Results from Open Burning Mapping in Nigeria
Sentinel-2 Land Cover Types

- Tree cover areas
- Cropland
- Grassland
- Shrubs cover areas
- Other

Nigeria Fires

VIIRS Active Fires

Month:

- Jan
- Feb
- Mar
- Apr
- May
- Jun
- Jul
- Aug
- Sep
- Oct
- Nov
- Dec

Years:

- 2015
- 2016
- 2017
- 2018
- 2019
VIIRS Active Fire Detections in Nigeria

MAR 2019  Detected Agricultural Fires; Total Fires= 6,303

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, Aerogrid, IGN, and the GIS User Community
VIIRS Active Fire Detections in Nigeria

APR 2019  Detected Agricultural Fires; Total Fires= 2,541

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
VIIRS Active Fire Detections in Nigeria

MAY 2019  Detected Agricultural Fires; Total Fires= 620

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, Aerogrid, IGN, and the GIS User Community
VIIRS Active Fire Detections in Nigeria
AUG 2019  Detected Agricultural Fires; Total Fires = 133

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
VIIRS Active Fire Detections in Nigeria

SEP 2019  Detected Agricultural Fires; Total Fires= 75

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
VIIRS Active Fire Detections in Nigeria

OCT 2019  Detected Agricultural Fires; Total Fires = 502

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
VIIRS Active Fire Detections in Nigeria

NOV 2019  Detected Agricultural Fires; Total Fires= 5,731

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
VIIRS Active Fire Detections in Nigeria

DEC 2019  Detected Agricultural Fires; Total Fires= 15,870

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Nigeria Burn Scar Comparison
2019-31-01

Hand-Digitized

Sentinel 2 Burned Area
Nigeria Burn Scar Comparison
2019-31-01

Difference: 24.61 [km²]

Method
- Hand-Digitized
- Sentinel 2 Burned Area

Fire Source
- VIIRS

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National- to Local-Scale: Mapping Matters

2019 Open Burning Emissions for Nigeria

Nigeria BC Comparison
2019-31-01

Hand-Digitized
Sentinel 2 Burned Area Method
VIIRS
Ghana Burn Scar Comparison
2017-30-01
National- to Local-Scale: Mapping Matters

2019 Open Burning Emissions for Ghana

Ghana BC Comparison
2017-01-01

Hand-Digitized
Sentinel 2 Burned Area Method
VIIRS