Amapá, Brazil

Jurisdictional indicators brief



State area:	$142,829 \text{ km}^2$ (1.68% of Brazil)
Original forest area:	$113,107 \text{ km}^2$
Current forest area (2019):	110,340 km ² (77.3% of Amapá)
Yearly deforestation (2019)	32 km^2
Yearly deforestation rate (2019)	0.03%
Interannual deforestation change	+33%
(2018-2019)	
Accumulated deforestation (2001-2019):	640 km^2
Protected conservation areas:	$90,776 \text{ km}^2 (63.6\% \text{ of Amapá})$
Carbon stocks (2015):	1,384 millions tons (above ground biomass)
Representative crops (2018):	Cassava (105,648 tons); Soybean (53,770 tons); Bananas and plantains
	(14,860 tons)
Value of agricultural production (2016):	\$92,213,189 USD
More on jurisdictional sustainability	State of jurisdictional sustainability

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Forest and people

In 2019, the estimated area of tropical forest in the state of Amapá was $110,340 \text{ km}^2$, equivalent to 77.3% of the state's total area, and to 3.5% of the tropical forest remaining in the nine states of the Brazilian legal Amazon. The total accumulated forest lost during the period 2004-2019 was 640 km², equivalent to 0.6% of the forest area remaining in 2004. Amapá concentrated about 3.7% of the carbon reserves stored in the biomass of the Brazilian tropical forest (about 1,384 mt C as of 2019).

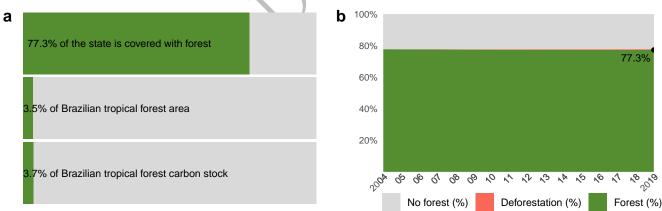


Figure 1: a) forest share and b) transition of forest to deforestation over the last years

There were 0.8 million people living in Amapá as of 2020, distributed in 16 municipalities, with 0.5 million people living in the capital city of Macapá. The state has formally designated conservation areas and indigenous territories, which respectively represent 64% and 8% of the state. There were an estimated 7,344 indigenous people living in the state in 2010 (see Figure 2).

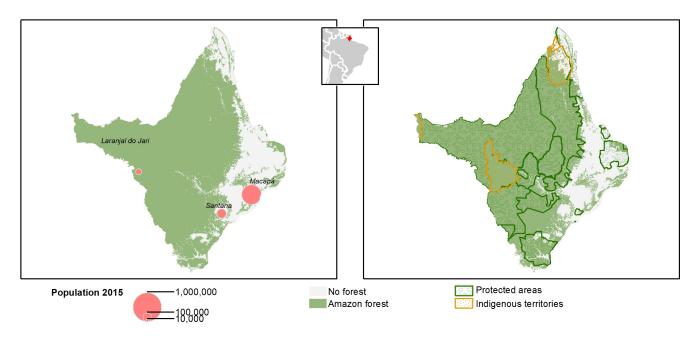


Figure 2: Map of most populated places (> 40,000 people) and indigenous and protected areas in Amapá

Deforestation

The state of Amapá has traditionally registered low defore station rates. After reaching a maximum of 100 km² in 2008, Amapá progressively reduced its yearly defore station, keeping it under 31 km² after 2012. The state reached the lowest defore station in 2001 with 7 km². The defore station in Amapá in 2019 was 32 km² representing an interannual decrease of 33% with respect to 2018. With this reduction in 2019, Amapá presented the best forest conservation performance among the Brazilian states concentrating less than 0.32% of the total defore station of the legal Amazon, and the smallest defore station rate (0.03%).

The state's current deforestation is 100% above the reference baseline 1996-2005, and 3% above the reference baseline 1996-2015 (see Figure 3).

88% of the deforestation is located in the five most affected municipalities in the state (see Figure 4). The municipality of Oiapoque consistently registered the largest loss of tropical forest over the last years, reaching a maximum of 40 km² lost in 2001. In 2019 the deforestation in Oiapoque was 7 km².

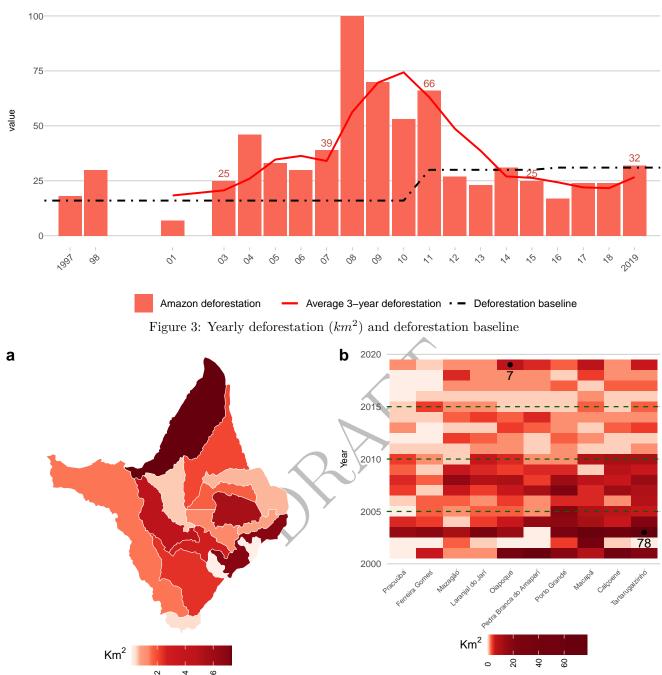
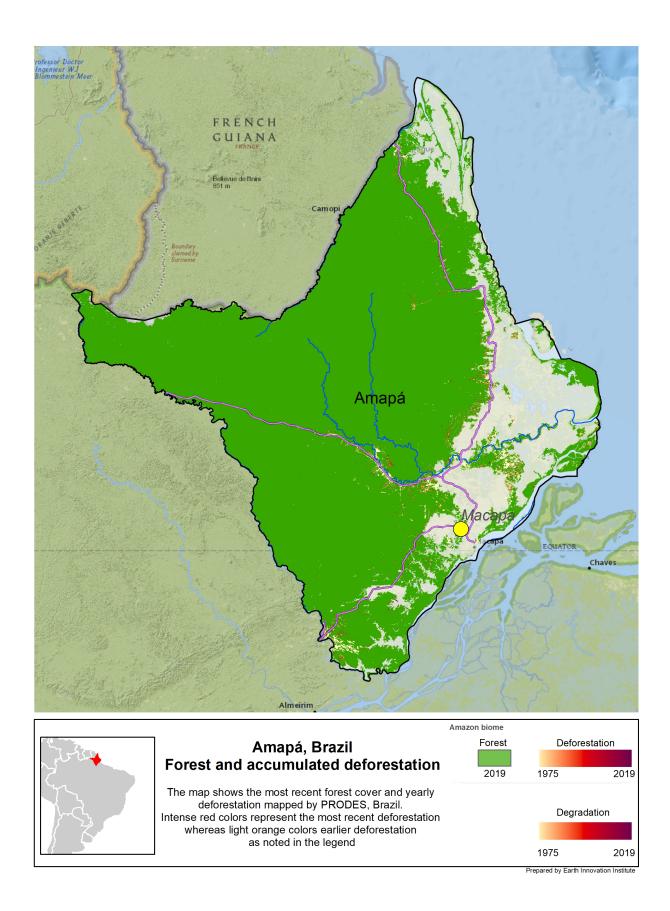


Figure 4: a) Yearly defore station by municipalities in 2019 b) Yearly defore station in top 10 most affected municipalities (km^2)

Year	Forest (km^2)	Deforestation	Defore station rate $(\%)$	Annual variation $(\%)$
2004	111,024	46	0.04	84
2005	110,922	33	0.03	-28.3
2006	$110,\!862$	30	0.03	-9.1
2007	110,814	39	0.04	30
2008	110,721	100	0.09	156.4
2009	$110,\!622$	70	0.06	-30
2010	$110,\!575$		0.05	-24.3
2011	$110,\!504$	66	0.06	24.5
2012	$110,\!488$	27	0.02	-59.1
2013	110,469	23	0.02	-14.8
2014	$110,\!445$	31	0.03	34.8
2015	$110,\!416$	25	0.02	-19.4
2016	$110,\!397$	17	0.02	-32
2017	$110,\!385$	24	0.02	41.2
2018	110,366	24	0.02	0
2019	$110,\!340$	32	0.03	33.3

Table 1: Forest and defore station indicators in the state of Amapá



Burned area

According to the NASA-USGS analysis of MODIS satellite observations, the average yearly burned area in Amapá was 806 km² for the period 2010-2020. This figure includes burned areas due to fires in forest, savannahs and opened agricultural areas. The burned area in 2019 was 871 km² and the worst year in the last decade was 2015 with 1,585 km² burned. In most years, the months of November and October represented the peak of the fire season (see Figure 5).

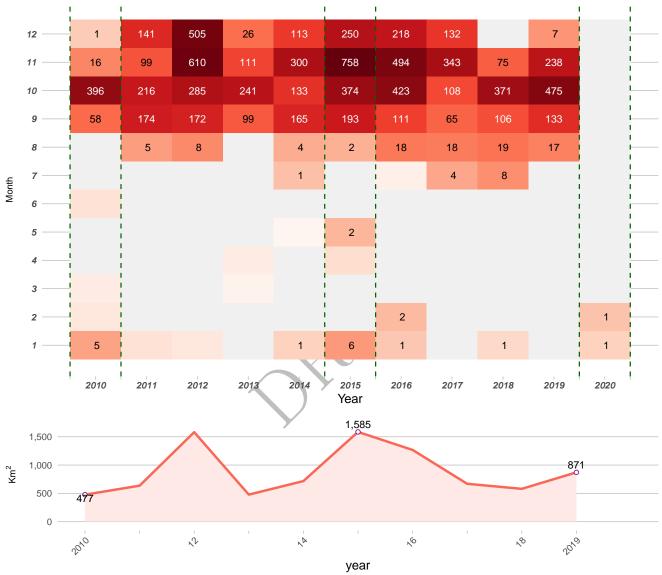


Figure 5: Monthly burned area since 2010 (km²). Source: EII analysis of MODIS-MCD64

Emissions from deforestation

The accumulated emissions from deforestation in the state of Amapá between 2000 and 2019 amount to 84 million tons of CO2eq, which was equivalent to 0.7% of the total emissions from deforestation in the legal Amazon during this period. Considering the observed yearly deforestation, the mean carbon density of the state's forest and the business as usual deforestation baseline, the accumulated gross avoided emissions from deforestation during the period from 2006 to 2019 was 28 million tons of CO2eq. This results from summing avoided emissions during the period from 2006 to 2019 in which the deforestation was lower than the business as usual deforestation baseline.

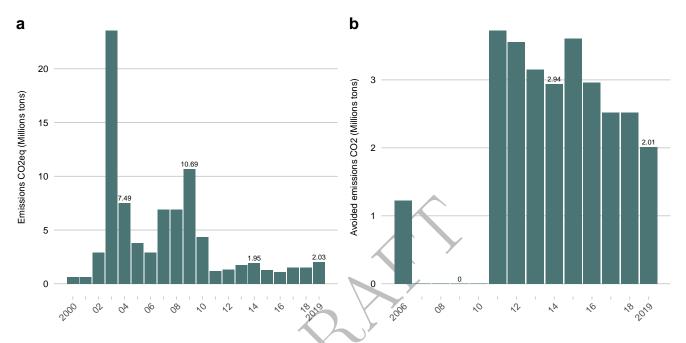
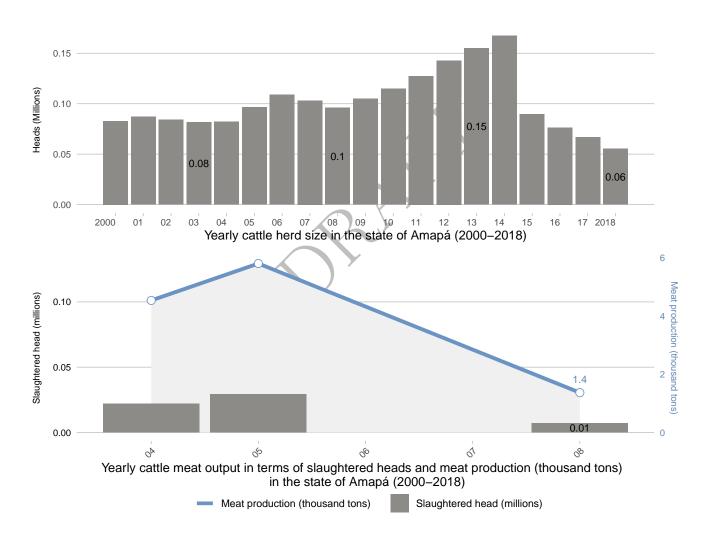


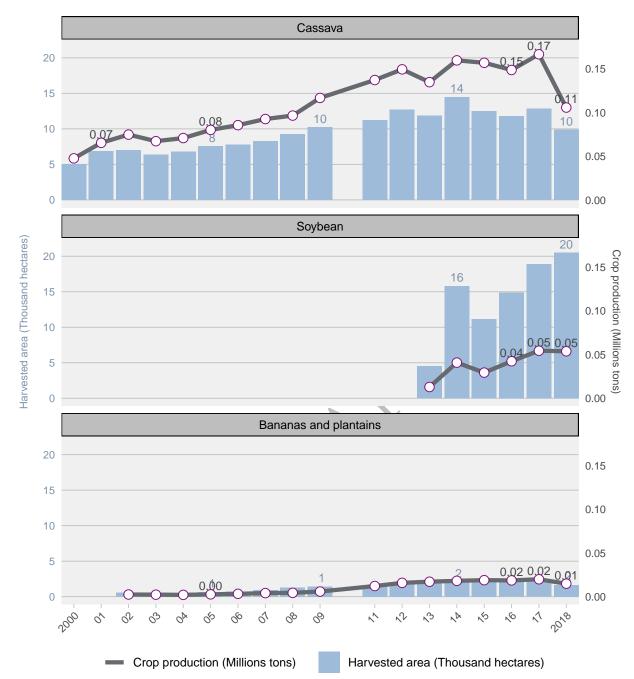
Figure 6: Emissions from deforestation (left) and avoided emissions (right) (CO2eq Millions tons)

Livestock

	*		¥	
	Cattle	Pig	Poultry	Fish
Year	2018	2018	2018	2015
Herd size:	$55,\!422$	30,736	$85,\!314$	
Slaughtered heads:	NA	NA	NA	
Meat production (tons):	NA	NA	NA	
Value (thousands):				R\$4,670 BR

Table 2: Livestock indicators in Amapá





Agriculture

Figure 7: Harvested area and production of the three crops most produced in Amapá

Aquaculture

The plot shows the aquaculture production in the state of Amapá over the last 6 years and the value of this production. The data includes production of fish such as Tambaqui, Skunk catfish, Pirapitinga or Tilapia and includes only activities related with fish farming under controlled conditions. Does not include fishing activities.¹



Figure 9: a) Yearly aquaculture production (tons) in municipalities of Amapá in 2018. b) Yearly aquaculture production by municipalities (Tons)

¹The value of production don't include the class Shellfish seeds, Shrimp, Shrimp larvae and post-larvae, Oysters, scallops and mussels, Other products (frog, alligator, crab, lobster, etc.) and Alevinos.