

REALTIME DEFORESTATION

Monitoring System

Soy and cattle supply chains
Amazon & Cerrado biomes – Brazil

RDM 5 - September 2022



aid
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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, 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 September 2022 presents **seven new cases** linking recent deforestation to soy traders’ and beef processors’ supply chains. The seven new cases include the reporting of a total of **16,598 hectares of native vegetation clearance and 422 fire alerts mainly in the Cerrado biome** (only one case is in the Amazon biome). Among the reported clearance of native vegetation, around 3,530 hectares are in areas with ‘extremely high’ priority for biodiversity conservation, and around 800 hectares fall in areas declared as the properties’ Legal Reserves, mandatory preservation areas according to the Brazilian Forest Code.

This report includes deforestation events until July 2022. The next RDM report will include deforestation cases linked to one of the largest fire seasons in Amazon, started in August 2022.

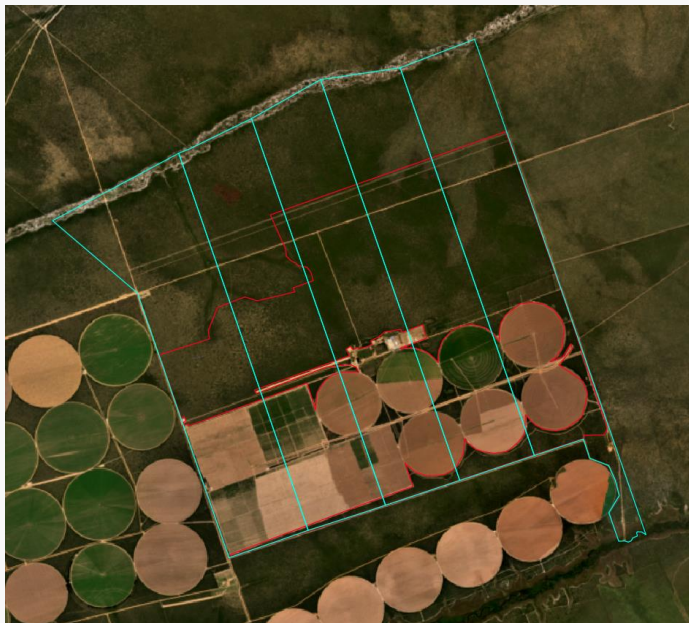


Table of Contents

Case Studies		Supply chain	Page
1.	Fazenda Indiana São Desidério (Bahia)	Soy	3
2.	Fazenda Grande Leste I, II, III, IV, V São Desidério (Bahia)	Soy	5
3.	Fazenda Santa Maria São Desidério (Bahia)	Beef & Soy	7
4.	Fazenda Buriti, I, II and III Correntina (Bahia)	Soy	9
5.	Gleba Amaro Leite Balsas (Maranhão)	Soy	11
6.	Fazendas Novas e Outras and Fazenda Fortaleza I, II, III & Fazenda Santa Alice and Fazenda Tagi Santa Filomena (Piauí)	Soy	13
7.	Fazenda Perobal I, II, and III Nova Bandeirantes (Mato Grosso)	Beef	16
Methods & Sources			18



Property				
Fazenda Indiana				
São Desidério, Bahia		Cerrado biome		
CAR:	BA-2928901- B4312B72C6A443F898527E41907CFFC0	SIGEF/SNCI:	3011160110700	
Area property (ha):		20,005	Coordinates property:	-45.88063, -12.96568
Cleared Area				
Coordinates clearance:		-45.83345, -12.92506		
2,226 hectares		period clearance: February to July 2022		
3 fires alerts				
Inside Forest Code's protected areas:		Yes	155 ha inside declared Legal Reserve	
Type of vegetation:	Forested Savanna	Priority for Biodiversity Conservation:		No
Conservation area(s) (overlapping or bordering):				-
Indigenous Territories (overlapping or bordering):				-
Before & After Imagery: limits of the property (blue) limits of the cleared area (red)				
February 2022				
				
Source: Imagery ©2022 Planet Labs Inc.				
July 2022				
				
Source: Imagery ©2022 Planet Labs Inc.				

Case Study 1



Environmental fines and embargoes				
Embargoes:	No	-		
Environmental fines:	No	-		
Ownership and other linked properties				
Ownership:	Indiana Agropecuária (former owner was Fábrica da Pedra - Fiação e Tecelagem)			
Company group:	Indiana Agropecuária is owned by Antonio Airon Lazarotto, José Altair Lazarotto and Jonathan Lazarotto			
Linked properties:	6 other properties totaling at least 12,400 ha. In Tapurah (MT): Fazenda União (4,730 ha), Fazenda União II (4,790 ha). In Sorriso (MT): Fazenda Sossego II (530 ha), Fazenda Santa Ana I, II, III (2,350 ha). In Lucas do Rio Verde (MT): Fazenda Lazarotto (unknown area), Fazenda Marape (unknown area)			
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Medium	ADM, Amaggi, Bunge, Cofco, JBS
Soy	Main exporters (municipality)	ADM (36%), Cofco (18%), Bunge (2%), [44% Domestic Consumption]		
	Warehouses (50 km radius)	118 silos, e.g.: 5 owned by SLC Agrícola, 3 by Bunge, 1 by Cargill		
	Supply chain links & details:	In 2019, a linked property (Fazenda Sossego, in Sorriso - MT) supplied soy to ADM, Amaggi, Bunge and Cofco, and another linked property (Fazenda Lazarotto, in Lucas do Rio Verde - MT), supplied soy to Cofco		
Beef	Main traders (municipality)	No data		
	Slaughterhouses (sourcing from the municipality)	São Desidério (BA) supplied cattle to 24 slaughterhouses, e.g.: 1 owned by JBS (Itapetinga - BA)		
	Supply chain links & details:	A linked farm, Fazenda Marape in Lucas do Rio Verde (MT) is an indirect supplier to JBS (Diamantino - MT) through Fazenda Bragança (Lucas do Rio Verde - MT)		
Other supply chain links and details:		-		
General comments				
Antonio Airon Lazaroto received a BNDES loan – granted by Santander as the Accredited financial institution – for the purchase of agricultural machinery in São Desidério (1). Indiana Agropecuária also received a BNDES loan – granted by John Deere Bank – to buy machinery in 2016 (2). Fazenda Indiana required a permit to clear 2,114 ha of native vegetation in July 2020 (3). The same area has an authorization for the use of fire between 04 August and 20 September 2022 (3).				
(1) BNDES Loan database (2) Forest & Finance data - https://forestsandfinance.org/ (3) INEMA database				

Property			
Fazenda Grande Leste I, II, III, IV, V			
São Desidério, Bahia		Cerrado biome	
CAR:	BA-2928901-7F6754275A5D4B478183B1C6A3E87C3F, BA-2928901-B3C36E8A421B47B1B6DC1A947CCE3770, BA-2928901-C3B6744346DD4D3FB587048FA156FBF9, BA-2928901-3D580D50452247419B5CCFFBB6944D74, BA-2928901-FD9E78B981574F94B4CCC83F949F69E7	SIGEF/SNCI:	606197365, 606198507, 606197870, 606197950, 606204400
Area property (ha): 5,292		Coordinates property:	-45.21933, -12.73981
Cleared Area			
Coordinates clearance:		-45.21684, -12.72474	
1,928 hectares		period clearance: March to July 2022	
62 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):		-	
Before & After Imagery: limits of the property (blue) limits of the cleared area (red)			
March 2022			
		July 2022	
			
Source: Imagery ©2022 Planet Labs Inc.		Source: Imagery ©2022 Planet Labs Inc.	

Environmental fines and embargoes				
Embargoes:		No -		
Environmental fines:	Yes	2 fines in São Desidério (unknown property) for polluting activities without the proper authorization in 2016 and 2022; 1 fine in Jaborandi (BA) for activities in embargoed areas (unknown property) in 2008. Other 16 fines in linked properties for deforestation and polluting activities without authorization and for activities in embargoed areas in Barreiras (BA), Formosa do Rio Preto (BA), Luís Eduardo Magalhães (BA), and Riachão das Neves (BA) between 2008 and 2018		BRL 5,649,100
Ownership and other linked properties				
Ownership:		Daniel Franciosi		
Company group:		Sociedade Franciosi, Franciosi Agronegócios, Santa Fé Agronegócios e Participações, Algodoeira Santa Lúcia, Confinamento Franciosi		
Linked properties:		23 other properties totaling at least 45,000 hectares. In Jaborandi (BA): Santo Expedito (unknown area), Fazenda Jatobá (unknown area). In São Desidério (BA): Fazenda Vereda Tropical I and II (1,000 ha), Fazenda Santa Rosa (400 ha), Fazenda São Francisco (unknown area), Fazenda Santa Lúcia (unknown area). In Luís Eduardo Magalhães (BA): Fazenda Vale Verde (1,690 ha), Fazenda Seis Irmãos (1,000 ha), Fazenda São Vicente (320 ha). In Barreiras (BA): Fazenda Dona Gilda (720 ha), Fazenda Chapada Verde and Cotton (630 ha), Fazenda Campo Limpo (2,400 ha), Fazenda Santo Antonio (3,900 ha), Fazenda Santa Rita (2,800 ha), Fazenda Rio Limpo (2,540 ha), Fazenda Rio Branco (1,480 ha), Fazenda Novo Horizonte (3,000 ha), Fazenda Marimba (930 ha), Fazenda Lagoa (1,500 ha). In Formosa do Rio Preto (BA): Fazenda Santa Maria (13,000 ha), Fazenda São José (3,900 ha), Fazenda Piratini (3,700 ha). In São Domingos (GO): Fazenda Guanambi (500 ha)		
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Medium	Bunge
Soy	Main exporters (municipality)	ADM (36%), Cofco (18%), Bunge (2%), [44% Domestic Consumption]		
	Warehouses (50 km radius)	22 silos, e.g.: 2 owned by Grupo Mizote, 1 by Olam Agrícola		
	Supply chain links & details:	The property under alert had soy cultivation in 2021, deforestation is potentially linked to the expansion of the property's soy planted area. Four linked properties are in the audit process for RTRS certification requested by Bunge: in Jaborandi (BA) - Fazenda Jatobá and Fazenda Santo Expedito - and in São Desidério (BA) - Fazenda Santa Lúcia and Fazenda São Francisco (1).		
Beef	Main traders (municipality)	No data		
	Slaughterhouses (sourcing from the municipality)	São Desidério (BA) supplied cattle to 24 slaughterhouses, e.g.: 1 owned by JBS (Itapetinga - BA)		
	Supply chain links & details:	-		
Other supply chain links and details:		Franciosi Agronegócios, Santa Fé Agronegócios e Participações, Algodoeira Santa Lúcia, Confinamento Franciosi		
General comments				
The Sibin Family, originally from São João da Boa Vista (SP), is active in coffee production in Bahia. There is a mention that the linked company to the property, Agropecuária Grande Leste, accessed bank financial support for implementing 400 ha of irrigated coffee in Bahia in 2003 (2). Although the property is under the ownership of Sibin family in SIGEF database (2019), official documents from Bahia environmental state agency, INEMA, link the property to Daniel Franciosi (3). The group of properties Fazenda Grande Leste has an authorization for controlled fire valued from 04th August to 18th September (2), that might be linked to the detected deforested area in this case. The property is linked to the Franciosi Agro Group, one of the largest agribusiness companies operating in Matopiba, allegedly producing soy and cotton in 70,000 hectares in Bahia and Piauí states (4).				
(1) https://responsiblesoy.org/wp-content/uploads/2022/01/Consulta-publica-RTRS_Bunge_2022.pdf				
(2) https://www.desenbahia.ba.gov.br/publitao/arquivos/arquivos/240820111042703117.pdf				
(3) INEMA database				
(4) https://www.franciosiagro.com.br/#producao				

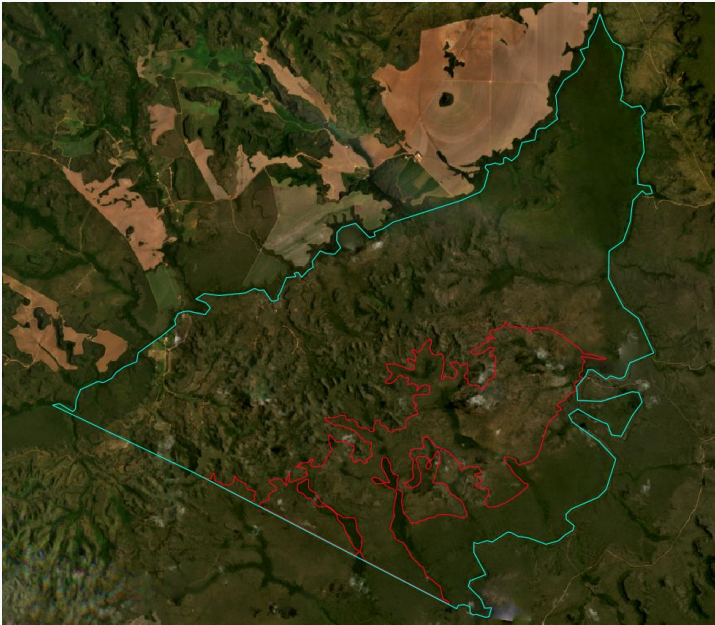
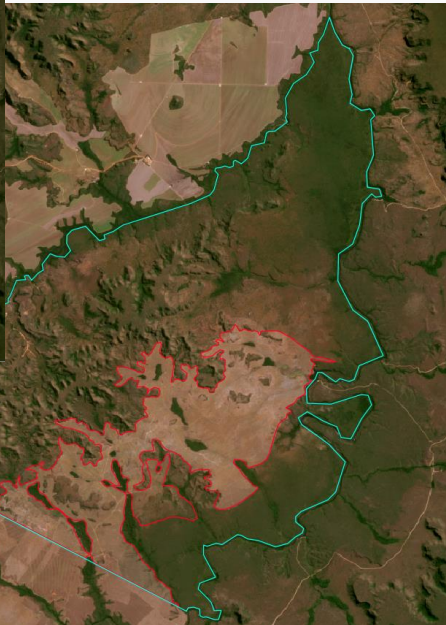
Property			
Fazenda Santa Maria			
São Desidério, Bahia		Cerrado	biome
CAR:	BA-2928901-45581062DB154918B641061D90FAE07D	SIGEF/SNCI:	3040260361530
Area property (ha):	11,566	Coordinates property:	-45.14263, -13.04204
Cleared Area			
Coordinates clearance:	-45.14907, -13.03013		
1,748 hectares	period clearance: April to July 2022		
148 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):		-	
Before & After Imagery: limits of the property (blue) limits of the cleared area (red)			
April 2022		July 2022	
			
Source: Imagery ©2022 Planet Labs Inc.		Source: Imagery ©2022 Planet Labs Inc.	

Environmental fines and embargoes				
Embargoes:	Yes	1 embargo for environmental impacts in the property's irrigation system reservoir, in 2016		
Environmental fines:	Yes	2 environmental fines linked to the property: 1 for building a water reservoir without proper authorization in 2016; 1 for airport operation without proper authorization in 2016. 1 other environmental fine linked to Jair Donabel for activities in an embargoed area in São Desidério (BA) in an unknown property in 2015	BRL 5,705,000	
Ownership and other linked properties				
Ownership:	Algodoeira São Luiz (formerly owned by Terra Norte Empreendimentos)			
Company group:	Algodoeira São Luiz (owned by Luiz Castelan, Robson Castelan and Jair Donadel)			
Linked properties:	No other property found			
Supply chain links				
Main Commodities		Beef and Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Medium	Bunge, Cargill
Soy	Main exporters (municipality)	ADM (36%), Cofco (18%), Bunge (2%), [44% Domestic Consumption]		
	Warehouses (50 km radius)	12 silos, e.g.: 1 owned by Grupo Mizote, 1 by Agrícola Xingu		
	Supply chain links & details:	The property under alert had soy cultivation in 2021, deforestation is potentially linked to the expansion of the property's soy planted area. A linked property, Fazenda Guarani (São Desidério - BA) supplied Cargill and Bunge		
Beef	Main traders (municipality)	No data		
	Slaughterhouses (sourcing from the municipality)	São Desidério (BA) supplied cattle to 24 slaughterhouses, e.g.: 1 owned by JBS (Itapetinga - BA)		
	Supply chain links & details:	Cattle production, but no close links to slaughterhouses (1st and 2nd tiers)		
Other supply chain links and details:		-		
General comments				
The owner of Algodoeira São Luiz (Castelan family and Jair Donadel) were involved in work conditions analogous to slavery twice, in and in. Both inspections took place in 2008 and 2010 in the linked property Fazenda Guarani (São Desidério - BA), a property with trading links to Bunge and Cargill (1).				
(1) https://reporterbrasil.org.br/2010/04/fazendeiros-reincidem-na-escravidao-e-enganam-ate-parentes/				

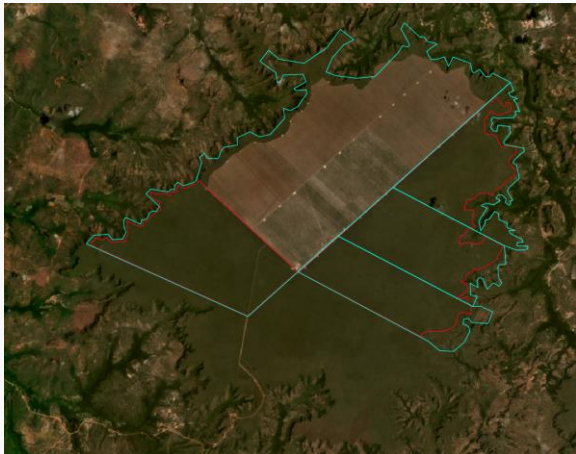
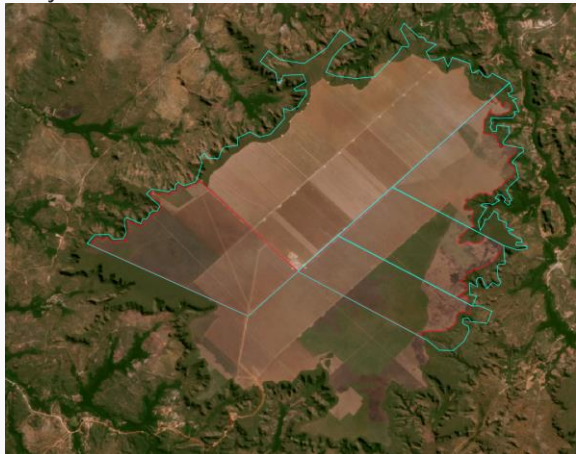
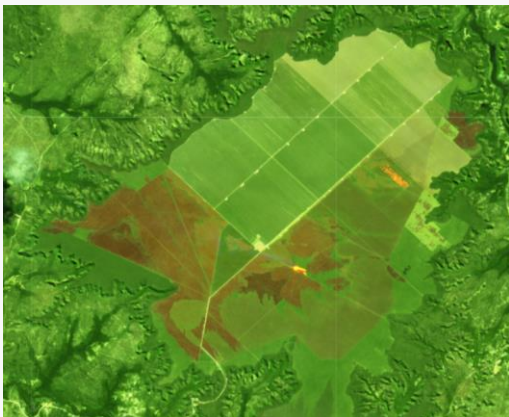
Property	
Fazenda Buriti, I, II and III	
Correntina, Bahia	Cerrado biome
CAR: BA-2909307-8FBCAEA989F0413E942CC8ACB6C475C7 BA-2909307-61666907B5FC4F119299C133C1CC57A8	SIGEF/SNCI: 3020400616118 and 9500178217726
Area property (ha): 6,299	Coordinates property: -45.55228, -13.26797
Cleared Area	
Coordinates clearance:	-45.55761, -13.2508
1,435 hectares	period clearance: February to July 2022
34 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): -	
Before & After Imagery: limits of the property (blue) limits of the cleared area (red)	
<div>February 2022</div>  <div>Source: Imagery ©2022 Planet Labs Inc.</div>	
<div>July 2022</div>  <div>Source: Imagery ©2022 Planet Labs Inc.</div>	

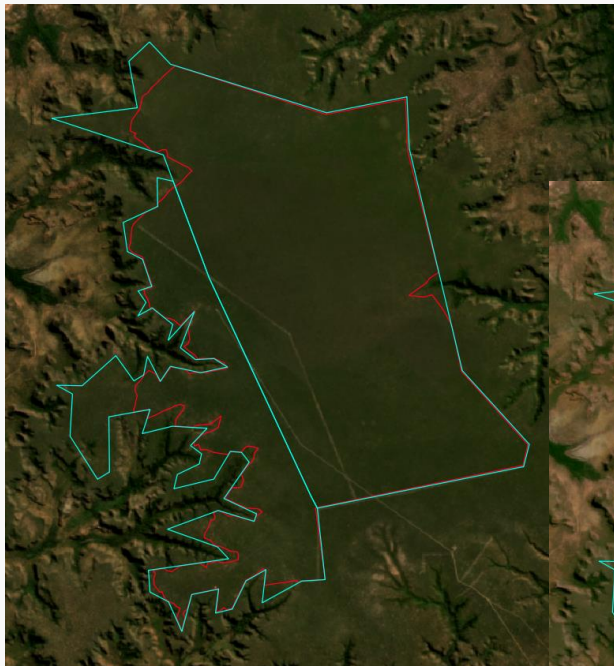
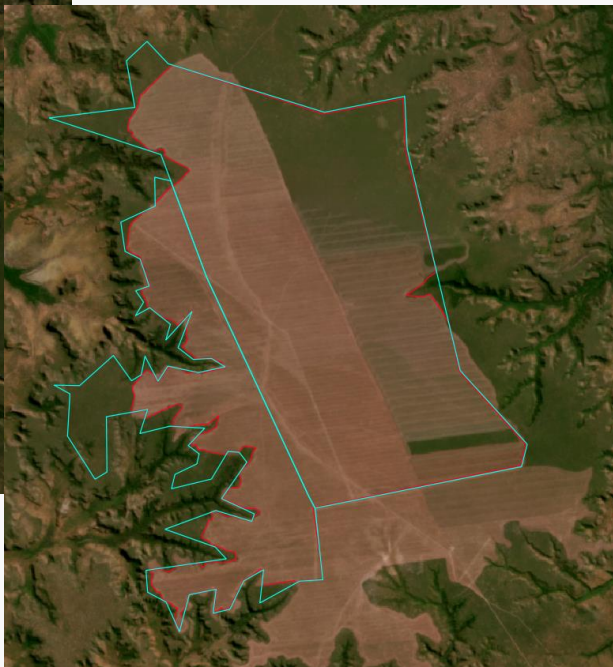
Case Study 4

Environmental fines and embargoes				
Embargoes:	Yes (other links)	1 embargoed area for illegal deforestation of 2,008 ha in Fazenda Passagem Funda (Correntina - BA), in 2011 (area with an embargo removed in 2013)		
Environmental fines:	Yes (other links)	3 environmental fines: 1 for clearing 2,008 ha of native vegetation without authorization in Correntina (BA), in 2011; 1 for building a dam in the Guar river without the proper authorization in Correntina (BA), in 2012; and 1 for clearing 122 ha of native vegetation in Fazenda Amizade I (Correntina - BA) in 2019		BRL 3,123,000
Ownership and other linked properties				
Ownership:	Marilane Moresco Denardin			
Company group:	Grupo Denardin (Comercial de Alimentos Denardin; DB - Algodo; Denardin Holding Patrimonial; Ged Holding) active on cotton, soy and corn production in Correntina			
Linked properties:	Denardin family owns 50 farms in Correntina totalling 32,445 ha			
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Low	ADM, LDC, Viterra
Soy	Main exporters (municipality)	Bunge (40%), ALZ (10%), others (14%), [36% Domestic Consumption]		
	Warehouses (50 km radius)	58 silos, e.g.: 4 owned by SLC Agrcola, 2 by Agrcola Xingu, 1 by Bunge		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	No data		
	Slaughterhouses (sourcing from the municipality)	Correntina (BA) supplied cattle to 26 slaughterhouses, e.g.: 1 owned by JBS (Itapetinga - BA)		
	Supply chain links & details:	-		
Other supply chain links and details:		There are trading links between the producer and ADM, LDC, and Viterra through cotton trading in 2014 (Conab database)		
General comments				
Grupo Denardin it is active on cotton, soy and corn production in Correntina municipality (1, 2, 3). Resident in Posse, Gois, the Denardin family has 50 properties in Correntina totalling 32,445 ha. Marilane Moresco Denardin was listed in 2009 in the “dirty list” of slavery labor after submitting 14 workers to unproper conditions rescued at Fazenda Santa Anglica (4).				
(1) https://www.bloomberg.com/news/features/2018-05-30/latin-american-land-owners-are-fighting-to-keep-power-lines-out (2) http://intactausatour.com.br/8/ (3) https://www.youtube.com/watch?v=ZrWMk8pX70s (4) https://www.cptnacional.org.br/component/jdownloads/send/12-trabalho-escravo/144-trabalho-escravo-2009?Itemid=0				

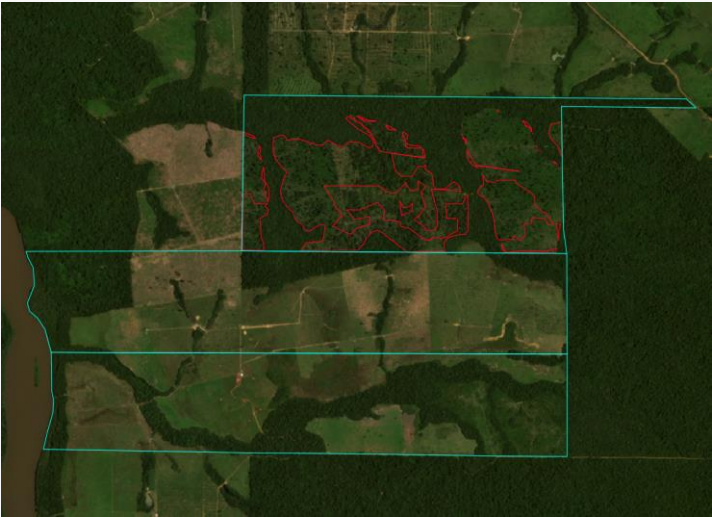

Property			
Gleba Amaro Leite			
Balsas, Maranhão		Cerrado Biome	
CAR:	MA-2101400-EE66E793ED374407A21E62784E555C4A	SIGEF/SNCI:	9501903822564
Area property (ha):	8,369	Coordinates property:	-46.29771, -8.51025
Cleared Area			
Coordinates clearance:	-46.27846, -8.50465		
1,795 hectares	period clearance:	March to July 2022	
11 fires alerts			
Inside Forest Code's protected areas:	Yes	393 ha inside declared Legal Reserve	
Type of vegetation:	Wooded Savanna	Priority for Biodiversity Conservation:	Extremely high
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	
<p>Before & After Imagery: limits of the property (blue) limits of the cleared area (red)</p> <p>March 2022</p> <div></div> <p>Source: Imagery ©2022 Planet Labs Inc.</p> <p>July 2022</p> <div></div> <p>Source: Imagery ©2022 Planet Labs Inc.</p>			

Environmental fines and embargoes				
Embargoes:		No	-	
Environmental fines:		No	-	-
Ownership and other linked properties				
Ownership:		Egon Ewaldo Lindorfer		
Company group:		Silo Verde Indústria e Beneficiamento de Grãos is registered in Campo Verde (MT) and linked to grain oil production, there are 13 listed owners including the owner of Gleba Amaro Leite (Egon Ewaldo Lindorfer)		
Linked properties:		6 other properties in Dom Aquino (MT), totaling at least 4,430 ha: Fazenda Santa Amélia probably linked to Agropecuária Antonello (1,840 ha), Fazenda Serra Vermelha (510 ha), Fazenda Macaíba (660 ha), Fazenda Meu Rincão (500 ha), Fazenda Córrego do Morcego (630 ha), and Fazenda São Jorge (290 ha)		
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		No	Medium	Cofco, LDC
Soy	Main exporters (municipality)	ALZ (36%), ADM (13%), Viterra (12%), Bunge (9%), Cargill (5%), others (25%)		
	Warehouses (50 km radius)	30 silos, e.g.: 8 owned by SLC Agrícola, 7 by Agrex do Brasil		
	Supply chain links & details:	The property is bordering an area of soy cultivation and all the other linked properties in Dom Aquino (MT), under the same ownership, have soy cultivation. Egon supplied Cofco and LDC (2019) with soy originated from Fazenda Santa Amélia (Dom Aquino - MT) (1)		
Beef	Main traders (municipality)	No data		
	Slaughterhouses (sourcing from the municipality)	Balsas (MA) supplied cattle to 14 regional slaughterhouses		
	Supply chain links & details:	-		
Other supply chain links and details:		Active in cotton		
General comments				
Lindorfer was part of the state subsidy program for cotton production in Mato Grosso in 2017 (2) and had a financial credit approved in 2019, also linked to cotton production in Dom Aquino (MT) (3). Egon received in 2016 a BNDES loan – intermediated by John Deere Bank – for the purchase of agricultural machinery destined to its soy farming operations in Dom Aquino-MT (4).				
(1) undisclosed data (2) http://www.sedec.mt.gov.br/documents/195466/14045644/1%C2%AA+REUNI%C3%83O+ORDIN%C3%81RIA+-+CDAE+-+REALIZADA+EM+20+DE+MAR%C3%87O+DE+2019.pdf/aacb8672-b77c-967d-a680-d30f04913491 (3) http://www.sedec.mt.gov.br/documents/195466/14045644/1%C2%AA+REUNI%C3%83O+ORDIN%C3%81RIA+-+CDAE+-+REALIZADA+EM+20+DE+MAR%C3%87O+DE+2019.pdf/aacb8672-b77c-967d-a680-d30f04913491 (4) BNDES Loan database				

Property				
Fazendas Novas e Outras and Fazenda Fortaleza I, II, III				
Santa Filomena, Piauí		Cerrado	biome	
CAR:	PI-2209203-4C9BEBB168EF440E9981361C19DBB7D1	SIGEF/SNCI:	1280230037007	
Area property (ha):		8,043	Coordinates property:	-45.71216, -8.69257
Cleared Area				
Coordinates clearance:		-45.72273, -8.69811		
3,838 hectares		period clearance: November 2021 to July 2022		
150 fires alerts				
Inside Forest Code's protected areas:		No		
Type of vegetation:		Wooded Savanna	Priority for Biodiversity Conservation:	High
Conservation area(s) (overlapping or bordering):		-		
Indigenous Territories (overlapping or bordering):		-		
<p>Before & After Imagery: limits of the property (blue) limits of the cleared area (red)</p> <div><div><p>November 2021</p><p>Source: Imagery ©2021 Planet Labs Inc.</p></div><div><p>July 2022</p><p>Source: Imagery ©2022 Planet Labs Inc.</p></div></div> <div><p>Fires</p><p>24 May 2022</p><p>Source: European Union, contains modified 2022, processed with EO Browser Copernicus Sentinel data</p></div>				

Property			
Fazenda Santa Alice and Fazenda Tagi			
Santa Filomena, Piauí		Cerrado	biome
CAR:	PI-2209203- E6F8321360694F098F1B3596F1027E87 PI-2209203- 4D33108C6D61490E8003350B331AB7AC	SIGEF/SNCI:	1310670162098 and 1310670162330
Area property (ha):		3,712	Coordinates property: -45.84931, -8.82715
Cleared Area			
Coordinates clearance:		-45.84698, -8.82284	
3,317 hectares		period clearance: June to July 2022	
- fires alerts			
Inside Forest Code's protected areas: Yes		- -	
Type of vegetation:	Wooded Savanna	Priority for Biodiversity Conservation:	High
Conservation area(s) (overlapping or bordering):		-	
Indigenous Territories (overlapping or bordering):		-	
Before & After Imagery: limits of the property (blue) limits of the cleared area (red)			
June 2022			
		July 2022	
			
Source: Imagery ©2022 Planet Labs Inc.		Source: Imagery ©2022 Planet Labs Inc.	

Environmental fines and embargoes				
Embargoes:	Yes (other links)	2 embargoes for clearing native vegetation without authorization: 386 ha in Fazenda Ponta da Serra (Balsas - MA), in 2011; 148 ha in Fazenda Baixão Fechado (Santa Filomena - PI), in 2009		
Environmental fines:	Yes	at least 3 environmental fines for clearance of native vegetation without proper authorization: 1 for 150 ha in Santa Filomena, in 2000; 1 for 148 ha in Fazenda Baixão Fechado (Santa Filomena - PI) in 2009; 1 for 386 ha in Fazenda Ponta da Serra (Balsas - MA), in 2011	BRL 60,000	
Ownership and other linked properties				
Ownership:	De Carli Empreendimentos e Participações			
Company group:	De Carli owns 16 different companies, among which: De Carli Empreendimentos e Participações, Codeca - Colonizadora de Carli, Agropecuária Caracol, Agropecuária Marimondo, Agropecuária Centauro			
Linked properties:	16 other properties totaling 50,712 ha. In Santa Filomena (PI): Fazenda Kajubar (9,377 ha), Fazenda Primavera (1,126 ha), Fazenda Salto (1,187 ha), Fazenda Tagi (2,579 ha), Fazenda Zodorica (413 ha), Fazenda Belo Monte (173 ha) and Fazendas Novas e Outras (4,996 ha); in Alto Parnaíba (MA): Fazenda Mangabeira (1,805 ha), Fazenda Gleba Serra (363 ha), Fazenda Altamira (1,021 ha), Fazenda Cristalina (3,611 ha) and Fazenda São Francisco (17,785 ha); in Riachão (MA): Fazenda Chapadinha Primeira do Norte (440 ha); in Balsas (MA): Fazenda Ponta da Serra (2,798 ha); in Itacajá (TO): Fazenda Telha (1,007 ha); in Santa Maria do Tocantins (TO): Fazenda Porto Alegre (2,301 ha)			
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		No	Low	Bunge
Soy	Main exporters (municipality)	Bunge (100%)		
	Warehouses (50 km radius)	25 silos, e.g.: 7 owned by SLC Agrícola, 5 by Agrex do Brasil, 1 by Bunge		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	No data		
	Slaughterhouses (sourcing from the municipality)	No data		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
<p>De Carli is a conceived land grabber (1) who diseased in June 2019 (2). In May 2015, an investigation of the Federal Public Ministry and the Federal Police of Piauí unveiled a land grabbing network connected to Euclides de Carli, pointed as the main land grabber in Matopiba region, controlling over 1 million hectares (3, 4, 5). In 2016, a justice court in Piauí blocked the titles of 124,000 hectares in possession of De Carli (6). De Carli's company, CODECA, also connects to TIAA-CREF investments in Brazil, operated by Radar S/A, a joint venture with Cosan (7, 8). The local Agrarian Court estimates that 300,000 ha of land in Maranhão and Piauí states are linked to De Carli's land grabbing crimes (9). De Carli is also accused of violence and threats connected to invasions of lands occupied by local communities (1, 8). He is still registered as the owner of 16 different companies in Maranhão (10).</p> <p>Deforestation also falls in a bordering property, Fazenda Rocha, registered in the name of Antônio Rocha Neto. There is a process requesting the recognition of the land ownership of an area of 15,400 hectares in Santa Filomena (including Fazenda Rocha), issued by Antônio Rocha Neto and denied by the Land Institute of Piauí, attesting that the applicant is "irregularly occupying a public land" (11).</p>				
<p>(1) https://reporterbrasil.org.br/2018/09/empresario-euclides-de-carli-acusado-mortes-roubo-terras-nordeste</p> <p>(2) https://sindag.org.br/galeria_merito/medalha-06-euclides-de-carli-in-memoriain/</p> <p>(3) https://www.gp1.com.br/colunistas/deputado-manoel-ribeiro-denuncia-grileiro-e-assassinatos-no-sul-do-maranhao-186258.html</p> <p>(4) https://deolhonosruralistas.com.br/2018/02/21/especulacao-com-terras-no-matopiba-deixa-rastros-de-grilagem-e-violacoes-aos-direitos-humanos/</p> <p>(5) https://deolhonosruralistas.com.br/2018/09/20/historias-de-grilagem-e-venda-de-terras-publicas-marcam-candidaturas-no-piaui/</p> <p>(6) https://cidadeverde.com/noticias/225086/justica-bloqueia-acesso-a-mais-de-124-mil-hectares-do-maior-grileiro-do-piaui</p> <p>(7) https://www.nytimes.com/2015/11/17/world/americas/tiaa-cref-us-investment-giant-accused-of-land-grabs-in-brazil.html</p> <p>(8) https://chainreactionresearch.com/wp-content/uploads/2020/01/Radar-company-report-2.pdf</p> <p>(9) https://jornaldebrasil.com.br/noticias/brasil/alvo-de-pistoleiros-juiz-faz-cruzada-solitaria-contra-grileiros/</p> <p>(10) http://www.sintegra.gov.br/</p> <p>(11) Page 37, Edition number 118, from 09 June 2021 consulted at: http://www.diariooficial.pi.gov.br/diario.php?dia=20210610</p>				

Property	
Fazenda Perobal I, II, and III	
Nova Bandeirantes, Mato Grosso	Amazon biome
CAR: MT-5106158-D03E33EDBDCA40E6A08D117C77644162 MT-5106158-72AF3606E04048EEA9F0098372F2C1A1	SIGEF/SNCI: 9500250680711
Area property (ha): 3,088	Coordinates property: -58.19415, -9.51439
Cleared Area	
Coordinates clearance:	-58.20008, -9.49783
311 hectares	period clearance: February to July 2022
14 fires alerts	
Inside Forest Code's protected areas: Yes	253 ha inside declared Legal Reserve
Type of vegetation: Ombrophilous Dense Forest	Priority for Biodiversity Conservation: High
Conservation area(s) (overlapping or bordering): -	
Indigenous Territories (overlapping or bordering): -	
<p>Before & After Imagery: limits of the property (blue) limits of the cleared area (red)</p> <p>February 2022</p> <div><p>Source: Imagery ©2022 Planet Labs Inc.</p></div> <p>July 2022</p> <div><p>Source: Imagery ©2022 Planet Labs Inc.</p></div>	

Environmental fines and embargoes				
Embargoes:	Yes	There is an embargoed area covering the deforestation under alert issued by the Mato Grosso state Environmental Agency (SEMA)		
Environmental fines:	Yes	4 environmental fines issued by Mato Grosso Environmental Agency for illegal clearance of native vegetation in Fazenda Perobal (1 in March 2021, 1 in June 2021, and 2 in October 2021)	unknown costs	
Ownership and other linked properties				
Ownership:	Alan Sérgio de Souza Perina (former owner was José Donizeti Barzon e Outros)			
Company group:	No links to agribusiness companies found			
Linked properties:	1 other properties in Nova Bandeirantes (MT): Sítio Pedro II (unknown area)			
Supply chain links				
Main Commodities		Beef		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	High	JBS
Soy	Main exporters (municipality)	[100% Domestic Consumption]		
	Warehouses (50 km radius)	No silos		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	JBS (83%), Marfrig (6%), Minerva (1%), others (10%)		
	Slaughterhouses (sourcing from the municipality)	Nova Bandeirantes (MT) supplied cattle to 10 slaughterhouses, e.g.: 4 owned by JBS, all in Mato Grosso (Alta Floresta, Colider, Juara, Juína)		
	Supply chain links & details:	Fazenda Perobal I directly supplied JBS (Alta Floresta - MT and Colider - MT) between 2019 and 2021, and indirectly supplied the same slaughterhouses through at least 4 different properties: Fazenda Dois Irmãos, Fazenda Lua Nova and Sítio Nossa Senhora Aparecida (all in Nova Bandeirantes - MT), and Fazenda Santo Augusto (Apiacás - MT)		
Other supply chain links and details:		-		
General comments				
Fazenda Perobal had a permit for forest management (AUTEX) valid until 2009 (934 ha) that overlaps with the detected deforested area. Fazenda Perobal has several embargoed areas and environmental fines issued by the Mato Grosso state environmental agency (SEMA) in 2021. Fazenda Perobal III, where the deforestation under alert falls, was sold by Berzon family to Alan Sérgio de Souza Perina in 2021 according to a SEMA's inspection report linked to illegal deforestation in the area (1). Alan Sérgio de Souza Perina indirectly supplied JBS (Alta Floresta - MT) in 2019 from Sítio São Pedro II (Nova Bandeirantes - MT) through Fazenda Rosane (Nova-Bandeirantes - MT).				
(1) Governo do Estado do Mato Grosso, Secretaria de Estado de Meio Ambiente, Superintendência de Gestão da Desconcentração e Descentralização, Diretoria de Unidade Desconcentrada de Alta Floresta - Relatório Técnico n. 046/DUDALTAFL0/SEMA/2021 (02/03/2021)				

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 SNCL.

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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