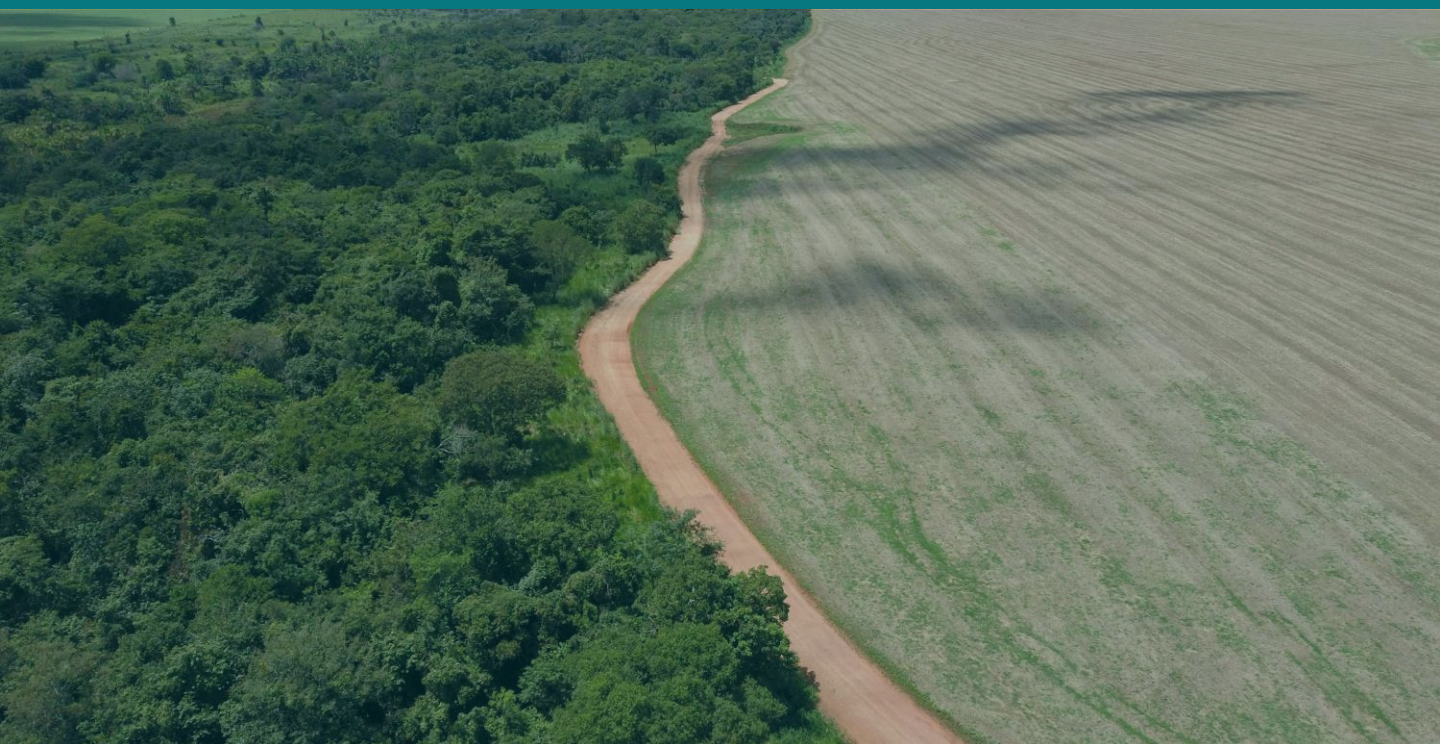


REALTIME DEFORESTATION

Monitoring System

Soy and cattle supply chains
Amazon & Cerrado biomes – Brazil

February 2022
(updated in July 2022)



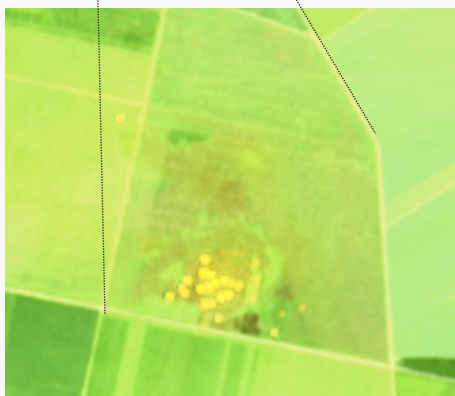


aidenvironment

Aid environment develops **Realtime Deforestation Monitoring (RDM)** reports to engage companies and urge action towards realtime 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 February 2022 presents **six cases** linking recent deforestation to soy traders' and beef processors' supply chains. The six cases are all in the **Cerrado biome** in the state of Bahia and Piauí. The total deforestation reported by the six cases is **21,265 hectares**, which are linked to **519 fire alerts**.

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Property	
Fazenda Roberta	
Jaborandi, Bahia	Cerrado biome
CAR: BA-2917359- 7C9EC3E13C234C9DA88496E70 7E1F1C7	SIGEF/SNCI: 2292290311860
Area property (ha): 2,304	Coordinates property: -45.94967, 14.16211
Cleared Area	
Coordinates clearance:	-45.91154, 14.17293
360 Hectares	period clearance: April to June 2021
3 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):	No
Indigenous Territories (overlapping or bordering):	No
Before & After Imagery: limits of the property (blue) limits of the cleared area (red)	
April 2021	June 2021
	
<p>Source: Imagery ©2021 Planet Labs Inc.</p>	
Fires	
08 June 2021	
<p>Source: European Union, contains modified 2021, processed with EO Browser Copernicus Sentinel data</p>	

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-
Ownership and other linked properties			
Company group:	Estreito Agropecuária and Rio Pratudão Agropecuária		
Linked properties:	9 properties, totaling at least 1,735 ha. In Jacaraú (PB): Fazenda Paulista e Maravilha (611 ha); in Mamanguape (PB): Fazenda Tabu Gleba I e II (154 ha) and Fazenda Jaçanã (408 ha); in Mataracá (PB): Sítio Nicolau (123 ha); and in Pureza (RN): Fazenda Esperança (323 ha); in Touros (RN): Fazenda Terra Nova (116 ha). In Baía Formosa (RN): Fazenda Uriuna (unknown area). In Jaborandi (BA): Fazenda Correntina (unknown area) and Fazenda Rio Pratudão (unknown area)		
Supply chain links			
Main Commodities	Multiple		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor	Yes	High / Medium	Cargill / ALZ Grãos
Companies' replies	Cargill confirmed trading links with the property but "have confirmed that the land clearance was legal"		
Soy	Main exporters (municipality)	Cargill (100%)	
	Warehouses (50 km radius)	18 warehouses, e.g.: 2 owned by Multigrain (22,000 MT)	
	Supply chain links & details:	ALZ Grãos had contracts with another property under the same ownership	
Beef	Main exporters (municipality)	JBS (80%), Frigosol (20%)	
	Slaughterhouses (sourcing from the municipality)	29 different beef processors sourced cattle from Jaborandi in 2017, e.g.: 1 owned by JBS (Itapetinga - BA)	
	Supply chain links & details:	-	
Other supply chain links and details:		Fazenda Correntina, in Jaborandi (BA), supplied cotton to CDI do Brasil Comércio e Exportação de Commodities Ltda in 2014. In 2017, Estreito Agropecuária supplied sugarcane to Usina Estiva in Baía Formosa (RN), owned by Pipa Agroindustrial.	
General comments			
<p>Registered in Recife (PE), Rio Pratudão Agropecuária is controlled by José Ranulfo da Costa Queiroz Neto and his brothers-in law Frederico Meira de Vasconcelos and José Vicente Meira de Vasconcelos Neto. The three businessmen own sugarcane and coconut plantations in the states of Pernambuco, Paraíba and Rio Grande do Norte, and soy and cotton farms in Bahia. In 1997, José Ranulfo was elected president of Sindaúcar in Pernambuco, one of the main employers' union in the sugarcane sector of which he is currently a board member (1). In 2006, 111 workers were rescued from slavery labor conditions in Fazenda Correntina, owned by Rio Pratudão Agropecuária (2). In 2007, 2,000 workers occupied one of his distilleries Usina Salgado, in Ipojuca (PE), protesting for labor debts held by the company surpassing BRL 200 million (3). In the harvesting season between 2013 and 2014, Rio Pratudão Agropecuária estimated revenue from soy and corn plantations in Western Bahia was BRL 23 million (7). In 2016, José Vicente Meira de Vasconcelos Neto was prosecuted by illegal deforestation of an Atlantic Rainforest area in Mamanguape (PB) linked to coconut plantations (8). In 2011, Estreito Agropecuária was fined by Ibama for disrupting the regeneration of 36.8 hectares of native vegetation on a property in Baía Formosa (RN) (9). In 2017, Estreito Agropecuária produced 196,000 tons of sugarcane at Baía Formosa (RN), supplied to Usina Estiva, sugarcane mill from Pipa Agroindustrial, involved in land conflicts against indigenous communities (10).</p>			
<p>(1) http://www.sindacucar.com.br/ingles/sindacucar.html (2) https://reporterbrasil.org.br/2006/05/cento-e-onze-trabalhadores-sao-resgatados-no-oeste-baiano/ (3) https://www.cptne2.org.br/index.php/publicacoes/noticias/noticias/1772-dois-mil-trabalhadores-ocupam-usina-salgado-em-ipojuca (4) http://testes.sistemafaep.org.br/sistemafaep/trabalho-duro-para-enriquecer-com-lavouras (8) https://www.trf5.jus.br/data/2016/04/PJE/08073431320154050000_20160420_70909_40500004088607.pdf (9) http://servicos.ibama.gov.br/ctf/publico/areasembargadas/ConsultaPublicaAreasEmbargadas.php (10) https://valor.globo.com/agronegocios/noticia/2021/07/12/mpf-cobra-plano-contra-queimada-de-cana-perto-de-comunidade-indigena-no-rn.ghtml</p>			

Property	
Fazenda Riacho Doce	
São Desidério (Bahia)	Cerrado biome
CAR: BA-2928901-06F987EF9FA1483295AD135301DD53D9	SIGEF/SNCI: 9500418045170
Area property (ha): 2,233	Coordinates property: -45.40170, -12.84063
Cleared Area	
Coordinates clearance:	-45.40269, -12.82502
246 hectares - fires alerts	period clearance: June to Aug 2021
Inside Forest Code's protected areas: No	- -
Type of vegetation: Forested Savanna	Priority for Biodiversity Conservation: Very high
Conservation area(s) (overlapping or bordering):	No
Indigenous Territories (overlapping or bordering):	No
<p>Before & After Imagery: limits of the property (blue) limits of the cleared area (red)</p> <p>June 2021 August 2021</p> <div style="display: flex; justify-content: space-around;">   </div> <p>Source: Imagery ©2021 Planet Labs Inc. Source: Imagery ©2021 Planet Labs Inc.</p>	

Environmental fines and embargoes				
Embargoes:	No	-		
Environmental fines:	Yes (other links)	8 environmental fines: 3 fines for clearing native vegetation without authorization – 1,600 ha, 651 ha and 2,262 ha – and 1 for illegal use of fire in 651 ha, all of them in 2012 in unknown properties in Formosa do Rio Preto (BA); 2 fines for non-compliance with environmental embargos from 2006 in two areas: 400 ha in Fazenda Terra Roxa, and 300 ha in an unknown property, both in Formosa do Rio Preto (BA); and 2 fines for unauthorised aircraft operations in Fazenda Santa Rosa and Fazenda Riacho Doce, in São Desidério (BA), in 2018	BRL 2,220,000	
Ownership and other linked properties				
Company group:	Grupo Mizote			
Linked properties:	43 other properties totaling at least 97,000 hectares, including 4 properties in Correntina (BA), 27 properties in São Desidério (BA), and 13 properties in Formosa do Rio Preto (BA)			
Supply chain links				
Main Commodities		Multiple		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	High	Bunge, Louis Dreyfus, Cofco
Soy	Main exporters (municipality)	ADM (35%), Cofco (18%), Bunge (2%), Cargill (1%), Domestic Consumption (44%)		
	Warehouses (50 km radius)	26 warehouses, e.g.: 1 own silos in Fazenda Riacho Doce, 3 owned by SLC Agrícola (50,000 MT), 1 owned by Olam Agrícola (14,000 MT), and 2 owned by Agrícola Xingu (20,000 MT)		
	Supply chain links & details:	Links to Bunge, Cofco and Louis Dreyfus, not clear if through soy or other crops trading (cotton, corn)		
Beef	Main exporters (municipality)	JBS (100%)		
	Slaughterhouses (sourcing from the municipality)	17 different regional beef processors sourced cattle from São Desidério in 2017. No info about JBS.		
	Supply chain links & details:	-		
Other supply chain links and details:		Between 2014 and 2018, Paulo Mizote supplied cotton to numerous clients, including Bunge, LD commodities, Cofco, Toyoshima USA Inc, Plexus Cotton Limited, ICT Trading SA, and Paul Reinhart (based on export data)		
General comments				
<p>Grupo Mizote is involved in the production, trading and export of soy, corn, and cotton. It is one of the main cotton producers in West of Bahia state (1). Paulo Massayoshi Mizote is (co-owner) of at least seven companies in Bahia. In 2012, Mizote family was fined BRL 5.4 million for environmental infractions in Fazenda Sassapão, in Formosa do Rio Preto, having 2,262 ha embargoed by Ibama (2). Grupo Mizote is listed in the Comissão Pastoral da Terra (CPT) report as linked to an agrarian conflict involving 240 families in 2016 and 2017 (3). In 2013, Correntina's citizens started a movement called "Fora Mizote" to halt a concession to deforest 24,599 hectares of native Cerrado by Grupo Mizote in the Fazenda Barra Velha (5). Grupo Mizote collects the 11th largest volume of water in Cerrado biome in Bahia among the companies linked to the Bahia Association of Farmers and Irrigators (Aiba) and Abapa. The companies have an authorization to capture 76.3 million litres per day from the Rio Grande Basin, one of the main tributaries of the São Francisco River (6).</p> <p>Mizote family is also involved in a land dispute in Formosa do Rio Preto (BA) with alleged land grabber José Valter Dias, accused of forging documents and bribing local judges to confiscate an area of 300,000 ha (7). In 2014, MetLife Inc., one of the largest global providers of insurance, annuities, and employee benefit programs, with 90 million customers in over 60 countries, provided a loan of USD 30 million to Paulo Massayoshi Mizote (8).</p>				
<p>(1) https://doi.org/10.14393/RCT112501 (2) https://servicos.ibama.gov.br/ctf/publico/areasembargadas/ConsultaPublicaAreasEmbargadas.php (3) https://www.cptnacional.org.br/component/jdownloads/send/41-conflitos-no-campo-brasil-publicacao/14061-conflitos-no-campo-brasil-2016?Itemid=0 (5) https://www.asabrasil.org.br/noticias?artigo_id=3141 (6) https://apublica.org/2021/12/os-privilegiados-com-a-agua-do-cerrado-baiano/ (7) https://www.legalnote.com.br/publicacao-diario-oficial/00248257120158050000/54712943 (8) https://www.agrimarketing.com/ss.php?id=87690</p>				

Property

Fazenda Cirilo, Fazenda Vereda dos Murrals, Fazenda Arara Azul I, Fazenda Arara Azul II

São Desidério, Bahia

Cerrado biome

CAR:

BA-2928901-A9BF9B92F62340FB8076683A0F174EAD;
 BA-2928901-CAFB2F4F02E545F89CB16AB977DD79D1;
 BA-2928901-E15A25487D4048508F872974D809299F;
 BA-2928901-13E35AC416D2496EB19A40E9AD8C3970;
 BA-2928901-513B842DA00A49C1B73D0324E12F365B;
 BA-2928901-AF9E91FAEEC14A1A9DC23D0C6E97AA6C

9501148602630,
 3011160301719,
SIGEF 3011160308721,
/SNCI: 3011160189374,
 3011160301808,
 3011160175748

Area property (ha): 2,732

Coordinates property: -45.80167, -12.62182

Cleared Area

Coordinates clearance: -45.79241, -12.62940

1082 hectares

2 fires alerts

period clearance: April to October 2021

Inside Forest Code's protected areas: No

696 ha inside declared Legal Reserve and APP

Type of vegetation: Wooded Savanna

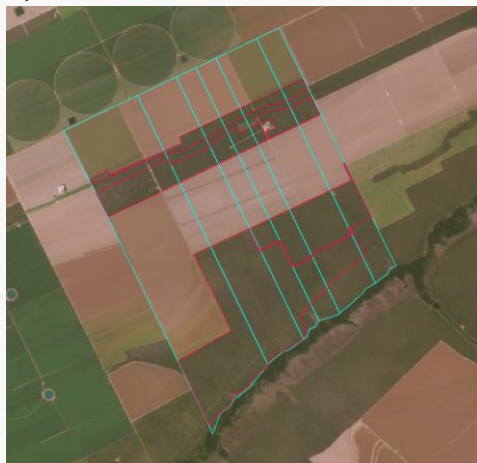
Priority for Biodiversity Conservation: No

Conservation area(s) (overlapping or bordering): No

Indigenous Territories (overlapping or bordering): No

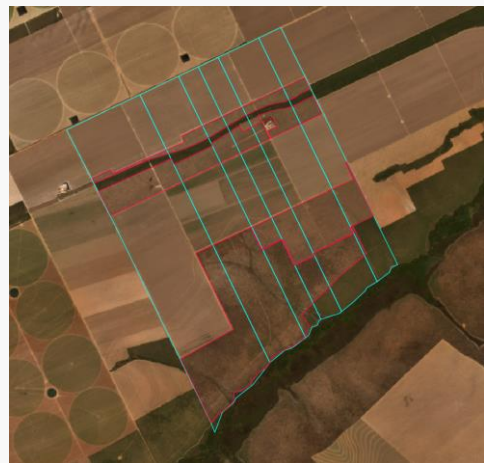
Before & After Imagery: limits of the property (blue) limits of the cleared area (red)

April 2021



Source: Imagery ©2021 Planet Labs Inc.

October 2021



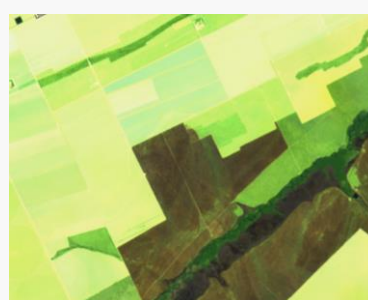
Source: Imagery ©2021 Planet Labs Inc.

Fires

24 Sep 2021





Source: Imagery ©2021 Planet Labs Inc.



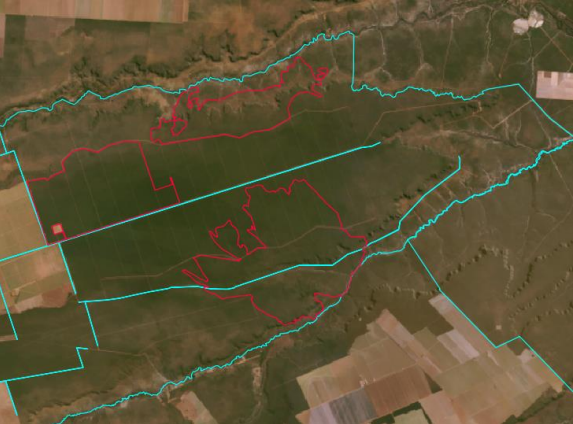
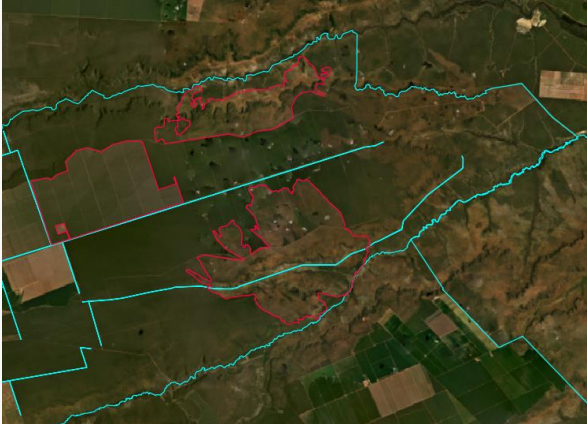
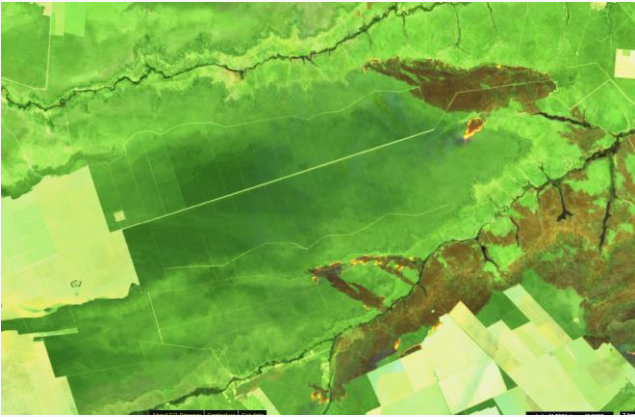
26 Sep 2021

Source: European Union, contains modified 2021, processed with EO Browser Copernicus Sentinel data

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-
Ownership and other linked properties			
Company group:	Cooperativa Agropecuária do Oeste da Bahia - Cooproeste		
Linked properties:	8 other properties totaling at least 7,330 ha. In São Desidério (BA): Fazenda 3K (1,315 ha) and Fazenda União (506 ha); in São Gonçalo do Gurguéia (PI): Fazenda Mauá VII (1,431 ha); in Formosa do Rio Preto (BA): Fazenda Mauá VI (1,027 ha), Fazenda Tupi IV (1,578 ha), Fazenda Bela Vista (244 ha), Fazenda Florai (486 ha) and Fazenda Ubiratã (744 ha)		
Supply chain links			
Main Commodities	Multiple		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor	Yes	Low	Bunge, Louis Dreyfus, ALZ Grãos
Soy	Main exporters (municipality)	ADM (35%), Cofco (18%), Bunge (2%), Cargill (1%), Domestic Consumption (44%)	
	Warehouses (50 km radius)	121 warehouses, e.g.: 3 owned by Bunge (90,000 MT), 3 owned by SLC Agrícola (60,000 MT), 1 owned by ALZ Grãos (60,000 MT), 1 owned by Louis Dreyfus (6,000 MT), 1 owned by Olam Agrícola (14,000 MT),	
	Supply chain links & details:	-	
Beef	Main exporters (municipality)	JBS (100%)	
	Slaughterhouses (sourcing from the municipality)	17 different regional beef processors sourced cattle from São Desidério in 2017. No info about JBS.	
	Supply chain links & details:	-	
Other supply chain links and details:	Active in soy, cotton and coffee supply chains		
General comments			
<p>Cooproeste, owned by Ricardo Hidecazu Uemura, Jorge Tadashi Koyama, Helio Kiyoshi Kobayashi, is a large storage company playing an intermediate role between producers and traders in West Bahia. Their assets include 14 silos (1). The three owners of Cooproeste have, together, 6 environmental fines: 3 fines for clearing 163 ha and 120 ha of native vegetation in Fazenda Mauá III and 226 ha in Fazenda Tupi, both in São Desidério (BA), in 2016; 1 fine for failing to comply with an embargo for clearing of 800 ha of native vegetation in Formosa do Rio Preto (BA) in 2008; 1 fine for clearing native vegetation without authorization in Fazenda Umuarama, in Formosa do Rio Preto (BA), in 2014; and 1 fine unauthorised deforestation of an unknown area in São Desidério (BA) in 2019 (2). Cooproeste is certified under UTZ scheme in the coffee supply chain (3). The company is also pointed as an exporter of cotton, soy and coffee (4).</p>			
<p>(1) https://www.cooproeste.com.br/armazenagem.html (2) https://servicos.ibama.gov.br/ctf/publico/areasembargadas/ConsultaPublicaAreasEmbargadas.php (3) https://utz.org/wp-content/themes/utz/download-attachment.php?post_id=12597 (4) https://silo.tips/download/cooperativas-exportadoras</p>			

Property	
Fazenda Novale	
Santa Rita de Cássia, Bahia	Cerrado biome
CAR: BA-2928406-E5E5F277060A45FBB530DD82C9ED6280	SIGEF/SNCI: 3011080077907
Area property (ha): 21,188	Coordinates property: -44.74428, -11.36628
Cleared Area	
Coordinates clearance:	-44.71126, -11.38407
522 hectares	period clearance: May 2021 to Jan 2022
- 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):	No
Indigenous Territories (overlapping or bordering):	No
<p>Before & After Imagery: limits of the property (blue) limits of the cleared area (red)</p> <p>May 2021</p>  <p style="text-align: right;">December 2021</p>  <p>Source: Imagery ©2021 Planet Labs Inc.</p> <p>Source: Imagery ©2021 Planet Labs Inc.</p>	

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	No	-	-
Ownership and other linked properties			
Company group:	Agropecuária A. Manjabosco, Agropecuária Mariana Manjabosco and Alvorada Sistemas Agrícolas, registered in Santa Rosa (RS)		
Linked properties:	4 other properties totaling 16,461 ha. In Riachão das Neves (BA): Fazenda Santa Maria (3,335 ha), Fazenda Santa Maria II (1,830 ha) and Fazenda Santa Marta (1,246 ha). In Formosa do Rio Preto (BA): Fazenda Triunfo (10,050 ha)		
Supply chain links			
Main Commodities		Beef and Soy	
Confirmed supply chain link, level of certainty, and soy trader/ beef processor	Yes	High / Low / Medium	Cargill / Bunge / JBS
Companies' replies	Cargill confirmed trading links with the property but <i>"have confirmed that the land clearance was legal"</i>		
Soy	Main exporters (municipality)	Domestic consumption (100%)	
	Warehouses (50 km radius)	6 warehouses, e.g.: 1 owned by Bunge (83,000 MT)	
	Supply chain links & details:	-	
Beef	Main exporters (municipality)	JBS (100%)	
	Slaughterhouses (sourcing from the municipality)	8 different regional beef processors sourced cattle from Santa Rita de Cássia in 2017. No info about JBS.	
	Supply chain links & details:	Direct supplied cattle to 5 regional slaughterhouses: Frigorífico Vale do Sol (Jequié-BA), Frigorífico Regional de Barreiras (Barreiras-BA), JF Agropecuária (Simões Filho-BA), Frigorífico Campo do Gado (Formosa do Rio Preto-BA) and Fazenda Baixão (Santa Rita de Cássia-BA) in 2018. A linked farm, Fazenda Triunfo, in Formosa do Rio Preto (BA) indirectly supplied a slaughterhouse owned by JBS in Itapetinga (BA) through other 4 farms between 2018 and 2019	
Other supply chain links and details:		Fazenda Triunfo, a linked property, supplied corn to Asa indústria e Comércio (PE) in 2014	
General comments			
<p>Fazenda Novale (Santa Rita de Cássia, Bahia) and Fazenda Triunfo (Formosa do Rio Preto, Bahia) are part of the owner's family business integrating cattle and soy production (1,2) in Western Bahia. In 2021, the family's cattle business included 5,000 (3). A family member is partner of the Cooperativa dos Produtores Rurais da Bahia (Cooperfarms), present also in Goiás and Tocantins states (4). The family owns also a company that officially represents the John Deere brand in Rio Grande do Sul (5). In November 2019, Agropecuária A. Manjabosco and Agropecuária Mariana Manjabosco were part of a Federal Police's operation, Avati, which resulted in a prosecution for tax frauds (totaling BRL 6,5 million), money laundering and criminal association together with other groups and landowners (6).</p>			
<p>(1) https://revistagloborural.globo.com/Integracao/noticia/2016/04/integracao-da-opcao-de-renda-e-ameniza-riscos.html (2) https://www.embrapa.br/en/busca-de-noticias/-/noticia/3689788/produtores-discutem-resultados-de-suas-experiencias-com-ilp-e-ilpf (3) https://www.portaldbo.com.br/boi-safrinha-onde-nao-tinha-boi-colhemos-menos-soja-afirma-agropecuarista/ (4) https://www.consultasocio.com/q/sa/eduardo-antonio-manjabosco (5) http://www.alvorada-rs.com.br/content/about_us (6) https://www.correio24horas.com.br/noticia/nid/empresas-ligadas-ao-agronegocio-sao-suspeitas-de-sonegar-r-20-milhoes-na-bahia/</p>			

Property	
Condomínio Agrícola Estrondo (Lotes 63-A, 63-B, 64-A, 64-B, 65-A, 65-B)	
Formosa do Rio Preto, Bahia	Cerrado biome
CAR: BA-2911105- D4E858AC04AA4190A8D78AC 034E73344	SIGEF/SNCI: 9321080049874; 600674749; 9261160132265; 600675044; 9321080048550; 600675397
Area property (ha): ± 80,000	Coordinates property: -43.03118, -11.26460
Cleared Area	
Coordinates clearance:	-45.79588, -11.14898
15,377 hectares	period clearance: July 2021 to January 2022
462 fires alerts	
Inside Forest Code's protected areas: No	107 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):	No
<p>Before & After Imagery: limits of the property (blue) limits of the cleared area (red)</p>	
July 2021	January 2022
	
<p>Source: Imagery ©2021 Planet Labs Inc.</p>	
Fires	
21 Sep 2021	
<p>Source: European Union, contains modified 2021, processed with EO Browser Copernicus Sentinel data</p>	

Environmental fines and embargoes

Embargoes:	Yes	1 embargoed area in 2020 (10,151 ha) for illegal deforestation	
Environmental fines:	Yes	1 environmental fine for clearing 10,151 hectares of native vegetation without authorization in Formosa do Rio Preto (BA) in 2016	BRL 3,045,000

Ownership and other linked properties

Company group:	Delfin Rio S/A - Crédito Imobiliário (Condomínio Estrondo)
Linked properties:	82 other properties totalling at least 82,000 hectares, all in the Condomínio Estrondo, in Formosa do Rio Preto (Bahia)

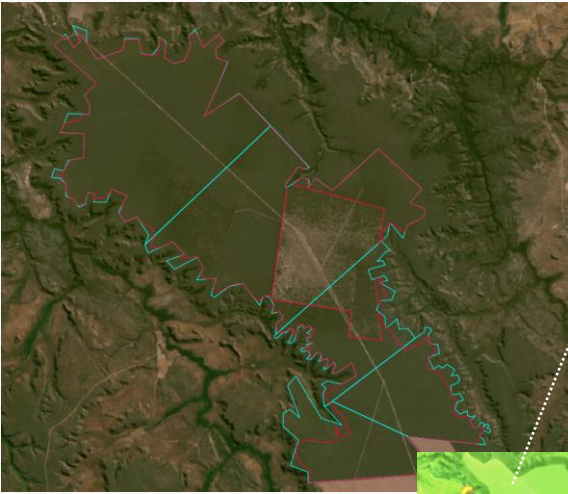
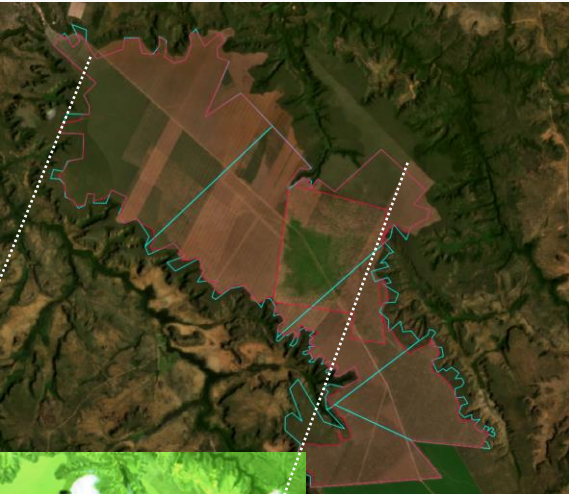
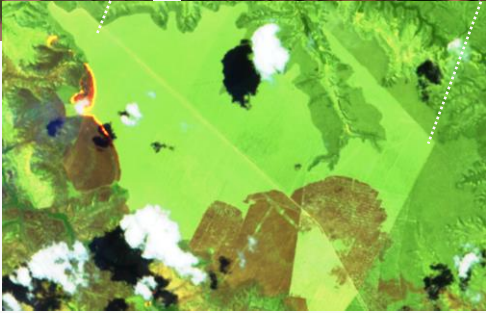
Supply chain links

Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	High	Bunge
Companies' replies		Potential link to Cargill was removed as they stated to have “no negotiations with Delfin or other producers in the areas (lotes) mentioned”		
Soy	Main exporters (municipality)	Bunge (54%), Amaggi & LD / ALZ (27%), Horita (14%), others (5%)		
	Warehouses (50 km radius)	67 warehouses, e.g.: 4 owned by Bunge (328,000 MT), 2 owned by Cargill (68,000 MT)		
	Supply chain links & details:	Bunge and Cargill are indirectly sourcing from the Condomínio Estrondo		
Beef	Main exporters (municipality)	JBS (100%)		
	Slaughterhouses (sourcing from the municipality)	12 different beef processors sourced cattle from Formosa do Rio Preto in 2017, e.g.: 1 owned by JBS (Itapetinga - BA)		
	Supply chain links & details:	-		
Other supply chain links and details:		-		

General comments

Delfin Rio S/A is owned by Levinsohn family. The family operates the Condomínio Agrícola Estrondo, a land-grabbing case linked to human rights crimes and environmental impacts direct affecting the livelihood of local communities (1). The case of Condomínio Estrondo is well reported by Mongabay (2, 3), De Olho nos Ruralistas (4), Repórter Brasil (1), Greenpeace (5, 6) and the local NGO 10envolvimento (7). In June 2020, the Bahia Court of Justice (TJ-BA) denied an appeal request made by Condomínio Agrícola Estrondo against the court decision that guarantees possession of 43,000 hectares of the area to a local community of “Geraizeiros” in Formosa do Rio Preto, Bahia (8). According to local sources, violence against the communities has increased after the judicial defeat of Condomínio Agrícola Estrondo (9). Bunge and Cargill indirectly source soy from Fazenda Condomínio Estrondo (10).

- (1) <https://reporterbrasil.org.br/estrondo/>
(2) <https://news.mongabay.com/2020/01/communities-in-brazilian-cerrado-besieged-by-global-demand-for-soy/>
(3) <https://brasil.mongabay.com/2019/11/investigacao-revela-esquema-de-corrupcao-entre-juizes-e-ruralistas-no-oeste-da-bahia/>
(4) <https://deolhonosruralistas.com.br/2019/02/12/da-vida-em-extase-das-socialites-levinsohn-a-violencia-no-campo-no-oeste-da-bahia/>
(5) <https://www.greenpeace.org/brasil/blog/cultivando-violencia-licenca-para-desmatar>
(6) <https://www.greenpeace.org/brasil/blog/exterminador-do-futuro-condominio-estrondo-inicia-desmatamento-gigante-no-cerrado/>
(7) https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=8&ved=2ahUKEwjsgqO-9tv1AhWlyaqKHfC7C4kQFnoECAgQAQ&url=https%3A%2F%2Fuprdoc.ohchr.org%2Fuprweb%2Fdownloadfile.aspx%3Ffilename%3D4035%26file%3DEnglishTranslation&usg=AOvVaw245Thj1abrEexHBW8v_ie7
(8) <https://www.aatr.org.br/post/seguran%C3%A7a-da-fazenda-estrondo-invade-territ%C3%B3rio-e-atira-contra-geraizeiros-em-formosa-do-rio-preto>
(9) <https://www.brasildefato.com.br/2020/07/10/fazenda-simbolo-de-grilagem-sofre-derrota-emblematica-e-perde-area-para-geraizeiros>
(10) <https://reporterbrasil.org.br/2019/12/bunge-e-cargill-compram-soja-contaminada-por-violencia-e-desmatamento-do-agronegocio-estrondo-diz-greenpeace>

Property	
Fazenda Baixão Fechado Serra Nova, Fazenda Tupã, Fazenda Passárgada, and Fazenda Reata / Fazenda Rocha	
Santa Filomena, Piauí	Cerrado biome
CAR: (De Carli's properties) PI-2209203-DB3B6DCD925B465E81393B0D2F96F7E1, PI-2209203-D987BA0E63DF446788306FBC253584AA, PI-2209203-274550B17225422E899CF57BD8AB8A5D, PI-2209203-54EE2B806DCF4959B68D86CC62B265B0 (Fazenda Rocha) PI-2209203-FF44A80C067D4642B600D0B5BC94EAF4	SIGEF/ SNCI: (De Carli's properties) 1310670162250 (Fazenda Rocha) 9510132198196
Area property (ha): 3,183 ha (De Carli's properties) / 1,548 ha (Fazenda Rocha)	Coordinates property: -45.73715, -8.82342
Cleared Area	
Coordinates clearance:	-45.75160, -8.81343
3,678 hectares 52 fires alerts	period clearance: June 2021 to January 2022
Inside Forest Code's protected areas: No	- -
Type of vegetation: Wooded Savanna	Priority for Biodiversity Conservation: Very high
Conservation area(s) (overlapping or bordering):	No
Indigenous Territories (overlapping or bordering):	No
Before & After Imagery: limits of the property (blue) limits of the cleared area (red)	
June 2021 	January 2022 
Source: Imagery ©2021 Planet Labs Inc.	Source: Imagery ©2021 Planet Labs Inc.
Fires 16 Sep 2021 	
Source: European Union, contains modified 2021, processed with EO Browser Copernicus Sentinel data	

Environmental fines and embargoes			
Embargoes:	No	-	
Environmental fines:	Yes	3 environmental fines: 1 fine for clearing 148 ha of native vegetation without authorization in Fazenda Baixão Fechado (Santa Filomena - PI), in 2009; 1 fine for clearing 3,870 ha of native vegetation in Fazenda Ponta da Serra (Balsas - MA), in 2011; 1 fine for clearing 150 ha of native vegetation in Santa Filomena - PI, in 2000 (unknown property)	BRL 445,000
Ownership and other linked properties			
Company group:	De Carli owns 16 different companies, among which: De Carli Empreendimentos e Participações, Codeca - Colonizadora de Carli, Agropecuária Caracol, Agropecuária Marimbondo, 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	Yes	Medium	Bunge
Soy	Main exporters (municipality)	Bunge (100%)	
	Warehouses (50 km radius)	29 warehouses, e.g.: 5 owned by Agrex do Brasil (25,000 MT), 5 owned by SLC Agrícola (62,000 MT), 1 owned by Bunge (31,000 MT)	
	Supply chain links & details:	-	
Beef	Main exporters (municipality)	No data	
	Slaughterhouses (sourcing from the municipality)	-	
	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 (2) https://sindag.org.br/galeria_merito/medalha-06-euclides-de-carli-in-memoriain/ (3) https://www.gp1.com.br/colonistas/deputado-manoel-ribeiro-denuncia-grileiro-e-assassinatos-no-sul-do-maranhao-186258.html (4) https://deolhonosruralistas.com.br/2018/02/21/especulacao-com-terras-no-matopiba-deixa-rastros-de-grilagem-e-violacoes-aos-direitos-humanos/ (5) https://deolhonosruralistas.com.br/2018/09/20/historias-de-grilagem-e-venda-de-terras-publicas-marcam-candidaturas-no-piaui/ (6) https://cidadeverde.com/noticias/225086/justica-bloqueia-acesso-a-mais-de-124-mil-hectares-do-maior-grileiro-do-piaui (7) https://www.nytimes.com/2015/11/17/world/americas/tiaa-cref-us-investment-giant-accused-of-land-grabs-in-brazil.html (8) https://chainreactionresearch.com/wp-content/uploads/2020/01/Radar-company-report-2.pdf (9) https://jornaldebrasil.com.br/noticias/brasil/alvo-de-pistoleiros-juiz-faz-cruzada-solitaria-contra-grileiros/ (10) http://www.sintegra.gov.br/ (11) Page 37, Edition number 118, from 09 June 2021 consulted at: http://www.diariooficial.pi.gov.br/diario.php?dia=20210609</p>			

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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The Realtime Deforestation and Fire Monitoring System is developed by Aidenvironment through the Project “Euro-finance and Deforestation” (with support from the EU Life Program). The contents of this publication are the sole responsibility of Aidenvironment and do not necessarily reflect the opinion of the European Union.