

January 2023

# Realtime Deforestation Monitoring System 9



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



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, recent increase of deforestation rates is mostly linked to the expansion of Soy and Cattle production within Amazon and Cerrado biomes.

The RDM report of January 2023 highlights 8 cases linked to beef and soy supply chains totaling 14,947 hectares of deforestation and 70 fire alerts in Mato Grosso and Bahia states. The cases are in Amazon and Cerrado biomes and cover deforestation alerts detected in December 2022 and confirmed as deforestation events happening between January 2022 and February 2023.

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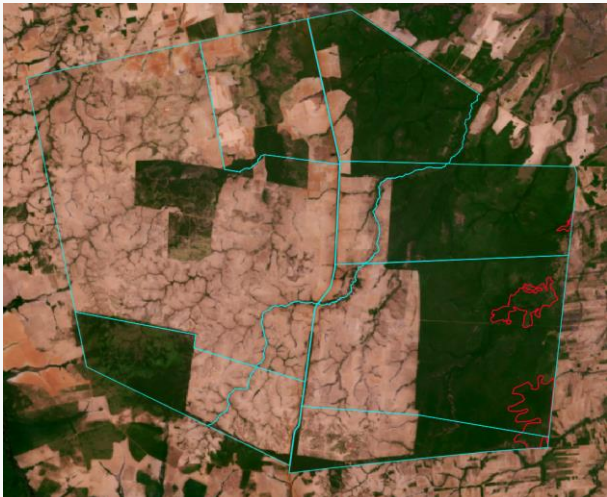
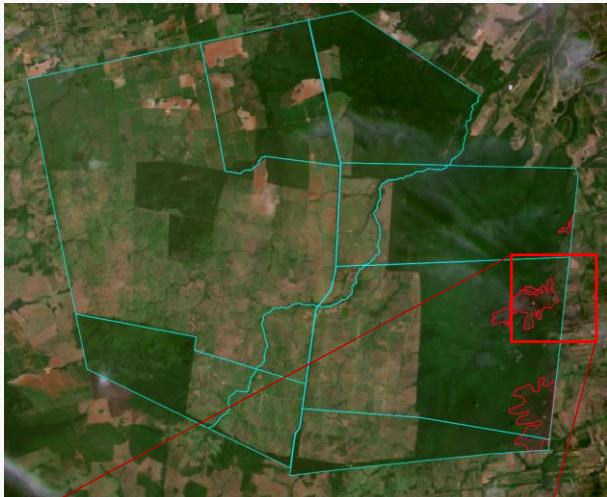

Property			
Fazenda Gaúcha - Gleba B / Gleba Centro Oeste			
Juara, Mato Grosso		Amazon biome	
CAR:	MT-5105101-BA95B12999FA4427961F5D622A387291, MT-5105101-722F871DDEFF4BFC8C5C4219F90E4EC0, MT-5105101-FDD7F77ACOD94DBA8027AAFF6C86934C, MT-5105101-E7359E8C1BEE4AB99C7B6B227D51DB96	SIGEF/ SNCI:	9011211143910
Area property (ha):	18,541	Coordinates property:	-57.83876, -11.88532
Cleared Area			
Coordinates clearance:	-11.87101, -57.81786		
804 hectares	period clearance: Jun 2022 to Feb 2023		
31 fires alerts			
Inside Forest Code's protected areas:	No	- -	
Type of vegetation:	Ombrophilous Open 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.			
February 2023			
			
Source: European Union - EO Browser Copernicus Sentinel data 2023			

Environmental fines and embargoes				
Embargoes: No -				
Environmental fines:	Yes	8 environmental fines: 1 fine in Fazenda Lucata II in 2021; 1 in Fazenda Santa Germen in 2005; in 2011 and 1999, 2 environmental fines for non-authorized use of fire in an unknown area; 1 fine in 2019 for building a bridge without authorization in a property in Brasnorte (MT); 2 fines in 2010 for not presenting required documents to the State Environmental Agency regarding a property in Alta Floresta (MT); and 1 fine in 2010 in a property in Vila Bela da Santíssima Trindade (MT)		BRL 170,000
Ownership and other linked properties				
Ownership:		STX Agropecuária		
Company group:		STX Agropecuária, JCR Agropecuária		
Linked properties:		14 other properties in Mato Grosso, totaling at least 77,651 ha. In Vila Bela da Santíssima Trindade (MT): Fazenda Vitória do Guaporé (2,710 ha), Fazenda Lagoa do Encanto (12,040 ha). In Brasnorte (MT): Fazenda Itauna (3,480 ha), Fazenda Santa Germen (8,500 ha), Fazenda Ingaí - Área A and B (2,990 ha), Fazenda Imburana - Área A (1,350 ha), Fazenda Tombador do Sangue (1,230 ha), and Fazendas Paraíso, Jaboticabal, São Paulo, Santa Madalena, Santa Maria, Loanda, and parte do lote São Bento (8,213 ha). In Aripuanã (MT): Fazenda São João (1,790 ha), Fazenda Boa Vista II / Fazenda Jatobá (3,405 ha), Fazenda Jeeda (17,826 ha), Fazenda Amor do Aripuanã (5,000 ha). In Nova Bandeirantes (MT): Fazenda Matrinchã II (4,720 ha). In Comodoro (MT): Fazenda Esperança (3,807 ha)		
Supply chain links				
Main Commodities		Beef and Timber		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Medium	JBS, Marfrig
Soy	Main exporters (municipality)	Bunge (100%)		
	Warehouses (50 km radius)	8 silos, including:		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	JBS (56%), Marfrig (25%), Minerva (8%), others (11%)		
	Slaughterhouses (sourcing from the municipality)	29 slaughterhouses source cattle from Juara (MT), e.g.: 4 owned by JBS (Juara, Juína, Diamantino, and Alta Floresta, all in MT), 1 by Marfrig (Tangará da Serra - MT), 1 by Minerva (Várzea Grande - MT)		
	Supply chain links & details:	Linked to 12 cattle ranches in Mato Grosso (Aripuanã, Vila Bela da Santíssima Trindade, and Brasnorte). Several of these properties directly supply JBS, e.g. unnamed property in Brasnorte (MT) directly supplied cattle to JBS in Juína (MT) in 2019, and Fazenda Vitória do Guaporé, in Vila Bela da Santíssima Trindade (MT), directly supplied JBS in Pontes e Lacerda (MT), in 2019		
Other supply chain links and details:		In 2020, Fazenda Lucata I supplied timber to Estrela Indústria e Comércio de Madeiras, a supplier of wood residuals for energy generation to Bunge (Nova Mutum - MT) and Libra, an ethanol producer company		

## General comments

The considered property is a cluster of 4 farms all registered under STX Agropecuária. The CAR declarations of the properties are already validated by SEMA (Environmental Agency of Mato Grosso state) and are partially declared by STX Agropecuária (Fazenda Lucata I and II) and partially by JCR Agropecuária (Fazenda Gaúcha I and II). The clearance reported in this case falls in the part of the property's cluster declared in the validated CAR as Fazenda Gaúcha I (by JCR Agropecuária). The previous RDM report from June 2022 (1) included detected clearance of native vegetation in this same cluster of properties, falling in two farms: Fazenda Gaúcha I (JCR Agropecuária) and Fazenda Lucata I (STX Agropecuária). Both clearances are authorized by the environmental agency (2). The properties have also approved Sustainable Forest Management plans for timber, however, one of these areas received an embargo for forest degradation in October 2021 (1,100 ha in Fazenda Gaúcha II). STX Agropecuária is active in the cattle and timber sectors and registered in different address including its headquarter in São José do Rio Preto (SP) (3). The owner of STX Agropecuária is linked to the ownership/management of other 43 different companies (4). STX Agropecuária is linked to at least 12 different cattle ranches in MT, most of them directly supplying slaughterhouses owned by JBS. In 2014, the owner of STX Agropecuária signed a Conduct Adjustment Term (translated from Termo de Ajustamento de Conduta - TAC) with the Environment Agency of Mato Grosso state defining the payment of BRL 5,000 per hectare for the compensation of the degradation of the Area for Permanent Conservation (APP) in Fazenda Boa Vista II, in Aripuanã (MT) (5). The company signed other TACs linked to degradation of native vegetation: in 2013 regarding Fazenda Jeedá, also in Aripuanã (MT) (6), and in 2011 regarding an unknown property in Vila Bela da Santíssima Trindade (MT) (7). Luiz Carlos Tavares acquired 10 loans – 3 of them still active – totalling BRL 2,5 million from the BNDES (Brazilian Development Bank) between 2007 and 2018: 9 for investments in soybean farming and cattle raising in Brasnorte (MT) and 1 in Bebedouro (SP) (8).

- (1) <https://aidenvironment.org/wp-content/uploads/2022/06/Realtime-Deforestation-Monitoring-Report-June-2022.pdf>
- (2) <https://geoportal.sema.mt.gov.br/#/>
- (3) <https://consultacnpj.com/cnpj/stx-agropecuaria-ltda-05268414000381>
- (4) <https://www.consultasocio.com/q/sa/luiz-carlos-tavares>
- (5) <https://www.jusbrasil.com.br/diarios/76345931/doemt-09-09-2014-pg-10>
- (6) <https://www.escavador.com/diarios/647639/DOEMT/P/2013-10-17?page=15>
- (7) <https://www.jusbrasil.com.br/diarios/28237262/pg-25-diario-oficial-do-estado-do-mato-grosso-doemt-de-14-06-2011?ref=serp>
- (8) <https://www.bndes.gov.br/wps/portal/site/home/transparencia/consulta-operacoes-bndes>

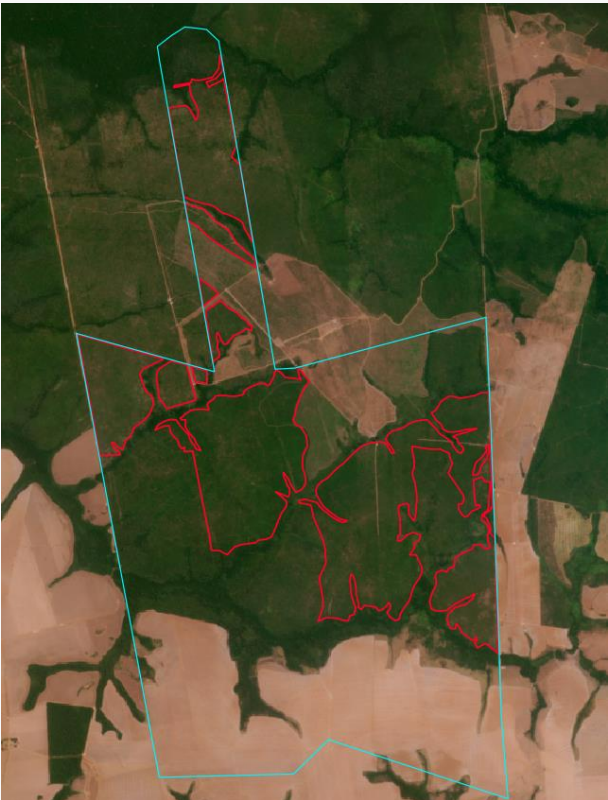
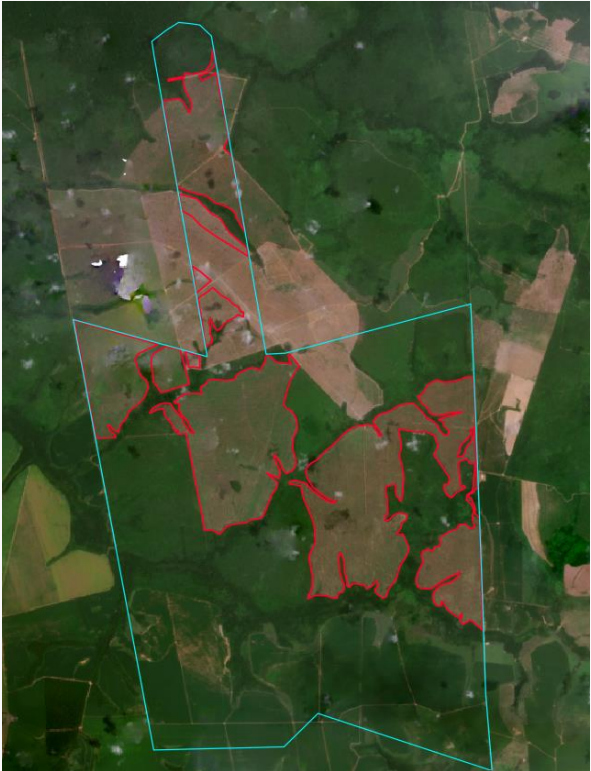
Property				
Fazenda Rio Preto, Fazenda Rio Preto I, and Fazenda Rio Preto II				
São Félix do Araguaia, Mato Grosso		Amazon biome		
CAR:	MT-5107859- 6D5C60DF18FD46429334004AAF80FA 33	SIGEF/SNCI:	9010830134717	
Area property (ha):		141,816	Coordinates property:	-51.66008, -11.44728
Cleared Area				
Coordinates clearance:		-11.46121, -51.51262		
2,472 hectares		period clearance: Sep 2022 to Dec 2022		
28 fires alerts				
Inside Forest Code's protected areas:		Yes	2472 ha inside declared Legal Reserve and APP	
Type of vegetation:	Forested Savanna		Priority for Biodiversity Conservation:	Extremely high
Conservation area(s) (overlapping or bordering):		-		
Indigenous Territories (overlapping or bordering):		Marãiwatsédé		
Imagery: limits of the property (blue) limits of the cleared area (red)				
September 2022		December 2022		
				
Source: Imagery ©2022 Planet Labs Inc.		Source: Imagery ©2022 Planet Labs Inc.		
Fire 17 <sup>th</sup> October 2022				
		Source: European Union - EO Browser Copernicus Sentinel data 2022		



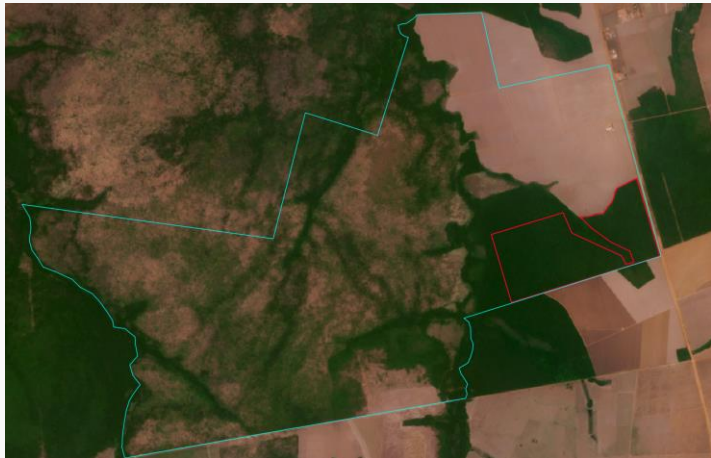
Environmental fines and embargoes					
Embargoes:	Yes	3 embargoes in Fazenda Rio Preto I (Canabrava do Norte - MT): 1 for illegal clearance of 1,946 ha of native vegetation and 1 for unknown reason, both in 2009; and in 2022, 1 embargo covering 17 different areas of illegal clearance			
Environmental fines:	Yes	16 environmental fines: 1 fine in Fazenda Rio Preto II (São Félix do Araguaia - MT) for unauthorized burning of 900 ha of native vegetation in 1998; and 12 fines in Fazenda Rio Preto I (Canabrava do Norte - MT) [In 1999, 1 fine for illegal deforestation. In 2009, 1 fine for clearing of 3,103 ha of native vegetation. In 2005, 2009, and 2014, 4 fines for unauthorized use of fire in different areas of the property burning a total of 2,637 ha of native vegetation. In 2011 and 2012, 2 fines for breaching existing embargoes. In 2009, 2 fines for unauthorized buildings/structures in the property. In 2009, 1 fine for withholding required information from IBAMA. In 2021, 1 fine for unknown reasons]. Other 3 fines in linked or unknown properties: in 2007, 1 fine in São Félix do Araguaia (MT); and 2 fines in Canabrava do Norte (MT), in 2010		BRL 22,867,385	
Ownership and other linked properties					
Ownership:	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			
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	High / Medium / Low	Minerva / JBS / Viterro, Amaggi	
Soy	Main exporters (municipality)	Viterro (80%), Amaggi (14%), Bunge (6%)			
	Warehouses (50 km radius)	10 silos, including: 1 owned by Amaggi			
	Supply chain links & details:	There was soy cultivated in the area in 2021. In 2019, the linked properties Fazenda Imburana and Fazenda Santa German, both in Brasnorte (MT), supplied soybean to Amaggi (1)			
Beef	Main traders (municipality)	JBS (44%), Marfrig (20%), Frigoestrela SA (12%), others (24%)			
	Slaughterhouses (sourcing from the municipality)	16 slaughterhouses source cattle from São Félix do Araguaia (MT), e.g.: 3 owned by JBS (Água Boa, Barra do Garças, and Confresa - all in MT) and 1 by Marfrig (Nova Xavantina - MT).			
	Supply chain links & details:	Indirectly supplied Minerva (Palmeiras do Goiás - GO) through a linked property (same ownership), Fazenda Califórnia Confinamento (Turvânia - GO) in 2018. This linked property, Fazenda Califórnia, continued to directly supply Minerva until 2022. Indirectly supplied JBS (Confresa - MT), through Fazenda Três Cores (Confresa - MT)			
Other supply chain links and details:		-			

General comments
<p>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 (grigalem) 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).</p>
<p>(1) undisclosed data (2) <a href="http://jbiagropecuaria.com.br/">http://jbiagropecuaria.com.br/</a> (3) <a href="https://reporterbrasil.org.br/2007/05/nove-condenacoes-somam-mais-de-10-milhoes-de-reais/">https://reporterbrasil.org.br/2007/05/nove-condenacoes-somam-mais-de-10-milhoes-de-reais/</a> (4) <a href="https://www.olhardireto.com.br/noticias/exibir.asp?id=35122&amp;noticia=entenda-quem-era-quem-no-esquema-de-grilagem-praticado-no-araguaia">https://www.olhardireto.com.br/noticias/exibir.asp?id=35122&amp;noticia=entenda-quem-era-quem-no-esquema-de-grilagem-praticado-no-araguaia</a> (5) <a href="https://www.rdnews.com.br/ultimas/pecuarista-contrata-advogados-para-desapropriar-terra/15694">https://www.rdnews.com.br/ultimas/pecuarista-contrata-advogados-para-desapropriar-terra/15694</a></p>



Property	
Fazenda Saudade IV, VI, VII, VIII	
Porto dos Gaúchos, Mato Grosso	Amazon biome
CAR: MT-5104542-4AD855EC15634930A0B1888F4242489E	SIGEF/SNCI: -
Area property (ha): 6,396	Coordinates property: -56.71713, -11.91393
Cleared Area	
Coordinates clearance:	-11.95843, -56.69464
2,056 hectares	period clearance: Sep 2022 to Jan 2023
- fires alerts	
Inside Forest Code's protected areas: Yes	2056 ha inside declared Legal Reserve
Type of vegetation: Alluvial Semi Deciduous Seasonal 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)	
September 2022	
	
Source: Imagery ©2022 Planet Labs Inc.	
January 2023	
	
Source: Imagery ©2023 Planet Labs Inc.	

Environmental fines and embargoes				
Embargoes:	Yes	8 embargoes in the Fazenda Saudade cluster: 2 in Fazenda Saudade in 2016, 3 in Fazenda Saudade I e II in 2016, 2017 and 2022, and 3 in Fazenda Saudade IV, VI, VII and VIII in 2022. Other 4 embargoes in linked properties - one of the owners of the Fazenda Saudade cluster, Osvaldo Luiz Rubin, has other 3 embargoes: 1 in Fazenda São João (Tapurah - MT) in 2021, 1 in Fazenda Boa Vista (Rondonópolis - MT) in 2019, and 1 in an unknown property in 2013; another owner of the Fazenda Saudade cluster, Ermes Rubin Pasqualotto, has 1 embargo in Fazenda São Braz (Sorriso - MT) in 2009		
Environmental fines:	Yes	9 environmental fines: 6 linked to the Fazenda Saudade cluster in 2016; 2 fines in a linked property in Tapurah (MT) in 2010; and 1 in a linked property in Sorriso (MT) in 2009	BRL 3,155,550	
Ownership and other linked properties				
Ownership:	Osvaldo Luiz Rubin Pasqualotto, Ermes Rubin Pasqualotto			
Company group:	Transportadora Pasqualotto, RP Administração e Participação, both registered in Rondonópolis (MT)			
Linked properties:	10 linked properties, totaling at least 10,660 ha. In Juscimeira (MT): Fazenda Boa Vista (309 ha), Fazenda Minuano I (unknown area). In Porto dos Gaúchos (MT): Fazenda Saudade I and II (3,135 ha). In Sorriso (MT): Fazenda Nossa Senhora Aparecida I (430 ha), Fazenda Nossa Senhora Aparecida II (470 ha), Fazenda Sorriso I (1,175 ha). In Tapurah (MT): Fazenda São João (5,140 ha). In Vila Rica (MT): Fazenda Skalada (unknown area). In Rondonópolis (MT): Fazenda Colorado (unknown area). In Poxoréo (MT): Fazenda Rio vermelho (unknown area)			
Supply chain links				
Main Commodities		Beef and Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	High / Low	JBS / Cofco, ADM
Soy	Main exporters (municipality)	Cofco (47%), LDC (33%), others (20%)		
	Warehouses (50 km radius)	37 silos, including 1 owned by Cofco		
	Supply chain links & details:	There was soy cultivated in the area in 2021. The linked property, Fazenda Boa Vista (Juscimeira - MT), supplied soybean to Cofco in 2018 and 2019. The linked property, Fazenda Minuano (Juscimeira -MT), supplied soybean to ADM in 2018 and 2019 (1)		
Beef	Main traders (municipality)	JBS (81%), Marfrig (8%), Minerva (4%), others (7%)		
	Slaughterhouses (sourcing from the municipality)	11 slaughterhouses source cattle from Porto dos Gaúchos (MT), e.g.: 1 owned by JBS (Juara - MT) and 1 by Marfrig (Paranatinga - MT).		
	Supply chain links & details:	Indirectly supplied JBS (Pedra Preta - MT) through three linked properties (same ownership), Fazenda Colorado (Rondonópolis - MT), Fazenda Minuano I (Juscimeira - MT), and Fazenda Boa Vista (Juscimeira - MT), all in 2018		
Other supply chain links and details:		-		
General comments				
Osvaldo Luiz Rubin Pasqualotto is currently one of the Directors of the Farmer's Union of Rondonópolis (2). He is also a representative of the National Association of Soy Producers (Aprosoja) in Rondonópolis (3).				
(1) undisclosed data				
(2) <a href="https://sindrural.org.br/diretoria/">https://sindrural.org.br/diretoria/</a>				
(3) <a href="http://www.aprosoja.com.br/nucleos/pagina/4/">http://www.aprosoja.com.br/nucleos/pagina/4/</a>				

Property			
Fazenda Nossa Senhora Aparecida / Alvorada			
Paranatinga, Mato Grosso		Amazon biome	
CAR:	MT-5106307-40A9E1B68F65454C911D570C27DDAAA9	SIGEF/SNCI:	-
Area property (ha):		8,857	Coordinates property: -54.30122, -13.37122
Cleared Area			
Coordinates clearance:		-13.37305, -54.25975	
629 hectares		period clearance: Oct 2022 to Dec 2022	
- fires alerts			
Inside Forest Code's protected areas: Yes		629 ha inside declared Legal Reserve	
Type of vegetation:	Alluvial Semi Deciduous Seasonal Forest	Priority for Biodiversity Conservation:	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></div> <p>Source: Imagery ©2022 Planet Labs Inc.</p>			
<p>December 2022</p> <div></div> <p>Source: Imagery ©2022 Planet Labs Inc.</p>			




Environmental fines and embargoes				
Embargoes:		No	-	
Environmental fines:	Yes	2 environmental fines in Lote Alvorada (Paranatinga - MT) in 2006 and 2021 due to environmental control		BRL 20,000
Ownership and other linked properties				
Ownership:		Florisberto Leal		
Company group:		Agro Leal (Cuiabá - MT)		
Linked properties:		2 linked properties in Paranatinga (MT), totaling at least 1,005 ha: Lotes Descampado (1,005 ha), Fazenda São José (unknown area)		
Supply chain links				
Main Commodities		Beef and Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Low	Bunge, Cargill
Soy	Main exporters (municipality)	Cargill (13%), LDC (10%), Cofco (6%), Bunge (6%), others (64%)		
	Warehouses (50 km radius)	13 silos, including 1 owned by Bunge		
	Supply chain links & details:	There was soy cultivated in the area in 2021		
Beef	Main traders (municipality)	Marfrig (58%), JBS (24%), Minerva (8%), others (10%)		
	Slaughterhouses (sourcing from the municipality)	12 slaughterhouses source cattle from Paranatinga (MT), e.g.: 4 owned by JBS (Água Boa, Barra do Garças, Colider, Diamantino, Pedra Preta - all in MT), 1 by Marfrig (Nova Xavantina, Paranatinga, Várzea Grande - all in MT), and 2 by Minerva (Paranatinga and Várzea Grande - both in MT).		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
In 2006, this property was included in the "dirty list" of slave work - 46 workers were rescued (1, 2). Florisberto Leal, the owner of Fazenda Nossa Senhoras Aparecida / Alvorada, has an authorization for deforestation and logging of 671,7 hectares at Fazenda Nossa Senhora Aparecida IV e V and Fazenda Junqueira Parte I e II issued in February 2022 by the Mato Grosso environmental agency (SEMA) (3).				
(1) <a href="https://g1.globo.com/Noticias/Brasil/0..AA1281538-5598.00-FISCAIS+LIBERTAM+TRABALHADORES+ESCRAVOS+EM+MATO+GROSSO.html">https://g1.globo.com/Noticias/Brasil/0..AA1281538-5598.00-FISCAIS+LIBERTAM+TRABALHADORES+ESCRAVOS+EM+MATO+GROSSO.html</a> (2) <a href="https://reporterbrasil.org.br/2006/09/fazenda-escravagista-no-mato-grosso-tenta-driblar-fiscalizacao/">https://reporterbrasil.org.br/2006/09/fazenda-escravagista-no-mato-grosso-tenta-driblar-fiscalizacao/</a> (3) <a href="http://monitoramento.sema.mt.gov.br/simlam/Relatorios/PDFTitulo.aspx?idTitulo=714769">http://monitoramento.sema.mt.gov.br/simlam/Relatorios/PDFTitulo.aspx?idTitulo=714769</a> and <a href="http://monitoramento.sema.mt.gov.br/simlam/Relatorios/PDFTitulo.aspx?idTitulo=714767">http://monitoramento.sema.mt.gov.br/simlam/Relatorios/PDFTitulo.aspx?idTitulo=714767</a>				

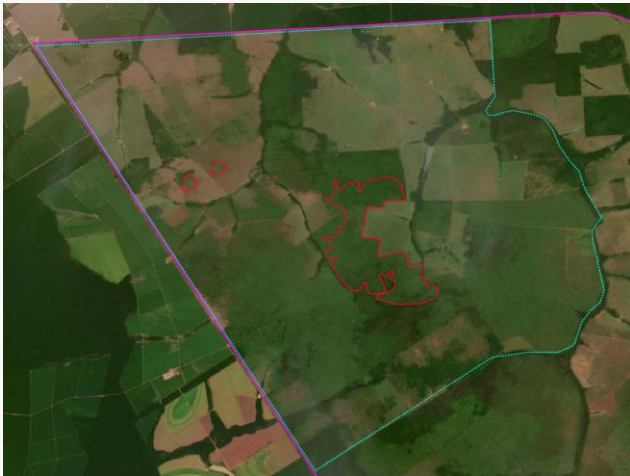
Property			
Area inside the Indigenous Territory Marãiwatsédé			
Alto Boa Vista, Mato Grosso		Amazon biome	
CAR: -		SIGEF/SNCI: -	
Area property (ha): 28,100		Coordinates property: -51.87671, -11.79303	
Cleared Area			
Coordinates clearance:		-11.81360, -51.85941	
1,277 hectares		period clearance: Jan 2022 to Nov 2022	
11 fires alerts			
Inside Forest Code's protected areas: No data		- -	
Type of vegetation: Seasonal Semidecidual Forest		Priority for Biodiversity Conservation: No	
Conservation area(s) (overlapping or bordering): -			
Indigenous Territories (overlapping or bordering): Marãiwatsédé			

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

Indigenous Territory Marãiwatsédé



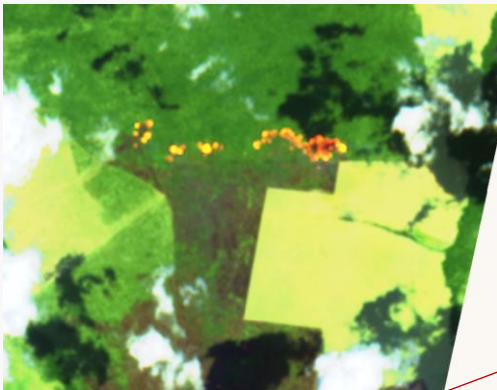
January 2022



Source: Imagery ©2022 Planet Labs Inc.

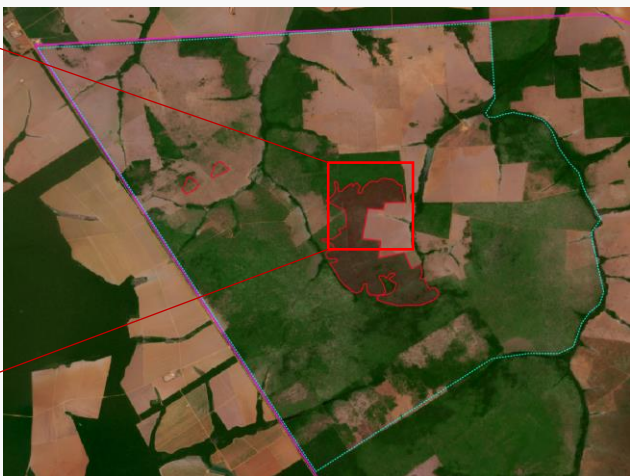
Fire

20<sup>th</sup> October 2022



Source: European Union - EO Browser Copernicus Sentinel data 2022

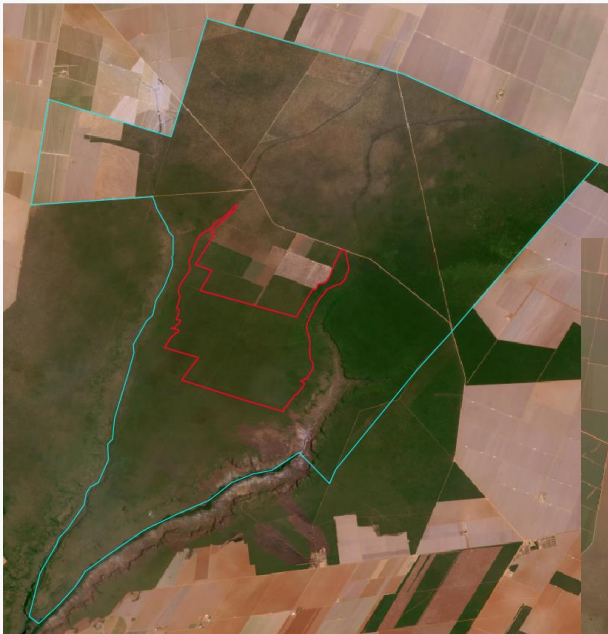

November 2022





Source: Imagery ©2022 Planet Labs Inc.

Environmental fines and embargoes				
Embargoes:	Yes (other links)	1 embargo in 2019 for illegal fire in the linked property Fazenda Espigão (São Félix do Araguaia - MT)		
Environmental fines:	Yes (other links)	2 environmental fines: 1 fine for illegal fishing in 1998 and 1 in the linked property, Fazenda Espigão (São Félix do Araguaia - MT), for illegal use of fire in 2009		BRL 535
Ownership and other linked properties				
Ownership:	Derso Portilho Vieira			
Company group:	No linked company found			
Linked properties:	3 linked properties, totaling at least 11,950 ha. In Vila Rica (MT): Fazenda Ana Maria - Área I (unknown area). In São José do Xingu (MT): Fazenda Recanto do Nelore (3,782 ha). In São Félix do Araguaia (MT): Fazenda Espigão (8,168 ha)			
Supply chain links				
Main Commodities		Beef		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	High / Medium	JBS, Marfrig / Cargill
Soy	Main exporters (municipality)	No data		
	Warehouses (50 km radius)	17 silos, including 1 owned by Amaggi		
	Supply chain links & details:	A linked property, Fazenda Recanto do Nelore (São José do Xingu - MT), had a credit in advance for future sales (Cédula de Produto Rural - CPR) to deliver corn to a Cargill in 2022. The CPR was signed with another farmer, Fernando Vieira Perez, possibly a relative		
Beef	Main traders (municipality)	JBS (60%), Marfrig (40%)		
	Slaughterhouses (sourcing from the municipality)	2 slaughterhouses source cattle from Alto Boa Vista (MT), e.g: 2 owned by JBS (Barra do Garças - MT and Água Boa - MT), and 1 by Marfrig (Nova Xavantina - MT)		
	Supply chain links & details:	An unknown property in São Félix do Araguaia (MT), directly supplied JBS (Confresa - MT) in 2019. A linked property, Fazenda Espigão in São Félix do Araguaia (MT), directly supplied cattle to JBS (Água Boa - MT and Confresa - MT), and to Marfrig (Nova Xavantina - MT) in 2018		
Other supply chain links and details:		-		
General comments				
Derso is among a group of 10 cattle producers that are being the centre of Federal Public Prosecutor Office and Federal Police investigation for invading the Indigenous Territory Marãiwatsédé (1). This group of producers are allegedly illegally leasing area inside the territory and had all their finance (goods) blocked by the court in September 2022 (3). Linked to the same case, there is an accusation that a former representative of the National Indigenous Foundation (Funai) was receiving part of the money paid by the producers for the illegal leasing of the area inside the indigenous territory (3).				
(1) <a href="https://www.midiajur.com.br/justica/mpf-processa-10-fazendeiros-por-crimes-ambientais-em-terra-indigena/46527">https://www.midiajur.com.br/justica/mpf-processa-10-fazendeiros-por-crimes-ambientais-em-terra-indigena/46527</a>				
(2) <a href="https://folhadoestadoonline.com.br/cidades/justica-bloqueia-r-667-milhoes-de-alvos-da-pf-por-criacao-de-gado-em-terra-indigena-veja-lista/">https://folhadoestadoonline.com.br/cidades/justica-bloqueia-r-667-milhoes-de-alvos-da-pf-por-criacao-de-gado-em-terra-indigena-veja-lista/</a>				
(3) <a href="https://www.agrnoticias.com.br/noticias/cacique-diz-que-coordenador-da-funai-recebia-10-de-propina-por-arrendamentos-intermediados/">https://www.agrnoticias.com.br/noticias/cacique-diz-que-coordenador-da-funai-recebia-10-de-propina-por-arrendamentos-intermediados/</a>				



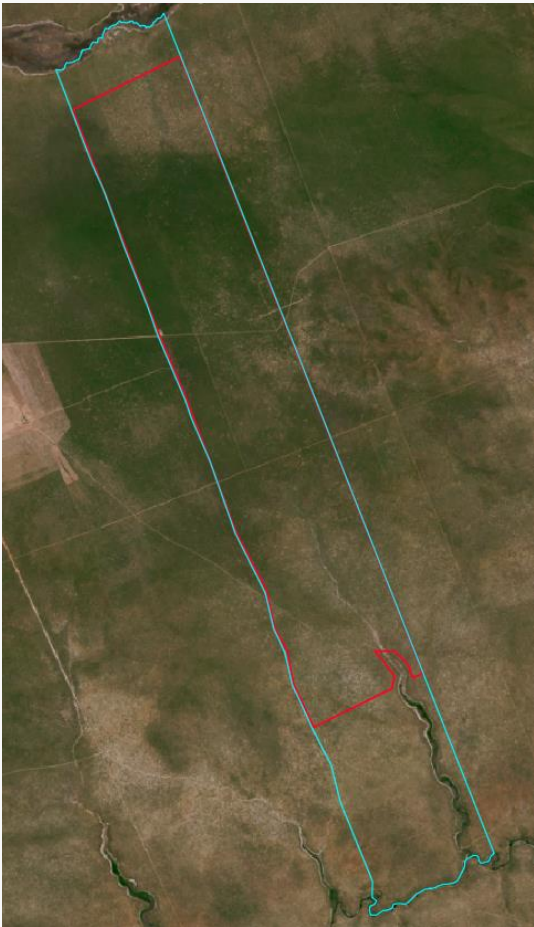

Property			
Fazenda Sacuri			
Formosa do Rio Preto, Bahia		Cerrado	biome
CAR:	BA-2911105-6747CAE5FE0947419334B7A92D467D25	SIGEF/SNCI:	3010860069632
Area property (ha):		31,968	Coordinates property: -45.70760, -10.44199
Cleared Area			
Coordinates clearance:		-10.47565, -45.72756	
2,860 hectares		period clearance: Oct 2022 to Jan 2023	
- fires alerts			
Inside Forest Code's protected areas: Yes		370 ha inside declared Legal Reserve	
Type of vegetation:	Wooded Savanna	Priority for Biodiversity Conservation:	Extremely high
Conservation area(s) (overlapping or bordering):		Área de Proteção Ambiental do Rio Preto	
Indigenous Territories (overlapping or bordering):		-	
Imagery: limits of the property (blue) limits of the cleared area (red)			
October 2022			
		January 2023	
<small>Source: Imagery ©2022 Planet Labs Inc.</small>			
<small>Source: Imagery ©2023 Planet Labs Inc.</small>			

Environmental fines and embargoes				
Embargoes:	No	-		
Environmental fines:	No	-		
Ownership and other linked properties				
Ownership:	Algodoeira Goioerê			
Company group:	Algodoeira Goioere (cotton) and Agropecuária Goioere (soybeans), both in Formosa do Rio Preto (BA) owned by Okamoto and Ueno families (Alberto Yutaro Okamoto, Julio Kenzo Okamoto, Reinaldo Massao Okamoto, Fabio Medeiros Ueno)			
Linked properties:	5 linked properties, totaling at least 22,456 ha. In Mateiros (TO): Ponte Alta - Lote 11, Gleba 22 (2,838 ha). In Formosa do Rio Preto (BA): Fazenda Campina III (1,012 ha), Fazenda Fernão Dias (9,320 ha), Fazenda Alouá (8,960 ha), Fazenda Cabreúva e Paz (326 ha)			
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Low	Bunge, Cargill, ALZ
Soy	Main exporters (municipality)	Bunge (43%), Cargill (41%), Amaggi (9%), others (7%)		
	Warehouses (50 km radius)	10 silos, including: 1 owned by ALZ, 1 by Bunge, 1 by Cargill		
	Supply chain links & details:	There was soy cultivated in the area in 2021		
Beef	Main traders (municipality)	JBS (100%)		
	Slaughterhouses (sourcing from the municipality)	13 slaughterhouses source cattle from Formosa do Rio Preto (BA). None of these are operated by JBS, Marfrig, or Minerva.		
	Supply chain links & details:	-		
Other supply chain links and details:		Linked to cotton		
General comments				
<p>The Okamoto family is linked to land conflict around the JJF case, and the property Fazenda Sacuri is inside the area of Fazenda São José (1). They are originally from Goierê (PR) where Vicente Mashahiro Okamoto was mayor for six mandates. He is also one of the founders of Coaceral, a cooperative of producers involved in the JJF case. JJF case is one of the largest land grabbing cases in Brazil (2). JJF Holding and Participações is owned by José Valter Dias, and together the company and the owner claim the ownership of 270,065 ha in a contiguous area in Formosa do Rio Preto (BA). In March 2019 the National Justice Council (CNJ) had suspended an official document that gives the property rights of 366,000 ha of lands in Bahia to José Valter Dias (3). Allegedly, farmers that live on these farms were forced to pay disproportionate taxes (80 sacks of soybean per hectare) to stay in the area. In a due hearing, members of the Agriculture Committee of Formosa do Rio Preto alleged that José Valter Dias had acquired his lands through illegal papers, extorting producers who were settled in the region for 30 years (4). In December 2018, this land tenure conflict case was the topic of a public hearing in the National Congress (5). There may be a possible connection to Bunge, Amaggi &amp; LD, and Cargill as these traders’ own silos that are located inside JJF/José Valter Dias properties. Apart from the land dispute between large-scale farmers, José Valter Dias operations has advanced over a conservation unit, the Estação Ecológica Serra Geral do Tocantins. In February 2019, a decision from Bahia’s Court of Justice granted Dias access to deforest 52,000 hectares of native vegetation inside the reserve, based on the argument that the Chico Mendes Institute for Biodiversity (ICMBio) didn’t followed the deadlines for dispossession of the farms he owns inside that area (6).</p>				
<p>(1) <a href="https://jornalgrandebahia.com.br/2020/11/capitulo-vii-do-caso-faroeste-os-okamoto-e-a-repeticao-do-modus-operandi-do-crime-de-grilagem-de-terras-no-oeste-da-bahia/">https://jornalgrandebahia.com.br/2020/11/capitulo-vii-do-caso-faroeste-os-okamoto-e-a-repeticao-do-modus-operandi-do-crime-de-grilagem-de-terras-no-oeste-da-bahia/</a></p> <p>(2) <a href="https://economia.estadao.com.br/noticias/geral.congresso-investiga-grilagem-na-bahia.70002636375">https://economia.estadao.com.br/noticias/geral.congresso-investiga-grilagem-na-bahia.70002636375</a></p> <p>(3) <a href="https://politica.estadao.com.br/noticias/geral.cni-anula-portaria-que-dava-366-mil-hectares-na-bahia-a-um-unico-homem.70002746890">https://politica.estadao.com.br/noticias/geral.cni-anula-portaria-que-dava-366-mil-hectares-na-bahia-a-um-unico-homem.70002746890</a></p> <p>(4) <a href="https://deolhonosruralistas.com.br/2017/04/13/juiz-determina-despejo-de-300-familias-para-criar-latifundio-gigante-na-bahia/">https://deolhonosruralistas.com.br/2017/04/13/juiz-determina-despejo-de-300-familias-para-criar-latifundio-gigante-na-bahia/</a></p> <p>(5) <a href="https://www.camara.leg.br/internet/ordemdodia/ordemDetalheReuniaoCom.asp?codReuniao=53989">https://www.camara.leg.br/internet/ordemdodia/ordemDetalheReuniaoCom.asp?codReuniao=53989</a></p> <p>(6) <a href="https://uc.socioambiental.org/en/noticia/197175">https://uc.socioambiental.org/en/noticia/197175</a></p>				

Property			
Fazenda Santo Antônio do Rio do Meio			
Correntina, Bahia		Cerrado biome	
CAR:	BA-2909307-7E842D6CB4A54F9B9CB3BA91A7BEE5D7	SIGEF/SNCI:	9502033451138
Area property (ha):	3,903	Coordinates property:	-45.25286, -13.32413
Cleared Area			
Coordinates clearance:	-13.34427, -45.25128		
2,643 hectares	period clearance: Jun 2022 to Dec 2022		
- fires alerts			
Inside Forest Code's protected areas:	Yes	58 ha inside declared Legal Reserve	
Type of vegetation:	Forested Savanna	Priority for Biodiversity Conservation:	Extremely high
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	
Imagery: limits of the property (blue) limits of the cleared area (red)			
June 2022		December 2022	
			
Source: Imagery ©2022 Planet Labs Inc.		Source: Imagery ©2022 Planet Labs Inc.	



Environmental fines and embargoes				
Embargoes:	No	-		
Environmental fines:	No	-		
Ownership and other linked properties				
Ownership:	Lorenei Arlindo Donatti			
Company group:	Donatti Comercial Agropecuária (Barreiras - BA)			
Linked properties:	1 linked property in Jaborandi/Coribe (BA): Fazenda Porto Cercado (9,279 ha)			
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		No	Low	ADM, Bunge
Soy	Main exporters (municipality)	ADM (23%), Mitsui (21%), Amaggi (18%), Bunge (12%), others (26%)		
	Warehouses (50 km radius)	18 silos, including: 1 owned by SLC Agrícola		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	JBS (100%)		
	Slaughterhouses (sourcing from the municipality)	26 slaughterhouses source cattle from Correntina (BA), e.g.: 1 owned by JBS (Itapetinga - BA)		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
In 2019, the linked property Porto Cercado (Jaborandi - BA), received an authorization from the Bahia Environmental Agency (INEMA) to get 216 thousand cubic meters of water per day from Correntina river for irrigation purposes (an extraordinary high number for a unique property) (1). Correntina is the centre of a conflict for water resources (2).				
(1) Inema - Bahia				
(2) <a href="https://mapadeconflitos.ensp.fiocruz.br/conflito/ba-comunidades-tradicionais-de-correntina-lutam-por-direito-a-agua-e-sobrevivencia/">https://mapadeconflitos.ensp.fiocruz.br/conflito/ba-comunidades-tradicionais-de-correntina-lutam-por-direito-a-agua-e-sobrevivencia/</a>				

Property			
Fazenda Santa Tereza III			
Correntina, Bahia		Cerrado biome	
CAR:	BA-2909307-044B974131FE4EBC92F062A252C9F0EC	SIGEF/SNCI: 9500410749691	
Area property (ha):		3,098	Coordinates property: -44.96689, -13.36151
Cleared Area			
Coordinates clearance:		-13.35028, -44.97289	
2,206 Hectares		period clearance: Sep 2022 to Jan 2023	
- 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)			
September 2022		January 2023	
			
Source: Imagery ©2022 Planet Labs Inc.		Source: Imagery ©2023 Planet Labs Inc.	

Environmental fines and embargoes				
Embargoes:		No	-	
Environmental fines:		No	-	-
Ownership and other linked properties				
Ownership:		Ramon José do Amaral		
Company group:		No linked company found		
Linked properties:		No linked properties found		
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		No	Low	ADM, Bunge
Soy	Main exporters (municipality)	ADM (23%), Mitsui (21%), Amaggi (18%), Bunge (12%), others (26%)		
	Warehouses (50 km radius)	12 silos, including 1 owned by Agrícola Xingu		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	JBS (100%)		
	Slaughterhouses (sourcing from the municipality)	26 slaughterhouses source cattle from Correntina (BA), e.g.: 1 owned by JBS (Itapetinga - BA)		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
The area of Fazenda Santa Tereza III is part of a land dispute since 2013. A local community of "vaqueiros" is demanding their land rights over the historically occupied area by them known as Vereda da Felicidade (1).				
(1) <a href="https://deolhonosruralistas.com.br/2021/02/24/violencia-no-oeste-da-bahia-tem-assinatura-de-fundos-paulistas-de-investimentos/">https://deolhonosruralistas.com.br/2021/02/24/violencia-no-oeste-da-bahia-tem-assinatura-de-fundos-paulistas-de-investimentos/</a>				



Deforestation and fire alerts data are the starting point of the analysis for each of the case studies. After confirming the clearance of native vegetation through satellite imagery, each of the case is then analysed 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 making use of publicly available data.

### Deforestation & Fire

We processed deforestation alert data from the INPE/Deter program for both biomes, Amazon and Cerrado. An alternative source is the Global Forest Watch (GLAD alerts) and the Mapbiomas Alertas platforms. The fire alerts are checked in the NASA/Firms platform and processed using 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 ownership. The landownership registration on local notary offices is not checked and might be different than 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 important to highlight that CAR is not recognized as official ownership data.

### Brazilian Forest Code protected areas

*Legal Reserves* and *Permanent Preservation Areas (APP)* are defined by the Brazilian Forest Code 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, 20% other areas], and *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 management the Officially recognized Natural Reserves according to the National System of Natural Reserves (SNUC – Sistema Nacional de Unidades de Conservação). The SNUC determines 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 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 form IBAMA, the Federal Environment Agency. Embargoes are areas where any kind of 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 having addressed the problem. Environmental fines are usually linked to regulation infractions and are addressed to the owner of the property.

### Company Group and linked properties

Once the ownership of the property is clearly linked to an individual, we use the SINTEGRA database to check all the registered companies under this individual or group of individuals names. If the ownership is already registered by a company, we also check the corporate structure of the company through open sources 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: 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: trader is the main 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 direct trading relationship between the property and beef processors; Medium: animal transportation data (GTA) confirm indirect trading relationship between the property and beef processors; Low: beef processor is the main meat exporter in the municipality (Trase platform), or beef processors have assets (slaughterhouse) within a radius of 50 km from the property.

### Main exporters (municipality), warehouses and slaughterhouses

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

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