

Fire Predictors Table

Predictor	Unit of Measurement	Meaning
Fuel	Ton/ha	Quantity of 1-h fuel, derived using a random forest model based on field data collected from April to September 2019.
Slope	Percentage	Slope derived from DEM with a resolution of 8 meters downloaded from the SIT of Puglia region.
Aspect	Degrees	Direction toward which a slope is oriented, derived from DEM with a resolution of 8 meters downloaded from the SIT of Puglia region.
Grassland	Hectares	Land use class SIT Puglia region 2011: Grasslands
Shrubs	Hectares	Land use class SIT Puglia region 2011: Shrubs
Crop	Hectares	Land use class SIT Puglia region 2011: Crops
Forest	Hectares	Land use class SIT Puglia region 2011: Forest
Other	Hectares	Land use class SIT Puglia region 2011: Other
Urban	Hectares	Land use class SIT Puglia region 2011: Urban
Water	Hectares	Land use class SIT Puglia region 2011: Water
Wetlands	Hectares	Land use class SIT Puglia region 2011: Wetlands
Pop_dens	Inhabitants per km ²	Population density derived from Open Street Maps
Road_Dist	Meters	Distance from roads derived from Open Street Maps
Rail_Dist	Meters	Distance from railways derived from Open Street Maps
Urban_Dist	Meters	Distance from urbanized areas derived from Open Street Maps
Cover_Tree	Percentage	Tree coverage 2018 Copernicus
FCI	Dimensionless	Fire Climate Index is an index that estimates the risk of fires occurring; the higher the FCI value, the higher the fire risk. It is obtained with the following formula: $FCI = \frac{\max(U)}{FMI}$ where U represents wind speed while FMI equals $10 - 25(T - H)$ where: T is the temperature expressed in degrees Celsius and H is the relative humidity expressed as a percentage.
Code	Dimensionless	Indicates Presence/Absence of fires in the time period 2000-2021