**Overall information**

lagoslakeid refers to unique lake identification number in LAGOS-US (<https://lagoslakes.org/>)

Refer to Monitoring Trends in Burn Severity (<https://www.mtbs.gov/>) for detailed descriptions of burn severity classes and mapping methods.

Low-severity: < 20% vegetation morality

Moderate-severity: 20-70% vegetation mortality

High-severity: > 70% vegetation mortality

Analysis only includes lakes ≥ 4 ha

**Lake watershed fire histories by burn severity**

**buffer1500m\_burn\_severity\_lagoslakeid.csv**

Location: DoLakesFeelTheBurn/ExportedData/lake\_fire\_history\_severity/buffer1500m

**Columns**

Year: year of record

unburned\_low\_ha: unburned to low severity burn area, hectares within 1500 m buffer zone

unburned\_low\_pct: unburned to low severity burn, proportion of 1500 m buffer zone

low\_severity\_ha: low-severity burn area, hectares within 1500 m buffer zone

low\_severity\_pct: low-severity burn, proportion of 1500 m buffer zone

moderate\_severity\_ha: moderate-severity burn area, hectares within 1500 m buffer zone

moderate\_severity\_pct: moderate-severity burn, proportion of 1500 m buffer zone

high\_severity\_ha: high-severity burn area, hectares within 1500 m buffer zone

high\_severity\_pct: high-severity burn area, proportion of 1500 m buffer zone

increased\_greenness\_ha: increased\_greenness, hectares within 1500 m buffer zone

increased\_greenness\_pct: increased\_greeness, proportion of 1500 m buffer zone

Total\_ha: total low-, moderate- and high-severity burn, hectares within 1500 m buffer zone

Total\_pct: total low-, moderate- and high-severity burn, proportion of 1500 m buffer zone

**Lake watershed fire histories by fire type**

**buffer1500m\_fire\_lagoslakeid.csv**

Location: DoLakesFeelTheBurn/ExportedData/buffer1500m

**Columns**

Year: year of record

ZoneTotalBurned\_ha: total area burned across all fire types, hectares within 1500 m buffer zone

ZoneTotalBurned\_pct: across all fire types, proportion burned within 1500 m buffer zone

ZoneTotalBurned\_ha\_cum: total cumulative area burned from 1984 to year of record across all fire types, hectares within 1500 m buffer zone

ZoneTotalBurned\_pct\_cum: total cumulative proportion burned from 1984 to year of record across all fires types within 1500 m buffer zone

WholeFire\_ha: area burned from fire event including outside 1500 m buffer zone, hectares

nTotalFires: number of fire events across all fire types in year of record within 1500 m buffer zone

wildfire\_ha: wildfire area burned, hectares within 1500 m buffer zone

wildfire\_pct: wildfire burn, proportion burned within 1500 m buffer zone

wildfire\_ha\_cum: cumulative wildfire area burned from 1984 to year of record, hectares within 1500 m buffer zone

wildfire\_pct\_cum: cumulative wildfire proportion burned from 1984 to year of record within 1500 m buffer zone

wildfire\_IgDate: ignition date of wildfire event in year of record within 1500 m buffer zone. If multiple wildfire events occurred in the same year, the date of the first ignition is reported.

Wholewildfire\_ha: wildfire area burned from fire event including outside 1500 m buffer zone, hectares

nWildfires: number of wildfire events in year of record within 1500 m buffer zone

Rxfire\_ha: prescribed area burned, hectares within 1500 m buffer zone

Rxfire\_pct: prescribed burn, proportion burned within 1500 m buffer zone

Rxfire\_ha\_cum: cumulative prescribed area burned from 1984 to year of record, hectares within 1500 m buffer zone

Rxfire\_pct\_cum: cumulative prescribed proportion burned from 1984 to year of record within 1500 m buffer zone

RxFire\_IgDate: first ignition date of wildfire event in year of record within 1500 m buffer zone. If multiple prescribed fire events occurred in the same year, the date of the first ignition is reported.

WholeRxfire\_ha: prescribed area burned from fire event including outside 1500 m buffer zone, hectares

nRxfires: number of prescribed fire events in year of record within 1500 m buffer zone

WLFU\_ha: wildland fire use area burned, hectares within 1500 m buffer zone

WLFU\_pct: wildland fire use, proportion burned within 1500 m buffer zone

WLF\_ha\_cum: cumulative wildland fire use area burned from 1984 to year of record, hectares within 1500 m buffer zone

WLFU\_pct\_cum: cumulative wildland fire use proportion burned from 1984 to year of record within 1500 m buffer zone

WLFU\_IgDate: first ignition date of wildland fire use event in year of record within 1500 m buffer zone. If multiple wildland fire use events occurred in the same year, the date of the first ignition is reported.

WholeWLFU\_ha: wildland fire use area burned from fire event including outside 1500 m buffer zone, hectares

nWLFUfires: number of wildland fire use events in year of record within 1500 m buffer zone

unknown\_fire\_ha: unknown fire type area burned, hectares within 1500 m buffer zone

unknown\_fire\_pct: unknown fire type, proportion burned within 1500 m buffer zone

unknown\_fire\_ha\_cum: cumulative unknown fire type burned from 1984 to year of record, hectares within 1500 m buffer zone

unknown\_fire\_pct\_cum: cumulative unknown fire type proportion burned from 1984 to year of record within 1500 m buffer zone

unknown\_fire\_IgDate: first ignition date of unknown fire type event in year of record within 1500 m buffer zone. If multiple unknown fire type events occurred in the same year, the date of the first ignition is reported.

Wholeunknown\_fire\_ha: unknown fire type area burned from fire event including outside 1500 m buffer zone, hectares

nUnknownfires: number of unknown fire type events in year of record within 1500 m buffer zone

**Lake watershed fires by Bailey’s provinces**

**baileys\_provinces\_burned\_lakes.csv**

Location: DoLakesFeelTheBurn/ExportedData

**Columns**

baileys\_province: name of province

nLakes: number of lakes per province

BurnedLakes: number of lakes per province with at least one watershed fire from 1984-2015

BurnedLakes\_WF: number of lakes per province with at least one watershed wildfire from 1984-2015

BurnedLakes\_Rx: number of lakes per province with at least one watershed prescribed fire from 1984-2015

PropBurned: proportion of lakes per province with at least one watershed fire from 1984-2015

PropBurned\_WF: proportion of lakes per province with at least one watershed wildfire from 1984-2015

PropBurned\_Rx: proportion of lakes per province with at least one watershed prescribed fire from 1984-2015

**Lake watersheds with fire, any type**

**Burned1500mBuffs.csv**

Location: DoLakesFeelTheBurn/ExportedData

**Columns**

x: lagoslakeid (unique lake ID)

**Lake watersheds with prescribed fire**

**Burned1500mBuffs\_Rx.csv**

Location: DoLakesFeelTheBurn/ExportedData

**Columns**

x: lagoslakeid (unique lake ID)

**Lake watersheds with wildfire**

**Burned1500mBuffs\_WF.csv**

Location: DoLakesFeelTheBurn/ExportedData

**Columns**

x: lagoslakeid (unique lake ID)

**Total burn severity in lake watersheds by year**

**fire\_area\_severity\_year.csv**

Location: DoLakesFeelTheBurn/ExportedData

**Columns:** 1984-2015 (years of fire data)

**Rows**

UBL: unburned to low, hectares

Low: low-severity (< 20% vegetation mortality), hectares

Moderate: moderate-severity (20-70% vegetation mortality), hectares

High: high-severity (> 70% vegetation mortality), hectares

**Lake watershed fires by US state (lower 48)**

**states\_burned\_lakes.csv**

Location: DoLakesFeelTheBurn/ExportedData

**Columns**

state: state name

nLakes: number of lakes per state

BurnedLakes: number of lakes per state with at least one watershed fire from 1984-2015

BurnedLakes\_WF: number of lakes per state with at least one watershed wildfire from 1984-2015

BurnedLakes\_Rx: number of lakes per state with at least one watershed prescribed fire from 1984-2015

PropBurned: proportion of lakes per state with at least one watershed fire from 1984-2015

PropBurned\_WF: proportion of lakes per state with at least one watershed wildfire from 1984-2015

PropBurned\_Rx: proportion of lakes per state with at least one watershed prescribed fire from 1984-2015

OverallRank: rank 1-48 by PropBurned

WildfireRank: rank 1-48 by PropBurned\_WF

RxRank: rank 1-48 by PropBurned\_Rx