Examples and definitions for the Drivers of Tropical Forest Loss crowdsourcing campaign

International Institute for Applied Systems Analysis (IIASA) December 9th, 2020

Drivers of tropical forest loss: Definitions

Step 1 – Please select the predominant tree loss driver visible inside the tree loss pixels in the blue box

- **Subsistence agriculture:** Relatively small fields (typically less than a quarter of the blue box), sometimes without defined borders. Includes agroforestry (combined trees and annual crops) in small fields, shifting cultivation (e.g., abandoned or burnt fields, fallow, bushes). Also includes mixed systems, where small crop fields, small scale pastures and cattle, small patches of palms might be seen, e.g., in some countries in Africa. Time-series helps for identification.
- **Commercial agriculture:** Uniform/monoculture, large fields (typically larger than one quarter of the blue box), but sometimes they can be several small fields together or close by, all with the same land use. Includes permanent (tree-crops/fruit trees) or annual crops, e.g., citrus plantations, olive trees, vineyards, cereals, soybean, sugar cane, banana and cacao plantations. It also includes commercial aquaculture. Excludes oil palm plantations.
- **Commercial oil palm and other palms:** Includes oil palm and other palms such as coconut plantations in large sized fields or several small fields together.
- **Pasture:** Managed grasslands typically with signs of cattle around. May include sparse trees. Ponds of water with roads leading to or crisscrossing trails may be signs of pasture. No obvious agricultural management visible.
- Managed forest/forestry: Includes logging, timber plantations, managed forest and replanted forest. This class also includes rubber plantations.
- Roads/trails/buildings: Includes any built-up areas and infrastructure, as well as big and small roads or trails that may show human impact or urban expansion.
- Mining and crude oil extraction: Includes open mining, small regular oil extraction platforms and dams.
- Wildfire: A large (typically larger than the blue box) burnt area with irregular borders.
- Other natural disturbances/no tree loss driver: Drought, windthrow (trees uprooted by wind), flooding or no visible tree loss driver.

Step 2 – Please select all other tree loss drivers visible inside the tree loss pixels in the blue box

- Agriculture/pasture: Includes the categories commercial and subsistence agriculture, pasture but also commercial oil palm and other palm plantations
- Managed forest/forestry: Includes logging, timber plantations, managed forest and replanted forest. This class also includes rubber plantations.
- Roads/trails/buildings: Includes the categories roads/trails/buildings and mining and crude oil extraction
- Natural disturbances: Includes the categories wildfire and other natural disturbances
- No other tree loss driver: Select this if you think there are no, or no other, tree loss drivers visible
- Step 3 Can you see roads, trails or buildings in the blue box? (Yes/No)

Road/tra



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STEP 1:

Roads/trails/buldings (urban expansion), Equatorial Guinea

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STEP 1:-Please select the predominant tree loss driver visible inside the tree loss pixels in the blue box Subsistence agriculture Commercial agriculture Commercial oil palm or other palm plantations Pasture Managed forest/forestry Roads/trails/buildings Mining and crude oil extraction Wildfire (disturbance) Other natural disturbances/No treeloss driver STEP 2:-Please select all other tree loss drivers visible inside the tree loss pixels in the blue box Agriculture/Pasture Managed forest/forestry Roads/trails/buildings Natural disturbances No other tree loss driver visible

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Google 100 m



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Subsistence agriculture with trails/roads, Guatemala



Google 100 m

Google Earth time-series show shifting cultivation

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STEP 3:

Can you see roads, trails or buildings in the **blue box**

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Subsistence agriculture, Ivory Coast



Small fields with oil palm are part of mixed systems (likely to be encountered in some countries in Africa) Please select the predominant tree loss driver visible inside the tree loss pixels in the blue box Subsistence agriculture Commercial agriculture Commercial oil palm or other palm plantations Pasture Managed forest/forestry Roads/trails/buildings Mining and crude oil extraction Wildfire (disturbance) Other natural disturbances/No treeloss driver STEP 2:-Please select all other tree loss drivers visible inside the tree loss pixels in the blue box Agriculture/Pasture Managed forest/forestry Roads/trails/buildings Natural disturbances No other tree loss driver visible STEP 3:-Can you see roads, trails or buildings in the blue box No Yes Comment:

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STEP 1:-

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Subsistence agriculture (terraces), Vietnam



Terrain and detailed view in Google Earth



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Commercial oil palm or other palm plantations

Pasture

Managed forest/forestry

Roads/trails/buildings

Mining and crude oil extraction

Wildfire (disturbance)

Other natural disturbances/No treeloss driver

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Agriculture/Pasture

Managed forest/forestry

Roads/trails/buildings

Natural disturbances

No other tree loss driver visible

Can you see roads, trails or buildings in the blue box

No

Yes

Comment:

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Pasture, Argentina

Google Earth image of 2010

Imagery @2020 CNE

Animals and corrals (pens)



-<u>STEP 1:</u>

Please select the **predominant** tree loss driver visible inside the tree loss pixels in the blue box

Subsistence agriculture

Commercial agriculture

Commercial oil palm or other palm plantations

Pasture

Managed forest/forestry

Roads/trails/buildings

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Wildfire (disturbance)

Other natural disturbances/No treeloss driver

STEP 2:

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Agriculture/Pasture

Managed forest/forestry

Roads/trails/buildings

Natural disturbances

No other tree loss driver visible

Can you see roads, trails or buildings in the blue box

No

Yes

Comment:

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Google

100 m













Google Earth picture (panoramio), showing distillery close to location and fields' structure behind it. Submit O

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