

ixth year of the most comprehensive X-ray of deforestation across all Brazilian biomes, with analyses for different territorial limits and land tenure categories.

Deforestation and native vegetation conversion alerts, validated and refined based on **high-resolution imagery**.

Assessment of indications of illegality and overview of **enforcement actions** carried out by public authorities to control and reduce deforestation in the country.

ACCESS THE FULL REPORT AND THE DATA PLATFORM AT:

http://alerta.mapbiomas.org

DEFORESTATION IN BRAZIL PER BIOME

MAPBIOMAS ALERTA 2

IN 2024

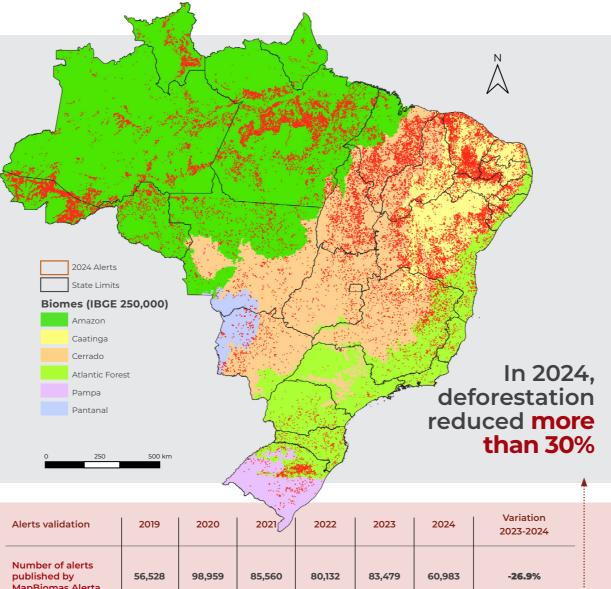
The **Amazon** and **Cerrado** biomes account for over 83% of the deforested area in the country.

The **Cerrado** remains the biome with the largest deforested area, totaling **652,197** hectares.

There was a reduction in the deforested area for all biomes

in the country, with the exception of the Atlantic Forest*, which remained stable after a significant decrease in the previous year.

In the **Pantanal**, there was the **largest** proportional reduction in the deforested area, a decrease of 59% compared to 2023.

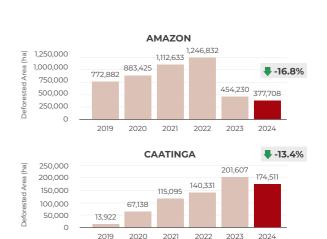


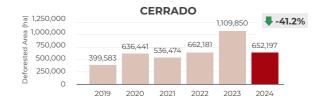


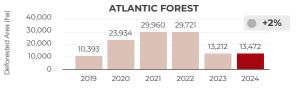
Equivalent to the **area** of South Korea

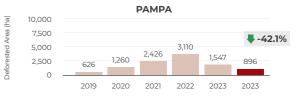


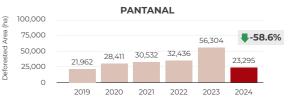
Alerts validation	2019	2020	2021	2022	2023	2024	Variation 2023-2024
Number of alerts published by MapBiomas Alerta	56,528	98,959	85,560	80,132	83,479	60,983	-26.9%
Total converted area (ha)	1,219,372	1,640,611	1,827,129	2,114,611	1,836,749	1,242,079	-32.4%



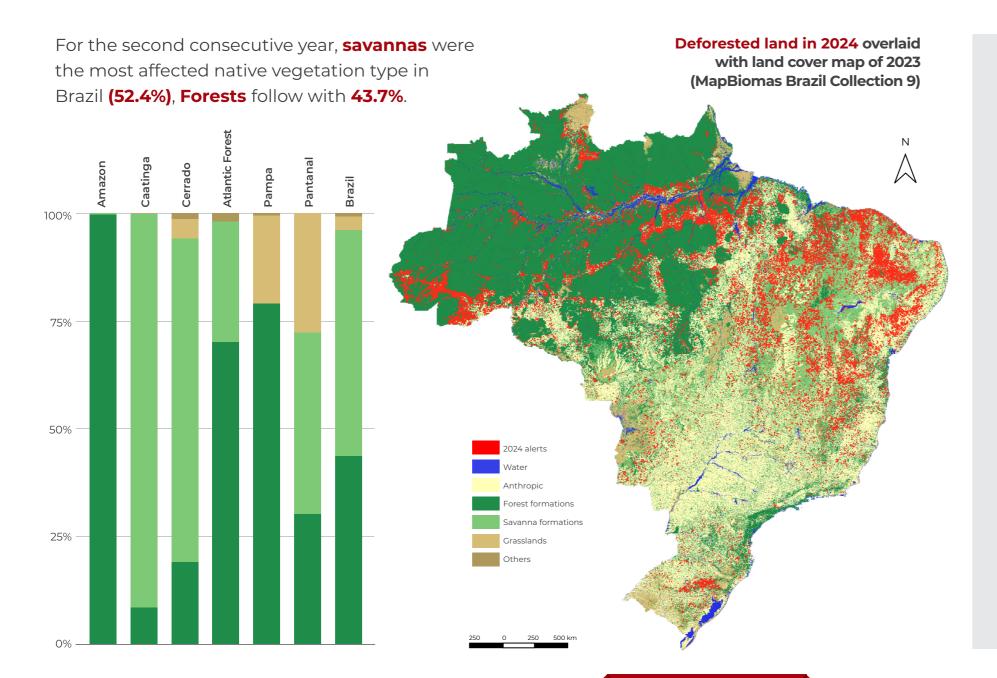








NATIVE VEGETATION TYPES MOST CONVERTED



European Union Deforestation Regulation (EUDR)

The new EUDR restricts the entry into the European market of products originating from forests deforested after December 31, 2020.

More than

5.5 million hectares of deforestation have been identified after December 31, 2020*.

This restriction could affect approximately

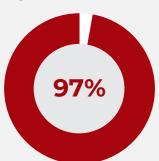
310,000 rural properties (4% of the 7.8 million properties registered in the CAR).

*This analysis was conducted by applying an alert filter with images from before (intact vegetation) with a date after 01/01/2021 and considering the forest classes of MapBiomas Brazil Land Use and Land Cover (forest and savanna formations).

MAPBIOMAS 4

DEFORESTATION DRIVERS

Deforestation driven by **Agriculture** accounts for

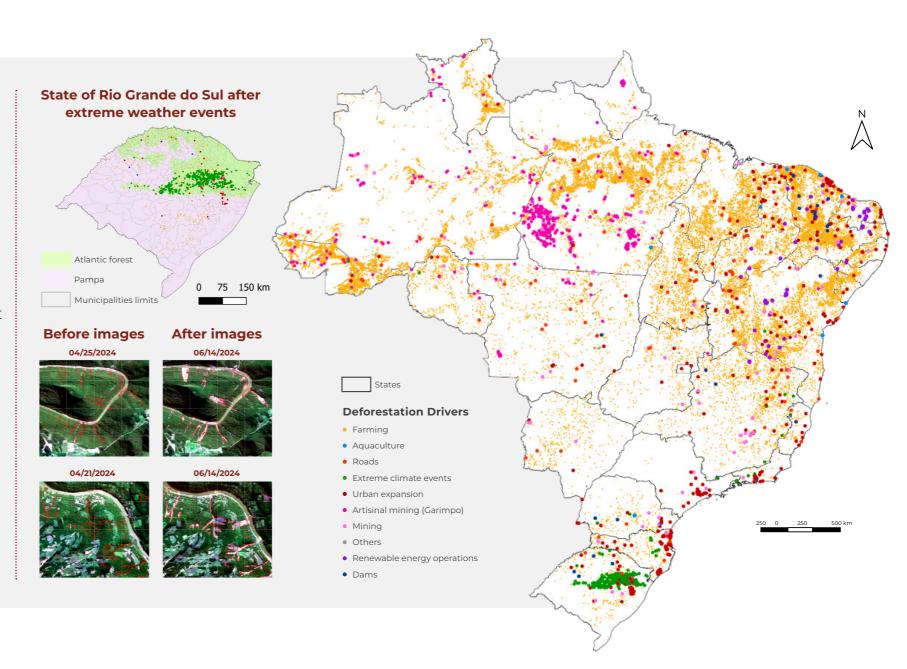


of all native vegetation loss in Brazil over the last six years.

The **Cerrado** is responsible for 45% of the deforested area related to urban expasion in 2024.

Between April and May 2024, extreme weather events in the state of Rio Grande do Sul resulted in significant losses of native vegetation in the state, 627 alerts were recorded, totaling **2,805,8 hectares** of lost natural areas.

Of the deforestation associated with renewable energy projects since 2019, 93% is concentrated in the **Caatinga**.



CRITICAL AREAS OF DEFORESTATION





LEGAL AMAZON

has lost 6,647,146 hectares of native

vegetation. In 2024, the loss was

700,063 hectares, a



reduction compared to 2023.

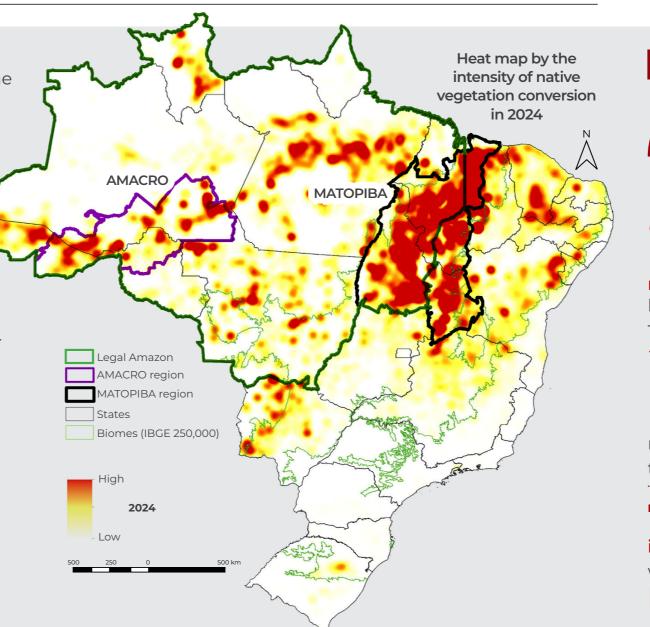
For the second consecutive year,

AMACRO

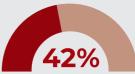
recorded a decrease in the deforested area. In 2024, there was a



reduction in deforestation compared to 2023, with 5,753 alerts totaling 89,826 hectares.



IN 2024



of all native vegetation loss in the country occurred in the

MATOPIBA

region, totaling 516,529 hectares.

This represents a



reduction compared to 2023.

75% of deforestation in the Cerrado is located within the boundaries of **MATOPIBA**

DEFORESTATION BY STATE

MAPBIOMAS ALERTA 6

70%

RS

71%

GO

PR, ES, DF

+60%

54.2%

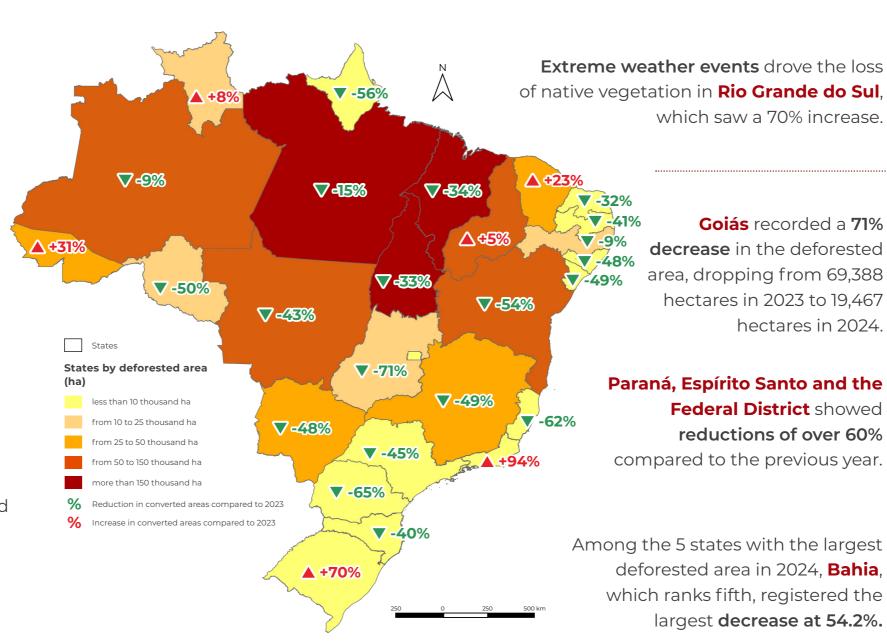
ВА

The four states of MATOPIBA are among the 5 Brazilian states with the highest deforestation rates in 2024. Together with Pará, they account for over 65% of the deforested area in Brazil.

Pará is the state with the largest accumulated deforested area from 2019 to 2024, with approximately 2 million hectares cleared.

31% AC

In the **Amazon**, most states showed a decrease in the deforested area. However, **Acre** registered a **31**% increase.



DEFORESTATION BY STATE



Maranhão

leads the ranking for the second consecutive year, even with a

34.3% reduction

in the deforested area, totaling

218,298.4 ha of native vegetation lost in 2024.

Converted Area in hectares										
State	Area of native vegetation in 2023*	2019	2020	2021	2022	2023	2024	Rank 2023	Rank 2024	Participation 2024
Maranhão	20,129,241.5	81,203.8	232,573.8	185,226.9	171,500.2	332,092.8	218,298.4	1	1 •	17.6%
Pará	96,164,070.3	300,256.0	385,850.5	469,622.0	487,421.7	184,673.6	156,990.0	4	2 🛊	12.6%
Tocantins	16,996,379.2	99,160.4	109,308.3	65,537.6	82,871.4	230,255.2	153,310.5	3	3 •	12.3%
Piauí	20,258,818.8	42,022.5	77,034.7	69,683.9	148,281.7	135,984.6	142,871.2	6	4 👚	11.5%
Bahia	29,711,551.2	63,633.8	113,063.7	154,404.3	227,779.7	290,808.8	133,334.9	2	5 ₩	10.7%
Mato Grosso	54,514,235.3	201,507.1	200,305.2	207,761.9	242,572.2	162,668.4	92,553.6	5	6 ₩	7.5%
Amazonas	147,701,807.3	126,243.6	133,685.4	214,303.8	280,827.5	87,761.6	79,582.8	7	7	6.4%
Mato Grosso do Sul	14,175,689.4	33,946.1	54,148.8	57,627.6	50,234.1	87,108.4	45,424.2	8	8 •	3.7%
Ceará	10,129,131.0	848.7	8,859.7	20,473.9	23,194.7	32,485.9	40,108.3	12	9 🛊	3.2%
Minas Gerais	23,146,100.1	26,283.3	45,815.4	51,784.9	50,346.0	75,044.7	38,165.6	9	10 🖣	3.1%
Acre	13,868,176.0	57,237.7	58,057.7	75,751.9	94,691.6	28,707.4	37,693.1	13	11 🛊	3.0%
Roraima	20,831,142.4	24,184.6	23,149.3	23,669.1	25,647.9	21,792.1	23,555.6	14	12 👚	1.9%
Rondônia	13,985,876.7	122,724.8	119,756.3	146,515.5	145,390.6	41,747.0	20,659.4	11	13 🖣	1.7%
Goiás	11,885,549.4	33,698.2	54,450.1	40,670.2	30,868.8	69,388.7	19,467.0	10	14 🖣	1.6%
Pernambuco	5,259,076.6	138.2	3,768.9	14,424.0	21,882.6	16,236.0	14,703.1	15	15 •	1.2%
Paraíba	2,896,259.3	11.2	2,750.7	6,834.3	6,420.7	13,260.2	7,733.6	16	16 •	0.6%
Rio Grande do Norte	2,501,924.4	76.4	3,965.5	6,597.4	3,502.2	9,134.5	6,130.3	17	17	0.5%
Rio Grande do Sul	12,142,979.7	1,119.3	2,148.2	3,748.1	5,218.2	2,343.2	3,998.6	20	18 👚	0.3%
Alagoas	629,411.4	59.7	952.0	918.5	3,070.6	5,355.5	2,762.8	18	19 🖣	0.2%
Sergipe	433,933.3	258.4	845.7	1,495.2	3,657.8	5,077.7	2,592.0	19	20 🖣	0.2%
Amapá	13,541,419.8	1,461.3	1,628.5	783.6	1,230.3	1,392.5	617.3	21	21 •	0.0%
Santa Catarina	4,321,165.7	487.1	1,760.7	1,470.8	2,189.3	754.9	453.4	23	22 👚	0.0%
Paraná	5,472,469.4	2,132.0	5,509.9	6,887.1	3,971.9	1,229.9	432.1	22	23 🖣	0.0%
Rio de Janeiro	1,402,974.8	125.3	321.1	160.9	495.0	163.4	317.4	27	24 👚	0.0%
São Paulo	5,434,013.2	369.8	530.4	535.4	752.9	281.2	155.3	26	25 👚	0.0%
Espírito Santo	1,185,741.5	88.3	217.0	114.5	501.9	362.8	137.4	25	26 🖣	0.0%
Distrito Federal	274,155.4	94.6	153.3	125.3	89.6	638.4	31.4	24	27 🖣	0.0%
TOTAL (BRAZIL)	548,993,293.1	1,219,372.3	1,640,610.6	1,827,128.7	2,114,611.2	1,836,749.3	1,242,079.1			

*Source: MapBiomas - collection 9, 2023

DEFORESTATION BY MUNICIPALITY

Out of Brazil's 5,572 municipalities, 2,990 (54%) had at least one detected and validated deforestation event in 2024.

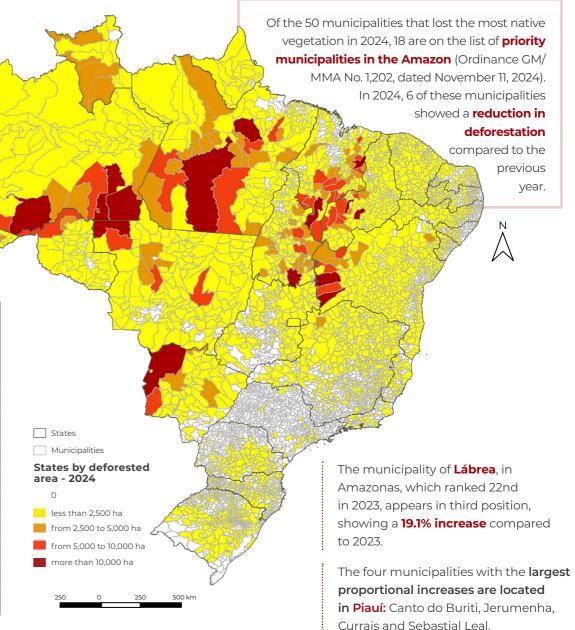
The 10 municipalities with the highest deforestation rates in 2024

together accounted for 10.2% of the total validated deforestation in the country.

Despite a reduction of over 50% in the deforested area, São Desidério (BA) and Balsas (MA) continue to occupy the top positions in the ranking.

10 municipalities with the largest deforested area in Brazil in 2024

Rank	STATE	Municipality	2019	2020	2021	2022	2023	2024	Variation 2023-2024
1	ВА	São Desidério	2,312.4	12,468.7	17,491.1	36,591.1	40,051.4	18,049.0	-54.9%
2	MA	Balsas	8,010.3	21,159.3	16,902.1	27,854.0	37,596.0	16,252.3	-56.8%
3	AM	Lábrea*	32,484.5	37,639.9	53,938.3	64,808.8	10,794.7	12,852.2	19.1%
4	PI	Sebastião Leal	124.4	8,054.6	5,613.7	19,984.9	4,305.8	12,407.1	188.1%
5	АМ	Novo Aripuanã*	18,137.5	10,803.7	17,432.2	29,873.7	8,833.6	12,094.4	36.9%
6	ТО	Paranã	5,362.0	5,812.7	4,985.0	3,988.4	14,746.3	11,772.2	-20.2%
7	MS	Corumbá	9,183.8	14,775.3	11,149.1	16,239.0	26,284.5	11,164.3	-57.5%
8	АМ	Apuí*	21,865.0	22,217.1	39,956.1	59,201.6	18,273.7	10,973.8	-39.9%
9	PA	Portel*	11,670.3	19,166.4	24,755.7	31,266.3	7,670.6	10,928.3	42.5%
10	МТ	Colniza*	18,364.4	19,806.0	24,683.1	36,100.0	9,447.2	10,716.5	13.4%



^{*} Municipalities presented in the list of priority municipalities in the Amazon according to Ordinance GM/MMA No. 1,202, of November 11, 2024.

In **2024**, the average deforested area per day in Brazil was 3,403 hectares - or **141.8 hectares per hour**.

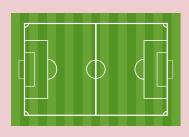
In the Cerrado alone, 1,786 hectares of native vegetation were lost per day.

In the **Amazon**, 1,035 hectares were lost per day, which is equivalent to about **7 trees per second**.

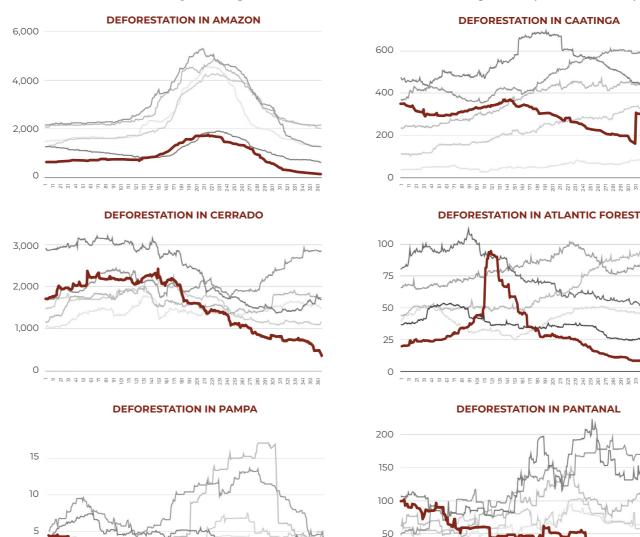
The day with the largest deforested area in 2024 was June 21st.- on that single day, an area equivalent to

3,542

soccer fields was deforested.



Distribution of deforestation by biome throughout the year - estimated deforested area per day in Brazil over the last six years (in hectares).*



In the Caatinga,
the period between
November 5th and 6th
stands out, marking
the beginning of the
largest deforestation
event recorded in
Brazil for the year.

The dynamics of the Atlantic Forest were impacted by the extreme weather events recorded in Rio Grande do Sul during the months of April and May.

* The alert area attributed to the days of the second half of 2024 shows slightly lower values than the actual figures, because deforestation from the beginning of 2025 (not considered in this report). for which pre-deforestation imagery may have been selected in the last months been accounted for. This uncounted fraction of the area will be distributed and added to the corresponding days of 2024 only in the next annual report.

DEFORESTATION IN PROTECTED AREAS - CONSERVATION UNITS (UCS)

57,930 hectares

hectares of native vegetation were lost within UCs in 2024, representing a

42.5% reduction

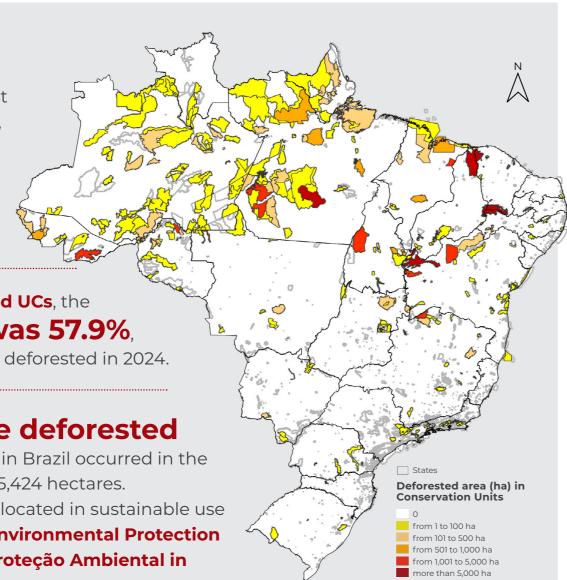
compared to 2023.

In Strictly Protected UCs, the reduction was 57.9%

with 4,577 hectares deforested in 2024.

43.9% of the deforested area within UCs in Brazil occurred in the Amazon, totaling 25,424 hectares.

Of this total, 45% is located in sustainable use UCs called APAs (Environmental Protection Areas / Áreas de Proteção Ambiental in Portuguese).



Deforested Area (hectares) in Conservation Units (UCs) in Brazil from 2019 to 2024.

UC category and level	2019	2020	2021	2022	2023	2024	Total	Variation 2023-2024
State level Strictly Protected	6,696	6,645	7,247	9,902	2,148	1,612	34,251	-24.92%
State level Sustainable Use	38,579	41,784	57,886	49,651	22,967	23,239	234,105	1.18%
State level Strictly Protected	13,792	20,198	26,721	30,084	8,723	2,952	102,470	-66.16%
State level Sustainable Use	88,170	98,750	113,137	124,121	64,203	29,449	517,831	-54.13%

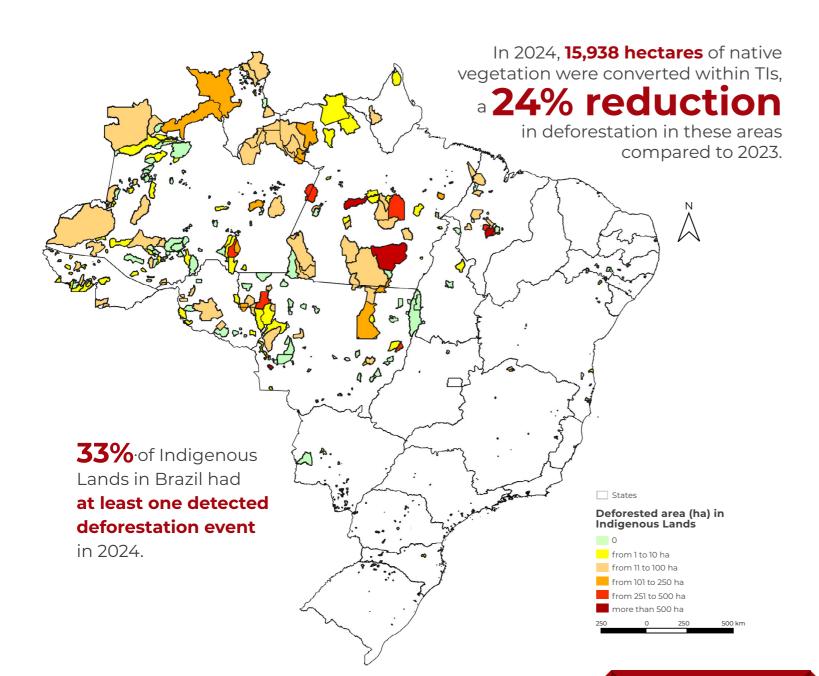
The APA Triunfo do Xingu (PA), in the Amazon, was the UC with the largest deforested area in Brazil, despite a 31.7% reduction compared to 2023, when it ranked third with 9,391 hectares.

31.7%

RANK	NAME OF THE UC IN THE FEDERAL DATA BASE SNUC	UF	NUMBER OF ALERTS IN 2024	DEFORESTED AREA (HA) IN 2024
1	APA Triunfo do Xingu (0000.15.1039)	PA	186	6,413
2	APA Serra da Ibiapaba (0000.00.0029)	CE, PI	862	6,145
3	APA da Chapada do Araripe (0000.00.0008)	CE, PE, PI	652	5,965
4	APA Serra do Rio Preto (0000.29.1016)	BA	102	5,328
5	APA do Tapajós (0000.00.0268)	PA	261	3,421

DEFORESTATION IN INDIGENOUS TERRITORIES (TIS)





Deforested Area (hectares) in Indigenous Lands (TIs)

in Brazil from 2019 to 2024.

Deforestation in TIs compared to the total	2019	2020	2021	2022	2023	2024	Total	Variação 2023- 2024
Deforested area in TIs (ha)	40,354	39,075	35,375	31,389	21,039	15,938	183,170	-24.2%
Total deforested area in Brazil (ha)	1,219,372	1,640,611	1,827,129	2,114,611	1,836,749	1,242,079	9,880,551	-32.4%
% of deforested area in TIs in Brazil	3.3%	2.4%	1.9%	1.5%	1.1%	1.3%	1.9%	

RANK	NAME OF THE TIS IN THE FEDERAL DATABASE FUNAI	NUMBER OF ALERTS IN 2024	DEFORESTED AREA (HA) IN 2024		
1	Porquinhos dos Canela-Apanjekra (36602)	23	6,208		
2	Cachoeira Seca (7601)	228	1,463		
3	Sararé (42101)	62	962		
4	Kayapó (23001)	409	689		
5	Wedezé (73601)	1	402		

The Porquinhos dos Canela-Apanjekra (MA), Indigenous Land (MA) registered a 125% **increase** in the area of native vegetation loss compared to 2023 and remained in the top position of the ranking.

125%

DEFORESTATION IN PRIVATE LANDS REGISTERED ON CAR*

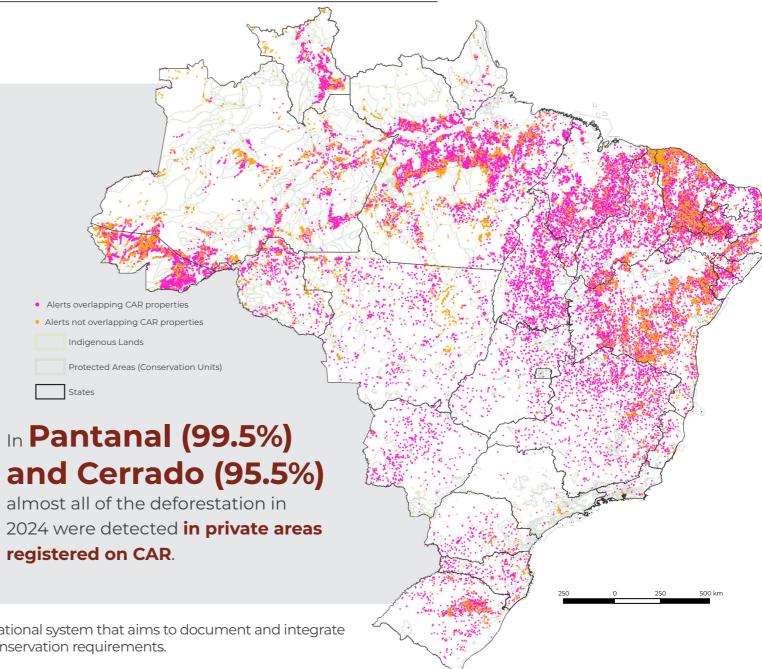


0.8% of the properties registered on the CAR* have some record of deforestation in 2024. However, these properties account for



Out of the total of **62,508 properties** registered on CAR with validated deforestation in 2024, 46.3% already had records of deforestation in previous years

38.8% of the properties on CAR with deforestation alerts are concentrated in the Amazon

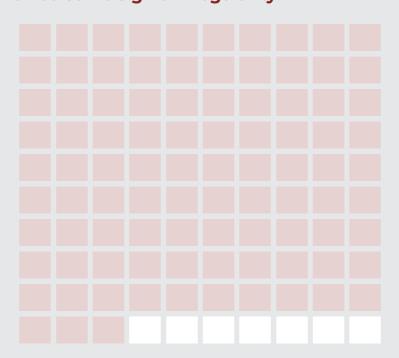


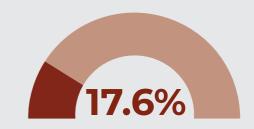
*CAR refers to the Cadastro Ambiental Rural (Rural Environmental Registry). It's a national system that aims to document and integrate all information on rural properties, ensuring compliance with natural vegetation conservation requirements.

EVALUATED CRITERIA:

- (i) whether there is overlap with areas authorized for the suppression of native vegetation;
- (ii) whether there is no overlap with areas protected by Law (Strict Protection **Conservation Units and Indigenous** Lands);
- (iii) whether there is no overlap with protected areas within rural properties (Legal Reserve and Permanent Preservation Area); and
- (iv) whether there is no overlap with **embargoed** areas where deforesteation occurred.

For the year 2024, 4,481 alerts were identified (7% of the total) with no indication of irregularity or illegality in Brazil, which indicates that **93% of the alerts** showed some sign of irregularity.





From 2019 to 2024, 17,931 deforestation events, totaling 1,741,370 hectares, showed no signs of illegality. This means that 17.6% of all deforested area in Brazil over the last six years shows no indication of illegality or irregularity.

DEFORESTATION IN LEGAL RESERVES (RLs)

Over the past six years, Brazil lost 1,962,575 hectares of native vegetation within LR. This corresponds to 19.9% of all deforested area in the country during this period.

In 2024, deforestation overlapping with LR (Legal Reserves) decreased by 23% compared to 2023. And all biomes showed a reduction in deforestation within LR.



AUTHORIZED AND SUPERVISED DEFORESTATION



up to 40% between 40% and 70% above 70%

Over the past six years, 54% of all deforested area in the country spatially overlaps with an authorization and/ or enforcemente action.

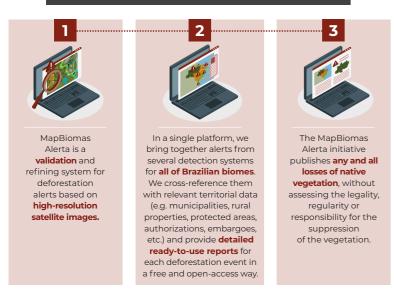
The three states with the highest proportion of authorized deforestation were: **TO** (59.6%), **BA** (54.9%) and MS (51%).

In the last three years, ES, MT, TO and GO maintained their rates of deforested area overlapping with authorizations and/or enforcement actions above 70%.

STATE	Deforested area (ha)	Area of alerts that cross federal or state authorization (ha)	% of area with federal or state authorization	Area of alerts that intersect with federal or state inspection action (ha)	% of area subject to federal or state inspection action	% of the area of alerts that intersect with authorizations and/or inspection actions
AC	352,139.50	14,061.80	4.00%	95,416.50	27.10%	29.90%
AL	13,119.20	524.2	4.00%	6,093.70	46.50%	48.90%
AM	922,404.60	7,603.40	0.80%	567,278.40	61.50%	61.80%
AP	7,113.30	2,239.70	31.50%	1,578.60	22.20%	50.10%
ВА	983,025.20	539,303.90	54.90%	139,572.90	14.20%	60.30%
CE	125,971.20	18,722.00	14.90%	11,445.00	9.10%	22.60%
DF	1,132.60	510.3	45.10%	249.2	22.00%	63.20%
ES	1,421.90	568.4	40.00%	1,408.50	99.10%	99.90%
GO	248,543.00	26,821.90	10.80%	142,540.30	57.40%	64.30%
MA	1,220,895.80	385,982.10	31.60%	54,939.30	4.50%	35.30%
MG	287,439.90	53,359.40	18.60%	148,727.30	51.70%	61.20%
MS	328,489.10	167,507.30	51.00%	8,555.10	2.60%	52.50%
MT	1,107,368.50	337,030.10	30.40%	654,723.00	59.10%	82.60%
PA	1,984,813.80	22,835.80	1.20%	929,172.90	46.80%	47.40%
РВ	37,010.70	3,676.60	9.90%	2,748.60	7.40%	15.80%
PE	71,152.70	3,889.00	5.50%	2,525.30	3.60%	9.00%
PI	615,878.60	218,963.60	35.60%	184,721.70	30.00%	57.50%
PR	20,162.90	899	4.50%	16,578.00	82.20%	85.40%
RJ	1,583.10	84.3	5.30%	723.8	45.70%	48.10%
RN	29,406.40	9,789.20	33.30%	86.5	0.30%	33.40%
RO	596,793.60	13,787.50	2.30%	246,503.10	41.30%	42.90%
RR	141,998.70	41,620.60	29.3 %	35,016.00	24.70%	49.20%
RS	18,575.60	2,928.70	15.80%	8,940.00	48.10%	58.30%
sc	7,116.40	589.2	8.30%	304.1	4.30%	12.20%
SE	13,926.80	1,541.50	11.10%	3,558.10	25.60%	31.90%
SP	2,625.00	346.9	13.20%	1,095.20	41.70%	54.10%
то	740,443.30	441,376.10	59.60%	100,966.50	13.60%	67.00%
BRAZIL	9,880,551.20	2,316,562.40	23.50%	3,365,467.60	34.10%	54.00%

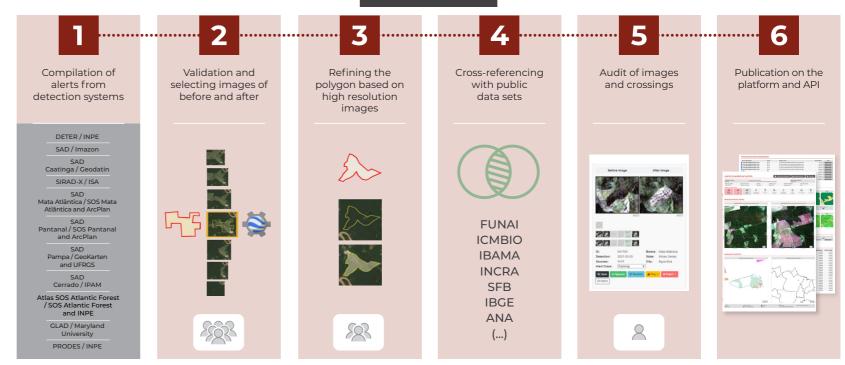
ABOUT MAPBIOMAS ALERTA

WHAT IS MAPBIOMAS ALERTA





PROCESS



HOW TO REFERENCE

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