

REALTIME DEFORESTATION

Monitoring System

Soy and cattle supply chains
Amazon & Cerrado biomes – Brazil

June 2022


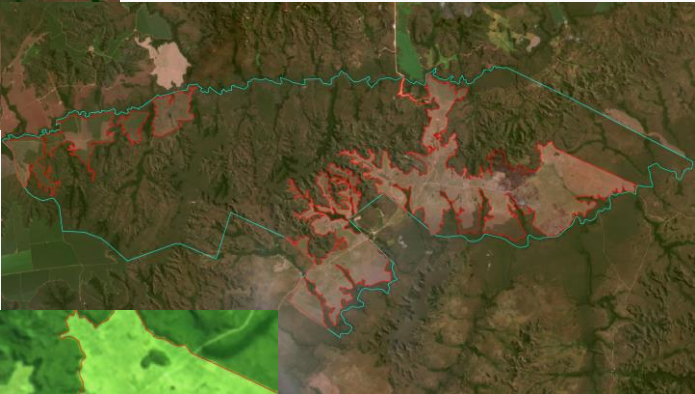



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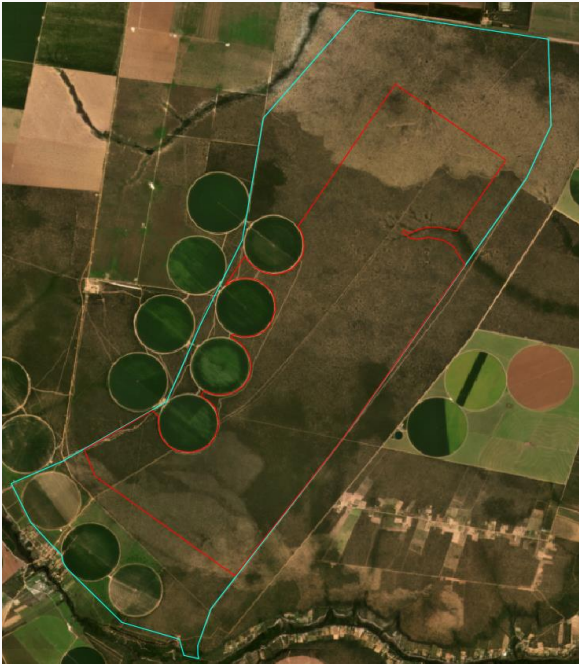
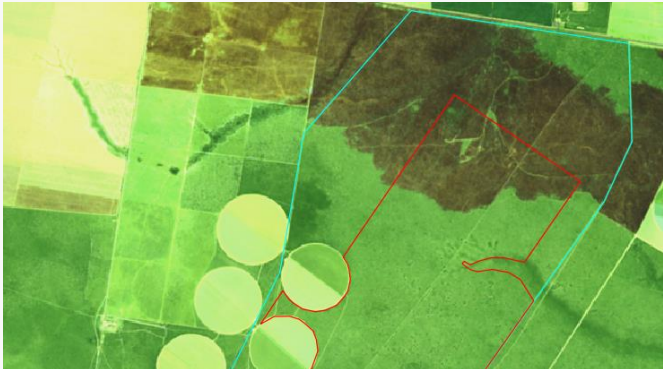
Aidenvironment develops **Realtime Deforestation Monitoring (RDM)** reports to engage companies and urge action towards real-time deforestation events, as well as to support financial sector and civil society stakeholders in their efforts to halt deforestation linked to commodity production and trade. 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 June 2022 presents **nine cases** linking recent deforestation to soy traders' and beef processors' supply chains. The nine new cases include the reporting of a total of **16,100 hectares of native vegetation clearance and 637 fire alerts in Amazon and Cerrado biomes**. Among the reported clearance of native vegetation, around 14,300 hectares are in areas with 'extremely high' priority for biodiversity conservation, and around 5,620 hectares fall in Legal Reserves, mandatory preservation areas according to the Brazilian Forest Code. In addition, the report includes an 'ongoing' case, reporting a continuing deforestation in a case from the RDM 1 (February 2022), Condomínio Agrícola Estrondo in Formosa do Rio Preto (Bahia).

Table of Contents

	Case Studies	Supply chain	Page
1.	Fazenda Nova Olinda Balsas (Maranhão)	-	3
2.	Fazenda Santa Cruz VIII Barreiras (Bahia)	Soy	5
3.	Fazenda Santa Rosa I, II, III Barreiras (Bahia)	Soy	7
4.	Fazenda Gaúcha (Fazenda Lucata I, II) Juara (Mato Grosso)	Beef	10
5.	Fazenda Tama Correntina (Bahia)	Beef & soy	13
6.	Fazenda São Francisco Riachão das Neves (Bahia)	Soy	15
7.	Fazenda Agrotep II Juara (Mato Grosso)	Beef	17
8.	Fazenda Canadá Colniza (Mato Grosso)	Beef	19
9.	Fazenda São João da Boa Vista I, II, III Canabrava do Norte (Mato Grosso)	Beef & soy	21
	Ongoing case		
10.	Condomínio Agrícola Estrondo Formosa do Rio Preto (Bahia)	Soy	23
	Methods & Sources		25

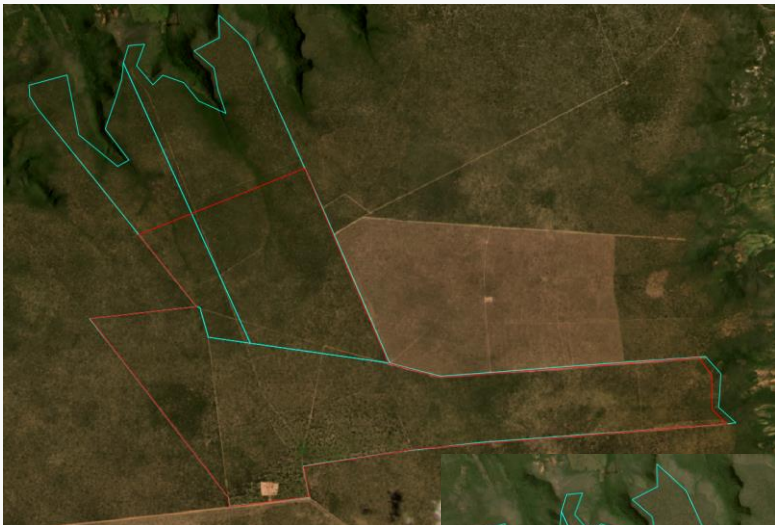

Property	
Fazenda Nova Olinda	
Balsas, Maranhão	Cerrado biome
MA-2101400- CAR: F33EFA149E1549209093A27693A 3077E	SIGEF/SNCI: 1140220135365
Area property (ha): 23,392	Coordinates property: -44.44837, -8.55062
Cleared Area	
Coordinates clearance:	-46.43914, -5.59308
6,620 hectares	period clearance: Sep 2021 to Apr 2022
52 fires alerts	
Inside Forest Code's protected areas: Yes	4,653ha inside declared Legal Reserve and APP
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>Sept 2021</p> <div></div> <p>Source: Imagery ©2021 Planet Labs Inc.</p> <p>Apr 2022</p> <div></div> <p>Source: Imagery ©2022 Planet Labs Inc.</p> <p>Fires</p> <div></div> <p>Source: European Union, contains modified 2022, processed with EO Browser Copernicus Sentinel data</p> <p>May 2022</p>	

Environmental fines and embargoes				
Embargoes:	Yes (other links)	Native vegetation degradation in 2012 and 103 rescued people in labour conditions analogous to slavery in 2005		
Environmental fines:	Yes (other links)	3 environmental fines in São Raimundo das Mangabeiras (MA): clearance of 185 ha before the approval by the environmental agency (1999); do not allow the natural regeneration of 5,604 ha in Fazenda Serra Grande (or São José) (2012); present false information in an authorization request (2011)		BRL 319,560
Ownership and other linked properties				
Ownership:	Agro Serra (Agropecuária e Industrial Serra Grande)			
Company group:	Agro Serra Industrial (Agropecuária e Industrial Serra Grande), Agroindustrial Alto Mearim (fruit agroindustry in Grajaú, Maranhão), Serracal, among others			
Linked properties:	Other 5 properties, totaling 100,477 ha. In Balsas: Fazenda Serracal (1,280 ha). In São Raimundo das Mangabeiras and partially in Mirador: Fazenda São José (82,209 ha); Fazenda Matão (2,807 ha), and Fazenda Matão I (2,820 ha). In São Raimundo das Mangabeiras: Fazenda Canastra (14,168 ha)			
Supply chain links				
Main Commodities		Multiple		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		No	Low	Amaggi, ADM, Viterra, Bunge, Cargill
Soy	Main exporters (municipality)	Amaggi (36%), ADM (13%), Glencore/Viterra (12%), Bunge (8%), Cargill (5%), others (27%)		
	Warehouses (50 km radius)	27 warehouses, e.g.: 10 SLC Agrícola, 7 Agrex do Brasil		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	No info		
	Slaughterhouses (sourcing from the municipality)	Supplied cattle to 24 regional slaughterhouses		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
<p>Agro Serra Industrial (formerly known as Agropecuária e Industrial Serra Grande) is one of the largest producers of sugarcane for ethanol in Maranhão. In 2005/2006, the company was responsible for 60% of Maranhão's production of ethanol, in cubic meters. Petrobras and Ipiranga used to be ethanol customers from Agrosserra. It also produces soy beans and other soft commodities. In 2005, labor fiscals rescued 652 workers working in slave-like conditions in sugarcane fields, in workdays above 14 hours without weekly rest (1). When the company was included in the “dirty list” of slave labour due to the mentioned case, they both mentioned commercial restriction being adopted or under consideration (2). In 2018, Brasilagro, a farmland company, announced the investment of BRL 1,4 billion in the Farm São José in partnership with Agro Serra for crop and ethanol production (3). In 2012, AgroSerra was listed by the Brazilian government among 169 companies compromised to improve working conditions in the sugarcane sector (4)(5). In 2013, Fazenda São José and Agropecuária e Industrial Serra Grande received the RTRS (Round Table on Responsible Soy) certification (6). In 2016, the headquarters of Agro Serra was investigated by Brazil's Federal Police under Operação Lava-Jato (Car-Wash Operation) for participation in a bribing scheme in the construction of railways Ferrovia Norte-Sul (FNS) and Integração Oeste-Leste (FIOL). The company alleges it was not the target of the operation and the task force that came to its office retrieved documents from a former employee (7).</p>				
<p>(1) https://reporterbrasil.org.br/2007/12/atualizacao-da-quot-lista-suja-quot-traz-reincidentes-e-grandes-empresas/ (2) https://www.cut.org.br/noticias/lista-suja-do-trabalho-escravo-exclusao-por-liminar-nao-evita-restricoes-83a1 (3) https://www.saoluisdofuturo.com.br/2018/12/06/1300/ (4) www.secretariadegoverno.gov.br/noticias/arquivos-noticias/empresas-agrariadas-13dejunho (5) https://oglobo.globo.com/economia/compromisso-para-gringo-ver-5549753 (6) http://www.responsiblesoy.org/se-realizo-la-tercera-reunion-de-la-task-force-brazil-ft-brazil/?lang=pt (7) http://g1.globo.com/ma/maranhao/noticia/2016/02/empresa-do-sul-do-ma-e-investigada-em-desdobramento-da-lava-jato.html</p>				

Property			
Fazenda Santa Cruz VIII			
Barreiras, Bahia		Cerrado biome	
CAR:	BA-2903201-C6B90E498BCD4FB4A1EE36998A2931D4	SIGEF/SNCI:	3010350107076
Area property (ha):	6,284	Coordinates property:	-45.43772, -12.14622
Cleared Area			
Coordinates clearance:		-45.43721, -12.14835	
3,103 hectares		period clearance: Jan to Apr 2022	
23 fires alerts			
Inside Forest Code's protected areas:	No	-	
Type of vegetation:	Savanna Park/Wooded 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)			
Jan 2022		April 2022	
			
Source: Imagery ©2022 Planet Labs Inc.		Source: Imagery ©2022 Planet Labs Inc.	
Fires		Sep 2021	
			
Source: European Union, contains modified 2021, processed with EO Browser Copernicus Sentinel data			

Case Study 2

Environmental fines and embargoes				
Embargoes:		No	-	
Environmental fines:	Yes (other links)	Received a fine in a property in Cuiabá (MT) - Fazenda Santa Cruz (not found in the landownership database) for activities without a proper authorization in 2008		BRL 100,000
Ownership and other linked properties				
Ownership:		Indústria de Derivados da Mandioca Santa Cruz (Everli Ricardo da Cruz Rodrigues Carvalho, Nelson Ricardo da Cruz, Gelson Ricardo da Cruz)		
Company group:		CEAL - Comércio e Depósito de Grãos, Agropecuária Mata do Puba, Indústria de Derivados da Mandioca Santa Cruz		
Linked properties:		Other 7 properties totaling 10,194 ha. In Barreiras (BA): Fazenda Lages - Parte 1 (527 ha), Fazenda Santa Cruz IV (2,609 ha), Fazenda Santa Cruz V (2,550 ha), Fazenda Santa Cruz 6 (1,241 ha), Fazenda Santa Cruz VII (2,279 ha), Fazenda Mata do Puba (950 ha), Agropecuária Mata do Puba (48 ha)		
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Low	Bunge, Cargill, ADM, Louis Dreyfus, Amaggi
Soy	Main exporters (municipality)	Viterro (Glencore) (67%), Cargill (20%), others (14%)		
	Warehouses (50 km radius)	85 warehouses, e.g.: 12 Bunge, 4 Cargill, 1 ADM, 1 Amaggi, 1 LDC		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	JBS (100%)		
	Slaughterhouses (sourcing from the municipality)	Supplied cattle to 23 regional slaughterhouses (none owned by JBS)		
	Supply chain links & details:	-		
Other supply chain links and details:		-		
General comments				
<p>The company "Indústria de Derivados da Mandioca Santa Cruz" is involved in a land dispute with the "Associação dos Acampados da Gleba Boa Sorte", representing a group of 200 families who revendicate the land tenure rights over a public area named "Gleba Boa Sorte" close by Cuiabá (MT) (1). The families are living in the area since 2005 requesting to the state government of Mato Grosso the landownership through the establishment of a rural settlement. In 2020, the company requested the ownership of the area to the court of justice (2). The company claims to own an area of 1,426 ha (3). A linked property, Fazenda Mata do Puba (Barreiras - BA) had an authorization for the clearance of 670 ha in 2018 - valid for 2 years (4).</p>				
<p>(1) https://pagina12.com.br/web/por-que-uma-empresa-da-bahia-obteve-liminar-na-justica-para-despejar-200-familias-na-zona-rural-de-cuiaba/ (2) https://www.rdnnews.com.br/judiciario/conteudos/133708 (3) https://sistemadje.tjmt.jus.br/publicacoes/10633-2019%20C8%20Comarcas%20-%20Entr%C3%A2ncia%20Especial%20-%20Cuiab%C3%A1.pdf (4) http://www.prefeitura.barreiras.mttransparente.com.br/admin/data/ATOOFICIAL270618061230.pdf</p>				

Property		
Fazenda Santa Rosa I, II, III		
Barreiras, Bahia		Cerrado biome
CAR:	BA-2903201- CD81764BE9BF443D95EA52CE918B3995, BA-2903201- B6899070A00F4012A63E6ECE26F0A096	SIGEF/SNCI: 9500685484809
Area property (ha):	2,369	Coordinates property: -45.15948, -12.21785
Cleared Area		
Coordinates clearance:	-45.1523, -12.23986	
1,747 hectares	period clearance: Jan to Apr 2022	
- fires alerts		
Inside Forest Code's protected areas:	Yes	28 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):		-
Before & After Imagery: limits of the property (blue) limits of the cleared area (red)		
Jan 2022		
		
Source: Imagery ©2022 Planet Labs Inc.		
Apr 2022		
		
Source: Imagery ©2022 Planet Labs Inc.		

Environmental fines and embargoes				
Embargoes:	Yes (other links)	3 embargoes in a linked farm (Fazenda Santa Rita de Cássia, Barreiras - BA) for deforestation without proper authorization in 2014, 2015, 2017		
Environmental fines:	Yes (other links)	4 environmental fines: 2 in the property Fazenda Santa Rita de Cássia in Barreiras (BA) in 2008 for illegal deforestation of 35 hectares, and 2 in a property in São Desidério (BA) in 2008 and 2010, being the first for illegal deforestation of 160 hectares and the second for no-compliance with an embargo		unknown costs
Ownership and other linked properties				
Ownership:	Ildo João Rambo			
Company group:	JPR Agrícola; Rambo Rodo Transporte de Cargas; RBD-Agro Serviços / Rambo family			
Linked properties:	6 other properties, totaling at least 21,095 ha. In Formosa do Rio Preto: Fazenda Santo Cristo (4,985 ha), Fazenda Santo Cristo II (1,880 ha). In Barreiras: Fazenda São João (5,630 ha); Fazenda São João III, IV, V e VI (1,550 ha), Fazenda Santa Rita de Cássia (unknown area). In Luís Eduardo Magalhães: Fazenda San Michel (625 ha). In Mansidão: Fazenda São João (6,425 ha)			
Supply chain links				
Main Commodities		Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	High / Low	Cargill / Bunge, Amaggi
Soy	Main exporters (municipality)	Bunge (40%), Amaggi (10%), [Domestic Consumption (36%)]		
	Warehouses (50 km radius)	47 warehouses, e.g.: 4 Cargill		
	Supply chain links & details:	Cargill has confirmed a trading relationship with a linked farm, Fazenda Santo Cristo II (Formosa do Rio Preto - BA), in April 2020		
Beef	Main traders (municipality)	JBS (100%)		
	Slaughterhouses (sourcing from the municipality)	Supplied cattle to 23 regional slaughterhouses (none owned by JBS)		
	Supply chain links & details:	A linked farm, Fazenda São João (Barreiras - BA) is active on cattle supply chain and had 2 embargoes and 2 environmental fines in 2008		
Other supply chain links and details:		-		

General comments

The Rambo family, owner of Fazenda Santa Rosa I, II and III is originally from Santo Cristo (RS), which names another of their properties in Formosa do Rio Preto (1). One of the family members belongs to the fiscal council of Bahia's Farmers and Irrigation Association (AIBA) (2) and is listed as a public supplier of "cereals" to the Brazilian Army (unit in Barreiras, Bahia) (3). A linked property, in Barreiras (BA), had a rural insurance linked to soy production in 2014 (4). There is a possible connection to JPR Agrícola (soy), owned by another member of the Rambo family and based in Luis Eduardo Magalhães (BA) (5).

In January 2019, Ildo João Rambo entered with a lawsuit against Ibama in Brazil's Supreme Court (6). Ildo João Rambo had three embargoed areas for environmental degradation (2014, 2015, and 2017) within its properties in Barreiras (BA). There is an environmental license for "legal" suppression of 3,744 ha of native vegetation to the implementation of cattle ranching activities in a linked farm, Fazenda Santo Cristo (Formosa do Rio Preto - BA), active until 25/07/2019 (7). In 2012, Ildo João Rambo received a license to grow eucalyptus in Fazenda São João in Barreiras (BA) (8).

Cargill has confirmed a trading relationship with the property Fazenda Santo Cristo II (Formosa do Rio Preto - BA) after the publication of the Rapid Response Report 12 (9). In 2017, Ildo João Rambo was prosecuted by environmental frauds in Fazenda Santo Cristo (Formosa do Rio Preto - BA), together with Aristides Queiroz Nogueira (10), who was arrested in 2017 for trying to destroy a neighbour's fence - something usual in land grabbing (11). However, the lands in Formosa do Rio Preto are under dispute between Aristides Queiroz Nogueira, Ildo João Rambo and Canabrava Agropecuária (12). Canabrava Agropecuária, based in the State of Minas Gerais, was allowed by Inema (the environmental agency of the State of Bahia) to clear 3,519 hectares in an unknown property in Formosa do Rio Preto. Canabrava's CEO is the grandson of a politician and former Brazilian ambassador in Paraguay. He led the negotiations with Chongqing Grain Group Corp, a Chinese state sector of agricultural commodities, to attract investment to a specific region of Minas Gerais, the "triângulo Mineiro". Controller of Universo Verde Agronegócios, Chongqing concentrates at least 100 thousand hectares of landownership in Brazil (13).

- (1) <http://www.novoeste.com/index.php?page=destaque&op=readNews&id=6112>
- (2) <https://jornalnovafronteira.com.br/canaais/cidade/assembleia-elege-nova-diretoria-e-o-conselho-fiscal-da-aiba-e-do-instituto-aiba/>
- (3) http://compras.dados.gov.br/fornecedores/doc/fornecedor_pf/170807
- (4) http://www.agricultura.gov.br/assuntos/riscos-seguro/seguro-rural/documentos-seguro-rural/Bahia_PSR.xlsx
- (5) <https://www.brasilcnpi.com/empresa/rodo-rambo-transporte-de-cargas-ltda/c9qAk5qwD>
- (6) <https://www.jusbrasil.com.br/diarios/documentos/667036885/andamento-do-processo-n-1148-0720164013303-acao-ordinaria-24-01-2019-do-trf-1>
- (7) <http://dovirtual.ba.gov.br/egba/reader2>
- (8) <https://www.barreiras.ba.gov.br/diario/pdf/diario1407.pdf>
- (9) https://www.mightyearth.org/wp-content/uploads/RR_Report_12_April_2020_Revised.pdf
- (10) <https://www.mp.ba.gov.br/sites/default/files/biblioteca/diariojustica/20180504.pdf>
- (11) <https://www.blogbahia.com/2017/12/policia-militar-de-formosa-do-rio-preto.html>
- (12) https://www.jusbrasil.com.br/diarios/documentos/520424028/andamento-do-processo-n-0000035-5220078050081-reintegracao-manutencao-de-posse-14-11-2017-do-tjba?ref=topic_feed
- (13) <https://deolhonosruralistas.com.br/2020/07/22/autorizacoes-para-desmatamento-na-bahia-incluem-gigante-da-celulose-e-fazendeiro-parricida/>

Property			
Fazenda Gaúcha (Fazenda Lucata I and II)			
Juara, Mato Grosso		Amazon biome	
CAR:	MT-5105101-722F871DDEFF4BFC8C5C4219F90E4ECO, MT-5105101-FDD7F77AC0D94DBA8027AAFF6C86934C	SIGEF/SNCI:	9011211143910
Area property (ha):	18,772	Coordinates property:	-57.83876, -11.88532
Cleared Area			
Coordinates clearance:	-57.77201, -11.89662		
1,311 hectares	period clearance: Jan 2021 to April 2022		
- fires alerts			
Inside Forest Code's protected areas:	No	-	
Type of vegetation:	Open Sub-mountainous Forest	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)			
Jan 2021		Sep 2021	
			
Source: Imagery ©2021 Planet Labs Inc.		Source: Imagery ©2021 Planet Labs Inc.	
		Apr 2022	
Source: Imagery ©2022 Planet Labs Inc.			

Case Study 4

Environmental fines and embargoes				
Embargoes:	Yes	1 environmental embargo for non-authorized clearance of native vegetation in 2020		
Environmental fines:	Yes	1 environmental fine and 2 environmental fines in linked properties. In 2020, 1 environmental fine linked to the embargoed area of part of Fazenda Gaúcha - Gleba A and B (Fazenda Lucata I). In 2011, 1 environmental fine for non-authorized use of fire in a property in Brasnorte (MT) and in 2012 for not presenting required documents to the State Environmental Agency regarding a property in Alta Floresta (MT)		BRL 192,725
Ownership and other linked properties				
Ownership:	STX Agrpecuária (Luiz Carlos Tavares)			
Company group:	STX Agropecuária / owner of STX is linked to 43 companies			
Linked properties:	10 other properties in Mato Grosso, totaling at least 11,385 ha. In Vila Bela da Santíssima Trindade: Fazenda Vitória do Guaporé (2,710 ha), Fazenda Lagoa do Encanto (unknown area). In Brasnorte: Fazenda Itauna (3,480 ha), Fazenda Santa Germen (unknown area), Fazenda Ingaí (unknown area), Fazenda Imburana (unknown area), Fazenda Tombador (unknown area). In Aripuanã: Fazenda Jatobá (unknown area), Fazenda São João (1,790 ha), Fazenda Boa Vista II (3,405 ha)			
Supply chain links				
Main Commodities		Beef and Timber		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Medium	JBS, Marfrig
Soy	Main exporters (municipality)	[Domestic Consumption (100%)]		
	Warehouses (50 km radius)	8 warehouses, e.g. Agropecuária Brianorte (21,160 MT)		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	JBS (56%), Marfrig (24%), Minerva (7%)		
	Slaughterhouses (sourcing from the municipality)	15 different meat processors sourced cattle from Juara in 2019 e.g.: 3 owned by JBS (Juará, Juína, Diamantino, all in MT), 1 owned by Marfrig (Tangará da Serra - MT), 1 owned by Minerva (Várzea Grande - MT)		
	Supply chain links & details:	Linked to 12 cattle ranches in Mato Grosso (Aripuanã, Vila Bela da Santíssima Trindade, and Brasnorte). Several of these properties directly supply JBS, e.g. unnamed property in Brasnorte directly supplied cattle to JBS in Juína in 2019, and Fazenda Vitória do Guaporé, in Vila Bela da Santíssima Trindade (MT), directly supplied JBS in Pontes e Lacerda (MT), in 2019. STX Agropecuária is also a direct supplier to MFG Agropecuária, a livestock confining company owned by Marfrig's CEO and main shareholder		
Other supply chain links and details:		In 2020, Fazenda Lucata I supplied timber to Estrela Indústria e Comércio de Madeiras, a supplier of wood residuals for energy generation to Bunge (Nova Mutum - MT) and Libra, an ethanol producer company		

General comments

STX Agropecuária, a linked company to Fazenda Gaúcha (Fazenda Lucata I and II), is active in the cattle and timber sectors and registered in different address including its headquarter in São José do Rio Preto (SP) (1). The owner of STX Agropecuária is linked to the ownership/management of other 43 different companies (2). STX Agropecuária is linked to at least 12 different cattle ranches in MT, most of them directly supplying slaughterhouses owned by JBS.

In 2014, the owner of STX Agropecuária signed a Conduct Adjustment Term (translated from Termo de Ajustamento de Conduta - TAC) with the Environment Agency of Mato Grosso that defines the payment of BRL 5,000 per hectare for the compensation of the degradation of the Area for Permanent Conservation (APP) in Fazenda Boa Vista II, in Aripuanã (MT) (3). The company sign other TACs linked to degradation of native vegetation: in 2013 regarding Fazenda Jeedá, also in Aripuanã (MT) (4), and in 2011 regarding an unknown property in Vila Bela da Santíssima Trindade (MT) (5).



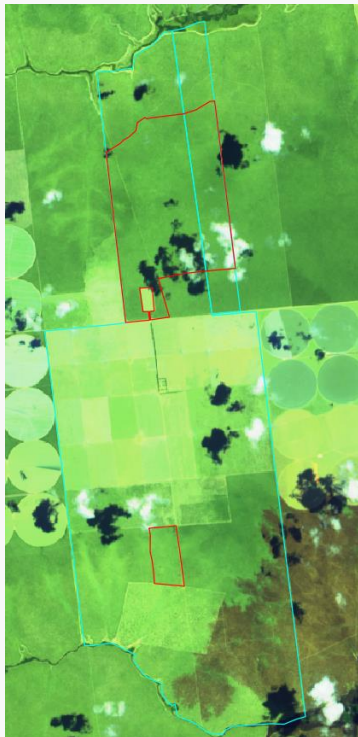
(1) <https://consultacnpj.com/cnpj/stx-agropecuaria-ltda-05268414000381>

(2) <https://www.consultasocio.com/q/sa/luiz-carlos-tavares>

(3) <https://www.jusbrasil.com.br/diarios/76345931/doemt-09-09-2014-pg-10>

(4) <https://www.escavador.com/diarios/647639/DOEMT/P/2013-10-17?page=15>

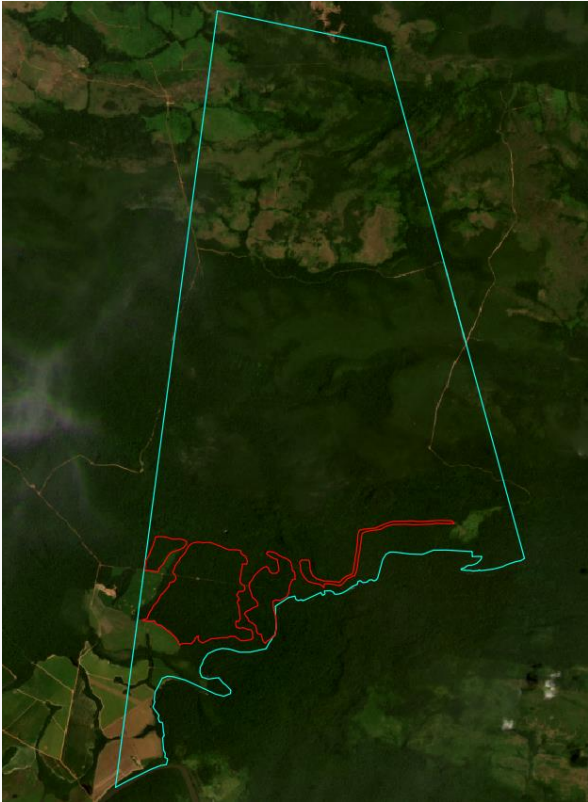
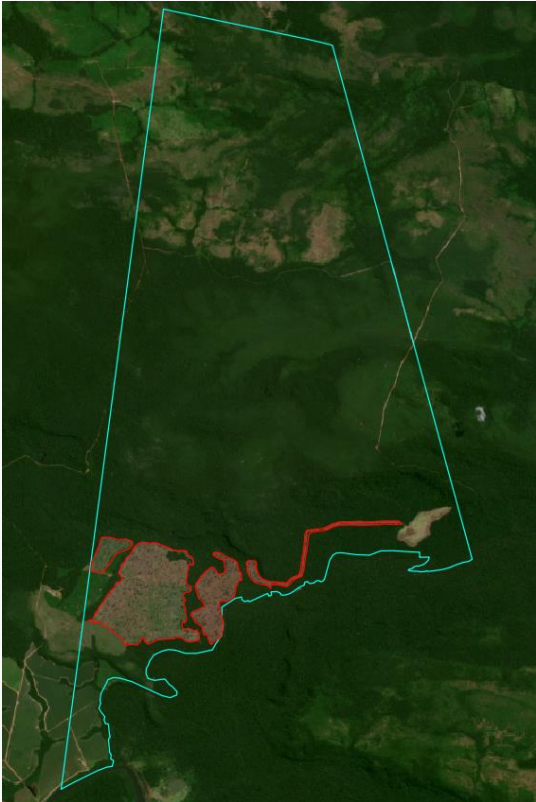
(5) <https://www.jusbrasil.com.br/diarios/28237262/pg-25-diario-oficial-do-estado-do-mato-grosso-doemt-de-14-06-2011?ref=serp>

Property			
Fazenda Tama			
Correntina, Bahia			Cerrado biome
CAR:	BA-2909307-E31BB0B6DAA14B0BB566E1354EC9A2F9, BA-2909307-395AA4EBE7B241C3962E91CA2166EBD7, BA-2909307-22C75D67B4DB4980978792E167E03839		SIGEF/SNCI: 9500175972108
Area property (ha):		5,691	Coordinates property: -45.31479, -13.22629
Cleared Area			
Coordinates clearance:		-45.31586, -13.17849	
1,044 hectares		period clearance: Feb to Apr 2022	
12 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)			
Feb 2022		Apr 2022	
			
Source: Imagery ©2022 Planet Labs Inc.		Source: Imagery ©2022 Planet Labs Inc.	
		Oct 2021	Fires
			
		Source: European Union, contains modified 2021, processed with EO Browser Copernicus Sentinel data	


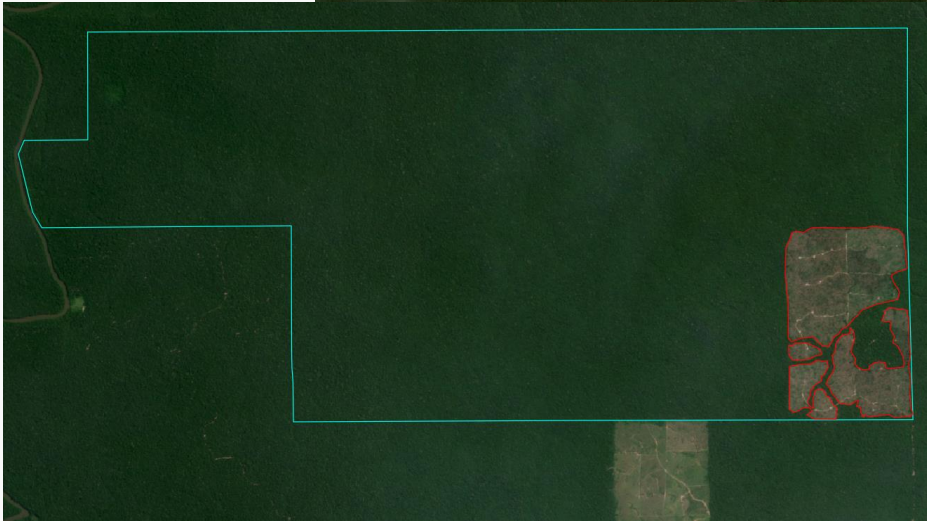
Environmental fines and embargoes				
Embargoes:		No	-	
Environmental fines:		No	-	-
Ownership and other linked properties				
Ownership:		José Luiz Battistella		
Company group:		Companies registred in Limeira (SP): Cerâmica Battistella, Nova Correntina Battistella Participações, Tama Battistella Administração de Bens		
Linked properties:		-		
Supply chain links				
Main Commodities		Beef and Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Low	Bunge, Amaggi
Soy	Main exporters (municipality)	Bunge (38%), Amaggi (10%), others (16%), [Domestic Consumption (36%)]		
	Warehouses (50 km radius)	20 warehouses, e.g: 2 Agrícola Xingu, 2 Coproeste, 1 Mizote, 1 SLC Agrícola		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	JBS (100%)		
	Slaughterhouses (sourcing from the municipality)	Supplied cattle to 26 slaughterhouses, e.g.; 1 JBS (Itapetinga - BA)		
	Supply chain links & details:	Indirectly supplied regional slaughterhouses		
Other supply chain links and details:		-		

Property	
Fazenda São Francisco	
Riachão das Neves, Bahia	Cerrado biome
CAR: More than 60 CARs falling in the property. Deforestation overlaps with 3 different CARs: BA-2926202-138456B9792847079A44B8EE1D92B5EC, BA-2926202-A0A71E048D8D4FF3937D730AE55ED68C, BA-2926202-42DFABFD978842AA95091E617E128B2C	SIGEF/SNCI: 2610410424045
Area property (ha): 47,500	Coordinates property: -45.42968, -11.69265
Cleared Area	
Coordinates clearance:	-45.39671, -11.70892
705 hectares	period clearance: Jan to Apr 2022
17 fires alerts	
Inside Forest Code's protected areas: Yes	18 ha inside declared Legal Reserve
Type of vegetation: Wooded Savanna	Priority for Biodiversity Conservation: No
Conservation area(s) (overlapping or bordering): -	
Indigenous Territories (overlapping or bordering): -	
Before & After Imagery: limits of the property (blue) limits of the cleared area (red)	
<div><div>Jan 2022</div><div></div></div>	
<div><div>Apr 2022</div><div></div></div>	
Source: Imagery ©2022 Planet Labs Inc.	

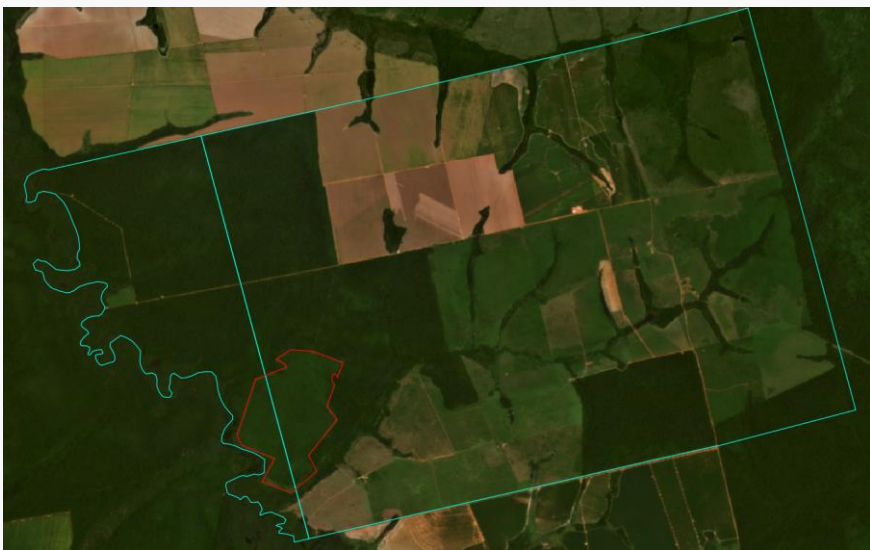

Environmental fines and embargoes				
Embargoes:		No	-	
Environmental fines:	Yes	3 environmental fines in Riachão das Neves (BA): 1 for clearance of 200,837 ha of native vegetation in 2012, for inadequate storage of toxic products in 2018, and for non-authorised airport activities in 2018		BRL 2,100,000
	No			
Ownership and other linked properties				
Ownership:		Ademar Antônio Marçal		
Company group:		AM Empreendimentos Agropecuários, WJC Empreendimentos Agropecuários, Cooperaba - Cooperativa de Produtores da Bahia		
Linked properties:		1 other property in Riachão das Neves (BA): Fazenda Paraíso (232 ha)		
Supply chain links				
Main Commodities		Soy and cotton		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Low	Bunge, Cargill
Soy	Main exporters (municipality)	Bunge (29%), ADM (29%), others (52%)		
	Warehouses (50 km radius)	42 warehouses, e.g.: 1 Cargill, 1 Bunge		
	Supply chain links & details:	The owner was covered by an insurance for soy cultivation in 2014 (Riachão das Neves - BA)		
Beef	Main traders (municipality)	JBS (100%)		
	Slaughterhouses (sourcing from the municipality)	Supplied cattle to 17 regional slaughterhouses (none owned by JBS)		
	Supply chain links & details:	-		
Other supply chain links and details:		Supplied cotton to Tata Textile mills in 2021 (1), the largest private corporation in Pakistan (2)		
General comments				
<p>Marçal received a certificate from Basf for its high soy productivity in the harvesting season of 2020/2021 (3). One of the largest individual cotton exporters from Brazil, Marçal is also the president of the Fundação Bahia for the technical development of crop production in west Bahia, including cotton, soy, corn, sesame, and coffee (4). In January 2021, Fazenda São Francisco was audit by the RTRS to supply certified soy to Bunge (5). Fazenda São Francisco's institutional materials published in September and November 2021 display the RTRS (6) and Better Cotton Initiative (BCI) certification's seal (7). Marçal is being sued by the Public Labour Prosecution Office (MPT) in Bahia due to a work accident that resulted in the amputation of a foot of a worker who operated a cotton agricultural machinery. The lawsuit is still in progress in the Bahia state court (8).</p>				
<p>(1) Custom undisclosed data (2) http://tatapakistan.com/assets/upload/61407c4081733-Tata-Annual%20Report%20June%202021.pdf (3) https://agriculture.basf.com/br/pt/protacao-de-cultivos-e-sementes/cultivos/soja/desafio-de-productividade-top-soja/basf-agro--campeoes-top-soja-2020-2021.html (4) https://fundacaoba.com.br/ (5) https://responsiblesoy.org/wp-content/uploads/2021/01/Consulta-publica-RTRS_Bunge_2021.pdf (6) http://www.fazsaofrancisco.com/saibamais.pdf (7) https://www.youtube.com/watch?v=Kpb2oSLLLbQ (8) https://www.trt5.jus.br/consulta-processo (number: 0000846-13.2020.5.05.0661)</p>				

Property	
Fazenda Agrotep II	
Juara, Mato Grosso	Amazon biome
CAR: MT-5105101-8A72B2A4736D4AC6B62CC92664198F23	SIGEF/SNCI: 9500689745011
Area property (ha): 10,715	Coordinates property: -57.53322, -10.78181
Cleared Area	
Coordinates clearance:	-57.55843, -10.83517
686 hectares	period clearance: Jan to Apr 2022
- fires alerts	
Inside Forest Code's protected areas: No	-
Type of vegetation: Open Sub-mountainous Forest	Priority for Biodiversity Conservation: No
Conservation area(s) (overlapping or bordering): -	
Indigenous Territories (overlapping or bordering): Bordering TI Apiaka/Kayabi	
Before & After Imagery: limits of the property (blue) limits of the cleared area (red)	
<div>Jan 2022</div> <div></div> <div>Source: Imagery ©2022 Planet Labs Inc.</div>	
<div>Apr 2022</div> <div></div> <div>Source: Imagery ©2022 Planet Labs Inc.</div>	

Environmental fines and embargoes				
Embargoes:	Yes	5 embargoes for illegal clearance of native vegetation all in Juara (MT): 78 ha in Fazenda Agrotep (2013), 357 ha in Fazenda Arandu (2016), 237 ha in Fazenda Boa Vista (2021), unknown area in Fazenda Agrotep (2015), Fazenda Mandassaia, and Fazenda Santo Antônio (2018)		
Environmental fines:	Yes	3 environmental fines for illegal clearance of native vegetation: 237 hectares in Fazenda Boa Vista in Juara - MT (2021), 138 hectares in Fazenda Subauna in Juara - MT (2019), 420 hectares in Fazenda Arandu in Juara - MT (2015); 1 environmental fine for selling timber without the certificate of origin in Sinop - MT (2009)	BRL 2,366,650	
Ownership and other linked properties				
Ownership:	Mandassaia Agro (Douglas Martin Paes de Barros)			
Company group:	Mandassaia Agro [Agrotep] (Juara - MT), Mandala Empreendimentos Imobiliária (Juara - MT), Santo Antônio Agropecuária (Juara - MT)			
Linked properties:	Other 5 properties totaling 18,980 ha. In Juara (MT): Agrotep I (11,150 ha), Fazenda Santo Antônio (700 ha), Fazenda Mandassaia III (150 ha), Fazenda Cafundó (4,460 ha), and Fazenda Porteirão (2,420 ha)			
Supply chain links				
Main Commodities		Beef		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Medium	JBS
Soy	Main exporters (municipality)	[Domestic Consumption (100%)]		
	Warehouses (50 km radius)	No warehouses in a radius Of 50km from the property		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	JBS (56%), Marfrig (25%), Minerva (8%), others (11%)		
	Slaughterhouses (sourcing from the municipality)	Supplied cattle to 26 slaughterhouses, e.g.; 3 JBS (Juina - MT, Diamantino - MT, Juara - MT), 1 Marfrig (Tangará da Serra - MT), 1 Minerva (Várzea Grande - MT)		
	Supply chain links & details:	Indirectly supplied JBS through a linked farm, Fazenda Santo Antônio (same ownership) (Juara - MT), who supplied Fazenda Santo Antônio (different ownership) (Juara - MT), a direct supplier to JBS in Juara (MT) in 2019		
Other supply chain links and details:		-		
General comments				
One of the owners of the companies Mandassaia Agro (Agrotep), Mandala empreendimento Imobiliários, Diego Martin de Barros, is being sued by the Public Prosecutor Office (MPF) of Mato Grosso for ilegal clearance of 152 ha in Juara (MT) in 2017 (1). In 2014, the company Agropecuária Mandala and other linked companies filed a request for judicial reorganization due to a debit of BRL 37 million (2, 3). The two brothers, owners of Madassaia Agro (Agrotep) and Agropecuária Mandala among other companies, were detained for the suspicious of being involved in the murdering of a lawyer in Juara in 2020 (4). In 2021, the person that linked them to the crime was also murdered (5).				
(1) https://apps.mpf.mp.br/aptusmpf/index2#/detalhe/92000000000012444964?modulo=0&sistema=portal				
(2) http://www.arinosnoticias.com.br/noticia/18911/Justica-acata-recuperacao-judicial-do-Grupo-Mandala/2				
(3) https://www.gcnoticias.com.br/geral/justica-chama-empresas-que-tem-dinheiro-para-receber-do-grupo-mandala/2851864				
(4) https://www.gazetadigital.com.br/editorias/judiciario/irmos-suspeitos-de-encomendar-morte-de-advogado-so-soltos/631401				
(5) https://www.hnt.com.br/policia/homem-assassinado-a-tiros-intermediou-morte-de-advogado/205487				

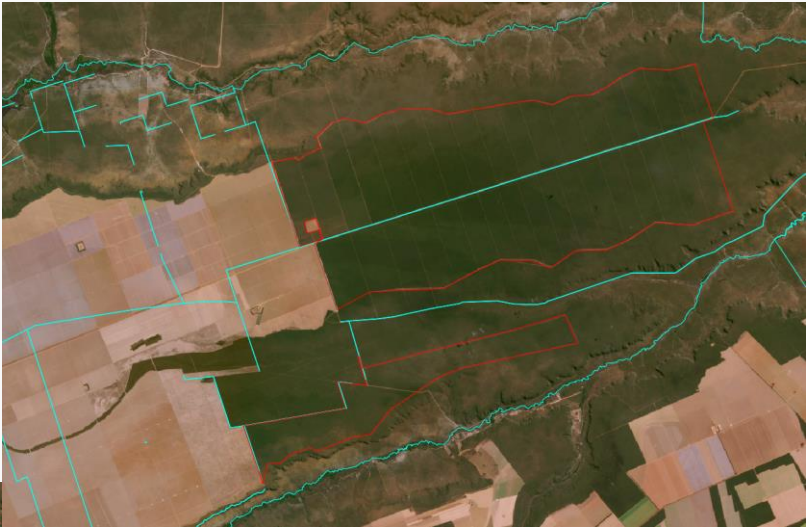

Property		
Fazenda Canadá		
Colniza, Mato Grosso		Amazon biome
CAR:	MT-5103254-A5B0445043AC4CB5A99C976F0472E6AB, MT-5103254-82B7528DF03A4AA6AAE7312015BF7B29, MT-5103254-26C41DFA2F36433DB3CC67CF62C83ADE	SIGEF/SNCI: 9011211109062
Area property (ha):	7,784	Coordinates property: -61.27317, -9.04012
Cleared Area		
Coordinates clearance:	-61.22677, -9.05716	
487 hectares	period clearance: Jan to Apr 2022	
- fires alerts		
Inside Forest Code's protected areas:	Yes	487 ha inside declared Legal Reserve and APP
Type of vegetation:	Open Sub-mountainous Forest	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)		
Jan 2022		
		
Apr 2022		
		
Source: Imagery ©2022 Planet Labs Inc.		

Environmental fines and embargoes				
Embargoes:		No	-	
Environmental fines:	Yes	25 environmental fines linked to the company Cidemad and Tradelumber. Sell timber without the certificate of origin: 5 in Colniza - MT (2007, 2009, 2012, 2017), 1 in Várzea Grande - MT (2005), 7 in Machadinho D'Oeste - RO (2003, 2005, 2006), 2 in Vilhena - RO (2008), 1 in Ariquemes - RO (2005), 3 Itajaí - SC (2008, 2019), 1 in Paranaguá - PR (2018), 2 in Manaus - AM (2018); Interfere on timber control operations: 1 in Colniza (2017), 1 in Paranaguá - PR (2008), 2 in Santana do Livramento - RS (2012)		BRL 1,150,000
Ownership and other linked properties				
Ownership:		Cícero Emmanuel Durski Santos		
Company group:		Cidemad - Indústria, Comércio e Exportação de Madeiras (Colniza - MT); Tradelumber (Machadinho D'Oeste - RO)		
Linked properties:		Other 3 properties in Colniza (MT), totaling 4,445 ha: Fazenda Jacarandá (490 ha), Fazenda Xangai (2,650 ha), and Fazenda Toronto (1,305 ha)		
Supply chain links				
Main Commodities		Beef and Timber		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	Medium	Marfrig, Miverna, JBS
Soy	Main exporters (municipality)	[Domestic Consumption (100%)]		
	Warehouses (50 km radius)	No warehouses in a radius of 50km from the property		
	Supply chain links & details:	-		
Beef	Main traders (municipality)	JBS (34%), Marfrig (32%), Minerva (16%), others (18%)		
	Slaughterhouses (sourcing from the municipality)	Supplied cattle to 23 slaughterhouses, e.g.; 3 JBS (Juina - MT, Alta Floresta - MT, Juara - MT), 1 Marfrig (Tangará da Serra - MT)		
	Supply chain links & details:	A linked property, Fazenda Jacarandá (same ownership) (Colniza - MT), indirectly supplied: Marfrig (Paranatinga - MT), through the property Fazenda Mata Azul (different ownership) (Pedra Preta - MT) in 2018; Minerva (Várzea Grande - MT) and JBS (Pedra Preta - MT), through Fazenda Cordeiro (different ownership) (São José do Povo - MT), in 2018 and 2019. A linked property, Fazenda Lagoa Dourada (Machadinho D'Oeste-RO) directly supplied JBS (São Miguel do Guaporé - RO) in 2020 and 2021		
Other supply chain links and details:		-		
General comments				
Cidemad is a timber exporter operating in Mato Grosso and Rondônia states (1). Cidemad exported timber to the USA in 2017 with a suspicious link to a Brazilian justice fugitive, Valdelir João de Souza (2), suspect of the murdering of 9 rural workers in Colniza in 2017, a crime known as the "Colniza Massacre" (3). Customs records show several shipments from Cidemad in Rondônia to the United States in the past two years (4). Cícero Durski is a member of a traditional family of loggers with operations in Mato Grosso, Rondônia, and Paraná (5).				
(1) http://www.cidemad.com.br/				
(2) https://racismoambiental.net.br/2017/07/12/suspeito-de-articular-massacre-em-colniza-exporta-foragido-madeira-para-os-eua/				
(3) https://mst.org.br/2022/04/19/massacre-de-colniza-mst-cinco-anos-de-impunidade/				
(4) Custom undisclosed data				
(5) https://flo.uri.sh/visualisation/8013374/embed				

Property			
Fazenda São João da Boa Vista I, II, III			
Canabrava do Norte, Mato Grosso		Amazon biome	
CAR:	MT-5102694-E8FF6A0F964F440385FD8B28856C824F	SIGEF/SNCI:	9010830062899
Area property (ha): 13,102		Coordinates property: -52.11143, -11.07375	
Cleared Area			
Coordinates clearance:		-52.15731, -11.10202	
430	hectares	period clearance: Jan to Mar 2022	
71	fires alerts		
Inside Forest Code's protected areas: Yes		430 ha inside declared Legal Reserve	
Type of vegetation:	Seasonal Semidecidual Sub-mountainous Forest	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)			
Jan 2022			
			
Source: Imagery ©2022 Planet Labs Inc.			
March 2022			
			
Source: Imagery ©2022 Planet Labs Inc.			

Case Study 9

Environmental fines and embargoes				
Embargoes:	Yes	1 embargo for illegal clearance of 25 ha of native vegetation in Fazenda Planalto da Serra (Confresa - MT), in 2016 and 2019		
Environmental fines:	No	-	-	
Ownership and other linked properties				
Ownership:	Thalyta Campos Simionatto Carrijo; Leornado Borges Carrijo			
Company group:	Agropecuária São João do Liberdade (Canabrava do Norte - MT), Agrícola Forte (Mineiros - GO, Alto Taquari - MT, Confresa - MT), Ponto Forte Comércio e Representação de Insumos Agropecuários (Mineiros - GO, Alto Taquari - MT, Confresa - MT), Britazil Comércio de Brita (Confresa - MT)			
Linked properties:	Other 6 properties, totaling 5,360 ha. In Confresa (MT): Fazenda Planalto da Serra (1,230 ha). In São José do Xingu (MT): Fazenda Terra Boa (265 ha), Fazenda Ituiutaba (700 ha), Fazenda Conquista (1,600 ha), Fazenda Nova Santa Maria (1,500 ha). In Porto Alegre do Norte: Fazenda São Sebastião (65 ha)			
Supply chain links				
Main Commodities		Beef and Soy		
Confirmed supply chain link, level of certainty, and soy trader/ beef processor		Yes	High / Medium	Louis Dreyfus, Bunge / JBS, Marfrig
Soy	Main exporters (municipality)	Bunge (100%)		
	Warehouses (50 km radius)	16 warehouses, e.g.: 2 Cargill, 1 Bunge, 1 Amaggi		
	Supply chain links & details:	Supplied soy to Louis Dreyfus in Confresa - MT in 2019 (1)		
Beef	Main traders (municipality)	JBS (87%), Marfrig (5%), others (8%)		
	Slaughterhouses (sourcing from the municipality)	Supplied cattle to 5 slaughterhouses, e.g.: 2 JBS (Confresa - MT, Água Boa - MT), 1 Marfrig (Nova Xavantina - MT)		
	Supply chain links & details:	Indirect links to JBS (Confresa - MT) and Marfrig (Nova Xavantina - MT), through Fazenda da Serra - same ownership (Confresa - MT), Fazenda Nossa Senhora Rosa Mística (Vila Rica - MT) and Fazenda Santa Maria do Xingu (São José do Xingu - MT)		
Other supply chain links and details:		In the last 4 years (2018-2021), owners' production of corn in Mato Grosso (Canabrava do Norte, Vila Rica, Porto Alegre do Norte, and Confresa) was covered by agricultural insurances (2). In 2019, supplied corn to Louis Dreyfus (Confresa - MT) and to Bunge (Porto Alegre do Norte - MT) (1)		
General comments				
In October 2021, Leonardo Borges Carrijo committed to recover the degraded permanent preservation area (APP) of Fazenda Planalto da Serra (Confresa - MT), under a legal agreement with the Environmental Agency of Mato Grosso (Sema) (3)				
(1) undisclosed data (2) https://www.gov.br/agricultura/pt-br/assuntos/riscos-seguro/seguro-rural/produtores-beneficiados/mato-grosso-atualizado-dez2021.xlsx/@download/file/Mato%20Grosso-atualizado-dez2021.xlsx (3) http://www.ager.mt.gov.br/documents/5177949/0/Convoca%C3%A7%C3%A3o+81%C2%AA+Sess%C3%A3o+Regulat%C3%B3rio+-+26.10.2021.pdf/1ba5de73-66d9-97ac-3344-23d328954aa0				

Property	
Condomínio Agrícola Estrondo	
Formosa do Rio Preto, Bahia	Cerrado biome
CAR: BA-2911105-D4E858AC04AA4190A8D78AC034E73344	SIGEF/SNCI: 9321080049874; 600674749; 9261160132265; 600675044; 9321080048550; 600675397
Area property (ha): 80,000	Coordinates property: -43.03118, -11.26460
Cleared Area	
Coordinates clearance:	-45.72571, -11.15132
24,130 hectares	period clearance: July 2021 to April 2022
462 fires alerts	
Inside Forest Code's protected areas: No	- -
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): -	
Before & After Imagery: limits of the property (blue) limits of the cleared area (red)	
July 2021	
	April 2022
Source: Imagery ©2021 Planet Labs Inc.	

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				
Ownership:	Delfin Rio S/A - Crédito Imobiliário			
Company group:	Delfin Rio S/A - Crédito Imobiliário (Agronegócio Condomínio Cachoeira do 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	Medium	Bunge, Cargill
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 traders (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				
<p>This is an ongoing deforestation case reported also in the RMD 1 (February 2022). 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 (2). The case of Condomínio Estrondo is well reported by Mongabay (3, 4), De Olho nos Ruralistas (5), Repórter Brasil (2), Greenpeace (6, 7) and the local NGO 10envolvimento (8).</p> <p>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 (9). According to local sources, violence against the communities has increased after the judicial defeat of Condomínio Agrícola Estrondo (10). Although Cargill reported not sourcing soy from Fazenda Condomínio Estrondo in a reply to the RDM 1, a Reporter's Brasil analysis indirectly links Bunge and Cargill to soy sourcing from the property (11).</p>				
<p>(1) https://www.aidenvironment.org/2022/02/22/realtime-deforestation-monitoring-supply-chain-transparency/</p> <p>(2) https://reporterbrasil.org.br/estrondo/</p> <p>(3) https://news.mongabay.com/2020/01/communities-in-brazilian-cerrado-besieged-by-global-demand-for-soy/</p> <p>(4) https://brasil.mongabay.com/2019/11/investigacao-revela-esquema-de-corrupcao-entre-juizes-e-ruralistas-no-oeste-da-bahia/</p> <p>(5) https://deolhonosruralistas.com.br/2019/02/12/da-vida-em-extase-das-socialites-levinsohn-a-violencia-no-campo-no-oeste-da-bahia/</p> <p>(6) https://www.greenpeace.org/brasil/blog/cultivando-violencia-licenca-para-desmatar</p> <p>(7) https://www.greenpeace.org/brasil/blog/exterminador-do-futuro-condominio-estrondo-inicia-desmatamento-gigante-no-cerrado/</p> <p>(8) 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</p> <p>(9) https://www.aatr.org.br/post/seguran%C3%A7a-da-fazenda-estrondo-invade-territ%C3%B3rio-e-atira-contrageraizeiros-em-formosa-do-rio-preto</p> <p>(10) https://www.brasildefato.com.br/2020/07/10/fazenda-simbolo-de-grilagem-sofre-derrota-emblematica-e-perde-area-para-geraizeiros</p> <p>(11) https://reporterbrasil.org.br/2019/12/bunge-e-cargill-compram-soja-contaminada-por-violencia-e-desmatamento-do-agronegocio-estrondo-diz-greenpeace</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 from the Ministry of Agriculture.

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