

May 2023

Realtime Deforestation 12

Monitoring System



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

Updated
in
October 2023



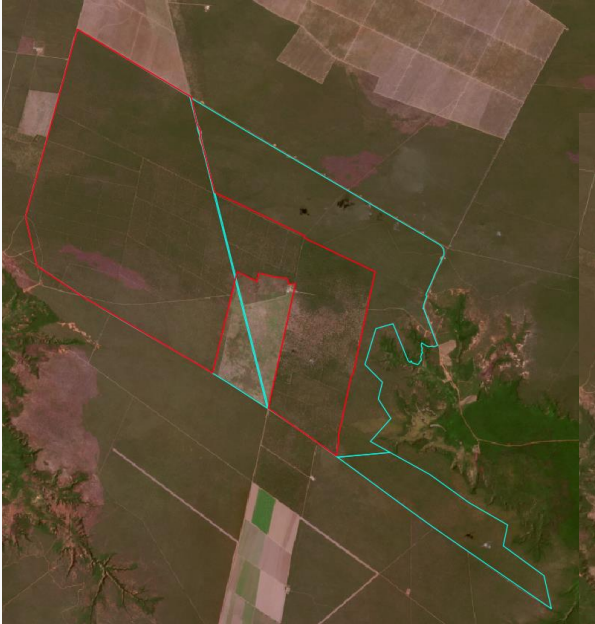
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Aidenvironment develops **Realtime Deforestation Monitoring (RDM)** reports to engage companies and urge action towards real-time deforestation events, as well as to support civil society and financial sector stakeholders in their efforts to halt deforestation 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 12 report of May 2023 highlights 10 cases mainly linked to the soy supply chain in the Cerrado biome. **The 10 cases present 28,432 hectares of deforestation and 56 fire alerts in Bahia and Piauí states.** The cases are all in the **Cerrado biome** and cover deforestation alerts detected in March and April 2023, with visually confirmed deforestation events between July 2022 and April 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.

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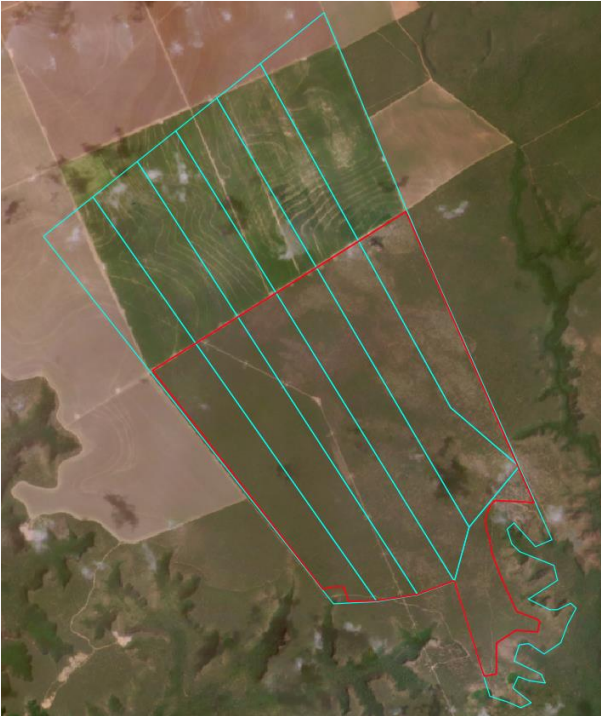
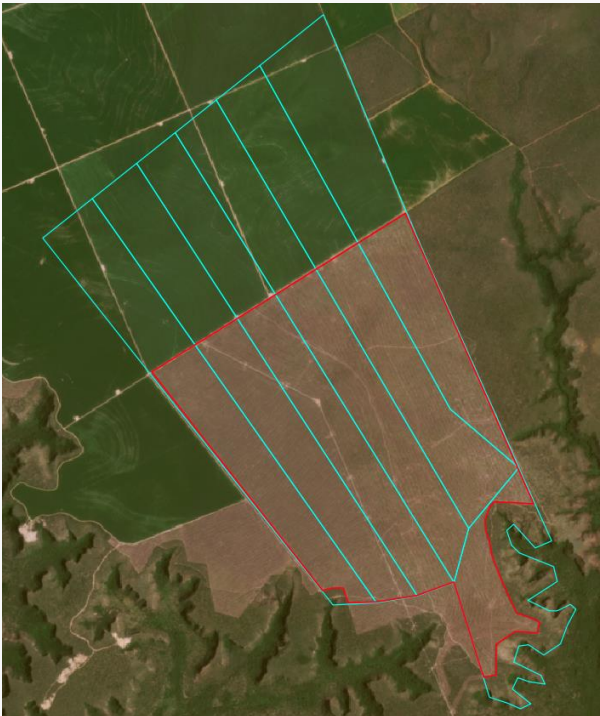
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Property	
Fazenda Faveira	
Sebastião Leal, Piauí	Cerrado biome
CAR: PI-2210631-1D7A6338FF63468EAD61B550AEE5A1E1	SIGEF/SNCI: 9501144687703
Area property (ha): 11,820	Coordinates property: -8.20966, -44.30272
Cleared Area	
Coordinates clearance:	-8.20966, -44.30272
7,354 Hectares	period clearance: Nov 2022 to Jan 2023
367,528 tons of CO ₂	
13 fires alerts	
Inside Forest Code's protected areas: No	- -
Type of vegetation: Wooded Savanna	Priority for Biodiversity Conservation: No
Conservation area(s) (overlapping or bordering): -	
Indigenous Territories (overlapping or bordering): -	
Imagery: limits of the property (blue), limits of the cleared area (red)	
November 2022	
 Source: Imagery ©2022 Planet Labs Inc.	
January 2023	
 Source: Imagery ©2023 Planet Labs Inc.	

Environmental fines and embargoes				
Embargoes:	No	-		
Environmental fines:	No	-		
Ownership and other linked properties				
Ownership:	GBE Fazendas			
Company group:	GBE Fazendas (Sebastião Leal- PI) is registered as a real state agency by Augusto Barros de Macedo, Rodrigo Ruviaro, and FWA Mundo Novo. Linked companies are: FWA Industria de Alimentos (poultry) (Cuiabá - MT), Campo Verde Alimentos (meat) (Campo Verde - MT), VT Logística e Transporte (Lucas do Rio Verde - MT), FWA Empreendimentos e Participações (Real State) (Cuiabá - MT), and FWA São Vicente Energia (Lucas do Rio Verde - MT)			
Linked properties:	In Sebastião Leal (PI): Fazenda Mundo Novo (11,000 ha)			
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		No	Low	Bunge, ALZ Grãos
Soy	Main exporter groups (municipality)	Bunge (32%) and CHS (68%)		
	Warehouses (50 km radius)	18 warehouses including: 1 owned by Bunge and 1 by ALZ Grãos		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	-		
	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
In August 2021, GBE Fazendas requested authorization for the clearance of native vegetation in Sebastião Leal (PI) (1). We could not find detailed info about this authorization or if it is linked to Fazenda Faveira. GBE Fazendas was established in 2008 and is linked to a scandal involving Harvard University's endowment fund and a series of social and environmental impacts in Piauí, reported by Chain Reaction Research (2), Grain (3), and Rede Social de Justiça e Direitos Humanos (4). GBE is linked to Gordian Bioenergy, a private equity investment company managed by Diomes Christodoulou. In 2007, Christodoulou was linked to North American and European investors through a USD 150 million sugarcane plantation and ethanol refining project GBE planned to implement in Brazil. Together with Terracal, GBE purchased more than 30 properties in 5 states in Brazil especially linked to the Harvard endowment fund totaling 168,000 hectares. Between June 2008 and June 2015, Harvard transferred more than USD 246 million to GBE for farmland acquisition in Brazil. After the scandal, another company linked to Harvard, InSolo, was bought by Ricardo in November 2021, who, with this acquisition, established Terrus S.A. becoming Brazil's 5th largest grain producer in terms of planted area (5).				
(1) https://www.jusbrasil.com.br/diarios/1142473611/doespi-19-08-2021-pg-73 (2) https://chainreactionresearch.com/report/foreign-farmland-investors-in-brazil-linked-to-423000-hectares-of-deforestation/ (3) https://grain.org/en/article/6006-harvard-s-billion-dollar-farmland-fiasco (4) https://www.social.org.br/files/pdf/EN_FINAL_PDF_Harvard.pdf (5) https://exame.com/agro/apos-comprar-insolo-por-r-18-bi-ricardo-faria-e-maior-emergente-agro/				

Property	
Fazenda Planalto e Outras	
Sebastião Leal, Piauí	Cerrado biome
CAR: PI-2210631-9EA828E635A642F88F51B4FD60A9E923	SIGEF/SNCI: 1260200037001
Area property (ha): 31,090	Coordinates property: -8.01795, -44.23139
Cleared Area	
Coordinates clearance:	-44.27193, -8.08354
4,071 hectares	period clearance: Dec 2022 to Feb 2023
203,455 tons of CO ₂	
10 fires alerts	
Inside Forest Code's protected areas: No	- -
Type of vegetation: Wooded Savanna	Priority for Biodiversity Conservation: Very high
Conservation area(s) (overlapping or bordering):	-
Indigenous Territories (overlapping or bordering):	-
Imagery: limits of the property (blue), limits of the cleared area (red)	
December 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:		Terrus / Serra Dourada		
Company group:		Terrus S.A. (registered in Baixa Grande do Ribeiro, Santa Filomena, and Sebastião Leal - PI, Barueri - SP, and Balsas - MA) is a large agribusiness company focused on grain and grain seeds (soy, maize, rice, cotton, beans). Its owners are Ricardo Castellar de Faria, Nilvo Mittanck, Alexandre Chueri Neto, Emilio Bruno Bastos, and Manoel Ismelon Almeida Moreira. Terrus S.A. is currently linked to 14 other companies		
Linked properties:		Linked properties totaling more than 120,000 há		
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Low	Bunge, ALZ Grãos
Soy	Main exporter groups (municipality)	Bunge (32%) and CHS (68%)		
	Warehouses (50 km radius)	24 warehouses including: 1 owned by ALZ Grãos and 1 by Bunge		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	-		
	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
Serra Dourada is a rural venture comprised of several properties (Fazenda Jerimum, Fazenda Picos, Fazenda Planalto, and Fazenda Santa Maria) in Sebastião Leal (PI), which main activity is grain production (soy, rice, maize, cotton, and beans) (1). In August 2021, the company requested the expansion of the grain cultivation area and the reallocation of the legal reserve of the property complex (2). Ricardo Castellar Faria, the owner of Terrus S.A., bought the agribusiness company InSolo in November 2021, becoming Brazil's 5th largest grain producer in terms of planted area (3). As reported in RDM 4 (4), InSolo was at the center of a scandal involving Harvard University's endowment fund and a series of social and environmental impacts in Piauí, reported by Chain Reaction Research (5), Grain (6), and Rede Social de Justiça e Direitos Humanos (7). Granja Faria, one of the other large companies owned by Ricardo Faria, has also been linked to violations of workers' rights and disregard for animal welfare, as reported by o Joio e o Trigo (8). When Elon Musk visited Brazil in 2022 and got together with Bolsonaro and a selected group of Brazilian businessmen, the meeting took place in Faria's mansion in Porto Feliz (SP) (9).				
(1) https://siga.semar.pi.gov.br/media/uploads/2021/09/22/8d127e3c-0438-4bc8-90db-fae511711bf4.pdf (2) https://sei.pi.gov.br/sei/modulos/pesquisa/md_pesq_documento_consulta_externa.php?bQdXWlUhg46-kuNuYYlAsvjFfu3aG4dBu2PjbFgpOb_9MvqFNtXlXEMWSYTBrlf7zOg5p97pRY7Jz5GltK4e8ZHTIGn5F5NKcTzQ2MKlrcRnsLztdlB6p5vWNmfJ_8rf (3) https://exame.com/agro/apos-comprar-insolo-por-r-18-bi-ricardo-faria-e-maior-emergente-agro/ (4) https://bit.ly/rdm4-august-2022-updated (5) https://chainreactionresearch.com/report/foreign-farmland-investors-in-brazil-linked-to-423000-hectares-of-deforestation/ (6) https://grain.org/en/article/6006-harvard-s-billion-dollar-farmland-fiasco (7) https://www.social.org.br/files/pdf/EN_FINAL_PDF_Harvard.pdf (8) https://oioioeotrigo.com.br/2020/06/quando-a-embalagem-esconde-a-realidade-choques-maus-tratos-e-fraudes-na-vida-das-galinhas-livres-de-gaiola/ (9) https://politicalivre.com.br/2022/05/bolsonaro-ouve-sertanejo-em-mansao-de-r-75-milhoes-apos-reuniao-com-musk/#gsc.tab=0				

Property	
Serra das Guaribas - Lote 17	
Santa Filomena, Piauí	Cerradobiome
CAR: PI-2209203-AA4939D6FF294DCBB9A581FA3DAD002B	SIGEF/SNCI: 9500921621324, 9500921621081
Area property (ha): 2,378	Coordinates property: -9.40540, -45.55360
Cleared Area	
Coordinates clearance:	-44.54511, -9.41542
1,297 Hectares	period clearance: Dec 2022 to Feb 2023
64,820 tons of CO ₂	
- fires alerts	
Inside Forest Code's protected areas: Yes	1,297 ha inside declared Legal Reserve
Type of vegetation: Wooded Savanna	Priority for Biodiversity Conservation: Very high
Conservation area(s) (overlapping or bordering):	-
Indigenous Territories (overlapping or bordering):	-
Imagery: limits of the property (blue), limits of the cleared area (red)	
December 2022	February 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:	Nazaré Agroindustrial			
Company group:	Nazaré Agroindustrial is linked to Vista Verde Agroindustrial (active in soy farming in Palmeira do Piauí - PI). Flávio Shuiti Inoue and João Antônio Beltrame Filho are the owners of Nazaré Agroindustrial. Through them, Nazaré Agroindustrial is linked to 6 other companies: I9 Consultoria de Serviços (Videira - SC); Vista Verde Agroindustrial (active in soy farming in Palmeira do Piauí - PI); Agro Empreendimentos e Participações (São Paulo - SP); Alba Consultoria Agroindustrial (São Paulo - SP); Magnólia Investimentos e Participações Agrícolas (Barueri - SP); and Kangaroo Agro Consultoria Agroindustrial (São Paulo - SP)			
Linked properties:	2 other properties, totaling 15,790 ha. Santa Filomena (PI): Fazenda Nazaré (1,260 ha). In Palmeiras do Piauí (PI): Fazenda Vista Verde (14,530 ha)			
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Low	Bunge
Soy	Main exporter groups (municipality)	Bunge (57%), ADM (15%), Cargill (3%), Amaggi (4%), LDC (2%), Cofco (1%), others (18%)		
	Warehouses (50 km radius)	22 warehouses including 1 owned by Bunge		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	-		
	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
Flávio Shuiti Inoue was part of Sollus Capital from 2008 until 2013, an investment company specialized in lands with agricultural potential for grains which covered four south american countries (Argentina, Brazil, Paraguay, and Uruguay) (1). Between 2002 and 2007, he was also involved in the development and launch of Naturalle, a company active in soy exports (2). Flávio was also a shareholder of Ipê Agroindustrial and InSolo Agroindustrial, both active in soy farming and involved in scandals related to socioenvironmental impacts (3). InSolo was sold in November 2021 to Ricardo Castellar Faria, the owner of Terrus (linked to Case 2 of the present RDM report). The Serra das Guaribas - Lote 17 farm is part of a list, published in February 2022, of properties that are having their land tenure registration documents reviewed by the Piauí Land Institute (4).				
(1) http://www.solluscapital.com.br/Portugues/equipe.html (2) https://www.adealg.org.br/blog/agrodestaque-entrevista-flavio-shuiti-inoue-engenheiro-agronomo-f-1990-1103 (3) https://www.consultasocio.com/q/sa/flavio-shuiti-inoue?page=1 (4) https://sei.pi.gov.br/sei/modulos/pesquisa/md_pesq_documento_consulta_externa.php?bQdXWlUhg46-kuNuYYlAsyJFfu3aG4dBu2PjbFgpOb_9MvqFNtXlXEMWSYtBr1f7zOg5p97pRY7Jz5GltK4e8f-FypbjJjxHP4T49s00ATNVi4Y3vv8Mv-fCqrOfIKz8				

Property			
Fazenda Furquilha I and II, Fazenda São Pedro			
São Desidério, Bahia		Cerrado biome	
CAR: BA-2928901-15EC67AF11024D80BF79623922F12C7E, BA-2928901-CC8E7902F7B3460A982901E421E1255F, BA-2928901-358F555D2B36411BBF5929CFF401288A		3011160113475, SIGEF/SNCI: 9999897918307, 9999897917920	
Area property (ha): 23,556		Coordinates property: -13.01173, -45.19924	
Cleared Area			
Coordinates clearance:		-45.16591, -12.98360	
5,153 hectares		period clearance: Nov 2022 to Mar 2023	
662,435 tons of CO2			
- 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)			
November 2022			
			
Source: Imagery ©2022 Planet Labs Inc.			
March 2023			
			
Source: Imagery ©2023 Planet Labs Inc.			

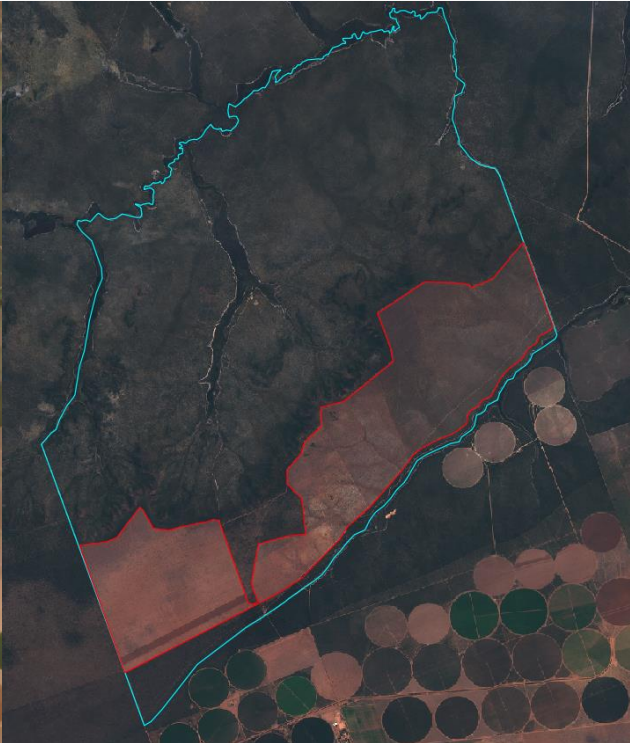
Environmental fines and embargoes				
Embargoes:	No	-		
Environmental fines:	No	-		-
Ownership and other linked properties				
Ownership:	Roberta Brennand de Souza Leão Bezerra, João Felipe Brennand de Souza Leão, Joaquim Felipe Brennand de Souza Leão			
Company group:	Crescent Holding Participações			
Linked properties:	9 other properties, totaling 68,000 ha. In São Desidério (BA): Fazenda Jatobá (3,310 ha), Fazenda Semear (5,480 ha), Fazenda São José (4,260 ha), Fazenda Gaya (2,030 ha), Fazenda Chapadão VIII (2,500 ha), Fazenda Ceres (4,200 ha), Barra e São Domingos (12,650 ha), Fazenda Borda da Mata (31,000 ha). In Cotigipe (BA): Fazenda Campo Largo do Rio Grande (2,570 ha)			
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		No	Low	ADM, Cargill
Companies' reply	Cargill: "Out of the 10 cases mentioned in the report, we have had recent negotiations with 3 of the farms mentioned, and in another case with the farmer/ group in a different farm. In all these cases, we have evidence of the legality of the clearance - that is currently aligned with our Soy Policy".			
Soy	Main exporter groups (municipality)	ADM (24%), Cargill (18%), LDC (8%), Bunge (6%), Amaggi (2%), Cofco (1%), others (41%)		
	Warehouses (50 km radius)	21 warehouses including 2 owned by Agrícola Xingu		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	-		
	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
The property has valid authorization for the clearance of native vegetation. In April 2022, Joaquim Brennand Souza Leão had authorization for the suppression of 3,300 ha of native vegetation at Fazenda São Pedro granted for two years (1). In a lawsuit related to compulsory contribution payments to CNA (National Council of Agriculture), the Brennand de Souza Leão family claimed that at least from 2015 to 2017, no agricultural activities were being developed in the linked property Fazenda Borda da Mata (São Desidério - BA) (2). In January 2020, the family presented an Environmental Impact study to INEMA indicating a plan to implement soy, corn, and beans plantations in Fazenda Borda da Mata (São Desidério - BA). The timber extracted during the clearing of the area, according to official documents presented by the family to the environmental authorities, would be used internally. The property received authorization for the deforestation of 1,400 hectares in Fazenda Borda da Mata from April 2020 to April 2022 (3). One of the family members, Roberto de Souza Leão Filho, was prosecuted for the assassination of the farmer Brasilino Dias Ramos, linked to the dispute over ownership of Fazenda Natália (4). The father of Roberto was the leading financier in the state of Pernambuco of the "Comando de Caça aos Comunistas" (CCC), a paramilitary organization that kidnapped political dissidents during the military dictatorship in Brazil. The Truth Commission pointed out Roberto de Souza Leão as the man behind the assassination of the catholic priest Padre Henrique (5). Brennand Souza Leão family is still active in politics in Pernambuco state. A linked case, Fazenda Borda da Mata (São Desidério - BA), was part of the Rapid Response Report 14 (June 2020). Bunge, Cargill, and Cofco claimed no trading links with this linked property (6).				
(1) Inema Bahia database				
(2) https://www.jusbrasil.com.br/diarios/231331870/trt-6-judiciario-07-03-2019-pg-4847?ref=serp				
(3) https://www.aatr.org.br/post/bahia-j%C3%A1-autorizou-o-desmatamento-de-34-307-712-ha-durante-a-pandemia				
(4) https://www1.folha.uol.com.br/fsp/cotidian/ff2111200329.htm				
(5) https://blogs.ne10.uol.com.br/jamildo/2012/09/20/major-ferreira-confirma-que-empresarios-pernambucanos-financiavam-assassinatos-de-comunistas/				
(6) https://www.mightyearth.org/wp-content/uploads/RR_Report_June_2020.pdf#new_tab				

Property			
Fazenda São José (Fazenda Potillo I)			
São Desidério, Bahia		Cerrado biome	
CAR:	BA-2928901-E09BAFFEDBE74B288B04AC042B97270B, BA-2928901-E48B435A5E66417DBA79AEE04B54C3DC, BA-2928901-53CB7B1A5C5548E4BA4D3029752539E3	SIGEF/SNCI: 9500333845003	
Area property (ha):		12,397	Coordinates property: -13.02720, 45.05814
Cleared Area			
Coordinates clearance:		-45.03415, -13.00296	
1,785 hectares		period clearance: Oct 2022 to Jan 2023	
229,468 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) October 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:		Cláudia Talan Marin		
Company group:		Cláudia Talan Marin is linked to Vale do Segredo Gestão de Patrimônio (active in real estate in Porto Seguro - BA).		
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	Low	ADM, Cargill
Companies' reply	Cargill: "Out of the 10 cases mentioned in the report, we have had recent negotiations with 3 of the farms mentioned, and in another case with the farmer/ group in a different farm. In all these cases, we have evidence of the legality of the clearance - that is currently aligned with our Soy Policy".			
Soy	Main exporter groups (municipality)	ADM (24%), Cargill (18%), LDC (8%), Bunge (6%), Amaggi (2%), Cofco (1%), others (41%)		
	Warehouses (50 km radius)	9 warehouses including 1 owned by Agrícola Xingu		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	-		
	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
Cláudia Talan Marin and her husband, Hiladio Ivo Marchetti, have been linked to the Lava Jato corruption case through a company registered under Hiladio's name (Iberbras Integração de Negócios) and a property in Condomínio Vale do Segredo Gestão de Patrimônio Eireli (Trancoso - BA) owned by Cláudia. Cláudia and Hiladio are also the daughter and son-in-law of Gregório Marin Preciado and Vicencia Talan Marin, who was linked to Senator José Serra (involved in Lava Jato) through properties and companies, as well as family relationships (Vicencia is a cousin of José Serra) (1).				
(1) https://www.redebrasilatual.com.br/blogs/denuncia-contr-cunha-liga-lava-jato-a-privataria-tucana-5200/				

Property			
Fazenda Agropastoril Vegrisa			
São Desidério, Bahia		Cerrado	biome
CAR:	BA-2928901-40AB040C7E334630850DE6B005F6FB17	SIGEF/SNCI:	3011160332606
Area property (ha):	2,784	Coordinates property:	-13.08878, -45.19481
Cleared Area			
Coordinates clearance:	-45.19476, -13.08178		
1,356 Hectares	period clearance: Jan to Mar 2023		
174,318 tons of CO2			
- 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)			
October 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:		Vegrisa Vale do Guar Agropastoril		
Company group:		the owners of Vegrisa Vale do Guar Agropastoril are Antnio Jos Guadagnin and Nomia Marlene Guadagnin. There are 9 other companies linked to them: Associao Baiana dos Produtores de Sementes e Muds (Barreiras - BA); Grevilha Empreendimentos Imobilirios (Luis Eduardo Magalhes - BA); Deltaville Urbanismo e Empreendimentos (Barreiras - BA); Alvorada Empreendimentos Imobilirios (Balsas - MA); Novo Progresso Servio de Consultoria Empresarial (Marab - PA); Deltaville Spe 08 Empreendimentos Imobilirios (Formosa - GO); Security Wall Servios de Pagamentos (Braslia - DF); Cacau Gold (active in cocoa farming in Ilhus - BA); and Meridional Agrcola (active in wholesale trading in Barreiras - BA)		
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		Yes	Low	ADM, Cargill
Companies' reply	Cargill: "Out of the 10 cases mentioned in the report, we have had recent negotiations with 3 of the farms mentioned, and in another case with the farmer/ group in a different farm. In all these cases, we have evidence of the legality of the clearance - that is currently aligned with our Soy Policy".			
Soy	Main exporter groups (municipality)	ADM (24%), Cargill (18%), LDC (8%), Bunge (6%), Amaggi (2%), Cofco (1%), others (41%)		
	Warehouses (50 km radius)	18 warehouses including 1 owned by Agrcola Xingu		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	-		
	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
The property has valid authorization for the clearance of native vegetation. Fazenda Agropastorial Vegrisa received authorization for deforestation of 1,360 hectares issued by Bahia State in December 2022, valid until December 2024 (1). Antnio Jos Guadagnin is part of the list of Bahia's soy, corn, and coffee producers who have benefited from resources from the Program for the Development of Agriculture and Livestock (Prodeagro) in the state (2).				
(1) Inema Bahia database				
(2) http://www.seagri.ba.gov.br/sites/default/files/Rela%C3%A7%C3%A3o%20de%20Produtores%20Prodeagro.pdf				

Property	
Fazenda Canguçu - Área 6 e Outras	
Cocos, Bahia	Cerrado biome
CAR: BA-2908101-1282DFABFE3040608362EFEFC8382D38, BA-2908101-22EE3640A4A240069512F06D189B34F2, BA-2908101-329B80D641454A1F8C684E81709301A9	SIGEF/SNCI: 9501813119368
Area property (ha): 16,371	Coordinates property: -14.54625, -45.24900
Cleared Area	
Coordinates clearance:	-45.28081, -14.61012
4,130 Hectares	period clearance: Dec 2022 to Apr 2023
530,925 tons of CO ₂	
- 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)	
December 2022	April 2023
	
Source: Imagery ©2022 Planet Labs Inc.	Source: European Union - EO Browser Copernicus Sentinel data 2023

Environmental fines and embargoes				
Embargoes:	No	-		
Environmental fines:	Yes	4 environmental fines: 3 in 2011 for the deforestation of a total of 3,300 hectares of native vegetation in the Cerrado at an unknown property, and 1 in 2005 for deforestation without authorization at an unknown property, both in Cocos-BA	BRL 3,320,000	
Ownership and other linked properties				
Ownership:	Canguçu Empreendimentos Agrícolas			
Company group:	Canguçu Empreendimentos Agrícolas is registered as a soy, corn, and bean-producing company owned by Andrea Botelho Prado, Leandro Zago, Santa Colomba Agropecuária, and SC Investimentos Agrícolas (São Paulo - SP). Other linked companies are: Caraibas Empreendimentos Agrícolas, bean producer (Cocos - BA), Primavera Empreendimentos Agrícolas, soy producer (Cocos - BA), Lagoa Empreendimentos Agrícolas, soy producer (Cocos - BA), Veredinha Empreendimentos Agrícolas, soy producer (Cocos - BA), Sumidouro Empreendimentos Agrícolas, soy producer (Cocos - BA), Santa Colomba Cafés, coffee producer (São Paulo - SP and Cocos - BA), Cingrepe Cia Industrial de Agricultura e Pecuária, bean producer (Cocos - BA), Associação Maria da Glória Pró-Cerrado (São Paulo - SP and Mambai - GO), and Kendon Real Estate (Rio de Janeiro - RJ)			
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	Low	-
Soy	Main exporter groups (municipality)	No data		
	Warehouses (50 km radius)	2 warehouses owned by individuals		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	-		
	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
The property has valid authorization for the clearance of native vegetation. The property is linked to Santa Colomba Cafés, a coffee, cotton, cocoa, and soy-producing company certified by UTZ (since 2006) and Rainforest Alliance (since 2007) (1). A linked company, Kendon Real Estate, is mentioned in the Panamá Papers data (2) but has been inactive since 2020 (3). In 2021, Santa Colomba Cafés obtained authorization for the deforestation of an area of 4,900 hectares in the farms Fazendas Rio do Meio 01, Rio do Meio 03, Canguçu 04, and Canguçu 05, valid for four years (4).				
(1) http://santacolomba.com.br/negocios (2) https://offshoreleaks.icij.org/nodes/10006722 (3) https://opencorporates.com/companies/us_nv/E0191202009-7 (4) Inema Bahia database				

Property			
Fazenda Pouco Tempo			
Cocos, Bahia		Cerrado biome	
CAR:	BA-2908101-289B6EDAFBB341D4A901C9BD78F5EF1E	SIGEF/SNCI:	3020230206564
Area property (ha):	43,000	Coordinates property:	-14.80308, -45.94637
Cleared Area			
Coordinates clearance:	-45.91438, -14.77839		
1,410 hectares	period clearance: Dec 2022 to Mar 2023		
181,260 tons of CO2			
- 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)			
December 2022			
		March 2023	
Source: Imagery ©2022 Planet Labs Inc.			
		Source: Imagery ©2023 Planet Labs Inc.	

Environmental fines and embargoes				
Embargoes: No -				
Environmental fines:	Yes	1 environmental fine in 2020 in an unknown property in Cocos (BA) for cultivating 342 hectares of genetic modified soy without authorization	BRL 121,500	
Ownership and other linked properties				
Ownership:		Fazenda Pouco Tempo		
Company group:		Agropecuária e Florestal Triângulo is registered as a cattle producer and "support" company in Cocos (BA), Uberaba (MG), and Caarapó (MS) under the ownership of Masa Rejane Galdino Reis Palmerio and Eduardo Marquez Palmerio. Other linked companies are: Agropecuária 2P (Uberaba - MG), Agropecuária Trijunção (Uberaba - MG), and NZ Brasil Business Agrícola e Pecuária (Uberaba - MG)		
Linked properties:		4 other linked properties, totaling 13,485 ha. In cocos (BA): Fazenda Samambaia (1,350 ha), Fazenda Lagoa do Casamento (9,950 ha), Fazenda Jatobá (1,565 ha), Fazenda Belaza (620 ha)		
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Low	-
Soy	Main exporter groups (municipality)	No data		
	Warehouses (50 km radius)	2 warehouses owned by individuals		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	-		
	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
The property has valid authorization for the clearance of native vegetation. In November 2022, Fazenda Pouco Tempo received authorization (in the name of José Fava Neto) for the vegetal suppression of 3,300 hectares, valid for three years, issued by the Bahia state government (1). Eduardo Marquez Palmerio, one of the owners of Agropecuária Triângulo, is among the list of cattle ranchers authorized to export fresh beef to the European Union through the property Fazenda Santa Elisa (Terenos - MS) (2)				
(1) Inema Bahia database (2) https://www.gov.br/agricultura/pt-br/assuntos/sanidade-animal-e-vegetal/saude-animal/cgccq/dpc/lista-traces				

Property			
Fazenda Novos Tempos			
Barreiras, Bahia		Cerrado biome	
CAR: BA-2903201-15895D8A5ADB4CC4ABE2AD394BCA7416		SIGEF/SNCI: 3230120086991	
Area property (ha): 4,206		Coordinates property: -12.33412, -45.30608	
Cleared Area			
Coordinates clearance:		-45.31553, -12.33484	
939 Hectares		period clearance: Nov 2022 to Mar 2023	
18,523 tons of CO ₂			
- 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):		-	
Imagery: limits of the property (blue), limits of the cleared area (red)			
November 2022			
		March 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:		Nelson Astor Pooter		
Company group:		Dimaba - Distribuidora de Máquinas Bahia (Barreiras - BA)		
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		Yes	Low	Cargill, Bunge
Companies' reply	Cargill: "Out of the 10 cases mentioned in the report, we have had recent negotiations with 3 of the farms mentioned, and in another case with the farmer/ group in a different farm. In all these cases, we have evidence of the legality of the clearance - that is currently aligned with our Soy Policy".			
Soy	Main exporter groups (municipality)	Bunge (37%), Cargill (2%), ADM (0.5%), Amaggi (0.5%), others (60%)		
	Warehouses (50 km radius)	49 warehouses including 4 owned by Cargill		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	-		
	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
The property has valid authorization for the clearance of native vegetation. Nelson Astor Pooter is part of the Brazilian "dirty list" of slave work, which was found to exist in Fazenda Novos Tempos I (São Desidério - BA) and involved 10 workers in such conditions (1). In April 2022, Nelson Astor Pooter obtained authorization for vegetal suppression of 1,425 hectares at Fazenda Novos Tempos I, valid for two years, issued by the government of Bahia (2).				
(1) https://reporterbrasil.org.br/wp-content/uploads/2017/03/Lista-de-Transpar%C3%A2ncia-dez2014-2016.pdf (2) Inema Bahia database				

Property			
Fazenda Tapera Grande			
Correntina, Bahia		Cerrado biome	
CAR:	BA-2909307-EE12C01D9D914985A8B5B4FD727917B5 BA-2909307-EBD8C15AEA64438884E3A56A6480B7C8		SIGEF/SNCI: 3020400604535
Area property (ha):		5,589	Coordinates property: -13.76711, -45.81689
Cleared Area			
Coordinates clearance:		-45.82041, -13.75972	
937 hectares		period clearance: Jul 2022 to Jan 2023	
120,454 tons of CO2			
33 fires alerts			
Inside Forest Code's protected areas: Yes		60 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)			
July 2022		January 2023	
			
Source: Imagery ©2022 Planet Labs Inc.		Source: Imagery ©2023 Planet Labs Inc.	

Environmental fines and embargoes				
Embargoes:	Yes	There are four already suspended environmental embargoes linked to Fazenda Tapera Grande. In 2006, one embargo (suspended in 2018) of 1,130 ha. In 2008, 2 embargoes, with a total of 1,090 ha: one embargo of 593 ha and one embargo (suspended in 2018) of 497 ha. In 2009, one embargo (suspended in 2014) of 320 ha in Fazenda Tapera Grande (Correntina - BA)		
Environmental fines:	Yes	13 fines linked to Ireneu Orth and/or Afonso Orth. 11 out of the 13 fines are associated with Fazenda Tapera Grande (Correntina - BA). The reasons for the fines are either unauthorized deforestation of native vegetation, prevention of regeneration of native vegetation or infringement of imposed embargoes. One of the fines is linked to Ireneu Orth and a property in Água Santa - RS.	BRL 1,882,770	
Ownership and other linked properties				
Ownership:	Ireneu Orth			
Company group:	Fazenda Tapera Grande is linked to a company under the same name (Fazenda Tapera Grande) with several economic activities registered, including cattle, maize, soy, cotton, and timber (eucalyptus) production, as well as the production of animal feed. Other linked companies are: Transorth Transportes Orth (a cargo transport company with branches in Tapera - RS and Correntina - BA), Instituto Profissionalizante Conego Bento (Tapera - RS), Cooperativa dos Produtores Rurais de Rosário - Coopar (wholesale trader of cotton in Correntina - BA), Champignon Sul Agroindustrial (horticulture activities in Tupancireta - RS), and Buritis Agroindustrial (soy farming in Correntina - BA)			
Linked properties:	The "Orth" family owns 6 bordering farms all named Tapera Grande and totaling 13,248 ha, being: Vera Lucia Orth - 1 property (1,239 ha), Irineu Orth - 1 property (5,713 ha), Afonso Orth - 1 property (3,229 ha), Irineu Orth and Afonso Orth - 1 property (1,246 ha), Douglas Orth, Daniel Orth and Aline Orth - 1 property (1,241 ha), and Aline Orth - 1 property (580 ha). Ireneu Orth also owns 1,250 ha in Aripuana (Mato Grosso)			
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	High / Low	Cargill / Bunge, ALZ
Companies' reply	Cargill: "Out of the 10 cases mentioned in the report, we have had recent negotiations with 3 of the farms mentioned, and in another case with the farmer/ group in a different farm. In all these cases, we have evidence of the legality of the clearance - that is currently aligned with our Soy Policy".			
Soy	Main exporter groups (municipality)	ADM (23%), Bunge (12%), Amaggi (6%), Cargill (4%), LDC (2%), Cofco (1%), others (52%)		
	Warehouses (50 km radius)	56 warehouses including: 1 owned by Bunge, 1 by ALZ Grãos, and 3 by SLC Agrícola		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	-		
	Slaughterhouses (sourcing from the municipality)	-		
	Supply chain links & details:	-		
Other supply chain links and details:		Data from 2014 by the National Supply Company (CONAB) links cotton produced in Fazenda Tapera - through the Cooperativa dos Produtores Rurais de Rosário Ltda - to Cargill Agrícola in Luís Eduardo Magalhães (Bahia)		

General comments

The property has valid authorization for the clearance of native vegetation. Ireneu Orth was elected mayor of Tapera - RS in 2012, and in 2018 he was the first alternate of the then-elected senator of Rio Grande do Sul, Luiz Carlos Heize (1, 2). He is a large landowner, owning several properties in different Brazilian states, such as Bahia and Mato Grosso (3). Afonso Orth, Daniel Orth, Douglas Orth, Daiza Orth, and Aline Orth Brum are also owners of the company Fazenda Tapera Grande Ltda and one of the embargos and fines on the property have been registered under the name of Afonso Orth (4, 5). Besides being producers, Douglas and Daniel Orth are also involved in regional producers' associations: Douglas Orth is part of the Executive Board of Abapa (Associação Baiana dos Produtores de Algodão) and Daniel Orth was the representative of Aiba (Associação de Agricultores e Irrigantes da Bahia) in Rosário (Correntina - BA) (6, 7). Ireneu Orth's deceased brother, Antônio Orth, was also an ex-mayor (in Sertão -RS) and the founder of the Association of Soy Producers of Rio Grande do Sul (Aprosoja - RS) (8). In June 2022, Ireneu Orth obtained authorization for vegetal suppression of 677 hectares at Fazenda Tapera Grande, valid for four years, issued by the government of Bahia (9).

- (1) <https://www.uol.com.br/eleicoes/2012/candidatos/2012/prefeito/rs/22071950-ireneu-orth.htm>
- (2) <https://sistemaepu.com.br/noticias/ver/10438/Ex-prefeito-de-Tapera-Ireneu-Orth-agora-%C3%A9-suplente-de-Luiz-Carlos-Heinze>
- (3) <https://racismoambiental.net.br/2019/05/14/mapa-das-terras-dos-parlamentares-mostra-que-eles-acumulam-fazendas-na-amazonia-e-no-matopiba/>
- (4) <https://cnpj.biz/43149487000181>
- (5) <https://servicos.ibama.gov.br/ctf/publico/areasembargadas/ConsultaPublicaAreasEmbargadas.php>
- (6) <https://abapa.com.br/noticias/caminhoes-dirigir-do-jeito-certo-proporciona-economia-e-seguranca/>
- (7) <https://aiba.org.br/eleitos-os-novos-delegados-regionais-da-aiba/>
- (8) <https://www.canalrural.com.br/projeto-soja-brasil/morre-um-dos-fundadores-da-aprosoja-rs/>
- (9) Inema Bahia database

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.

For more info, please contact:

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



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