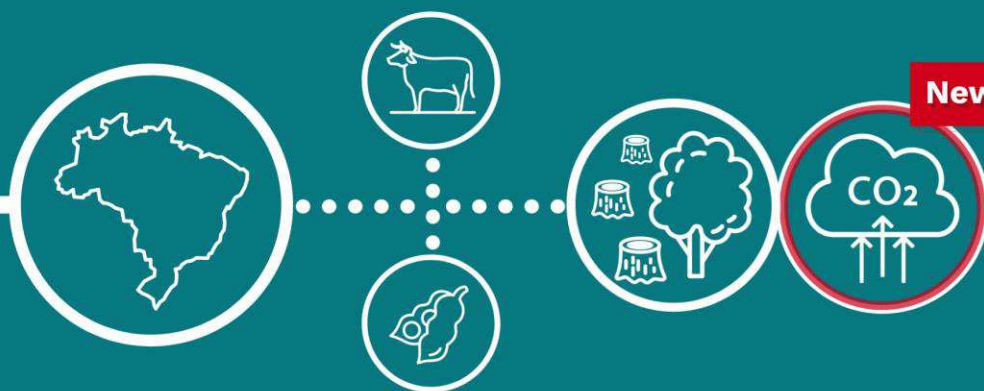


July 2023

Realtime Deforestation

Monitoring System

14



*Soy and cattle supply chains
Amazon and Cerrado Biomes – Brazil*

Updated
in
October 2023



aid
environment

Aidenvironment develops **Realtime Deforestation Monitoring (RDM)** reports to engage companies and urge action towards real-time deforestation events, as well as 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 14 report of July 2023 highlights 8 cases mainly linked to the soy supply chain in the Cerrado and Amazon biomes. **The 8 cases present 20,565 hectares of deforestation and 173 fire alerts in Mato Grosso, Bahia and Piauí states.** The cases cover deforestation alerts detected in June 2023, with visually confirmed deforestation events between July 2022 and June 2023.

From now on, together with the confirmed cleared area, the RDM also estimates the linked **CO₂ emissions (above-ground carbon emissions)** according to the cleared vegetation type.

The **European Union Deforestation Regulation (EUDR)** entered into force in June 2023, and this RDM report shows potentially non-compliant cases in the Amazon biome.

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Property			
Fazenda Tabocal (Gleba Jarina)			
Peixoto de Azevedo, Mato Grosso		Amazon biome	
CAR:	MT-5106422-8327A7D363D44DDD93C16AC0E42B4CE2 (under analysis)		SIGEF/SNCI: -
Area property (ha):	2,525	Coordinates property:	-9.69372, -53.65685
Cleared Area			
Coordinates clearance:		-9.69183, -53.65104	
1,849 hectares	period clearance:	Nov 2022 to May 2023	
921,492 tons of CO ₂			
- fires alerts			
Inside Forest Code's protected areas:	Yes	1,849 ha inside declared Legal Reserve	
Type of vegetation:	Ombrophilous Open Forest	Priority for Biodiversity Conservation:	No
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		Bordering Indigenous Territory Terena Gleba Iriri (Terena people)	
Imagery: limits of the property (blue), limits of the cleared area (red)			
November 2022			
			
Source: Imagery ©2022 Planet Labs Inc.			
May 2023			
			
Source: Imagery ©2023 Planet Labs Inc.			

Environmental fines and embargoes				
Embargoes:	Yes	4 environmental embargoes at Fazenda Tabocal (Gleba Jarinã): 1 in 2019 (associated with Reinaldo Almeida da Cruz) due to the clearance of 100,575 hectares of native vegetation; 2 in 2020 due to the clearance of 301 and 297,6 ha of native vegetation without authorization, and 1 in 2023 due to deforestation of 1.875 ha of native vegetation without authorization		
Environmental fines:	Yes	4 environmental fines at Fazenda Tabocal (Gleba Jariña): 2 in 2020 due to the clearance of 301 and 297,6 ha of native vegetation and 2 in 2023 for cattle raising and exotic pasture cultivation at an embargoed area of 297,6 ha and due to the clearance of 1,875 ha of native vegetation without authorization at least BRL 10,380,000		
Ownership and other linked properties				
Ownership:	Sérgio de Oliveira da Cruz			
Company group:	No linked active companies found			
Linked properties:	No other linked properties found			
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		No	-	-
Soy	Warehouses (50 km radius)	No warehouses within a 50 km radius.		
	Supply chain links & details:	-		
Beef	Slaughterhouses (sourcing from the municipality)	7 different slaughterhouses sourced from cattle from Peixoto de Azevedo (MT) in 2021, e.g., 3 owned by JBS (Barra do Garças, Colider, and Confresa, all in MT)		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
Although there are no warehouses within a 50km radius of the property, the area is clearly in a soy-expansion area on the North-west of the Indigenous territory "Parque Indígena do Xingu". Fazenda Tabocal is part of the Gleba Jarinã, an area that belonged to the Union and was transferred to the state of Mato Grosso in 2009, which would be responsible for the land tenure adjustments. Since then, farms within the Gleba have been sold and deforested, making it difficult to identify the offenders (1).				
(1) https://piaui.folha.uol.com.br/floresta-sumiu-ninguem-sabe-ninguem-viu/				

Property			
Fazenda Independência			
Santa Cruz do Xingu, Mato Grosso		Amazon biome	
CAR: MT-5107743-353A25EDE52245AC9DF81F7437399555 (validated)		SIGEF/SNCI: 9500418593542	
Area property (ha):	1,630	Coordinates property:	-10.10480, -52.17197
Cleared Area			
Coordinates clearance:		-10.10599, -52.17438	
869	hectares	period clearance:	Feb to Jun 2023
73,222	tons of CO ₂		
-	fires alerts		
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 (blue), limits of the cleared area (red)			
February 2023			
		June 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:	Gabriella Regina Grasel			
Company group:	3 linked companies found: Agroflorestal Campo Verde (Campo Verde - MT); Anaser Serviços Agrícolas (Campo Verde - MT); Grg Soluções Médicas (Belo Horizonte - MG).			
Linked properties:	1 other linked property in Campo Verde (MT): Fazenda Mariana (unknown area)			
Supply chain links				
Main Commodities	Soy			
Confirmed supply chain link, level of certainty, and soy trader/ beef processor	No	Low	Bunge	
Companies' reply	Cargill (potential trading link removed): "Out of the 8 cases mentioned in the report, we have had no negotiation with the farms mentioned. Analyzing negotiations with farmers and their commercial groups, we have had negotiation we 3 of them, in a different farm". Amaggi (potential trading link removed): "No commercial relationship was identified between AMAGGI with the mentioned property after the deforestation [Fazenda Independência]".			
Soy	Warehouses (50 km radius)	10 warehouses including 1 owned by Amaggi, and 1 by Bunge		
	Supply chain links & details:	A linked property, Fazenda Mariana (Campo Verde - MT), supplied soy and corn to Bom Futuro Agrícola and Agrícola Alvorada between 2018 and 2019		
Beef	Slaughterhouses (sourcing from the municipality)	3 different slaughterhouses sourced from cattle from Santa Cruz do Xingu (MT) in 2021, e.g., 3 owned by JBS (Águas Boas, Barra do Garças, and Confresa, all in MT); 1 owned by Marfrig (Nova Xavantina - MT)		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
<p>Apparently, the CAR declarant is not active in agriculture. It might be the case of using a family member's name to avoid links to previous problems in the property. Several properties of the Grasel family were transferred from the father's possession, Jairo Grasel, to the daughter Gabriella Grasel amid legal charges from the company Nortox SA, a producer of fertilisers, pesticides and seeds (1). The property has an active authorization for deforestation and timber exploitation of 944 hectares, valid until June 2027 (2). A linked property (Fazenda Mariana, Campo Verde - MT) supplied soy and corn to Bom Futuro Agrícola between 2018 and 2019. Bom Futuro is a known Cargill supplier and was recently linked to illegal activities inside an Indigenous Territory (3).</p>				
<p>(1) https://www.jusbrasil.com.br/diarios/1180962279/djmt-caderno-judicial-das-comarcas-09-05-2022-pg-562</p> <p>(2) https://geoportal.sema.mt.gov.br/#/</p> <p>(3) https://deolhonosruralistas.com.br/2023/05/09/denunciada-por-soja-suja-na-ocde-cargill-tem-parceiros-com-sobreposicao-em-terras-indigenas/</p>				

Property			
Fazenda Modelo (Fazenda Timbó)			
Apiacás, Mato Grosso		Amazon biome	
CAR:	MT-5100805- 2A4CF6145EF54D89A23AEF606EB1B680	SIGEF/SNCI:	9500178522600
Area property (ha):	85 0	Coordinates property:	-9.69487, -57.48237
Cleared Area			
Coordinates clearance:		-9.696, -57.48671	
712 hectares	404,653 tons of CO ₂ - fires alerts	period clearance:	Apr to May 2023
Inside Forest Code's protected areas:	Yes	712 ha inside declared Legal Reserve	
Type of vegetation:	Ombrophilous Dense Forest	Priority for Biodiversity Conservation:	No
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	

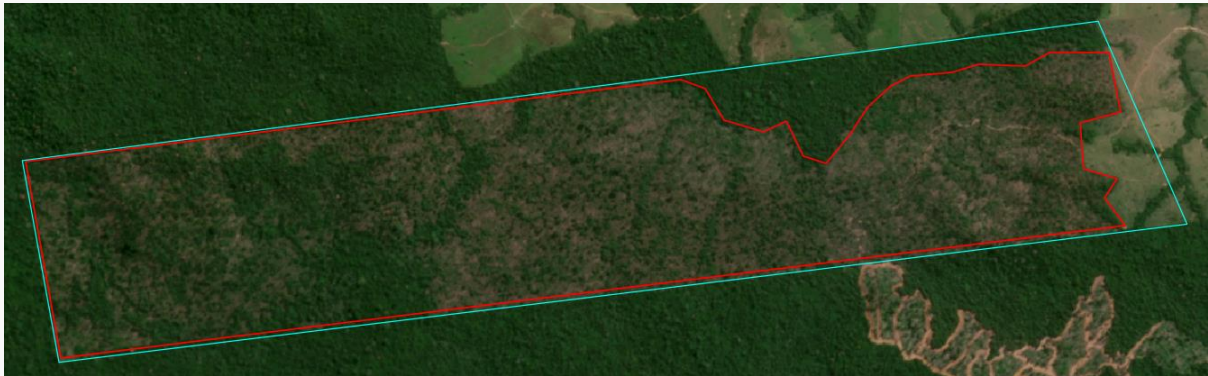
Imagery: limits of the property (blue), limits of the cleared area (red)

April 2023



Source: Imagery ©2023 Planet Labs Inc.

May 2023



Source: Imagery ©2023 Planet Labs Inc.

Environmental fines and embargoes				
Embargoes:	Yes	2 environmental embargoes for illegal deforestation: 1 over 685 hectares in January 2023, and 1 over 16,4 ha in June 2018		
Environmental fines:	Yes	3 environmental fines: 1 in January 2023, due to the illegal clearance of 685 hectares, 1 in 2018 due to the illegal clearance of 16,4 hectares, both in Fazenda Timbó (Apiacás - MT); BRL 3,604,790 and 1 in 2018 due to the use of fire in 112 há without authorization in an unknown property in Apaiaçás (MT)		
Ownership and other linked properties				
Ownership:	Milton Erwin Neu			
Company group:	Agropecuária Timbó (49.978.522/0001-51)			
Linked properties:	No other linked properties found			
Supply chain links				
Main Commodities	Beef and Soy			
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	-	-
Soy	Warehouses (50 km radius)	No warehouses within a 50 km radius.		
	Supply chain links & details:	-		
Beef	Slaughterhouses (sourcing from the municipality)	6 different slaughterhouses sourced from cattle from Apiacas (MT) in 2021, e.g., 3 owned by JBS (Alta Floresta, Colider, and Juína, all in MT).		
	Supply chain links & details:	Fazenda Modelo / Fazenda Timbó do not direct supplies any slaughterhouse, and the only slaughterhouses indirectly supplied by these properties are regional ones		
Other supply chain links and details:		-		
General comments				
<p>The property, Fazenda Modelo, had authorization for Sustainable Forest Management (AUTEX), which expired in June 2017 (1). It received a fine and an embargo for illegal deforestation in January 2023 (1). Milton Erwin Neu was the manager of one of the shops of Grupo Delmoro in Apiacás (MT), a regional supermarket chain (2). This is a typical case where a Sustainable Forest Management plan is approved for selective logging, which is supposed to maintain the forest cover while extracting a controlled amount of timber over time, but later on, the area is completely opened for different agricultural activities, making use of the SFM as a legal way to start using the forest resources. The company linked to the property, Agropecuária Timbó, is registered as a soy, corn, cattle and cattle producer (3).</p>				
<p>(1) https://geoportal.sema.mt.gov.br/#/ (2) https://www.abras.com.br/clipping/geral/43062/rota-do-agronegocio-favorece-expansao-de-redes-varejistas (3) https://solucoes.receita.fazenda.gov.br/Servicos/cnpjreva/Cnpjreva_Comprovante.asp</p>				

Property			
Fazenda Vale do Boi (CAR) / Fazenda Terra Roxa (SIGEF)			
Juara, Mato Grosso		Amazon biome	
CAR:	MT-5105101-C5B6B8FD779B4AE9809D908253B3B060, MT-5105101-0757460DDE3341ED902CD0F6A98FB97D (overlapping CAR declarations)	SIGEF/ SNCI:	9021011049737
Area property (ha):	1,173	Coordinates property:	-11.50864, 57.97558
Cleared Area			
Coordinates clearance:		-11.50651, -57.96935	
575 hectares	period clearance:	Jul 2022 to Jul 2023	
269,213 tons of CO ₂			
- fires alerts			
Inside Forest Code's protected areas:	Yes	575 ha inside declared Legal Reserve	
Type of vegetation:	Semidecidual Seasonal Forest	Priority for Biodiversity Conservation:	Extremely high
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	

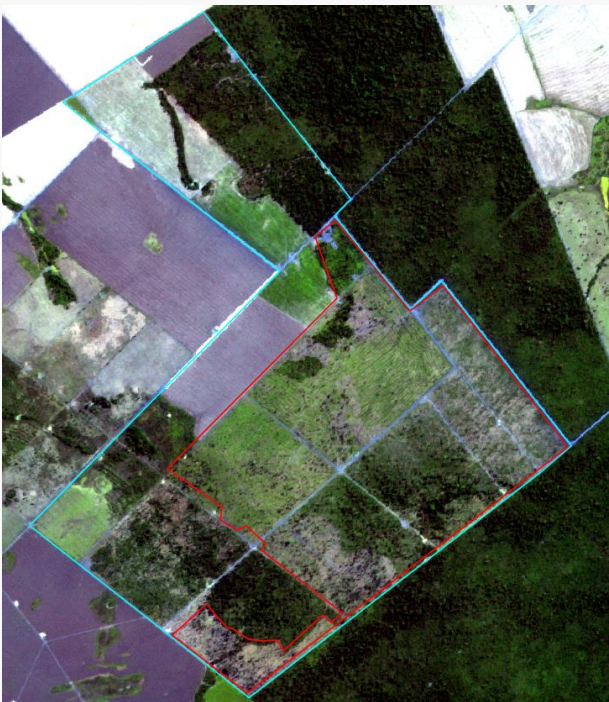
Imagery: limits of the property (blue), limits of the cleared area (red)

July 2022



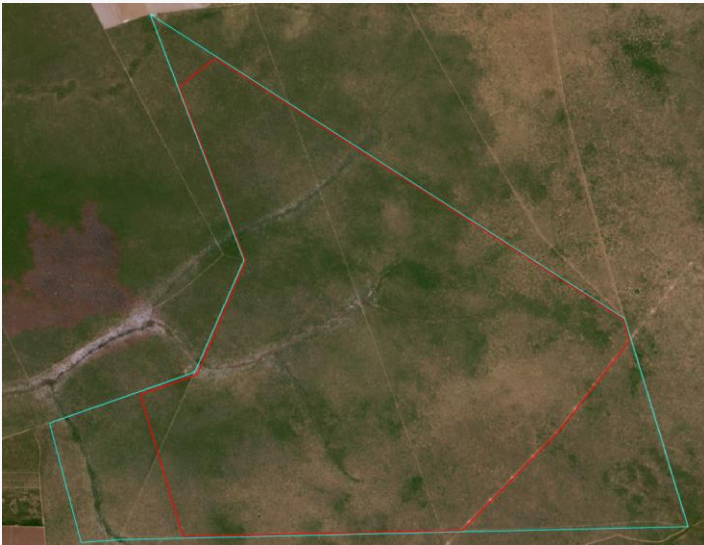

Source: Imagery ©2022 Planet Labs Inc.

July 2023

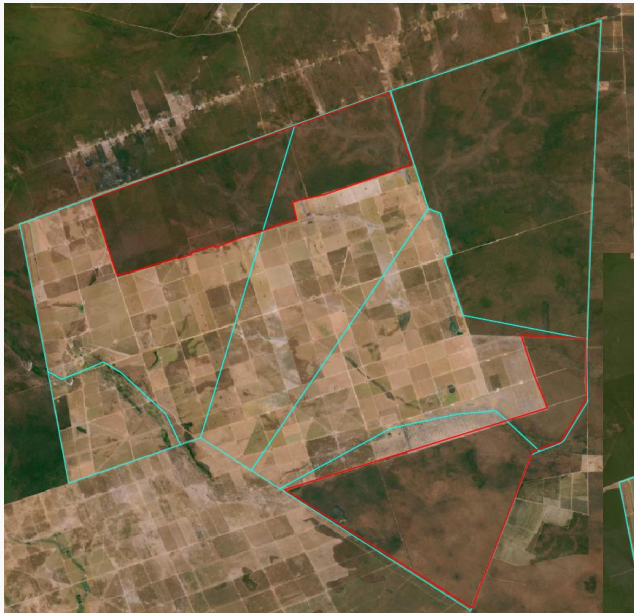



Source: Imagery ©2023 Planet Labs Inc.

Environmental fines and embargoes				
Embargoes:	Yes	4 environmental embargoes: 2 in Fazenda Vale do Boi due to the clearance of 134,7 and 235,7 hectares of native vegetation without authorization in 2023 (5); 2 in Fazenda Terra Roxa due to the clearance of 148,000 hectares of native vegetation without authorization in 2011 and 14,5 hectares in 2021		
Environmental fines:	Yes	4 environmental fines: 2 due to the unauthorized clearance of 148 hectares of native vegetation in Fazenda Terra Roxa in 2011 and an unknown area in 2021; and 2 due to illegal clearance of 134,7 and 235,7 hectares of native vegetation in 2023 in Fazenda Vale do Boi		BRL 2,090,000
Ownership and other linked properties				
Ownership:	Iury da Costa Flores (CAR under analysis) / Fernando Manoel Borba Azoia (SIGEF)			
Company group:	No linked active companies found			
Linked properties:	No other linked properties found			
Supply chain links				
Main Commodities		Timber and soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	-	-
Soy	Warehouses (50 km radius)	8 warehouses owned by individuals and local storage companies/cooperatives		
	Supply chain links & details:	-		
Beef	Slaughterhouses (sourcing from the municipality)	17 different slaughterhouses sourced from cattle from Juara (MT) in 2021, e.g., 4 owned by JBS (Alta Floresta, Diamantino, Juara, and Juína, all in MT); 1 owned by Marfrig (Tangará da Serra - MT); 1 owned by Minerva (Várzea Grande - MT).		
	Supply chain links & details:	-		
Other supply chain links and details:		Fazenda Terra Roxa I supplied timber in 2021 to the following sawmills: V.R. da Silva, A. da S. Flores, and J. Lisboa da Hora. Also in 2021, these three sawmills were regular suppliers of biomass to JBS and FS Bioenergia (FS Agrisolutions)		
General comments				
<p>Fernando Azóia was elected deputy mayor (vice-prefeito) of Juara in 2013 (1). He is part of a family with a long tradition of involvement in local and state politics (2). Fernando Azóia and his sister, Luciane Bezerra (a state deputy at the time) were indicted by the Public Prosecutor's Office of document forgery in an attempt to get, by means of the false certificates, an Authorization for Transport of Forest Products, thereby circumventing the mandatory inspections by IBAMA (Brazilian Institute of the Environment and Renewable Natural Resources) (3). Fernando Azóia, who made a Conduct Adjustment Agreement (TAC in Portuguese) with the Public Prosecutor's Office, was fined for breaching it due to failing to duly register the legal reserve area of the property together with the property's registration in the Environmental Rural Cadastre (CAR in Portuguese) (4). Fazenda Terra Roxa supplied sawing mills from which FS Bioenergia (FS Agrisolutions), Brazil's largest corn ethanol producer (5), sourced timber from also in 2021. The embargo of 134,7 ha in Fazenda Vale do Boi in March 2023 is in the name of Iury da Costa Flores (6), but the property is mentioned in Sema-MT (Environmental Agency of Mato Grosso) records in the name of Celso Azoia (7).</p>				
<p>(1) https://www.tre-mt.jus.br/comunicacao/noticias/2013/Julho/justica-eleitoral-diploma-prefeito-eleito-de-juara-dia-26 (2) https://www.showdenoticias.com.br/noticia/juara-e-regiao/vice-prefeito-diz-que-ha-possibilidade-de-renuncia-do-prefeito-edson-piovesan (3) https://www.hnt.com.br/justica/processo-contra-luciane-bezerra-e-seu-irmao-sera-julgado-pelo-trf/33863 (4) https://www.jusbrasil.com.br/jurisprudencia/tj-mt/1482052472/inteiro-teor-1482055939 (5) Undisclosed sources (6) https://geoportal.sema.mt.gov.br/ (search for Número do CAR estadual MT234724) (7) https://geoportal.sema.mt.gov.br/ (search for Número do Processo 293460/2021)</p>				

Property			
Fazenda São Paulo, Fazenda Santo Antônio			
Barreiras, Bahia		Cerrado biome	
CAR:	BA-2903201-319C4B3B90E94C57A037708BB1F43EA4	SIGEF/SNCI:	9510567864465
Area property (ha):	5,162	Coordinates property:	-12.33472, -45.16926
Cleared Area			
Coordinates clearance:		-12.32823, -45.15546	
3,989 hectares	period clearance:	Oct 2022 to May 2023	
78,690 tons of CO ₂			
10 fires alerts			
Inside Forest Code's protected areas:	No	-	-
Type of vegetation:	Savanna Park	Priority for Biodiversity Conservation:	Extremely high
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	
<p>Imagery: limits of the property (blue), limits of the cleared area (red)</p> <p>October 2022</p> <div><p>May 2023</p></div> <p>Source: Imagery ©2022 Planet Labs Inc.</p> <p>Source: Imagery ©2023 Planet Labs Inc.</p>			

Environmental fines and embargoes				
Embargoes:	No	-		
Environmental fines:	No	-		-
Ownership and other linked properties				
Ownership:	Salustiano Marques Pereira			
Company group:	No linked active companies found			
Linked properties:	No other linked properties found			
Supply chain links				
Main Commodities	Soy			
Confirmed supply chain link, level of certainty, and soy trader/ beef processor	No	-		-
Companies' reply	Cargill (potential trading link removed): "Out of the 8 cases mentioned in the report, we have had no negotiation with the farms mentioned. Analyzing negotiations with farmers and their commercial groups, we have had negotiation we 3 of them, in a different farm."			
Soy	Warehouses (50 km radius)			
	Supply chain links & details:			
Beef	Slaughterhouses (sourcing from the municipality)	24 different slaughterhouses sourced from cattle from Barreiras (BA) in 2020. None of them were owned by JBS, Marfrig or Minerva.		
	Supply chain links & details:			
Other supply chain links and details:	-			
General comments				
<p>The CAR is registered under Antônio Carlos Ribeiro, Valdiney Gonçalves Dourado and Mauricio Werner Derschum. Carlos Ribeiro has an authorization issued by the Environmental Agency of Bahia (INEMA) in 2021 allowing the deforestation of 4,032 hectares at Fazenda São Paulo e Fazenda Santo Antônio to implement agricultural activities, which is valid until August 2023 (1). Other requests at INEMA show Eliton Gavazzoni as one of the owners of the two properties (1). Gavazzoni is the owner of Agro Gavazzoni, a company of transportation and storage of grains located in Luis Eduardo Magalhães (2, 3). In Correntina (BA), the businessman is identified as the owner of Fazenda Santa Tereza III, which in December 2022, allegedly sheltered gunmen who threatened members of the traditional communities of Fundo e Fecho de Pasto (4). In the Federal Landtenure System (SIGEF), both properties mentioned - Fazenda São Paulo and Fazenda Santo Antônio - are part of the heritage left by Salustiano Marques Pereira and the inheritance grantee are unidentified (5).</p>				
<p>(1) INEMA - Instituto de Meio Ambiente e Recursos Hídricos da Bahia (2) https://casadosdados.com.br/solucao/cnpj/eliton-gavazzoni-and-cia-ltda-08359180000104 (3) https://www.sigivilares.com.br/index.php?pag=noticia&id=45281 (4) https://racismoambiental.net.br/2022/12/07/pistoleiros-driblam-pm-do-cerrado-e-mantem-terror-em-correntina/ (5) https://sigef.incra.gov.br/geo/parcela/detalhe/4258a1a2-81f3-48b9-ae0e-bf69baabe568/</p>				

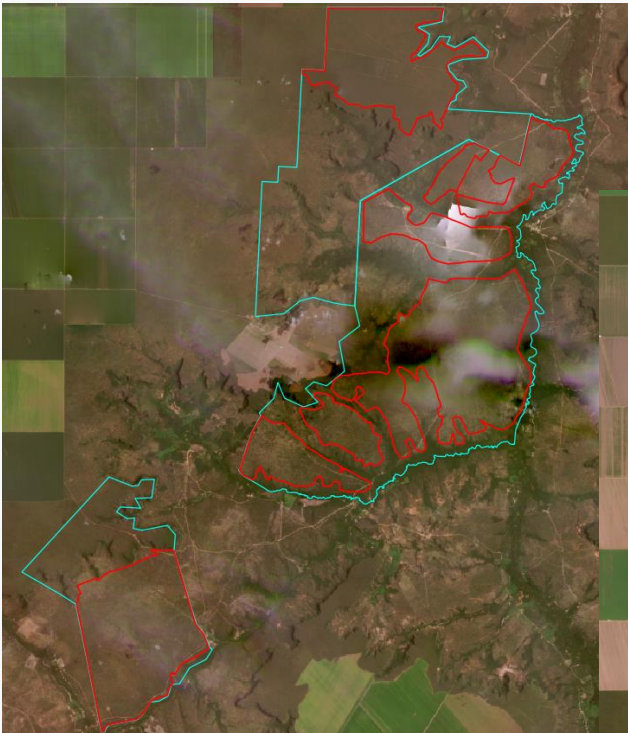
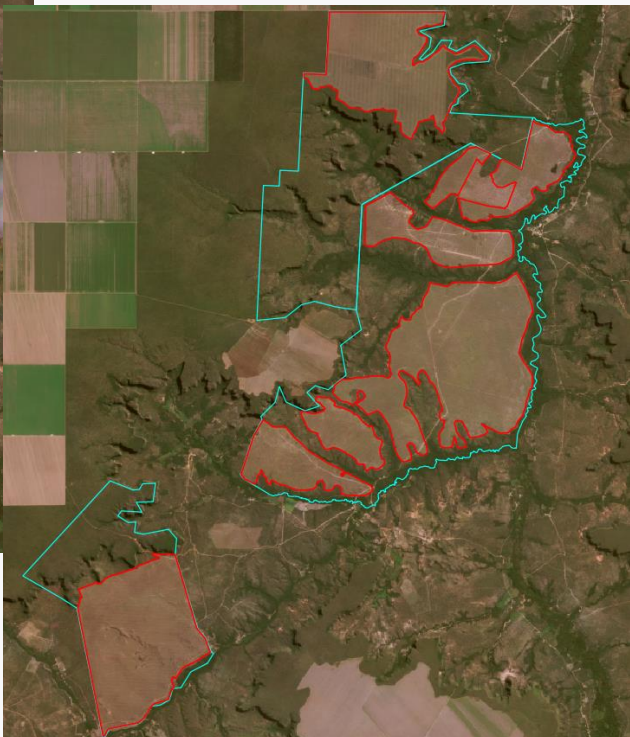
Property			
Fazenda Novale			
Santa Rita de Cássia, Bahia		Cerrado biome	
CAR:	BA-2928406-064097630D68448482CD0BCEE3A22377, BA-2928406-E5E5F277060A45FBB530DD82C9ED6280, BA-2928406-7BCEFD1895664911BCF4D2591096C3A2, BA-2928406-B6C58F55A5934880B4D6AC6645DC0A4D		SIGEF/ SNCI: 3011080077907
Area property (ha):	21,188	Coordinates property:	-11.38593, -44.72559
Cleared Area			
Coordinates clearance:		-11.42387, -44.72068	
5,379 hectares	period clearance: Sep 2022 to May 2023		
691,488 tons of CO ₂			
163 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):		-	
Indigenous Territories (overlapping or bordering):		-	
Imagery: limits of the property (blue), limits of the cleared area (red)			
September 2022			
		May 2023	
		Source: Imagery ©2023 Planet Labs Inc.	

Environmental fines and embargoes				
Embargoes:	Yes	1 temporary environmental embargo, in a property in Formosa do Rio Preto, due to diverting a river course and building a water cooptation system in the permanent preservation area (APP) of the property.		
Environmental fines:	No	-	-	
Ownership and other linked properties				
Ownership:	Adil Arlindo Manjabosco			
Company group:	3 linked companies: Imbuia Agropecuária (Luis Eduardo Magalhães - BA) and Agropecuária Mariana Manjabosco (Riachão das Neves - BA and Santo Antônio Das Missões - RS), both active in soy farming, and Alvorada Sistemas Agrícolas (Santa Rosa - RS).			
Linked properties:	5 linked properties, with a total of more than 16,461 ha. In Riachão das Neves (BA): Fazenda Santa Maria (3,335 ha), Fazenda Santa Maria II (1,830 ha) and Fazenda Santa Marta (1,246 ha). In Formosa do Rio Preto (BA): Fazenda Triunfo (10,050 ha). In Santo Antônio das Missões (RS): Fazenda Liberdade (unknown area).			
Supply chain links				
Main Commodities	Beef and Soy			
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Low / Medium	Bunge / JBS
Companies' reply		Cargill (potential trading link removed): "Out of the 8 cases mentioned in the report, we have had no negotiation with the farms mentioned. Analyzing negotiations with farmers and their commercial groups, we have had negotiation we 3 of them, in a different farm."		
Soy	Warehouses (50 km radius)	9 warehouses owned by individuals and local storage companies/cooperatives		
	Supply chain links & details:	-		
Beef	Slaughterhouses (sourcing from the municipality)	13 different slaughterhouses sourced from cattle from Santa Rita de Cássia (BA) in 2020. None of them were owned by JBS, Marfrig or Minerva.		
	Supply chain links & details:	There is a mutual exchange with a linked property (Fazenda Triunfo). The only slaughterhouses directly supplied by Fazenda Novale and other linked properties are municipal slaughterhouses.		
Other supply chain links and details:		Fazenda Triunfo, a linked property, supplied corn to Asa indústria e Comércio (PE) in 2014		

General comments

Adil Arlindo Manjabosco died in 2016, leaving his children in charge of the Manjabosco family agribusiness investments in Bahia and Rio Grande do Sul, including farming, cattle raising, and wholesale of machinery and equipment for agricultural use (1, 2, 3). Fazenda Novale (Santa Rita de Cássia, Bahia) and Fazenda Triunfo (Formosa do Rio Preto, Bahia) are part of the owner's family business integrating cattle and soy production in Western Bahia (4). Fazenda Novale was already part of RDM report 1, being at the centre of case study 6 with 552 ha cleared between May 2021 and January 2022 (5). Carolina Manjabosco Turra, Eduardo Antônio Manjabosco, Karina Manjabosco de Freitas and Marco Antônio Manjabosco are all partners in Agropecuária Mariana Manjabosco, Agropecuária Adil Manjabosco, and Alvorada Sistemas Agrícolas (6, 7). Eduardo Antônio Manjabosco is a partner in the Cooperativa dos Produtores Rurais da Bahia (Cooperfarms), present also in Goiás and Tocantins states (8). The Manjabosco family also owns a Alvorada Sistemas Agrícolas company that officially represents the John Deere brand in Rio Grande do Sul (9). In 2009, a temporary embargo was imposed on the Manjabosco's property in Formosa do Rio Preto (BA) by Bahia's Environment Secretary due to building a water cooptation system in the permanent preservation area (APP) of the property and diverting the nearby river course (10). Two of the linked companies - Agropecuária A. Manjabosco and Agropecuária Mariana Manjabosco - were part of a corruption operation led by the Federal Police (Avati) concerning tax fraud, money laundering, and criminal association, which involved eight well-established agribusiness companies (most of which located in the West of Bahia) and the issuing of false invoices by shell companies with the purpose of concealing the exit of produced goods to other states (11). Agropecuária Manjabosco has an authorization issued by Inema in 2021 allowing the deforestation of 7,057 hectares at Fazendas Novale II, III, IV and V to implement agricultural activities, valid until September 2023 (12).

- (1) <https://www.landinnovation.fund/pt/noticias/triunfo-verde>
- (2) <http://maisfm.net/pgcontent?id=10391>
- (3) <https://lfpec.com.br/2021/05/09/boi-safrinha-onde-nao-tinha-boi-colhemos-menos-soja-afirma-eduardo-manjabosco/>
- (4) <https://www.embrapa.br/en/busca-de-noticias/-/noticia/3689788/produtores-discutem-resultados-de-suas-experiencias-com-ilp-e-ilpf>
- (5) https://aidenvironment.org/wp-content/uploads/2022/02/RDM_Report_Feb2022_UPDATED_July22.pdf
- (6) <http://cnpj.info/Agropecuaria-Mariana-Manjabosco-Ltda>
- (7) <http://cnpj.info/Agropecuaria-A-Manjabosco-Ltda>
- (8) <https://www.consultasocio.com/q/sa/eduardo-antonio-manjabosco>
- (9) http://www.alvorada-rs.com.br/content/about_us
- (10) <https://www.yumpu.com/pt/document/view/37953653/download-sema-secretaria-do-meio-ambiente>
- (11) <https://www.correio24horas.com.br/bahia/empresas-ligadas-ao-agronegocio-sao-suspeitas-de-sonegar-r-20-milhoes-na-bahia-091>
- (12) INEMA - Instituto de Meio Ambiente e Recursos Hídricos da Bahia

Property			
Fazenda Sabiá, Fazenda Cimeira e Alto da Serra			
Baixa Grande do Ribeiro, Piauí		Cerrado biome	
CAR:	PI-2201150-DC75ACA8A42C4243A8CDD85C436C2B40, PI-2201150-1D5312C3B65240F0910C111F88A65BA0		SIGEF/SNCI: 9500172474808, 9500172474999, 9500172354152
	Area property (ha): 10,768		Coordinates property: -8.24363, -44.86906
	Cleared Area		
Coordinates clearance:		-8.25021, -44.85869	
5,348 hectares		period clearance: Mar to May 2023	
267,275 tons of CO2			
- 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 (blue), limits of the cleared area (red)			
March 2023			
		May 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:	Parnaíba Agropastoril S/A			
Company group:	1 linked company found: Companhia Pernambucana de Saneamento (Compesa)			
Linked properties:	1 linked property found: Fazenda Águas Lindas (Baixa Grande do Ribeiro - PI), with 1,968 ha			
Supply chain links				
Main Commodities	Soy			
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Low	Bunge, ALZ
Soy	Warehouses (50 km radius)	35 warehouses including 2 owned by Bunge and 1 owned by Amaggi Louis Dreyfus Zen-Noh Graos		
	Supply chain links & details:	-		
Beef	Slaughterhouses (sourcing from the municipality)	2 different slaughterhouses sourced from cattle from Baixa Grande do Ribeiro (PI) in 2019. None of them were owned by JBS, Marfrig or Minerva.		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
<p>Parnaíba Agropastoril is owned by Aristheu Figueiredo Neto and Carlos Eduardo Cabral Figueiredo, and the main economic activity registered is cattle raising (1). In July 2022, Parnaíba Agropastoril formally requested the licensing for the installation and operation of cattle ranching activities in Fazenda Sabiá (Baixa Grande do Ribeiro - PI) (2). The licenses required an environmental impact assessment (EIA) to be conducted, looking specifically into the viability of clearing areas inside the properties and establishing the foreseen activities. Three EIAs were conducted, each referring to one of the properties linked to Parnaíba Agropastoril, namely Fazenda Sabiá (3), Fazenda Cimeira e Alto da Serra (4), and Fazenda Águas Limpas (5). In all cases, the EIAs looked specifically into the viability of clearing native vegetation, and in all the cases, the operations were deemed environmentally sound, thereby suggesting the approval of the vegetation clearance mentioned. In the case of Fazenda Cimeira e Alto da Serra, the expected clearance area dimension was around 3,373 hectares (6). In 2017, Parnaíba Agropastoril was among the largest debtors of the Brazilian national treasury of Uruçuí (PI), with more than 1.7 million BR Reais (7).</p>				
<p>(1) https://cnpi.services/06775183000101/parnaiba-agro-pastoril-sa (2) http://www.diariooficial.pi.gov.br/diario/202207/TEMP27_e50265f624.pdf (3) https://siga.semar.pi.gov.br/media/uploads/2022/09/19/19a29c23-633b-4761-86c7-abf2b64da611.pdf (4) https://siga.semar.pi.gov.br/media/uploads/2022/07/04/2c5bad71-2f59-413d-a614-20ce31457071.pdf (5) https://siga.semar.pi.gov.br/media/uploads/2022/07/13/2a15e629-861e-42b3-9deb-5ef10ba067d1.pdf (6) https://siga.semar.pi.gov.br/media/uploads/2022/07/04/2c5bad71-2f59-413d-a614-20ce31457071.pdf (7) https://www.gp1.com.br/pi/piaui/noticia/2017/6/24/prefeitura-de-urucui-tem-divida-de-r-6-milhoes-com-a-uniao-416412.html</p>				

Property			
Fazenda Estrela			
Baixa Grande do Ribeiro, Piauí		Cerrado biome	
CAR:	PI-2201150-7123915B122745C38FBDD1631BE2CB81	SIGEF/SNCI:	1280150089901
Area property (ha):	10,143	Coordinates property:	-8.49478, -45.34241
Cleared Area			
Coordinates clearance:		-8.48665, -45.37524	
1,844 hectares	92,157 tons of CO ₂ - fires alerts	period clearance: May to Jun 2023	
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 (blue), limits of the cleared area (red)

May 2023



Source: Imagery ©2023 Planet Labs Inc.

June 2023



Source: Imagery ©2023 Planet Labs Inc.

Environmental fines and embargoes				
Embargoes:	No	-		
Environmental fines:	No	-		
Ownership and other linked properties				
Ownership:	Luiz Tarcísio Queiróz			
Company group:	2 linked companies: Pro Café Compra e Venda de Imóveis Ltda (Barreiras - BA) and Ltq Empreendimento Agropecuários Ltda (Barreiras - BA), active in soy farming.			
Linked properties:	2 linked properties found: Fazenda Santa Martha and Fazenda Três Águas (both in São Desidério - BA).			
Supply chain links				
Main Commodities	Beef and Soy			
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Low	Bunge
Soy	Warehouses (50 km radius)	22 warehouses including 1 owned by Bunge Alimentos S/A		
	Supply chain links & details:	-		
Beef	Slaughterhouses (sourcing from the municipality)	2 different slaughterhouses sourced from cattle from Ribeiro Gonçalves (PI) in 2019. None of them were owned by JBS, Marfrig or Minerva.		
	Supply chain links & details:	Cattle move only between the three linked properties, no links to other producers or slaughterhouses		
Other supply chain links and details:		-		
General comments				
Luiz Tarcísio Queiroz was part of a campaign to raise funds for a local hospital organized by Aprosoja Piauí (Soy Producers Association) (1). He also supported a course offered by Senar Piauí (National Service for Agriculture Capacity) on mechanization in agriculture in 2021 (2). Tarcísio owns a silos in São Desidério, Bahia (3).				
(1) https://portalpontox.com/aprosoja-pi-realiza-campanha-para-aquisicao-de-insumos-hospitalares-para-municipios-do-sul-do-piaui/				
(2) https://senarpiaui.org.br/2021/05/25/programa-de-aprendizagem-rural-forma-turma-em-baixa-grande-do-ribeiro/				
(3) https://www.guiadearmazemagem.com.br/armazenadores-ba				

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: [Nogueira et al. \(2015\)](#). *Carbon stock loss from deforestation through 2013 in Brazilian Amazonia*]. 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.

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