

November 2023

Realtime Deforestation Monitoring System 18



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

Updated
in
January 2024



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

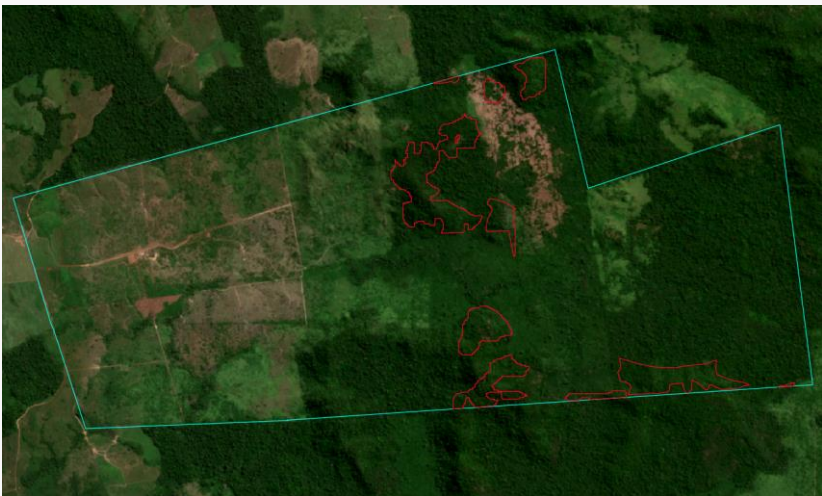
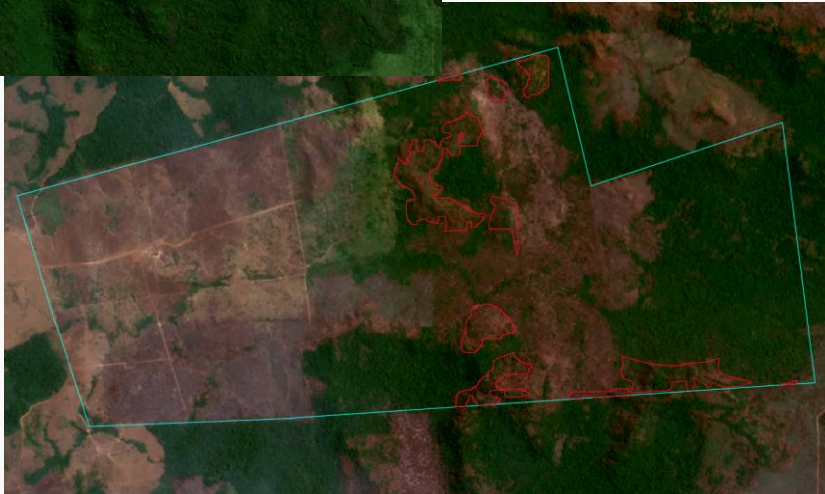
The RDM 18 report of November 2023 highlights 7 case studies linked to the soy and beef supply chains in the Cerrado and Amazon biomes. The 7 cases present **11,683 hectares of deforestation and 1,028 fire alerts in Pará, Mato Grosso, Bahia, and Piauí states**. The cases cover deforestation alerts detected in October 2023, with visually confirmed deforestation events between March and November 2023.

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 7 cases of the RDM 18 report represent a gross emission of up to **3,9 million tons of CO₂**.

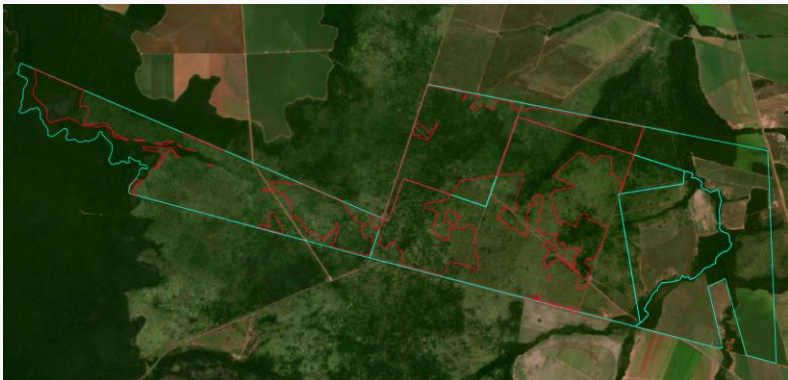


The **European Union Deforestation Regulation (EUDR)** entered into force in June 2023, and this RDM report shows potentially non-compliant cases in the Amazon biome and part of the Cerrado biome.

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Property			
Fazenda Tiborna			
São Félix do Xingu, Pará		Amazon biome	
CAR: PA-1507300-502A16F973F140AF82D667D5FFCEACC9		SIGEF/SNCI 9500172551730	
Area property (ha):	4,350	Coordinates property:	-6.53586,-53.26444
Cleared Area			
Coordinates clearance:		-6.52647,-53.26122	
266	hectares	period clearance:	June - September 2023
151,359	tons of CO2		
325	fires alerts		
Inside Forest Code's protected areas:	Yes	60.32	ha inside declared Legal Reserve and APP
Type of vegetation:	Dense-canopy rainforest, submontane (also known as Submontane Dense Humid Forest)	Priority for Biodiversity Conservation:	No
Conservation area(s) (overlapping or bordering):		Área de Proteção Ambiental Triunfo do Xingu	
Indigenous Territories (overlapping or bordering):		-	
Imagery: limits of the property (green), limits of the cleared area (red)			
June 2023			
		September 2023	
Source: Imagery ©2023 Planet Labs Inc.			
Source: Imagery ©2023 Planet Labs Inc.			

Environmental fines and embargoes				
Embargoes:	Yes	6 embargoes in total. Two embargoes for illegal deforestation in 2012 and 2020. The embargo in 2012 is linked to 91 ha in Fazenda Morro Verde (São Félix do Xingu - PA), and the embargo from 2020 is linked to 1,012 ha in the conservation area APA Triunfo do Xingu. Both areas were embargoed due to illegal deforestation. The other four embargoes were issued by the Environmental Agency of Pará (SEMAS - PA) between 2020 and 2021, unknown area and reason		
Environmental fines:	Yes	5 environmental fines for illegal deforestation. One in 2020 for illegal deforestation of 1,012 ha in the APA Triunfo do Xingu (overlapping the property Fazenda Tiborna and Fazenda Morro Verde), and two others in São Félix do Xingu not specifying reason or location. Other two fines issued by the Environmental Agency of Pará (SEMAS - PA) in 2023, unknown area and reason	BRL 6,160,000	
Ownership and other linked properties				
Ownership:	Geraldo Arantes Nunes			
Company group:	Metalúrgica Arantes, registered in Xinguara (PA)			
Linked properties:	3 other properties, totaling at least 3,524 ha. In São Félix do Xingu (PA): Fazenda Morro Verde (3,433 ha). In Canaã dos Carajás and Água Azul do Norte (PA): Fazenda Planalto (91 ha). In São Félix do Xingu (MT): Fazenda Ouro Verde (ha unknown)			
Supply chain links				
Main Commodities	Beef			
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Medium	JBS
Soy	Warehouses (50 km radius)	-		
	Supply chain links & details:	-		
Beef	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	In 2020, through the property Chácara Gabriele (São Felix do Xingu - PA), Fazenda Tiborna indirectly supplied JBS (Tucumã - PA)		
Other supply chain links and details:		-		
General comments				
<p>Geraldo Arantes Nunes is mentioned as an “interested party” in an administrative process involving the Pará Institute of Lands (ITERPA) over a property of a similar size to Fazenda Tiborna (4,356 ha). In the process (2015/400359), the ITERPA attested the falsity of land purchase documents issued in the name of Jaime Neves Ferreira in 1962 (1). According to the Environmental Agency of Pará (Semas-PA), the property's CAR is suspended, and 2,000 hectares of the property were illegally deforested - 1,600 ha were deforested between 2009 and 2022 (2). The property overlaps the protected area APA Triunfo do Xingu, the most pressure by deforestation in the Amazon (3, 4).</p>				
<p>(1) www.ioepa.com.br/pages/2015/11/04/2015.11.04.DOE_29.pdf (2) https://www.semas.pa.gov.br/seloverde/ (3) https://imazon.org.br/imprensa/apa-triunfo-do-xingu-no-para-foi-a-area-protegida-da-amazonia-mais-pressionada-pelo-desmatamento-no-primeiro-trimestre/ (4) https://g1.globo.com/pa/para/noticia/2023/08/05/governador-do-pa-quer-leiloar-parte-da-apa-triunfo-do-xingu-mas-reconhece-que-ainda-faltam-estudos-sobre-biodiversidade.ghml</p>				

Property			
Fazenda Alvorada de Santiago (Parcela 1 de 4) / Fazenda Santiago Alvorada			
Paranatinga, Mato Grosso		Amazon biome	
MT-5106307- CAR: 2CD2B3B05F904DA39B89DC20175A5549 (CAR under analysis)		SIGEF/SNCI: 9011561083678	
Area property (ha):	5,860	Coordinates property:	-13.24198, -54.33152
Cleared Area			
Coordinates clearance:		-13.24590,-54.36250	
2,391 Hectares		period clearance:	April - October 2023
1,101,440 tons of CO ₂			
207 fires alerts			
Inside Forest Code's protected areas:	Yes	895.45 ha inside declared Legal Reserve and APP	
Type of vegetation:	Contact between rainforest and seasonal forest	Priority for Biodiversity Conservation:	High
Conservation area(s) (overlapping or bordering):		Next to Estação Ecológica do Rio Ronuro	
Indigenous Territories (overlapping or bordering):		-	
Imagery: limits of the property (green), limits of the cleared area (red)			
April 2023			
		October 2023	
Source: Imagery ©2023 Planet Labs Inc.			
Fires September 2023			
Processed image.		Source: Imagery ©2023 Planet Labs Inc.	
Source: European Union - EO Browser Copernicus Sentinel data 2023			

Environmental fines and embargoes				
Embargoes:	Yes	1 embargo in the name of Celso Pess Junior due to deforestation without authorization of 0,9 hectares at Fazenda Santiago/Alvorada in 2022		
Environmental fines:	No	-	-	
Ownership and other linked properties				
Ownership:	Estância Barreiro (Marcos Ricardo Chiaparini) / Celso Pess Junior, Valzumiro Ceolim (CAR under analysis)			
Company group:	Estância Barreiro (owned by Marcos Ricardo Chiaparini) is registered as a cattle-producing company. Tendência Agronegócios, registered in Mato Grosso do Sul is owned by Celso Pess Junior and it is active in seed-production.			
Linked properties:	2 linked properties totaling 890 ha (owned by Valzumiro Ceolim). In Nossa Senhora do Livramento (MT): Fazenda Ceolin (640 ha). In Nova maringá (MT): Fazenda Caturra II (250 ha)			
Supply chain links				
Main Commodities	Beef and Soy			
Confirmed supply chain link, level of certainty, and soy trader/ beef processor	Yes	Low	Bunge, JBS, Marfrig	
Companies' reply:	Marfrig [potential link maintained]: "Marfrig does not have a record regarding (...) Fazenda Alvorada de Santiago. There is no record (...) regarding Celso Pess Junior. Fazenda Ceolim in the name of Valzumiro Ceolim is registered in Marfrig's database and complies with all the company's socio-environmental commitments."			
Soy	Warehouses (50 km radius)	13 warehouses, including 1 owned by Bunge		
	Supply chain links & details:	-		
Beef	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	The CAR declarants (under analysis), Celso Pess Junior and Valzumiro Ceolim, are active in cattle production. Celso has an indirect trading link with JBS (Campo Grande - MS) through a property in Mato Grosso do Sul (Fazenda Bela Vista in Camapuã - MS). Valzumiro has an indirect trading link with JBS (Diamantino - MT) and Marfrig (Várzea Grande - MT) through its property, Fazenda Ceolim (Nossa Senhora do Livramento - MT).		
Other supply chain links and details:		-		
General comments				
The property is registered in SIGEF under Estância Barreiro, a cattle-producing company owned by Marcos Ricardo Chiaparini, a lawyer based in São Paulo (Chiaparini & Bastos) (1, 2). Overlapping the property, there is also a CAR declaration (under analysis) under the names of Celso Pess Junior and Valzumiro Ceolim, both active in cattle production. Celso Pess Junior owns Tendência Agronegócios, which is registered in Mato Grosso do Sul as a seed-producing company (3). In July 2023, Celso Pess Junior signed a Conduct Adjustment Agreement (in Portuguese Termo de Ajustamento de Conduta - TAC) with the Mato Grosso State Public Prosecutor's Office, pledging not to carry out any further deforestation in Lote Alvorada (Paranatinga - MT) and to allow the natural regeneration of 6.6 hectares that had been illegally deforested (4).				
(1) http://chiapariniebastos.adv.br/ (2) https://www.consultasocio.com/q/sa/marcos-ricardo-chiaparini (3) https://www.consultasocio.com/q/sa/celso-pess-junior (4) https://transparencia.mpmt.mp.br/includes/simptac-download.php?reg=14966101				

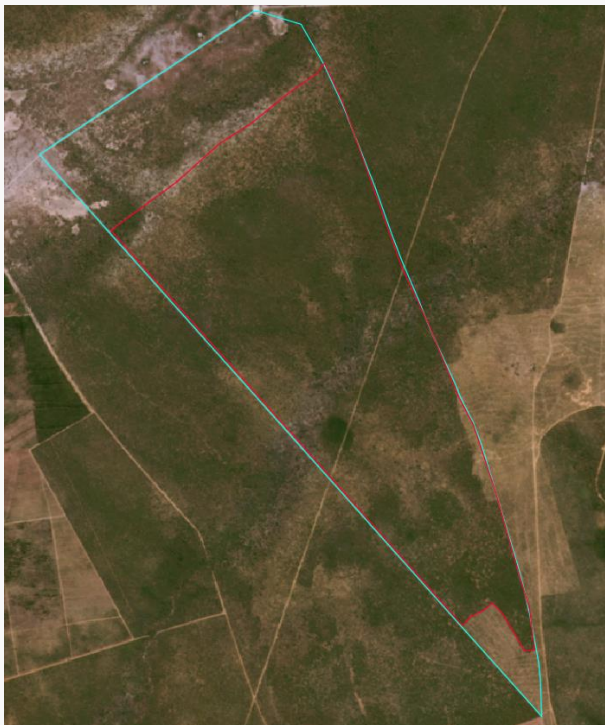
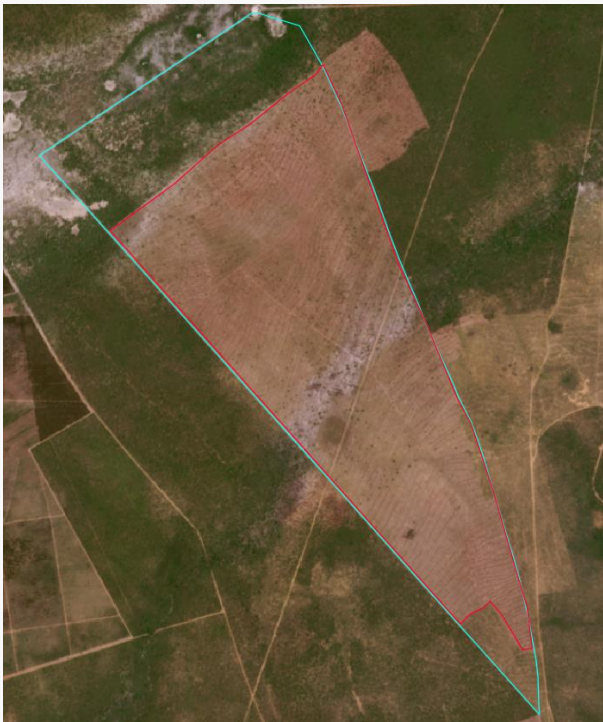
Property			
Fazenda Senhor Jesus A, B and G			
Brasnorte, Mato Grosso		Amazon biome	
CAR:	MT-5101902-254DC8897E8345DA95D30494704FC327 (CAR validated) (B) MT-5101902-309A8E1B63DF42799DB9C72D8050EFB8 (CAR validated) (G) MT-5101902-09F204F84EC843ECBA265249C45C3712 (CAR validated) (A)		SIGEF/ SNCI: 9010400210673
Area property (ha):	11,200	Coordinates property:	-12.53882, -57.77786
Cleared Area			
Coordinates clearance:		-12.56068,-57.80320	
3,677	hectares	period clearance:	March - October 2023
1,123,048	tons of CO ₂		
-	fires alerts		
Inside Forest Code's protected areas:	Yes	2107 ha inside declared Legal Reserve	
Type of vegetation:	Contact between savanna and seasonal forest + Seasonal parkland savanna	Priority for Biodiversity Conservation:	Extremely high
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		Next to the Indigenous Territory Manoki (Irántxe people)	
Imagery: limits of the property (green), limits of the cleared area (red)			
March 2023			
		October 2023	
			
Source: Imagery ©2023 Planet Labs Inc.		Source: Imagery ©2023 Planet Labs Inc.	

Environmental fines and embargoes				
Embargoes:	Yes	José Eugênio Bonjour has 7 embargoes between 2003 and 2018 for illegal use of fire, deforestation and forest degradation in Guiratinga (MT), Alto Garças (MT), and Brasnorte (MT). The embargo issued in 2012 covers an area of 735 ha of Fazenda Senhor Jesus II (Brasnorte - MT) for illegal deforestation. Mauro Fernando Schaedler has one active embargo issued in 2020 in Fazenda Coqueiros II (Gaúcha do Norte - MT) for an unknown reason.		
Environmental fines:	Yes	José Eugênio Bonjour has 10 environmental fines between 2003 and 2012 for illegal deforestation and no compliance with embargoed areas in Brasnorte (MT), Alto Garças (MT), Guiratinga (MT), and Cuiabá (MT). Mauro Fernando Schaedler has 4 environmental fines between 2008 and 2023 in Gaúcha do Norte (MT) and Brasnorte (MT); the most recent one, received in June 2023, is in a property in Gaúcha do Norte.	BRL 3,787,533 / BRL 4,262,500	
Ownership and other linked properties				
Ownership:	José Engênio Bonjour (A, B) / Schaedler family (G)			
Company group:	Bonjour Administração e Participações (Cuiabá - MT), registered as a real estate company / Agropecuária Três Coqueiros (Gaúcha do Norte - MT), ITFD Agrícola (Brasnorte - MT) both registered as soy-producing companies			
Linked properties:	3 linked properties totalling 6,249 ha (owned by José Eugênnio Bonjour). In Guiratinga (MT): Fazenda Novo Horizonte (3,478 ha). In Alto Graças (MT): Fazenda Brasília (2,665 ha), Parque Vereador José Guimarães Alves (106 ha). 2 linked properties totalling 3,863 ha (owned by Mauro Fernando Schaedler). In Brasnorte (MT): Fazenda Boa Vista III and IV (1,478 ha). In Gaúcha do Norte (MT): Fazenda Três Coqueiros (2,385 ha)			
Supply chain links				
Main Commodities	Beef and Soy			
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Medium / Low	JBS / Bunge, Amaggi
Companies' reply:		Marfrig [potential link removed]: “Marfrig has discontinued its operations at Nova Xavantina facility (Mato Grosso state) in December 2019, (...) [and] does not have any supplier registered as José Eugênio Bonjour. Fazenda Itapirana, (...) [owned by] Mauro Fernando Schaedler, [supplied Marfrig] for the last time in September 2018, at the Nova Xavantina unit, in Mato Grosso. On the slaughter date, the farm complied with all of Marfrig’s socio-environmental commitments.”		
Soy	Warehouses (50 km radius)	17 warehouses, including 1 owned by Bnge and 1 by Amaggi		
	Supply chain links & details:	-		
Beef	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	Mauro Fernando Schaedler directly supplied JBS (Juara, Diamantino and Juina - MT) from the property Fazenda Cedral/Fazenda Três Coqueiros (Brasnorte - MT) and indirectly supplied JBS (Água Boa - MT) from the property Fazenda Itapirana in Gaúcha do Norte (MT), all in 2019. He also supplied Marfrig (Nova Xavantina - MT) and JBS (Barra do Garças - MT) through the property Fazenda Itapirana in Gaúcha do Norte (MT) in 2018. José Eugênio Bonjour (unknown property) indirectly supplied Marfrig (Tangará da Serra - MT) and JBS (Juina - MT) in 2019 through Valdir Ostetti (unknown property in Brasnorte - MT)		
Other supply chain links and details:		-		




General comments
<p>José Eugênio Bonjour died in September 2022 and was known as a pioneer in soy production in Rondonópolis (MT) (1); he was also the owner of the company Sementes Bonjour (not active anymore). The cluster of properties at Fazenda Senhor Jesus has different validated CARs declared by Bonjour Administração e Participações (owned by José Eugênio Bonjour) or by Mauro Fernando Schaedler and Ieda Webler Schaedler. Both are active in cattle production with direct and indirect links to Marfrig and JBS. Mauro Fernando Schaedler and Ieda Webler Schaedler own Agropecuária Três Coqueiros (Gaúcha do Norte - MT) and ITFD Agrícola (Brasnorte - MT), which are declared soy-producing companies. The deforestation happens in Fazenda Bom Jesus (registered in SIGEF under José Eugênio Bonjour's name) and in Fazenda Senhor Jesus with validated CAR declared by Mauro Fernando Schaedler, who is active in crop (cotton, soy) and cattle production and supported financially the election of several politicians in 2022 (3). Fazenda Senhor Jesus B, E and G have authorization for the deforestation for logging in 2,195 hectares issued by Sema (MT) (4).</p>
<p>(1) http://www.tjmt.jus.br/noticias/70645 (2) https://www.atribunamt.com.br/estado/2022/09/em-cuiaba-aos-81-anos-morre-o-pioneiro-jose-eugenio-bonjour/ (3) https://oeco.org.br/reportagens/toma-la-da-ca-quem-sao-os-eleitos-com-dinheiro-do-agronegocio-desmatador/ (4) https://geoportal.sema.mt.gov.br/#/</p>

Property			
Fazenda Santa Gabriela			
Nova Maringá, Mato Grosso		Amazon biome	
CAR:	MT241550/2023 (CAR registered in the state of Mato Grosso, no Federal CAR)		SIGEF/SNCI: 9502032307238, 9502032307661, 9502032307319
Area property (ha):	9,090	Coordinates property:	-13.07794, -56.87595
Cleared Area			
Coordinates clearance:		-13.0577, -56.8639	
1,817 hectares		period clearance:	March - September 2023
837,056 tons of CO ₂			
402 fires alerts			
Inside Forest Code's protected areas:	Yes	730 ha inside declared Legal Reserve and APP	
Type of vegetation:	Contact between rainforest and seasonal forest	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)			
March 2023			
		September 2023	
Source: Imagery ©2023 Planet Labs Inc.			
Fires August 2023		Source: Imagery ©2023 Planet Labs Inc.	
		Processed image. Source: European Union - EO Browser Copernicus Sentinel data 2023	

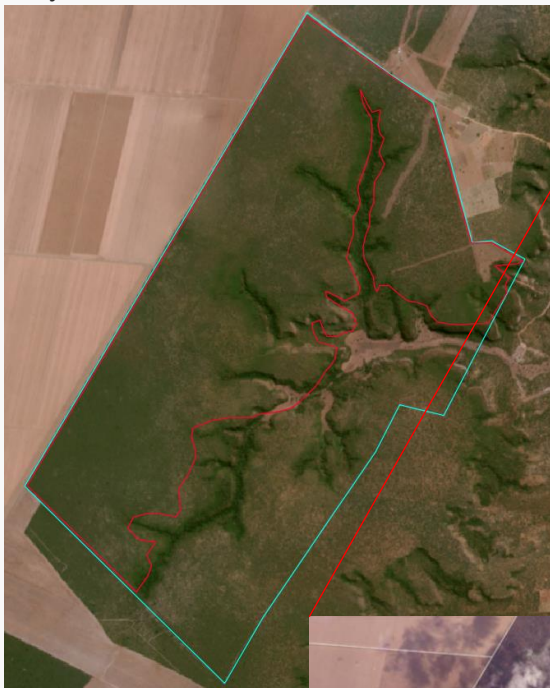
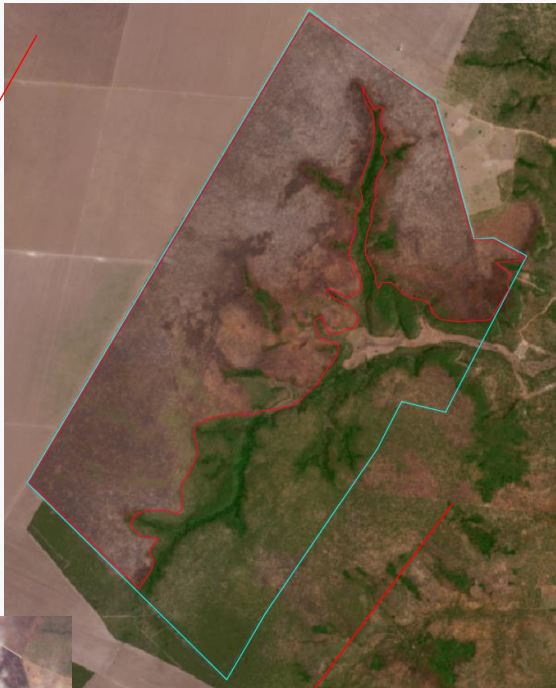

Environmental fines and embargoes				
Embargoes:	Yes	3 embargos in the name of Investe Negócios Imobiliários: 2 due to deforestation of 790 ha and 370 ha in Lote 04, 07 e 08B in 2016 in Cotriguaçu (MT), and 1 issued by Sema (MT) due to illegal deforestation and agricultural activities without authorization in Fazenda Santa Gabriela in 2021 in Nova Maringá (MT). Luciana Arantes da Silva, one of the shareholders of Investe Negócios Imobiliários, also has 1 embargo due to illegal deforestation of 495,7 ha in Fazenda SD in Nova Maringá (MT) in 2021		
Environmental fines:	Yes	2 environmental fines issued by Sema (MT), under the names of Investe Negócios Imobiliários and Luciana Arantes da Silva, due to illegal deforestation in 2021	unknown	
Ownership and other linked properties				
Ownership:	Investe Negócios Imobiliários			
Company group:	Investe Negócios Imobiliários (Brasília), Agropecuária Santa Gabriela (Goiânia), Agropecuária Nossa Senhora do Loreto (Goiânia)			
Linked properties:	1 linked property in Nova Maringá (MT): Fazenda Nossa Senhora do Loreto (3,560 ha)			
Supply chain links				
Main Commodities	Beef and Soy			
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Low	Cofco
Soy	Warehouses (50 km radius)	28 warehouses including 2 owned by Cofco		
	Supply chain links & details:	-		
Beef	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
Investe Negócios Imobiliários is a real estate company registered in Brasília and Goiânia under the ownership of Luciana Arantes da Silva and Hedilenny Arantes da Silva. Agropecuária Santa Gabriela (Goiânia) and Agropecuária Nossa Senhora do Loreto (Goiânia) are linked companies registered as cattle-producing companies (1)				
(1) https://www.consultasocio.com/				

Property			
Fazenda Giongo			
São Desidério, Bahia		Cerrado biome	
CAR: BA-2928901-1CF36CAD8A914CBF9A1ED1140168F0DD		SIGEF/SNCI: 3010270132266	
Area property (ha):	1,057	Coordinates property:	-12.87834, -44.61816
Cleared Area			
Coordinates clearance:		-12.88291, -44.61378	
796 hectares		period clearance:	July - November 2023
102,328 tons of CO2			
- fires alerts			
Inside Forest Code's protected areas:	No - -		
Type of vegetation:	Forested Savanna	Priority for Biodiversity Conservation:	No
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	
Imagery: limits of the property (green), limits of the cleared area (red)			
July 2023			
		November 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:	Cirlei Teresinha Giongo Giacobbo			
Company group:	No linked company identified			
Linked properties:	In Colorado (RS): Agropecuária Giocondo (37 ha)			
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	-	-
Soy	Warehouses (50 km radius)	3 warehouses, none owned by crop exporters		
	Supply chain links & details:	-		
Beef	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	-		
Other supply chain links and details:		-		

Property			
Fazenda Santa Jacira (Sobradinho)			
Santa Rita de Cássia, Bahia		Cerrado biome	
CAR:	BA-2928406- F3CB91C5469541E1A62892E2A0C9C724		SIGEF/SNCI: 9501737501908, 8140671089281
Area property (ha):	3,552	Coordinates property:	-11.15798, -44.74783
Cleared Area			
Coordinates clearance:		-11.1747, -44.7582	
1,885 Hectares		period clearance:	May - November 2023
242,323 tons of CO ₂			
79 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):		Área de Proteção Ambiental do Rio Preto	
Indigenous Territories (overlapping or bordering):		Next to the Indigenous Territory Fazenda Jenipapeiro (Atikum)	
Imagery: limits of the property (green), limits of the cleared area (red)			
May 2023			
<div><div></div><div><p>Source: Imagery ©2023 Planet Labs Inc.</p></div></div>			
<div><div></div><div><p>November 2023</p><p>Source: Imagery ©2023 Planet Labs Inc.</p></div></div>			
<div><div></div><div><p>Fires October 2023</p><p>Processed image. Source: European Union - EO Browser Copernicus Sentinel data 2023</p></div></div>			

Environmental fines and embargoes				
Embargoes:	No	-		
Environmental fines:	No	-	-	
Ownership and other linked properties				
Ownership:	Gaunay Agropecuária			
Company group:	Gaunay Agropecuária, Frigorífico Ipê, Ipê Agro, Instituto Ipê Agro, JK Reserva Incorporadora e Construtora, and Vesp Participações			
Linked properties:	11 other properties, totaling 20,105 ha. In Santa Rira de Cássia (BA): Fazenda Sobradinho (1,878 ha), Fazenda Santa Jacira III (2,245 ha), Fazenda Taquari (1,240 ha), Fazenda Eldorado (1,100 ha), Fazenda Mangabeiras (180ha), Fazenda Conquista (360 ha), Fazenda Alvorada (220 ha), Fazenda Mimosa (262 ha), Fazenda Boa Sorte (225 ha), Fazenda Itaparica (395 ha), Fazenda Ipê (12,000 ha)			
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)	2 warehouses, none owned by crop exporters		
	Supply chain links & details:	-		
Beef	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	The ownership of Fazenda Santa Jacira (Gaunay Agropecuária) links it to the regional slaughterhouse Frigorífico Ipê (Barreiras - BA)		
Other supply chain links and details:		-		
General comments				
<p>The owners of Fazenda Sobradinho are linked to Gaunay Agropecuária and Frigorífico Ipê, a company authorized to export beef products and one of the largest beef processors in operation in Bahia state (1). Stefan Zembrod, one of the owners of Gaunay Agropecuária and CEO of Ipê Group, was the president of the Association of Cattle Breeders from West Bahia (ACRIOESTE) from 2017/2018 (2). In 2019, an official delegation from the Indonesian and Cuban governments visited Fazenda Ipê, another property linked to this case, to prospect for beef products imports (3). Fazenda Ipê is a 16,600-hectare property in Santa Rita de Cássia (BA), which can raise until 13,000 cattle herds (4). The property uses artificial insemination techniques and produces bovine feed from cotton, biogas, and biodiesel (5). Ipê Group is also responsible for Ipê Foods, a retail franchising store brand of high-quality processed beef products (6). In July 2021, Gaunay Agropecuária obtained an authorization valid until July 2025 for deforestating 3,839 hectares at Fazenda Santa Jacira/Sobrinho and other 8 properties to expand cattle production (7).</p>				
<p>(1) https://jornalnovafrontera.com.br/destaque/frigorifico-ipe-assume-planta-frigorifica-do-antigo-fribarreiras/ (2) http://oestepecuaria.com.br/2018/07/23/pecuaria-cresce-no-oeste-baiano/ (3) https://www.cnabrazil.org.br/noticias/delegacao-estrangeira-visita-fazenda-de-pecuaria-de-corte (4) https://ipeagro.agr.br/ipe-agro-de-pecuarista-para-pecuarista/ (5) https://www.cnabrazil.org.br/noticias/delegacao-estrangeira-visita-fazenda-de-pecuaria-de-corte (6) https://ipefoods.com.br/quem-somos/ (7) INEMA (Bahia) database</p>				

Property			
Fazenda Vereda do Mato			
Baixa Grande do Ribeiro, Piauí		Cerrado biome	
CAR: PI-2201150-7BF87525CE5242C0B732D44989245A68		SIGEF/SNCI: 1220840121309	
Area property (ha):	1,325	Coordinates property:	-7.90414, -44.99658
Cleared Area			
Coordinates clearance:		-7.90241, -45.00174	
851 Hectares		period clearance:	July - November 2023
42,530 tons of CO2			
15 fires alerts			
Inside Forest Code's protected areas:	Yes	98 ha inside declared Legal Reserve	
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)			
July 2023		November 2023	
			
Source: Imagery ©2023 Planet Labs Inc.		Source: Imagery ©2023 Planet Labs Inc.	
Fires November 2023			
		Processed image. Source: European Union - EO Browser Copernicus Sentinel data 2023	

Environmental fines and embargoes				
Embargoes:	No	-		
Environmental fines:	No	-	-	
Ownership and other linked properties				
Ownership:	Maria da Conceição Barbosa de Sousa			
Company group:	No linked company identified			
Linked properties:	No linked properties identified			
Supply chain links				
Main Commodities	Soy			
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Low	Bunge
Soy	Warehouses (50 km radius)	29 warehouses, 1 owned by Binge		
	Supply chain links & details:	-		
Beef	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
In 2020, Maria de Souza requested authorization for deforestation and implement of soy, corn and bean cultivation at Fazenda Vereda do Mato (1)				
(1) http://www.diariooficial.pi.gov.br/diario/202010/DIARIO28_d726529c55.pdf				

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 SNCL.

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.

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