

## Integration of prescribed fire in the vegetation-management on the slopes of the viticultural area (Kaiserstuhl)



Symposium on Fire Management in Cultural and Natural Landscapes, Nature Conservation and Forestry in  
Temperate-Boreal Eurasia -- Freiburg, Germany, 25-27 January 2008



### Location and Temporal Development

Step 4: County OG since 2007

Step 3: Vorbergzone EM since 2006

Step 2: Kaiserstuhl 2002 - 2006

Step 1: Vogtsburg 1997 - 2002



Landscape and Land-use History

Viticulture since the 8<sup>th</sup> century

Slope building since the beginning of winegrowing

subsistence farming until the end of the 19<sup>th</sup> century

• Submediterranean climate  
• Old volcano with a „Löss layer“

Consolidation of the viticultural farm land between 1960 and 1985

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§ Naturschutzgesetz Baden-Württemberg §

§ 29 (neu: § 43) Allgemeiner Schutz der Pflanzen und Tiere

...

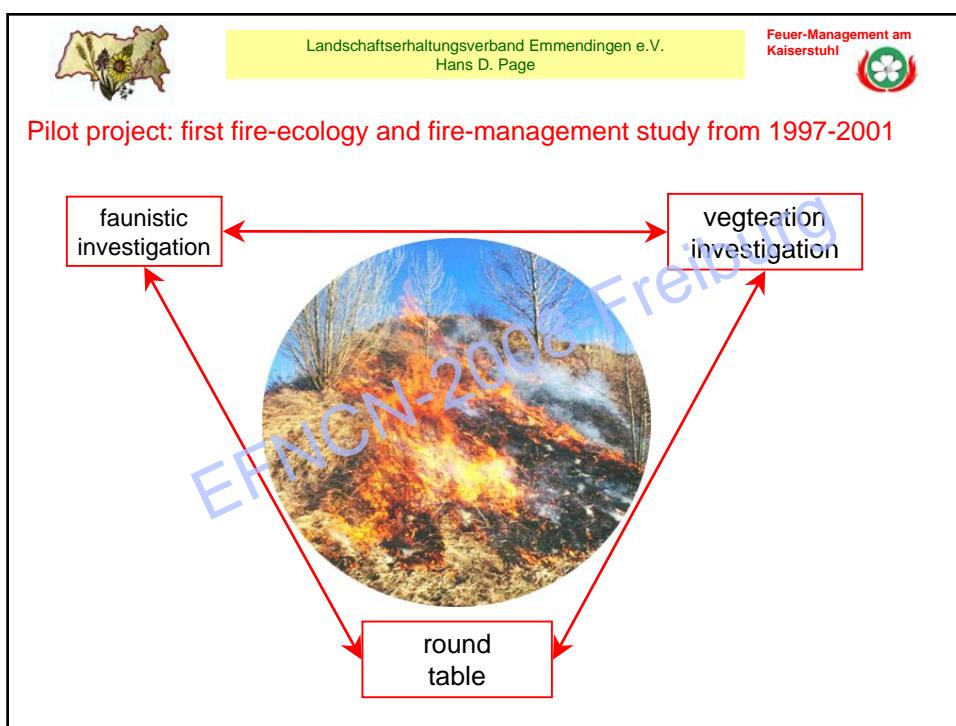
(2) Es ist verboten, die Vegetation auf freiem, Felddrainen, ungenutztem Gelände (...) oder Zäunungen (...) abzubrennen.

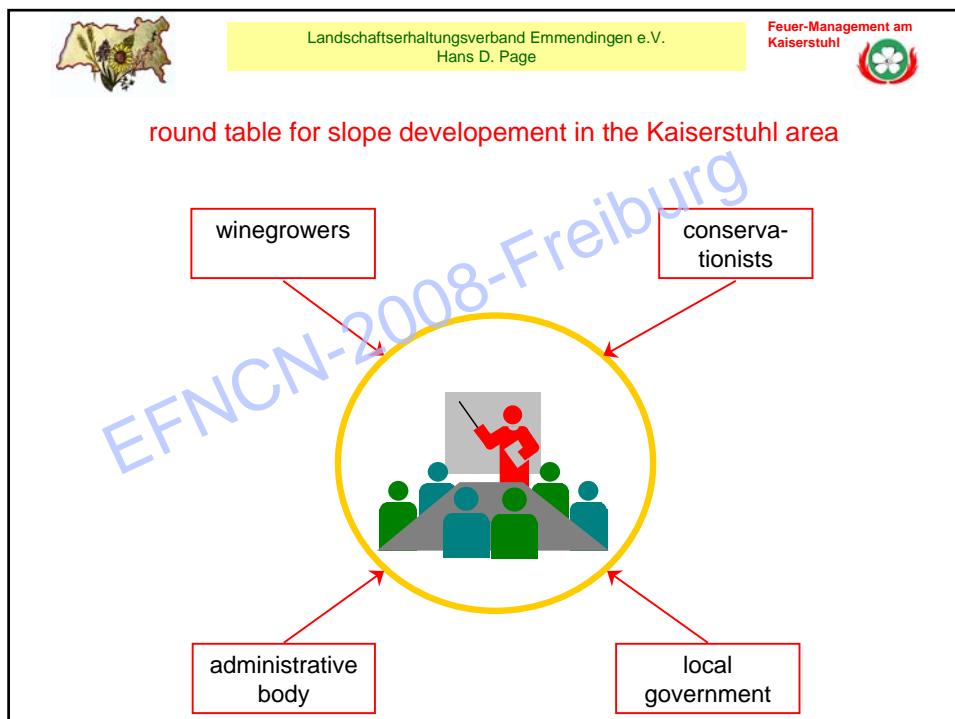
...

(4) Das Verbot des Absatzes 2 gilt nicht

1. für Unarbeiten einschließlich Maßnahmen zur Unkrautbekämpfung, die behördlich angeordnet oder im Einzelfall ausdrücklich zugelassen werden.

*EFNCN-2008-Freiburg fire suppression by law*





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**Model for the future development of the slopes vegetation cover**

*„From the ecological perspective as well as for the vine-growing conditions a more or less open and meadow-like vegetation structure with single trees and shrubs is the optimum.“*

*„To reach this aim a sustainable care for the maintainace of the open vegetation structure is needed“*

**Consequence:** Developement of a management concept with the integration of prescibed fire an one important tool

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**Conditions for re-legalization for the use of fire**

developement of fire-rules

geographical demarcation for the use of fire

define responsiblities for the use of fire

ecological monitoring

creation of an general management-concept



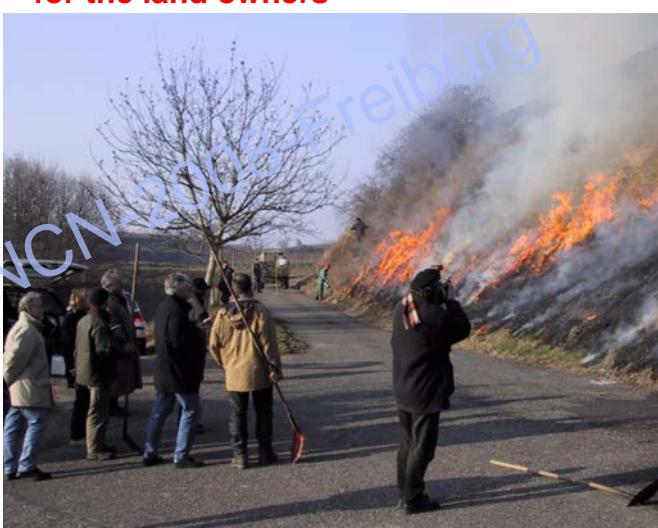
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**Geographical demarcation for the use of fire**

This map shows a detailed cadastral plan of a rural area, likely in Germany, with numerous small plots and roads. A green line, representing a firebreak or demarcation, runs through the center of the map, separating different land parcels. The map includes place names such as Rotebühl, Schilling, Oberforst, Siegeler, and Unter. A blue watermark 'EFNCN 2008 Freiburg' is diagonally across the map.



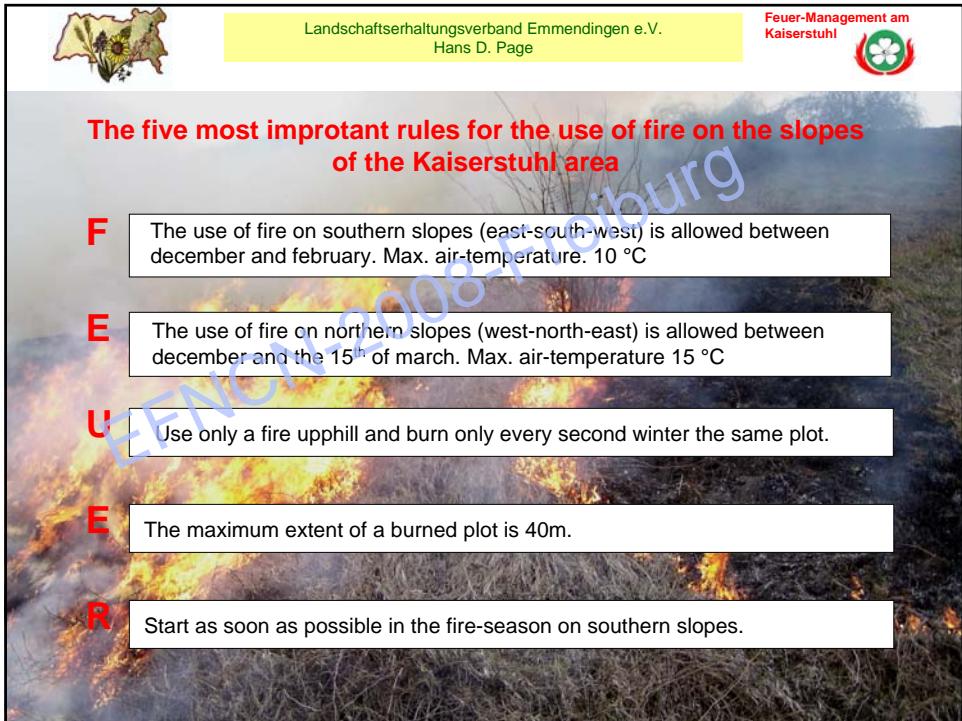
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**Information and instruction in the use of prescribed fire  
for the land owners**

This block contains two photographs. On the left, several people are gathered around a table, looking at a large map spread out on it. On the right, a group of people are standing on a paved road next to a burning field. One person is holding a long pole, possibly a firebreak tool. The background shows a hillside with a fire line and smoke. A blue watermark 'EFNCN 2008 Freiburg' is diagonally across the images.



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**The five most important rules for the use of fire on the slopes  
of the Kaiserstuhl area**

- F** The use of fire on southern slopes (east-south-west) is allowed between december and february. Max. air-temperature. 10 °C
- E** The use of fire on northern slopes (west-north-east) is allowed between december and the 15<sup>th</sup> of march. Max. air-temperature 15 °C
- U** Use only a fire uphill and burn only every second winter the same plot.
- E** The maximum extent of a burned plot is 40m.
- R** Start as soon as possible in the fire-season on southern slopes.



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**Burning Techniques**

Freiburg, Germany, 25-27 January 2008



