

Description of the features in FireSpread_MedEU

This document provides an overview of all variables that are included in the FireSpread_MedEU datasets. Variable and description are displayed and explained in Tab. 1.

Tab. 1: Column names of the final fire propagation database and their description.

Variable name	Description
EFFIS_id	Id of the same burned area in the EFFIS Burnt Areas database ^{a)} .
Prop_step	Propagation step number of a burned area instance. Step size varies from one to multiple days, depending on cloud/smoke obstruction and image availability. Last available pre-fire image has Prop_step 0.
Acqu_date	Year, month, and day of Planet image acquisition (YYYY-MM-DD).
Acqu_time	Exact time of Planet image acquisition (hh:mm:ss).
BA (ha)	Size of the burned area at the specific propagation step in ha.
Quality	Subjective quality assessment of the authors. Quality labels are low, medium, high, and very high.
Clouds	Binary identifier for cloud obstruction: 0 = no clouds; 1 = clouds obscure vision of the burned area.
Smoke	Multiclass identifier for smoke obstruction: 0 = no smoke; 1 = light smoke; 2 = medium smoke; 3 = heavy smoke.
Info	Additional information for the distinct burned area. Reasons for missing burn dates are provided here. Possible reasons area: planet image missing, planet image partly missing, image too cloudy, image too much smoke, no change in burned area.
geometry	Shapefile geometry of the burned area. Empty for missing burn dates.
Crop	Fraction of cropland, as classified by the LCCS.
Crop/Veg	Fraction of cropland and vegetation mixtures, as classified by the LCCS.
Tree-Broad	Fraction of broadleaved tree cover, as classified by the LCCS.
Tree-Needl	Fraction of needle leaved tree cover, as classified by the LCCS.
Tree-Mixed	Fraction of mixed tree cover, as classified by the LCCS.
Veg-Mixed	Fraction of vegetational mixtures, as classified by the LCCS.
Shrub	Fraction of shrubland, as classified by the LCCS.
Sparse Veg	Fraction of sparse vegetation, as classified by the LCCS.
Urban	Fraction of urban areas, as classified by the LCCS.
Bare	Fraction of bare areas, as classified by the LCCS.
Grassland	Fraction of grassland, as classified by the LCCS.

a) Download real-time updated Burnt Areas database at <https://forest-fire.emergency.copernicus.eu/applications/data-and-services> (last accessed 11.12.2025)