

ABOUT SATELLIGENCE



Internationally backed Dutch organization specializing worldwide in scalable optical satellite and radar image processing; currently works with public and private organizations with an environmental and social emphasis, as well as with major clients and buyers of palm oil interested in demonstrating a supply chain free from deforestation.

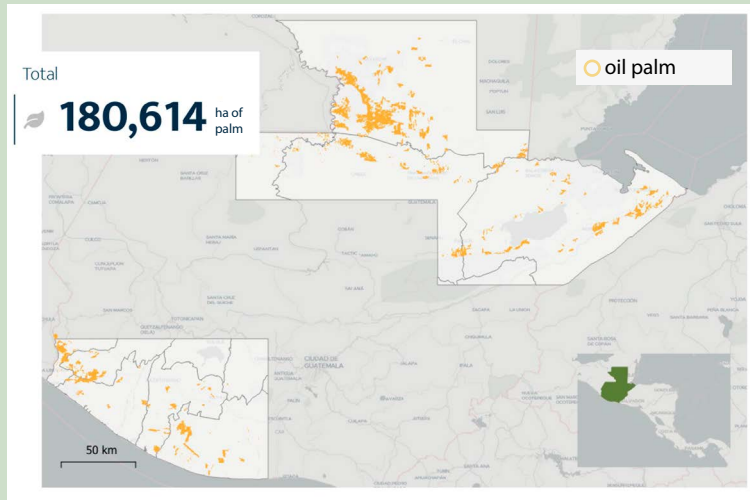
More information:
<https://satelligence.com/about-us>

National Monitoring System for the Sustainable Development of Palm Oil in Guatemala

Results of the study: **Satellite monitoring for the sustainable development of palm oil production in Guatemala** carried out by Satelligence based on time-based analysis of satellite images from optical and radar sensors in the period 1989-2020. Analysis of 37,770 km² of Guatemalan territory, covering areas of operation of the palm oil agribusiness and surroundings.

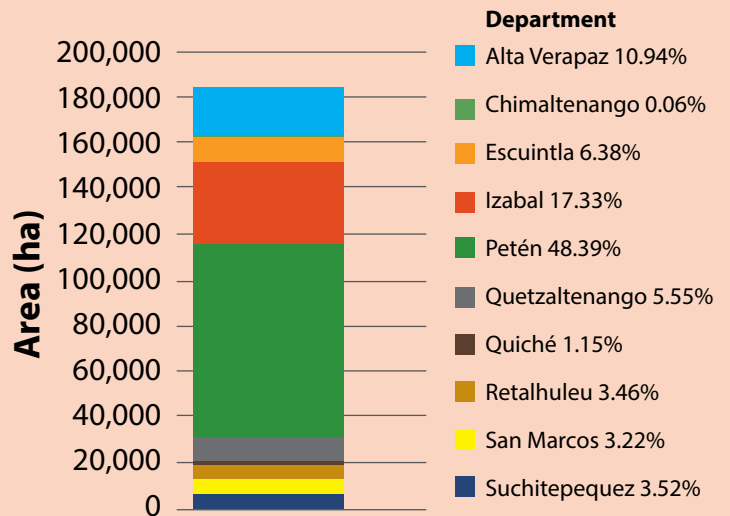
Oil palm area planted in Guatemala up to 2020

180,614 hectares of oil palm planted



Source: Satelligence, 2021.

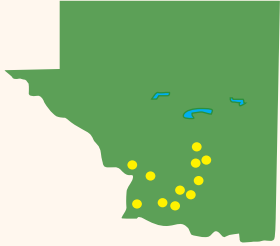
Distribution of oil palm by Department



Source: Satelligence, 2021.

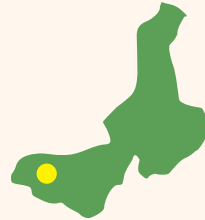
According to data from the 2019-2020 National Agricultural Survey produced by the National Statistics Institute of Guatemala (INE, 2020), the area used or with potential for agricultural production at country level is 7,354,100 hectares, which means that the cultivation of oil palm in Guatemala represents 2.46% of the total arable area nationwide.

Oil palm crops in Guatemala



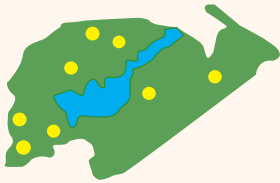
PETÉN

The oil palm crop represents only **6.21%** of the agricultural land of the department.



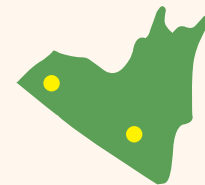
QUETZALTENANGO

The oil palm crop represents only **7%** of the agricultural land of the department.



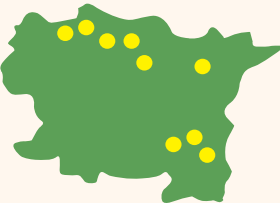
IZABAL

The oil palm crop represents **9.33%** of the agricultural land of the department.



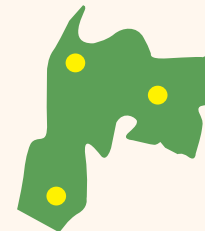
RETALHULEU

The oil palm crop represents only **4.11%** of the agricultural land of the department.



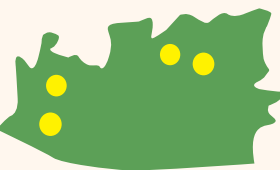
ALTA VERAPAZ

The oil palm crop represents **3.58%** of the agricultural land of the department.



SUCHITEPÉQUEZ

The oil palm crop represents **3.64%** of the agricultural land of the department.



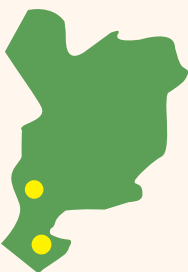
ESCUINTLA

The oil palm crop represents **3.15%** of the agricultural land of the department.



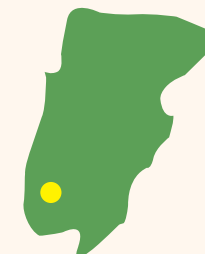
QUICHÉ

The oil palm crop does not exceed **1%** of the agricultural land of the department.



SAN MARCOS

The oil palm crop represents **3.07%** of the agricultural land of the department.



CHIMALTENANGO

The oil palm crop does not exceed **1%** of the agricultural land of the department.

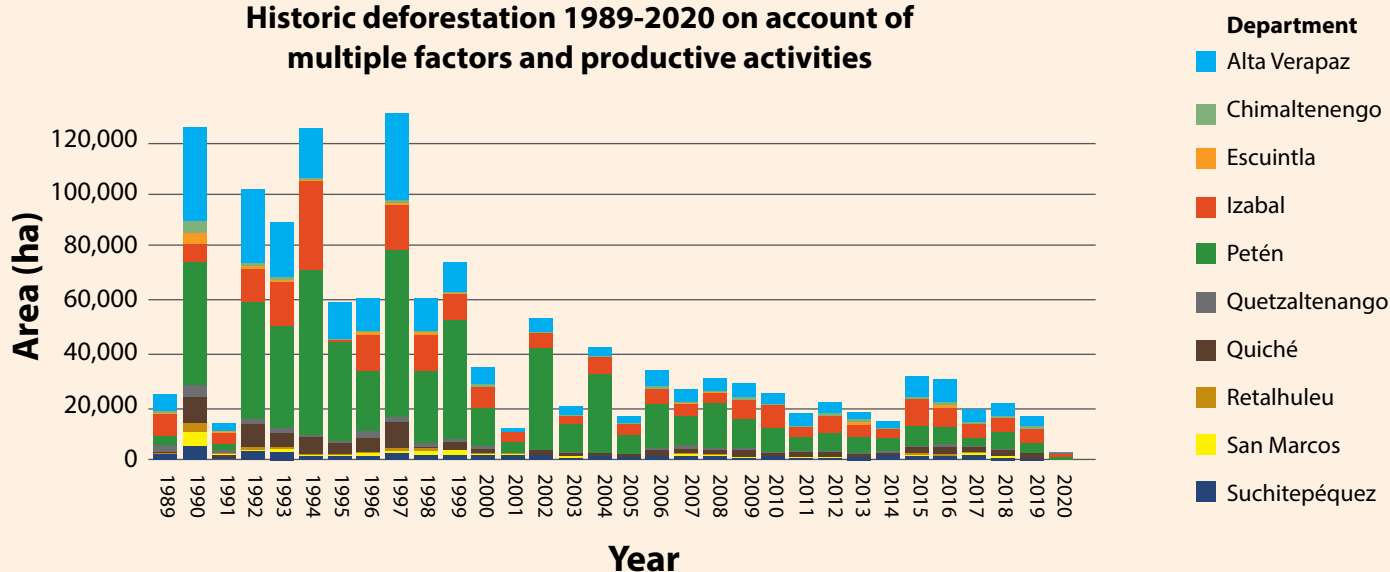
Historic deforestation in the study area

Historic deforestation refers to areas that have been deforested by multiple factors and productive activities between 1989 and 2020, specifically in the 37,770 km² of the study area monitored by Satelligence. This study area covers departments with the oil palm crop.



Total of 1,407,138 hectares lost to multiple factors and productive activities.

Historic deforestation 1989-2020 on account of multiple factors and productive activities



Source: Satelligence, 2021.

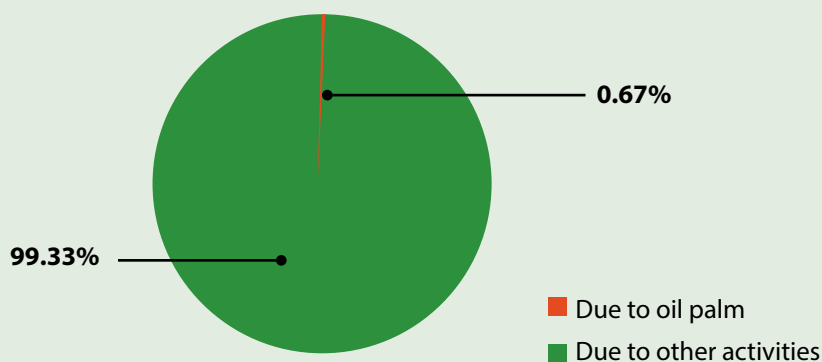
Oil palm associated to deforestation

According to the satellite images for the period 1989-2020 performed by Satelligence, 180,614 hectares of oil palm are planted in Guatemala, of which 16,479 hectares are associated to deforestation.

According to the Forest Information System of Guatemala, between 1989-2020 around 2,455,617 hectares of forest were lost at country level, so it is estimated that the cultivation of oil palm represents 0.67% of total deforestation in the country.

More than **90%** of the oil palm in Guatemala is planted in low-carbon areas, different from primary forests.

Significance of oil palm in deforestation in Guatemala



Source: Made by GREPALMA with information from the Forest Information System of Guatemala and Satelligence..

Guatemala's palm oil agro-industry contributes to Sustainable Development Goals



Managed conservation areas in GREPALMA member farms

**11,000
HECTARES**



Deforestation by GREPALMA members under satellite monitoring by Satelligence 4th quarter 2020 - 4th quarter 2022

**(0) HECTARES
DEFORESTED**



The National Monitoring System for the Sustainable Development of Palm Oil in Guatemala monitors the **VOLUNTARY COMMITMENT TO ZERO DEFORESTATION** adopted by the Guatemalan palm oil sector.

Actions underway as part of the commitment by the palm-grower sector:



Permanent monitoring of oil palm plantations to ensure a supply chain free from deforestation.



Establishment of a Zero Deforestation Cross-Agency Working Group with public and private players, academia and international organizations to monitor and give continuity to acquired commitments.



Promotion of environmental conservation and restoration projects and initiatives.

“Environmental conservation is a pillar of Guatemalan palm oil production”



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