

Productive firebreaks

Wildfires represent a recurrent threat to Mediterranean forests. Agricultural parcels amidst the forested landscape constitute a key fuel discontinuity, which is a crucial infrastructure for the fire responders to attack with security, and/or to modify the wildfire spread behaviour. Maintaining those fields active constitute a security service to parts of the landscape (WUI-homes, parcels of forests).

Yet, northern Mediterranean (particularly mountain) agriculture is progressively being abandoned, thus increasing forest continuity and consequently the risk of larger wildfires. The abandonment of agricultural land is accelerating because of the ageing of the farming population and the small size of the new projects of Neo-rural population. Then we have been able to observe during 21st century a deep change in agriculture social and physical landscape that will go on evolving these 20





Role of vineyards in wildfire spread in El Barral (Ourense), 28/06/2022. Source: SAMUEL CV.

Research Question

The vision of those agriculture producers on wildfires is hence crucial to activate fire-resilient landscape management.

RQ1: Which are the productive factors of vineyard managers and wine producers that relate to wildfire risk? Which are their concerns?

RQ2: Are them interested in engaging in firereduction measures?

RQ3: What is the existing support of administrations in this field? Is it necessary to improve it and how?

Findings

Vineyard managers and managers show concerns about wildfires.

Reasons are:

- potential losses in their yields or organoleptic characteristics,
- potential reduction of their scenic beauty linked to their enotourism,
- general awareness to their territory.
- **Vineyard + forest landowners:**

Rural landowners sometimes do not own only agricultural parcels, but also forest plots. Yet, they tend to manage with lower intensity the latter-being either for limited knowledge, or limited profitability. This situation bridging both agriculture and forest domains represents also an opportunity for them to engage in risk-reduction practices.

General trends in agriculture towards mixed farming (chiefly, including grazing to control weeds), and towards agroecology production show contrasting effects in the face of wildfires:

Extensive grazing reduces available fine fuel (PO-SITIVE EFFECT), while

Leaving grass for water soil maintenance during summer permits the fire spread within the vineyard (NEGATIVE EFFECT).

Need for good practices dissemination & networking

Wildfire-risk related good practices are so far **iso**lated. There is need to recognise them and establish a network of agents interested in or exposed to the hazard.

Recognition (and reward) of the fire security service

> It is necessary to acknowledge the fire-spread retardant function of those (vineyards) fields as a positive externality.



Vineyard in Agly Valley, Roussillon, France. Source: S. Darnay.



16 Chateau Lascaux

17 Domaine de la Triballe

20 Grange de Bouys









