do Norte, Mato Grosso		Amazon biome	
CAR: MT-5102694-FA53FB78D6D24CB2863AD464A48982D7 (validated)		SIGEF/SNCI: 9010830134717	
Area property (ha):	33,845	Coordinates property:	-11.43146,-51.66581
Cleared Area			
Coordinates clearance:		-11.42438,-51.77617	
521 Hectares	period clearance:	November and December 2023	
223,671 tons of CO2			
- fires alerts			
Inside Forest Code's protected areas:	Yes 494 ha inside declared Legal Reserve and APP		
Type of vegetation:	Contact between savanna and rainforest	Priority for Biodiversity Conservation:	Extremely high
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		bordering the Indigenous Territory Marãiwatsédé (Xavante people)	

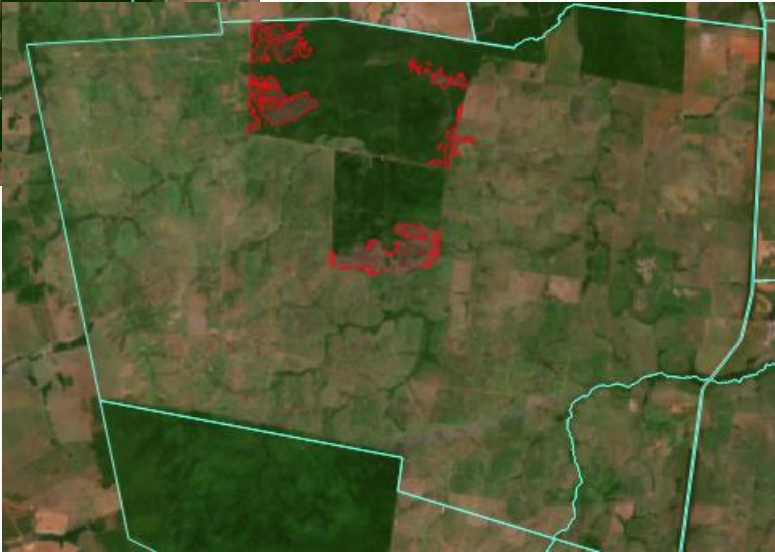
Imagery: limits of the property (green), limits of the cleared area (red)

October 2023



About 70 ha of the native vegetation cleared area falls into the FAO Forest definition and is non-compliant with the EUDR

January 2024



Source: Imagery ©2023 Planet Labs Inc.

Source: Imagery ©2024 Planet Labs Inc.

Environmental fines and embargoes		
Embargoes:	Yes	2 embargoed areas in Canabrava do Norte (MT): 1 issued by Sema-MT in 2022 due to illegal deforestation of 2,537 hectares at Fazenda Rio Preto I and 1 issued by Ibama in 2021 due to illegal deforestation within the legal reserve of Fazenda Rio Preto. Romão Ribeiro Flor also has 2 embargos issued by Sema-MT in 2023 and 2024 linked to Fazenda Rio Preto II (São Félix do Araguaia - MT) due to illegal deforestation of 71,7 hectares.
Environmental fines:	Yes	13 environmental fines by Romão Ribeiro Flor. 1 fine in 1998 at Fazenda Rio Preto for the burning of 900 hectares of farm waste without permission (São Félix do Araguaia - MT). The following 12 environmental fines are all in Canabrava do Norte (MT): 1 environmental fine in 1999 for the destruction and clearing of native vegetation in a permanent preservation area; 2 environmental fines in 2005 for the use of fire on 570 hectares of pasture area without authorization; 5 environmental fines in 2009 - 1 for the destruction of 3,103 hectares of native vegetation in a special preservation area, 1 for the storing of 115m³ of wood chips without the proper license, 1 for the use of fire on 1,946 hectares of agricultural and pastoral land without authorization, 1 for the building of a grain bin on Fazenda Rio Preto without license, and 1 for the omitting information when submitting documents to IBAMA; 1 environmental fine in 2011 linked to an embargoed area; 1 environmental fine in 2012 for failing to comply with an embargo through livestock activity on an area of 43 hectares; 1 environmental fine in 2014 for the unauthorized burning of 121 hectares of agropastoral area in 2005; 1 environmental fine in 2021 for the unauthorized destruction of 2,746 hectares of native vegetation within the legal reserve area of Fazenda Rio Preto. The Espólio de Sebastião Ribeiro Flor also has 2 environmental fines due to illegal deforestation in Fazenda Rio Pedro (São Félix do Araguaia-MT): 1 in 2004 due to deforestation of 698 hectares and 1 in 2005 due to illegal deforestation of 750 hectares.
Ownership and other linked properties		
Ownership:	Espólio de Sebastião Ribeiro Flor, Romão Ribeiro Flor	
Company group:	Armazéns Gerais Modelo (Anicuns - GO), Agropecuária Nacional (inactive) (Goiânia - GO)	
Linked properties:	5 linked properties, totaling at least 10,568 ha. In Planaltina (GO): Fazenda Barreiro Preto (250 ha). In Anicuns (GO): Fazenda Estrela (unknown area), Fazenda Califórnia Confinamento (unknown area), São Domingos da Boa Esperança (5,288 ha). In Turvânia (GO): Fazenda Califórnia (5,280 ha)	

Supply chain links

Main Commodities	Beef and Soy	
Level of certainty of a potential trading link to soy trader/ beef processor	Medium / Low	JBS, Minerva / Bunge

The link to **Marfrig** was removed as the company closed its operations in Nova Xavantina (MT) in December 2019, and Fazenda Rio Preto I has been blocked from its supplier list. The link with **Minerva** was changed from High (direct supplier) to Medium (indirect supplier) as the company stated that the property Fazenda Rio Preto I has been blocked from its supplier list but did not deny links to other indirect suppliers (such as Fazenda Califórnia Confinamento in Turvânia – GO). The link to **Amaggi** was removed as the company reported having no commercial relationship with the property.

Soy	Warehouses (50 km radius)	15 silos within a 50 km radius from the property, including: 1 owned by Amaggi, 2 by Bunge
	Supply chain links & details:	Soy was cultivated in the area in 2021. In 2019, the linked properties Fazenda Imburana and Fazenda Santa Germen, both in Brasnorte (MT), supplied soy to Amaggi (1)

Beef - supply chain links & details

Romão Ribeiro Flor is a direct supplier of Minerva. Between 2022 and 2023, Minerva bought cattle from Ribeiro Flor's farm (unknown property) 324 times. Also, indirectly supplied to Minerva (Palmeiras de Goiás - GO) and Minerva (José Bonifácio - SP) in 2018 through the property Fazenda California (confinamento) (same ownership; Romão Ribeiro Flor) (Turvânia - GO). Indirectly supplied to JBS (Água Boa - MT), Marfrig (Nova Xavantina - MT), JBS (Confresa - MT), and JBS (Barra Do Garças - MT) in 2018 through the property Fazenda Marina I (ownership Sergio Eduardo Ribeiro) (Vila Rica - MT). Indirectly supplied to JBS (Água Boa - MT) and JBS (Confresa - MT) in 2018 through the property Fazenda Tapiraguaia (ownership Osny Alvarenga) (Santa Terezinha - MT). Indirectly supplied to JBS (Confresa - MT) in 2018 and 2019 through the property Fazenda Três Cores (ownership Hilario Moacir Herter) (Confresa - MT).

Other supply chain links and details:

-

General comments

Besides indirectly supplying JBS (Confresa - MT) and Minerva (Palmeiras de Goiás - GO), the properties' cluster of Fazenda Rio Preto is also a known supplier of JBJ Agropecuária, a beef company established by the eldest brother of JBS's family owners (2). The owner of the Rio Preto farms, Romão Ribeiro Flor, is allegedly linked to numerous environmental and social crimes. In 2004, 18 workers were rescued from slave labor conditions in Fazenda Rio Preto, and he received a fine of BRL 414,000 (3). In 2009, the Federal Police accused Romão Ribeiro Flor of being involved in land grabbing (grilagem) in the Araguaia region in Mato Grosso, including areas inside the Indigenous Territory Marãiwatsédé (4). In addition, federal prosecutors in the "Operação Pluma" accused Romão Ribeiro Flor of contracting lawyers to illegally grab land in Mato Grosso (5).

(1) undisclosed data

(2) <http://jbiagropecuaria.com.br/>

(3) <https://reporterbrasil.org.br/2007/05/nove-condenacoes-somam-mais-de-10-milhoes-de-reais/>

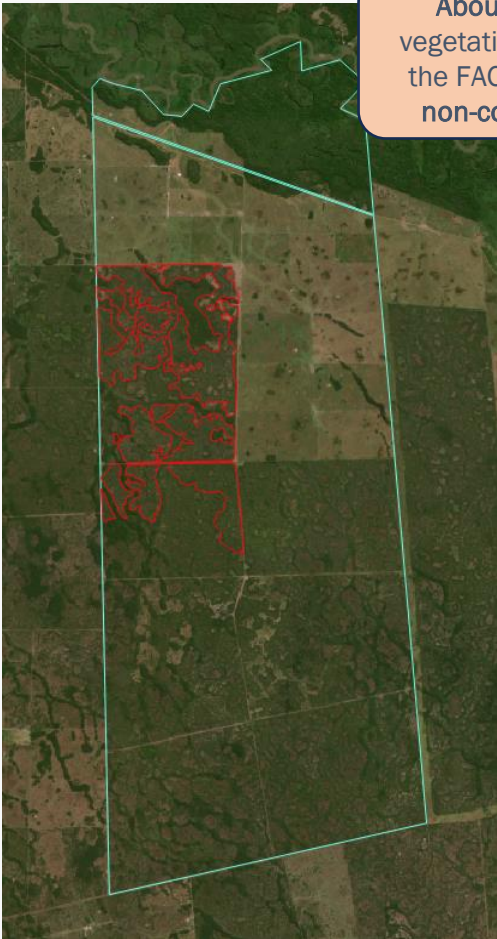
(4) <https://www.olhardireto.com.br/noticias/exibir.asp?id=35122¬icia=entenda-quem-era-quem-no-esquema-de-grilagem-praticado-no-araguaia>

(5) <https://www.rdnews.com.br/ultimas/pecuarista-contrata-advogados-para-desapropriar-terra/15694>

Property			
Fazenda Santa Catarina			
Cáceres, Mato Grosso		Pantanal biome	
MT-5102504- CAR: F9E45B7D3C714407847AFED14F910181 (pending analysis)		SIGEF/SNCI: 9020121370739	
Area property (ha):	9,122	Coordinates property:	-16.32532,-57.92150
Cleared Area			
Coordinates clearance:		-16.35100,-57.92361	
857 hectares		period clearance:	July '23 to January '24
15,695 tons of CO2			
- fires alerts			
Inside Forest Code's protected areas:	No - -		
Type of vegetation:	Seasonal parkland savanna	Priority for Biodiversity Conservation:	Very high
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	

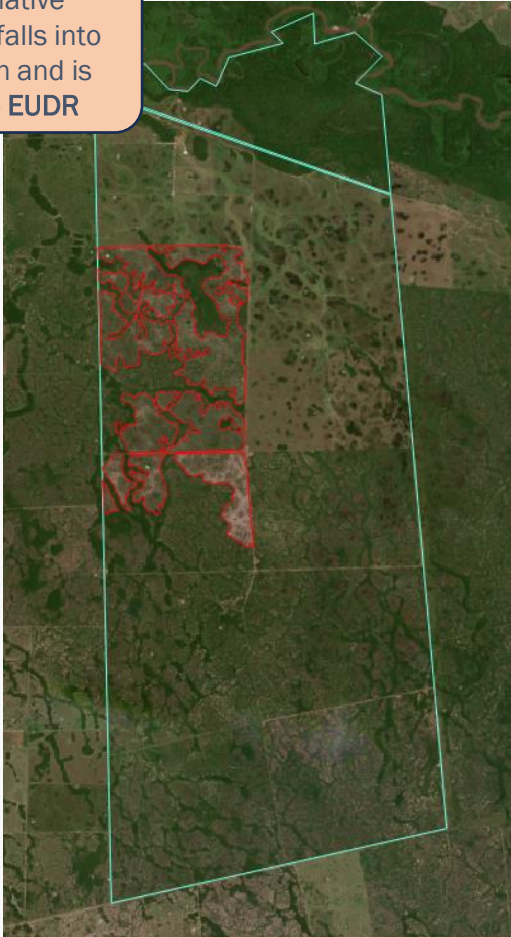
Imagery: limits of the property (green), limits of the cleared area (red)

June 2023



Source: Imagery ©2023 Planet Labs Inc.

January 2024



Source: Imagery ©2024 Planet Labs Inc.

About 800 ha of the native vegetation cleared area falls into the FAO Forest definition and is non-compliant with the EUDR

Environmental fines and embargoes

Embargoes:	Yes	1 embargo in 2020 for clearing 75 ha of native vegetation without authorization in 2019.	
Environmental fines:	Yes	1 environmental fine, issued in 2020, for clearing 75 ha of native vegetation in Fazenda Santa Catarina without authorization in 2019. 1 environmental fine in 2003 in Cáceres (MT) for the clearing of 300 hectares of native vegetation in disagreement with the authorization provided by Ibama.	BRL 30,000

Ownership and other linked properties

Ownership:	José Dalbem, Catarina Maria Mesquista Garcia Dalbem
Company group:	JDCD - Participações Ltda (Raising beef cattle company) registered in Cáceres – MT
Linked properties:	2 linked properties in Cáceres (MT) totalling 6,713 hectares: Fazenda Pescaria II (2,812 ha) and Fazenda Santo Antonio (3,901 ha)

Supply chain links

Main Commodities	Beef		
Level of certainty of a potential trading link to soy trader/ beef processor		High / Medium	JBS / Minerva
The link to Marfrig was removed as the company informed that Fazenda Santa Catarina (Cáceres - MT) has been blocked from its supplier list since 2020 and Fazenda Santo Antônio (direct supplier) since June 2022. The link to Minerva was maintained because although the company informed us that Fazenda Santa Catarina (Cáceres - MT) is blocked from its supplier list, it confirmed trading links to the direct supplier, Fazenda Santo Antônio (Cáceres - MT).			
Soy	Warehouses (50 km radius)	2 silos within a 50km radius from the property, both owned by regional traders	
	Supply chain links & details:	-	

Beef - supply chain links & details

Directly supplied Marfrig (Várzea Grande - MT, Pontes e Lacerda - MT) in 2019, and JBS (Pontes e Lacerda - MT) in 2018. Indirectly supplied JBS (Araputanga - MT, Diamantino - MT) in 2018, 2019 and 2021 through the property Fazenda Santo Antônio (same ownership; José Dalbem) (Cáceres - MT), as well as to Marfrig (Pontes e Lacerda - MT, Várzea Grande - MT) in 2019 and 2022, and Minerva (Mirassol d'Oeste - MT) in 2018 and 2019.

Other supply chain links and details:

-

General comments

The property Santa Catarina was listed in the Greenpeace report "Making Mincemeat of the Pantanal", published in 2021 (1). The report indicated 2,888 ha of native vegetation burned in Fazenda Santa Catarina between July and October 2020. According to the Greenpeace report, Fazenda Santa Catarina and the linked property Fazenda Santo Antônio are certified for beef exports to the EU (1). At the time of the publication of the Greenpeace report, JBS replied by stating a trading connection with the linked farm, Fazenda Santo Antônio, and stating that environmental fines from 10 years ago are not a criterion to block the Santa Catarina farm from their supply chain. Please note that the present RDM report identified an environmental fine issued in 2020 for the illegal clearance of 75 ha of native vegetation in Fazenda Santa Catarina. Marfrig replied that at the date of the trading with Fazenda Santa Catarina, it was complying with the company's public commitments, and Minerva replied stating that the direct supplier (Fazenda Santa Catarina) was blocked from their supply chain on July 2020, but the indirect supplier, Fazenda Santo Antônio at the time of the report publication, was still part of the companies' suppliers (1).

(1) https://www.greenpeace.org/static/planet4-international-stateless/2021/03/77f3941a-0988_gp_pan_mincemeat_v9.95_mixedres.pdf

Property			
Fazenda Virgínia - Parte 1			
Colniza, Mato Grosso		Amazon biome	
CAR:	MT-5103254-9COAE3093A3C4658AB75CBF2781E2066 (pending documents)		SIGEF/SNCI: 9010160430956
Area property (ha):	2,580	Coordinates property:	-9.240441,-60.279962
Cleared Area			
Coordinates clearance:		-9.267144,-60.269761	
439 hectares		period clearance:	January to March 2024
218,621 tons of CO ₂			
- fires alerts			
Inside Forest Code's protected areas:	Yes437 ha inside declared Legal Reserve and APP		
Type of vegetation:	Open-canopy rainforest, submontante	Priority for Biodiversity Conservation:	No
Conservation area(s) (overlapping or bordering):		inside the Reserva Extrativitsa Guariba-Roosevelt (State Conservation Area)	
Indigenous Territories (overlapping or bordering):		close by the Indigenous Territory Kawahiva do Rio Pardo (self-isolated Kawahiva people)	

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

December 2023



Source: Imagery ©2023 Planet Labs Inc.

All the cleared area of the native vegetation 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:	Yes	1 embargo for the exploitation of 44 hectares of native vegetation without authorization in Fazenda Virginia in 2023. 1 embargo for illegal clearance of 180 ha between 2014 and 2018.	
Environmental fines:	Yes	1 environmental fine for illegal clearance of 44 ha of native vegetation in 2023. 1 environmental fine in 2014 in Colniza (MT) for the exploitation of 180 hectares of native vegetation in the Amazon biome without authorization from SEMA.	BRL 272,850
Ownership and other linked properties			
Ownership:	Espólio de Renato Pinto		
Company group:	No linked company identified		
Linked properties:	-		
Supply chain links			
Main Commodities	Beef		
Level of certainty of a potential trading link to soy trader/ beef processor		High	JBS
Soy	Warehouses (50 km radius)	no silos within a 50 km radius	
	Supply chain links & details:	-	
Beef - supply chain links & details		Directly supplied to JBS (Juína - MT, Juara - MT) between 2018 and 2019 and indirectly supplied to JBS (Diamantino - MT) between 2018 and 2019 through the property Fazenda W 1 (ownership Welington Carlos Da Silva) (Nova Marilândia - MT) and Fazenda Guariba VIII (owned by Renato Pinto).	
Other supply chain links and details:		The area is also linked to illegal logging	
General comments			
The property Fazenda Virgínia is inside the Conservation Area "Reserva Extrativista Guariba-Roosevelt", which increased 720% in its deforestation rates in the last 14 years (1). The area borders the Indigenous Territory Kawahiva do Rio Pardo, home of the self-isolated Kawahiva people. This population received special attention when footage of some of their people was widely shown around the globe (2). The area had an increase of illegal invaders in the period between 2019 and 2022 during the Bolsanaro presidential mandate as one of the consequences of the discourse that invaders of public lands would receive the property ownership if they were "producing" in the area. Consequently, most of the deforested area has been occupied by cattle after the removal of timber with market value. The self-isolated Kawahiva indigenous people are under threat by these invasions as they did not have any previous contact with non-indigenous people; a simple flu virus could kill the entire population with no estimated size (3). Not only the indigenous people are under threat but also local and traditional communities living inside the conservation area "Reserva Extrativista Guariba-Roosevelt", which has the livelihood based on the use of forest resources (4). Fazenda Virgínia Parte 2 overlaps with Fazenda Virgínia Parte 1 and is registered in the name of Juliana Santi Sagin Pinto Bergamim, Ana Pereira Pinto, Jefferson Pereira Pinto, Julio Cesar Pereira Pinto, Suely Pinto Reschke, Joaquim Walter Pereira Pinto and Simone Pereira Pinto. In August 2022, Joaquim Walter Pereira Pinto had 226 hectares embargoed at an unknown property in Colniza-MT – of which 8,3 hectares of the cleared area was inside the Kawahiva indigenous land (5).			

(1) <https://oglobo.globo.com/brasil/noticia/2023/05/guariba-roosevelt-desmatamento-recorde-em-reserva-de-mt-aumenta-720percent-em-meio-a-ameacas-contraservidores.ghtml>

(2) <https://www.youtube.com/watch?v=cLgdJfn9B5Y>

(3) <https://survivalbrasil.org/povos/kawahiva>

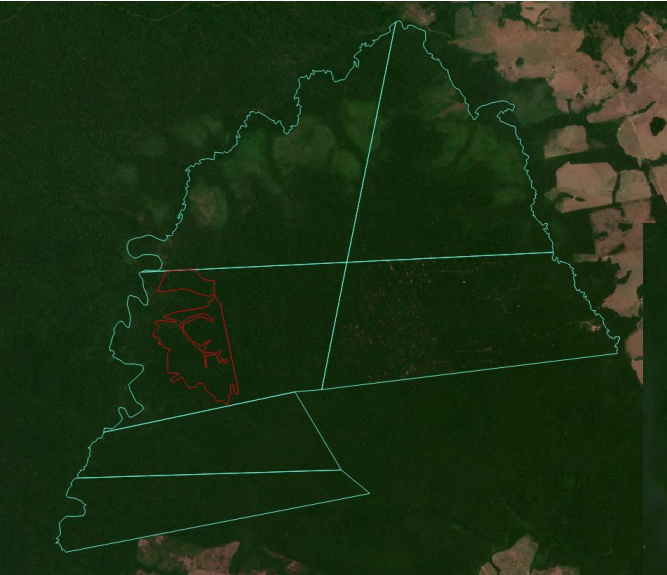
(4) <https://apublica.org/2023/09/o-abraco-da-morte-que-ameaca-grupo-de-indigenas-isolados-em-mato-grosso/>

(5) <https://www1.folha.uol.com.br/ambiente/2023/08/ibama-embargou-15-areas-em-terra-indigena-com-isolados-onde-usina-tenta-garantir-fazendas.shtml>

Property			
Agropecuária G3			
Juína, Mato Grosso		Amazon biome	
CAR: MT-5105150-3FEAC2EB9F3045009EB1D5BF8F0A3F30 (validated)		SIGEF/SNCI: 9010160409590	
Area property (ha):	13,050	Coordinates property:	-11.57373,-59.28526
Cleared Area			
Coordinates clearance:		-11.57894,-59.31628	
530 hectares		period clearance:	October 2023 to March 2024
120,091 tons of CO2			
- fires alerts			
Inside Forest Code's protected areas:	Yes 32 ha inside declared APP		
Type of vegetation:	Seasonal semideciduous submontane forest	Priority for Biodiversity Conservation:	No
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		bordering the Indigenous Territory Parque do Aripuanã (Cinta Larga people)	

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

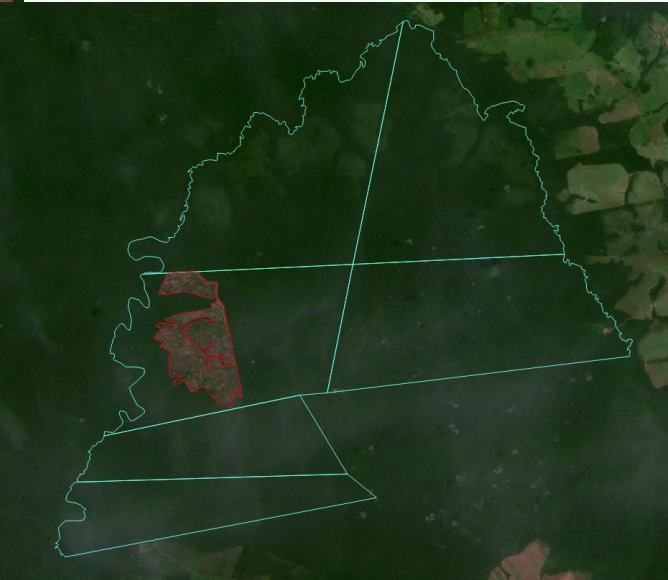
September 2023



Source: Imagery ©2023 Planet Labs Inc.

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

March 2024



Source: Imagery ©2024 Planet Labs Inc.

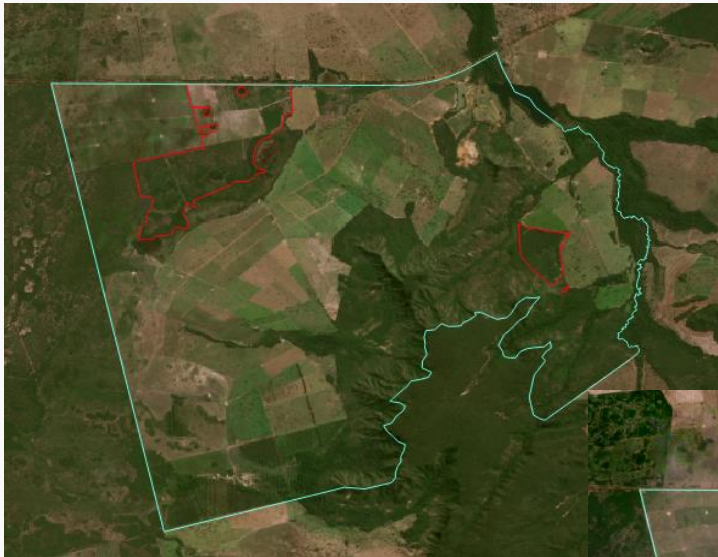
Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	Yes	Masataka Maeda (Maria Maeda's deceased husband) had 5 environmental fines to proceed with wood exploitation without authorization between 1996 and 1999.	BRL 4,778
Ownership and other linked properties			
Ownership:	G3 Agropecuária, Maria de Lourdes Fugihara Maeda, Sergio Massao Maeda, Simone Akemi Maeda		
Company group:	G3 Agropecuária (owned by Valdemir da Silveira) is registered as a cattle-producing company in Juará (MT) and Juina (MT). It is not directly linked to none of the listed Maeda family members.		
Linked properties:	12 linked properties, totalling at least 3,625 ha. In Juina (MT): Fazenda Rancho Alegre II (862 ha), Fazenda Pontal 3 (265 ha), Fazenda Taquaruçu II (1,230 ha), Fazenda Taquaruçu I (1,268 ha), Fazenda Rio Barroso II (unknown area), Fazenda 3S (unknown area). In Juara (MT): Fazenda Guaíra (3,844 ha), Fazenda Anma (unknown area), Fazenda Santa Barbara (unknown area), Fazenda São Francsico (unknown area), Fazenda Urubatan (unknown area). In Novo Horizonte do Norte (MT): Fazenda Araputanga (unknown area)		
Supply chain links			
Main Commodities	Beef		
Level of certainty of a potential trading link to soy trader/ beef processor		Medium	JBS
The link to Marfrig was removed because although the company informed that one of the linked farms (Fazenda Guaíra, in Juara – MT) supplied Marfrig in Tangará da Serra (MT) in 2018, they also informed that the property is currently blocked from Marfrig's supplier list due to two environment embargoes, one in 2023 and the second in 2024.			
Soy	Warehouses (50 km radius)	no silos within a 50 km radius	
	Supply chain links & details:	-	
Beef - supply chain links & details		Indirectly supplied JBS (Diamantino - MT, Juara - MT, Juína - MT) and Marfrig (Tangará da Serra - MT) through a series of linked properties in 2018, 2019 and 2020.	
Other supply chain links and details:		-	
General comments			
Valdemir da Silveira, owner of G3 Agropecuária, is active in cattle trading across Mato Grosso (1), and according to undisclosed data, more than 5 thousand animals were transferred between Valdemir properties in the last 5 years. In September 2023, Maria de Lourdes Fugihara Maeda received authorization for deforestation and wood exploitation of 941 hectares at Agropecuária G3 property, valid until 2028. This authorization was requested in 2021 (2).			

(1) <https://girodoboi.canalrural.com.br/pecuaria/confira-as-fazendas-de-destaque-do-dia-02-de-agosto-de-2017/>(2) <https://iomat.mt.gov.br/portal/edicoes/download/16507>

Property			
Fazenda São Bento			
Coxim, Mato Grosso do Sul		Cerrado biome	
CAR:	MS-5003306-B13996B8CEAF4C579812E2537D40A12C		SIGEF/SNCI: 9080290078462
Area property (ha):	6,294	Coordinates property:	-18.07591,-54.86049
Cleared Area			
Coordinates clearance:		-18.074709,-54.821726	
465 Hectares		period clearance:	July '23 to February '24
95,883 tons of CO ₂			
- fires alerts			
Inside Forest Code's protected areas:	No - -		
Type of vegetation:	Forested Savanna, 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)

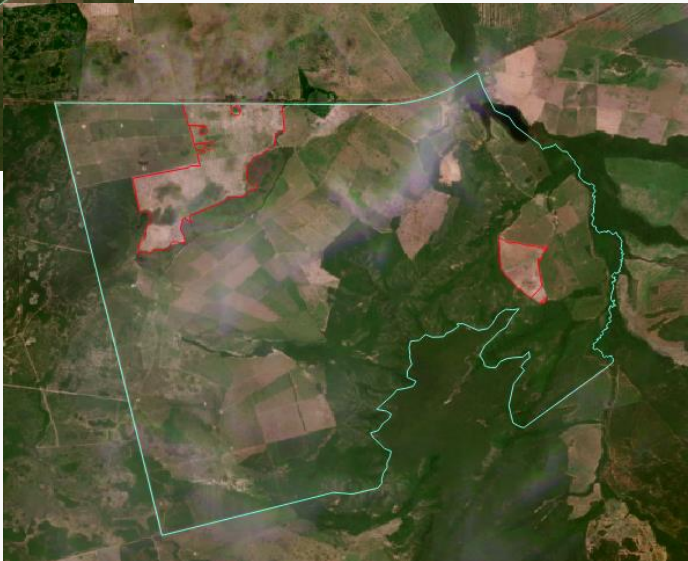
June 2023



Source: Imagery ©2023 Planet Labs Inc.

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

February 2024



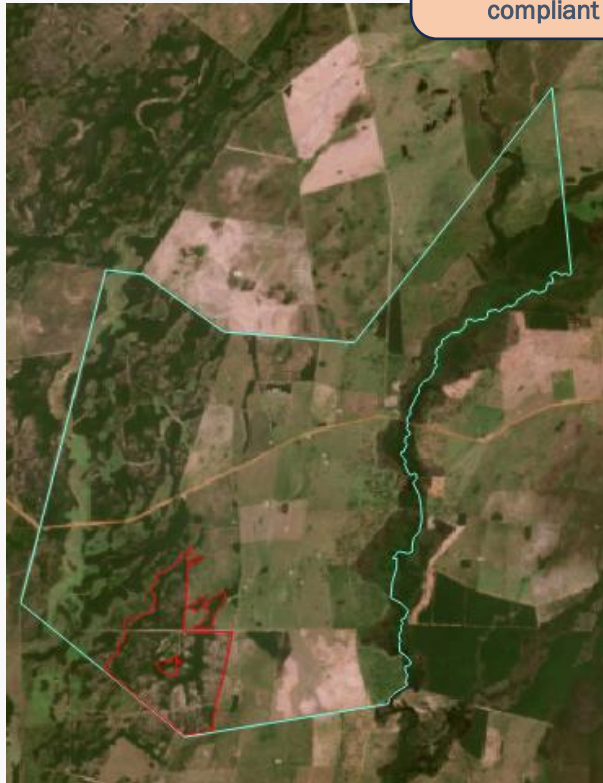
Source: Imagery ©2024 Planet Labs Inc.

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-
Ownership and other linked properties			
Ownership:	Antônio João Ferreira Neto		
Company group:	No linked company identified		
Linked properties:	-		
Supply chain links			
Main Commodities	Beef and Soy		
Level of certainty of a potential trading link to soy trader/ beef processor		High / Low	JBS / Bunge
The links to Cargill and ADM were removed as the companies reported having no commercial relationship with the property.			
Soy	Warehouses (50 km radius)	12 silos within a 50 km radius from the property, including: 1 owned by ADM, 1 by Bunge, and 1 by Cargill	
	Supply chain links & details:	There is no soy area within the property, but it is surrounded by soy cultivation, which might signalise it is in a soy expansion area	
Beef - supply chain links & details		Directly supplied cattle to JBS (Campo Grande - MS) between 2018 and 2021.	
Other supply chain links and details:		-	

Property			
Fazenda Buritizal			
Rio Verde de Mato Grosso, Mato Grosso do Sul		Pantanal biome	
CAR:	MS-5007406-AB1CE077A5CF4156B0CEB00C3E0C8C24		SIGEF/SNCI: 9080290272005
Area property (ha):	5,306	Coordinates property:	-18.67955,-55.20878
Cleared Area			
Coordinates clearance:		-18.70189,-55.22350	
395 hectares		period clearance:	April to October 2023
19,755 tons of CO ₂			
- 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)

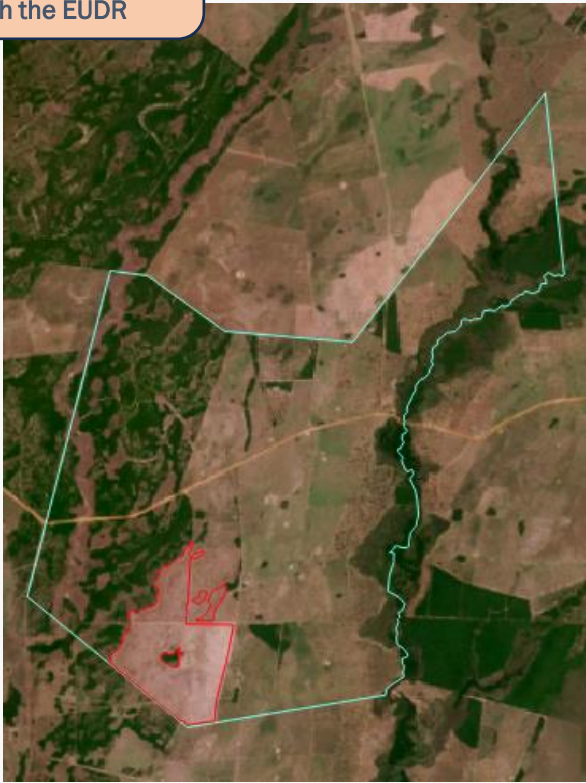
March 2023



Source: Imagery ©2023 Planet Labs Inc.

All the cleared area of the native vegetation falls into the FAO Forest definition and is **non-compliant with the EUDR**

October 2023



Source: Imagery ©2023 Planet Labs Inc.

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-
Ownership and other linked properties			
Ownership:	Antonio Sérgio Gomes da Silva		
Company group:	No linked company identified		
Linked properties:	-		
Supply chain links			
Main Commodities	Beef		
Level of certainty of a potential trading link to soy trader/ beef processor		High	JBS
Soy	Warehouses (50 km radius)	no silos within a 50 km radius	
	Supply chain links & details:	-	
Beef - supply chain links & details		Directly supplied cattle to JBS (Coxim - MS, Campo Grande - MS) in 2018, 2019 and 2021, and indirectly supplied JBS (Coxim - MS, Campo Grande - MS) in 2019 through the property Fazenda Burtizinho (ownership Adelia Fontoura Paeo Basmage) (Campo Grande - MS) and the property Fazenda Macaúba (same ownership; Antonio Sérgio Gomes da Silva) (Corguinho - MS).	
Other supply chain links and details:		-	
General comments			
In 2020, the Mato Grosso Public Prosecutor's Office (MPMS) started a process against Antônio Gomes da Silva to investigate the illegal deforestation of 33 hectares in Fazenda Buritizal (1). In September 2022, Gomes da Silva signed a term of adjustment of conduct (TAC) with MPMS (2). In 2023, another process from MPMS investigated the regularity of the deforestation of 80 hectares at Fazenda Buritizal (3).			

(1) <https://www.mpms.mp.br/domp/2022/08/29>
(2) <https://www.jusbrasil.com.br/diarios/1205188515/mp-ms-27-09-2022-pg-25>
(3) <https://www.jusbrasil.com.br/diarios/1234149747/mp-ms-11-04-2023-pg-25> , <https://consultaprocedimento.mpms.mp.br/consulta/mpms/procedimento/inquerito-civil/5/6645ca4fe4e26cec7c0b3ded>

Property			
Fazenda Proteção			
Aquidauana, Mato Grosso do Sul		Pantanal biome	
CAR:	MS-5001102-40C9D5CE5AF84409BED1D8FE3FCEDC9B		SIGEF/SNCI: 9070220019455
Area property (ha):	4,104	Coordinates property:	-19.56649,-55.30356
Cleared Area			
Coordinates clearance:		-19.57713,-55.32346	
961 hectares		period clearance:	July '23 to January '24
194,956 tons of CO ₂			
- fires alerts			
Inside Forest Code's protected areas:	No - -		
Type of vegetation:	Forested savanna and 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)

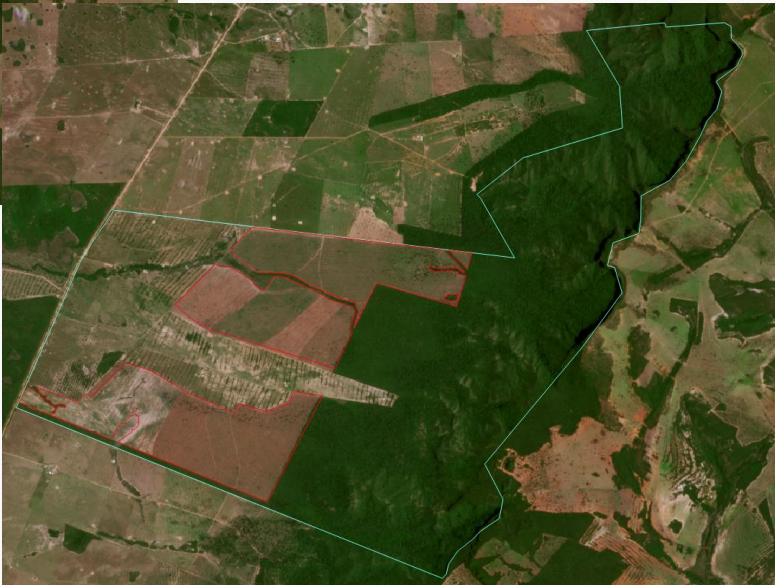
June 2023



Source: Imagery ©2023 Planet Labs Inc.

All the cleared area of the native vegetation 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:	Vera Maria Simões Jardim		
Company group:	No linked company identified		
Linked properties:	-		
Supply chain links			
Main Commodities	Beef		
Level of certainty of a potential trading link to soy trader/ beef processor		Medium	JBS
Soy	Warehouses (50 km radius)	no silos within a 50 km radius	
	Supply chain links & details:	-	
Beef - supply chain links & details		Indirectly supplied cattle to JBS (Anastácio - MS) in 2019 through the property Fazenda Casa Branca (Ownership Marcia Alves de Albres) (Anastácio - MS)	
Other supply chain links and details:		-	
General comments			
A study of environmental impacts (EIA - RIMA) was presented in 2018 as part of the environmental licence request to clear 2,824 hectares of native vegetation to establish pasture for cattle breeding in Fazenda Proteção (1). We could not find information to check if the reported clearing of native vegetation has a valid environmental license.			

(1) https://www.imasul.ms.gov.br/wp-content/uploads/2018/05/RIMA_PROTEÇÃO_CONCLUIDO.pdf

Property			
Fazenda Rio das Cobras V, VI, e VII			
Apiacás, Mato Grosso		Amazon biome	
CAR:	MT-5100805-97F46D6DDC8448C394CF0882920D97B0 (validated)		SIGEF/SNCI: 9500764012424, 9500504822856, 9500684818746
Area property (ha):	1,288	Coordinates property:	-9.19719,-58.05809
Cleared Area			
Coordinates clearance:		-9.20298,-58.05962	
135 hectares		period clearance:	December '23 to April '24 (ongoing)
76,725 tons of CO2			
- fires alerts			
Inside Forest Code's protected areas:	No - -		
Type of vegetation:	Dense-canopy rainforest, submontane	Priority for Biodiversity Conservation:	Very high
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	

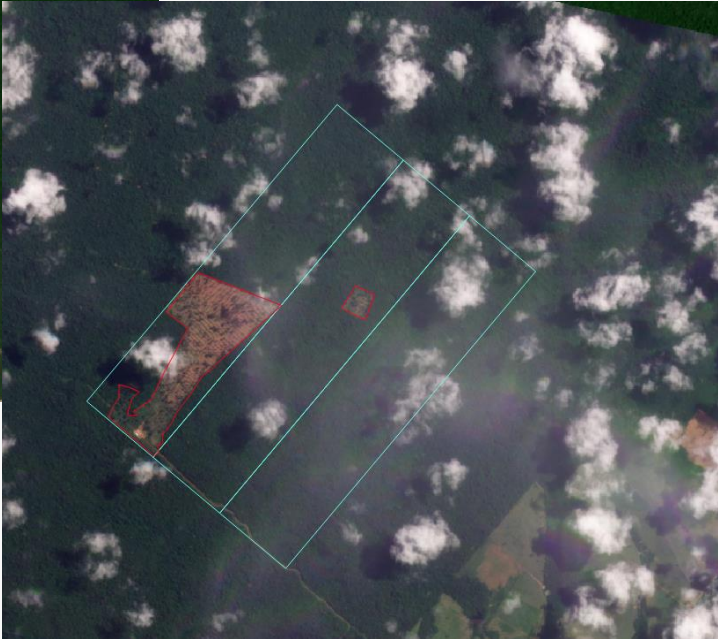
Imagery: limits of the property (green), limits of the cleared area (red)
November 2023



Source: Imagery ©2023 Planet Labs Inc.

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

April 2024



Source: Imagery ©2024 Planet Labs Inc.

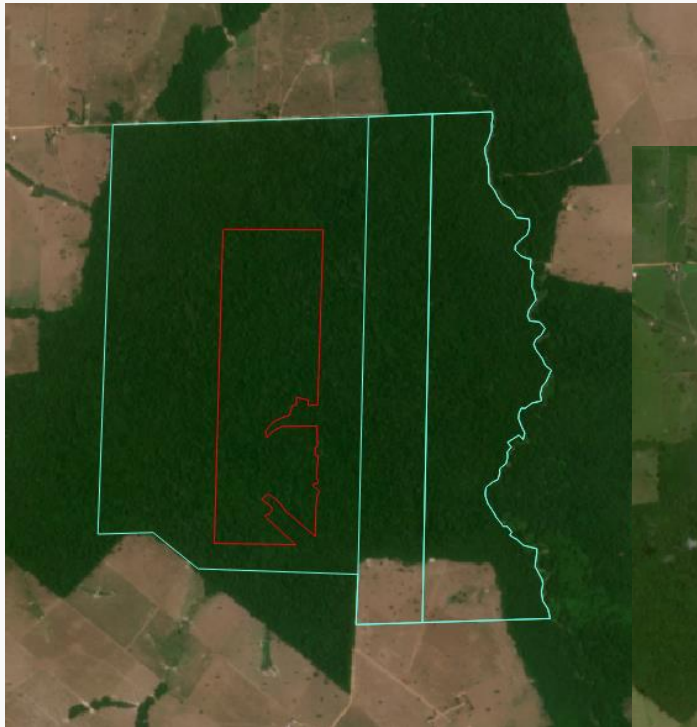
Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-
Ownership and other linked properties			
Ownership:	Rosmari Garcia Sistilli, Ademir Sistilli		
Company group:	No linked company identified		
Linked properties:	1 linked property in Apic��s (MT): Fazenda Eldorado I, II, III e IV (1722 ha)		
Supply chain links			
Main Commodities	Beef		
Level of certainty of a potential trading link to soy trader/ beef processor		High	JBS
Soy	Warehouses (50 km radius)	no silos within a 50 km radius	
	Supply chain links & details:	-	
Beef - supply chain links & details		Directly supplied cattle to JBS (Alta Floresta - MT) between 2018 and 2019.	
Other supply chain links and details:		-	
General comments			
Since 2022, Ademir Sistilli has occupied a substitute position on the board of the Rural Union of Alta Floresta (MT) (1). In February 2023, Rosmaria Sistilli received authorization for deforestation and wood exploitation of 245 hectares at Fazenda Rio das Cobras V, VI e VII, valid until 2028 (2).			

(1) <https://noticiaexata.com.br/agronegocios/sindicato-rural-de-alta-floresta-empossa-nova-diretoria/>
(2) Environmental Agency of Mato Grosso (SEMA - MT)

Property			
Lote Rural LE			
Alta Floresta, Mato Grosso		Amazon biome	
CAR: MT-5100250-F4CC8A671CDD45C0A9F6E4D01FB5BA46 (validated)		SIGEF/SNCI: 9040580443774, 9500177309805	
Area property (ha):	1,150	Coordinates property:	-9.712595,-56.183990
Cleared Area			
Coordinates clearance:		-9.711403,-56.183928	
177 hectares		period clearance:	November 2023 to March 2024
88,033 tons of CO ₂			
- fires alerts			
Inside Forest Code's protected areas:	No - -		
Type of vegetation:	Open-canopy rainforest, submontante	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.

All the cleared area of the native vegetation 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:	Marcos Catão Dornelas Vilaça, Andrea Coelho de Carvalho Vilaça (CAR) / Pedro Silvestre da Silva (SIGEF)		
Company group:	No linked company identified		
Linked properties:	3 linked properties, unknown area. In Paranaíta (MT): Fazenda São João da Caturrita II (unknown area). In Alta Floresta (MT): Fazenda Recanto (unknown area), Fazenda São João da Caturrita (unknown area)		
Supply chain links			
Main Commodities		Beef	
Level of certainty of a potential trading link to soy trader/ beef processor		Medium	JBS
Soy	Warehouses (50 km radius)	no silos within a 50 km radius	
	Supply chain links & details:	-	
Beef - supply chain links & details		Indirectly supplied cattle to JBS (Colíder - MT, Alta Floresta - MT) between 2018 and 2021 through Fazenda São João Da Caturrita II (same ownership; Marcos Catão Dornelas Vilaça) (Paranaíta - MT)	
Other supply chain links and details:		-	
General comments			

Although there is no evidence of soy production in the area, the property is surrounded by soy cultivation, which might indicate that it is part of a soy expansion area. The property is registered under Pedro Silvestre da Silva in the federal land tenure system. However, in the CAR system, the property has a "validated" CAR under Marcos Catão Dornelas Vilaça and Andrea Coelho de Carvalho Vilaça. Marcos is a former president of Mato Grosso Agricultural Defense Council (INDEA). In 2021, he asked to be dismissed from the position after being involved in a denouncement of sexual harassment (1), for which he was considered not guilty by the Court of Justice in 2022 (2). In March 2023, Marcos Vilaça received authorization for deforestation and wood exploitation of 175 hectares at Lote Rural LE, valid until 2028 (3).

(1) <https://g1.globo.com/mt/mato-grosso/noticia/2021/01/18/presidente-do-indea-denunciado-por-assedio-sexual-em-mt-pede-afastamento.ghml>
(2) <https://g1.globo.com/mt/mato-grosso/noticia/2022/07/11/ex-presidente-do-indea-e-absolvido-de-processo-administrativo-por-assedio-sexual-em-mt.ghml>
(3) Environmental Agency of Mato Grosso (SEMA - MT)

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:

Joana Faggin (joana@aidenenvironment.org) or Marco Garcia (garcia@aidenenvironment.org)



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