5.C.2 - Open Burning of Waste

Category Code			Meth	nod				Αſ)				EF		
5.C.2			CS	5				Q					D, C	S	
Key Category	SO2	NOx	ΝНз	NMVOC	СО	ВС	Pb	Hg	Cd	Diox	PAH	нсв	TSP	PM ₁₀	PM ₂ 5
5.C.2	-/-	-/-	-	-/-	-/-	-/-	-/-	-	-/-	-/-	-/-	-	-/-	L/-	L/-

T = key source by Trend L = key source by Level

Methods	
D	Default
RA	Reference Approach
T1	Tier 1 / Simple Methodology *
T2	Tier 2*
Т3	Tier 3 / Detailed Methodology *
С	CORINAIR
CS	Country Specific
М	Model

* as described in the EMEP/CORINAIR Emission Inventory Guidebook - 2007, in the group specific chapters.

AD	- Data Source for Activity Data
NS	National Statistics
RS	Regional Statistics
IS	International Statistics
PS	Plant Specific data
AS	Associations, business organisations
Q	specific questionnaires, surveys

FF - Fmission Factors

D Default (EMEP Guidebook)

C | Confidential

CS Country Specific

PS Plant Specific data

Within NFR sub-category 5.C.2 - Open Burning of Waste, the German emissions inventory provides emissions from registered bonfires and other wooden materials burnt outdoors. Emissions from bonfires are key source for PM2.5 and PM10, but in principle of minor priority.

Emissions from open burning of wood and green waste for traditional purposes, so-called bonfires such as Easter fires, are reported model-based. In addition to biogenic carbon dioxide, emissions of NOx, SO2, CO, NMVOC, particulate matter (PM2.5, PM10 and TSP) and Polycyclic Aromatic Hydrocarbons (PAHs) are covered so far.

Method

For developing of a estimation frame a survey regarding the number of such bonfires was carried out by an expert work (Wagner & Steinmetzer, 2018) [1]. As the result, questionnaires from municipalities and statistical projections for Germany for the year 2016 were checked. The project has shown a declining trend since 1990. On the basis of expert judgement, a further reduction of emissions in the future is expected.

Activity data

Activity data for this category are based on data from a step by step calculation: After the evaluation of the questionaires an extrapolation of the volume and the number of bonfires was made for Germany. The median values of clusters of city-sizes were used for the calculation, resulting in the following values ¹⁾:

¹⁾ Wagner & Steinmetzer, 2018: Jörg Wagner, Sonja Steinmetzer, INTECUS GmbH Abfallwirtschaft und umweltintegratives

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 $https://www.umweltbundesamt.de/sites/default/files/medien/1410/publikationen/2018-02-19_texte_11-2018_lager-brauchtumsfeuer.pdf; UBA-Texte_11/2018$