



Supplementary Material

Questionnaire: Wildfire Social Trends in Greece

Start of Block: Introduction

Goal of survey

We're conducting research on the importance perceptions of different wildfire effects caused from wildfires in the Greek landscapes. We'd love to hear about which wildfire effects matters the most to you and what are your general approach towards the wildfire problem of our country. This will help us make improvements to the existing tool and prioritize new features.

Your feedback is important!

This questionnaire contains 22 questions. Obtaining feedback from people like you is vital to estimate the importance of each wildfire effect. We would appreciate your taking the time to complete the following survey. It should take about 10 to 15 minutes of your time. Let your voice be heard!

Confidentiality and identity protection

Your responses are voluntary and will be confidential. Responses will not be identified by individual. All responses will be compiled together and analyzed as a group.

Contact information.

If you have any questions or concerns, please contact Paleologos Paleologou, PhD Researcher and fellow with the US Forest Service J-1 International Visitor Program at the Oregon State University, at palaiologou.p@aegean.gr.

Participation consent

By clicking agree to continue, you provide consent to use your response for the purposes of this survey. In case you disagree, click on the option "I don't want to continue".

- o I agree to proceed (1)
- o I don't want to continue (2)

Skip To: End of Survey If PERCEPTIONS OF WILDFIRE EFFECTS IN GREECE Goal of survey We're conducting

research on the import... = I don't want to continue

End of Block: Introduction

Start of Block: Questions about thoughts, beliefs and knowledge regarding wildfire effects

Q1.1 In which part of Greece did you reside in the longeset?

- o Region (1)
- o Prefecture (2)
- o Municipality (3)
- ▼ Central Greece (0) ... North Aegean ~ Chios ~ Inousses (387)

Q2.1 For the prefecture of Greece you selected, who do you think is responsible for most wildfire ignitions?

(only one selection is allowed)

- o A specific social group (1)
- o Weather/natural phenomena (2)
- o Arsonists pursuing certain interests (3)
- o A specific occupational group (4)
- Arsonists due to physiologic problems (5)

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- o A foreign nation (6)
- o The state/ the political parties (7)
- o The society and its way of living (8)
- o Negligence of citizens (9)
- o Other (10)

Q2.2 When multiple wildfires occur across Greece, who do you think is responsible for most ignitions?

(only one selection is allowed)

- o A specific social group (1)
- o Weather/natural phenomena (2)
- o Arsonists pursuing certain interests (3)
- o A specific occupational group (4)
- o Arsonists due to physiologic problems (5)
- o A foreign nation (6)
- o The state/ the political parties (7)
- o The society and its way of living (8)
- o Negligence of citizens (9)
- o Other (10)

Q3.1 Based on your experience and knowledge, please rate the effect of the following negative factors on reducing the regeneration and vegetation recovery potential after a wildfire, for the prefecture of Greece where you have resided the longest.

(Please respond to all options)

	No effect (1)	Low effect (2)	Moderate effect (3)	High effect (4)	Very High effect (5)
Post-fire grazing (1)	0	0	0	0	0
Burned vegetation at non-reproductive age (2)	0	0	0	0	0
Steep burned slopes (3)	0	0	0	0	0
Poor quality and shallow soil type (4)	0	0	0	0	0
Illegal activities / land use changes on burned areas (5)	0	0	0	0	0
Smoldering effect during the wildfire (6)	0	0	0	0	0
Recent fire activity inside the affected area (7)	0	0	0	0	0
Urban / tourism pressures on burned areas (8)	0	0	0	0	0
Threat from insects or pathogens (9)	0	0	0	0	0
Absence of unburned enclaves (10)	0	0	0	0	0

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Q3.2 Based on your experience and knowledge, please rate the importance of the following wildfire effects on the environment, for the prefecture of Greece where you have resided the longest. (Please respond to all options)

	Not at all important (1)	Slightly important (2)	Moderately important (3)	Very important (4)	Extremely important (5)
Habitat losses of endan- gered/rare/important insects or invertebrates' species (1)	0	0	0	0	0
Habitat losses of endan- gered/rare/important small sized mammal or reptile species (2)	0	0	0	0	0
Habitat losses of endan- gered/rare/important fish and aquatic species (3)	0	0	0	0	0
Habitat losses of endan- gered/rare/important bird species (4)	0	0	0	0	0
Habitat losses of endangered/rare/important large sized mammal species (5)	0	0	0	0	0
Alien species invasion/ changes in fauna composition (6)	0	0	0	0	0
Losses of endangered/rare/important flora populations (7)	0	0	0	0	0
Alien species invasion/ changes in flora composition (8)	0	0	0	0	0

Q3.3 Please rank the following factors based on their effect on reducing the aesthetic quality and attractiveness of the affected area after a wildfire, for the prefecture of Greece where you have resided the longest.

(Please rank all options by drag and drop each option, from higher (1-up) to lower (5-down) reduction)

_ Smoke reached populated places reducing visibility and affecting air quality. (4)

Q3.4 How are you personally impacted when human health and lives are affected by a wildfire? (Please respond to all options)

____ Post-fire soil related events caused erosion, soil losses or desertification. (5)

	Lowest impact (1)	Low to moderate impact (2)	Moderate impact (3)	Moderate to high impact (4)	Highest impact (5)
Civilian deaths (1)	0	0	0	0	0
Firefighter deaths (2)	0	0	0	0	0

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Large number of injured (3)

Q3.5 How are you personally impacted when casualties of firefighting personnel occur during a wildfire?

(Please respond to all options)

	Lowest impact (1)	Low to moderate impact (2)	Moderate impact (3)	Moderate to high impact (4)	Highest im- pact (5)
Destroyed firefighting aircraft(s) (1)	0	0	0	0	0
Destroyed firefighting vehicle(s) (2)	0	0	0	0	0

Q3.6 Which type of infrastructure damage or destruction that can happen during a wildfire can have the most profound negative effect on the prefecture of Greece where you have resided the longest?

(Please respond to all options)

	No effect (1)	Low effect (2)	Moderate effect (3)	High effect (4)	Very High ef- fect (5)
Houses / hotels (1)	0	0	0	0	0
Household stables, warehouses, auxiliary buildings (2)	0	0	0	0	0
Private vehicles, machinery and mechanical equipment (3)	0	0	0	0	0
Power network (4)	0	0	0	0	0
Telecommunications network (5)	0	0	0	0	0
Water supply network (6)	0	0	0	0	0
Military equipment, ammunition, facilities (7)	0	0	0	0	0
Industrial buildings or renewable energy infrastructure (8)	0	0	0	0	0
Roads and public transportation network (9)	0	0	0	0	0
Agricultural or livestock infrastructure (10)	0	0	0	0	0
Cultural heritage monuments or sites (11)	0	0	0	0	0

Q3.7 Which economic losses that can happen after a wildfire can have the most profound negative effect on the prefecture of Greece where you have resided the longest?

(Please respond to all options)

	No effect (1)	Low effect (2)	Moderate effect (3)	High effect (4)	Very High effect (5)
Lost revenue from burnt or delayed harvest of logging and wood	0	0	0	0	0

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		Strongly disagree (1)	Somewhat disagree (2)	Neither agree nor disagree (3	Somewhat agree (4)	Strongly agree (5)
Start of Block: General		your opinion on t	using controlled	fire during firefig	hting or as prescr	ibed fire to
End of Block: Question	s about thou	ghts, beliefs,	and knowled	dge regarding	wildfire effec	ts
		conomic losses irefighting / wi		sion. (7)		
		Destruction and	damages on ir	nfrastructure. (5)		
		Regeneration po Casualties and		getation recovery	7. (3)	
	E	Quality of lands Invironmental i	mpacts. (2)			
		l options by drag	•	•		
		five wildfire effe describing the o		m most (1) to leas ffects.	t (7) important as	s to their
	[Evacuation of se	ettiements. (8)			
	E	Extreme fire typ	e (crown fires)			
		nternational aic Area declared ir		al firefighting fo ergency. (6)	rces. (5)	
	S	potting with ne	ew fire ignition	s. (4)	(5)	
		High number of High number of				
		High number of				
	, ,	l options by drag	and drop each o	ption, from most	(1-up) to least (8-	down)
	Q2.3 Please ra complexity	nk your understi	anding and perc	eption regarding t	vildfire suppressio	on effort
Post-fire restoration costs of la prevention. (8)	nuscape - refores	tation - nood	0	0	0 0	0
Post-fire restoration costs of he	•		0	0	0 0	0
	-		0	0	0 0	0
Lost revenue from tourism and recreational activities. (5) Lost revenue from burnt or reduced livestock production. (6)			0	0	0 0	0
duction. (4)	•		0	0	0 0	0
industries. (3)	Post-fire restoration costs of infrastructure, public property, and industries. (3) Lost revenue from burnt or delayed harvest of agricultural pro-			0	0 0	0
(2)	function at the same	lia muonoutri and				
Lost revenue from burnt or exigame, beekeeping, resin, edibl		-		0	0 0	0

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Fight fire with fire whenever possible (backfires) (1)	0	0	0	0	0
Fire is a tool that we can effectively control to protect the forests (2)	0	0	0	0	0
It should be used with caution and only under strict supervision (3)	0	0	0	0	0
If it is applied, there should be tolerance and protection of people involved in case of an accident (4)	0	0	0	0	0
Some natural fires must be let burn to achieve ecological objectives (5)	0	0	0	0	0
All fires must remain illegal (6)	0	0	0	0	0
Controlled fires is an inexpensive method of firefighting and removal of unwanted fuels (7)	0	0	0	0	0

Q2.5 What is your opinion on the specific wildfire-related statements?

	Strongly disagree (1)	Somewhat disagree (2)	Neither agree nor disagree (3)	Somewhat agree (4)	Strongly agree (5)
All uncontrolled fires should be extinguished as soon as possible (1)	0	0	0	0	0
There is a fire deficit in Greek landscapes, and we need more fire to restore ecological balance (2)	0	0	0	0	0
Wildfires cause only negative impacts and effects (3)	0	0	0	0	0
Climate change can increase the number, intensity and area burned of wildfires (4)	0	0	0	0	0
Societies can do little to confront wildfires (5)	0	0	0	0	0
Citizens are responsible from removing vegetation and fuels from their property (6)	0	0	0	0	0
Forest Service should get more engaged on all stages of wildfire planning and suppression (7)	0	0	0	0	0

Q1.2 How many wildfires have you personally experienced (i.e., either inside or close to the affected area)?

- o None (1)
- o (2)
- o (3)
- 0 3-5 (4)
- o 5-10 (5)
- o More than 10 (6)

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Q2.6 Which policy do you believe is most capable of reducing the wildfire-related problems? (only one selection is allowed)

- oHiring more firefighters (1)
- oBuying new aerial firefighting units (2)
- oBuying new firefighting vehicles (3)
- oBetter patrolling/surveillance (4)
- oForest fuel reduction efforts (5)
- o Define and map forests and properties (6)
- OStrict penalties for arsonists (7)
- oBetter education and knowledge for individuals and communities (8)
- o Improvement of the collaboration among the fire management / suppression agencies. (9)
- ○Other (10)

Q1.3 Please rate your experience with wildfires

	No experience (1)	Poor (2)	Average (3)	Good (4)	Extremely experienced (5)
Fire suppression activities (1)	0	0	0	0	0
Fuel management activities (2)	0	0	0	0	0
Research and study (3)	0	0	0	0	0
Affected by wildfires (4)	0	0	0	0	0
Post-fire rehabilitation (5)	0	0	0	0	0

End of Block: General perceptions for wildfires

Start of Block: Personal questions

Q1.4 Employment status?

- o Employed full time (1)
- o Employed part time (2)
- o Unemployed looking for work (3)
- o Unemployed not looking for work (4)
- o Retired (5)
- Student (6)
- o Disabled (7)

Skip To: Q1.6 If Employment status? = Unemployed looking for work

Skip To: Q1.6 If Employment status? = Unemployed not looking for work

Skip To: Q1.6 If Employment status? = Retired

Skip To: Q1.6 If Employment status? = Student

Skip To: Q1.6 If Employment status? = Disabled

Q1.5 If you are employed, where do you work?

- o Research private (1)
- o Research government (2)
- Research university (3)

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o Forest Service (4)
        o Fire Service (5)
        o Local government (6)
        o Central government (7)
        o Private sector (8)
        o Self-employed (9)
        o Working abroad (10)
        o Other (11)
Q1.6 Age class
        o under 18 (1)
        o 18 - 24 (2)
        0 25 - 34 (3)
        0 35 - 44 (4)
        o 45 - 54 (5)
        0 55 - 64 (6)
        0 65 - 74 (7)
        0 75 - 84 (8)
        o 85 or older (9)
Q1.7 Highest degree you have received
        o Less than high school (1)
        o High school graduate (2)
        o Some college (3)
        o 2-year degree (4)
        o 4-year degree (5)
        o Professional degree (6)
        o Doctorate (7)
Q1.8 Gender
        o Male (1)
        o Female (2)
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End of Block: Personal questions