# Outdoor Music Festivals: Cacophonous consumption or melodious moderation?

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#### ABSTRACT

Large outdoor music festivals have emerged as part of a general expansion of licensed recreational activities but in research terms have been largely impenetrable due to commercial sensitivities. These sensitivities notwithstanding, the number and scale of such events necessitates a greater understanding of alcohol and drug use and the potential to promote normative protective behaviours in this context. This study examines self-reported alcohol and drug behaviours of 1,589 attendees at a music festival in Scotland during the summer of 2008. Similarities between outdoor rock music festivals and the dance club scene are considered alongside the challenges associated with risk reduction in these settings. Results show that alcohol was consumed by the majority of the sample; however, negative consequences were reported by a minority of respondents, suggesting evidence of controlled hedonism within a situation traditionally associated with unrestrained excess. Similarly the majority of the sample did not use drugs. The majority also report a number of selfregulating protective behaviours suggesting alcohol and drug use is contained within a developing social culture of "controlled intoxication". Results further suggest that although music festivals are transitory events there is a degree of consistency amongst attendees. Music festivals may therefore be atypical but potentially effective environments in which to increase protective behaviours using normative messaging and modern communications media. This study was resourced exclusively by local alcohol and drug partnerships.

Key words: Alcohol, Drugs, Outdoor Music Festivals, Protective Normative Behaviour

**Word Count** - 3,014

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# INTRODUCTION

Concern has been expressed throughout Europe about the increasing risk of alcohol (and drug) related harm to music festival attendees (EMCDDA, 2006). Research studies at music festivals are relatively rare not least because of the powerful commercial interests involved and their reluctance to support research that might attract negative publicity. As a result, most UK studies have tended to focus on the dance club scene and it is to this body of literature that the authors of this study looked first.

Music festivals and 'clubbing' venues and attendees have much in common, for example, the creation of a festival atmosphere, loud popular music, the search for temporary freedom from the restraints imposed by work or study and, according to some authors such as Measham (2006) evidence of a single-minded determination by attendees to get drunk.

Differences also exist in that the late 1990s dance club scene is associated with weekend recreational consumption of club drugs such as ecstasy, LSD, amphetamine and cannabis. Alcohol was not a prominent feature of the clubbing scene at that time. This situation has now changed and alcohol's status in the music and dance scene has been re-established. The EMCDDA (2006) reports evidence that alcohol producers and manufacturers are now beginning to capitalise on this potentially lucrative music market, targeting new drinks at younger age groups, especially young women. This report raises important concerns about the health risks of festival attendees and the risk of excessive drinking, which may be combined with illegal drugs. Other researchers express similar concerns with the introduction, by some alcohol producers, of flavoured alcoholic drinks and ready-to-drink mixers; aspirational advertising campaigns and; the remodelling and growth of licensed recreational sites to appeal to a broader range of customers (Parker et. al. 1998; Duff, 2005; and Measham 2006).

In general terms, the dance and music scene has tended to be characterised by an ethos of premeditated intoxication and a growth in licensed entertainment (Measham, 2006). Large outdoor music festivals have emerged as part of this general expansion but in research terms have been largely impenetrable. Commercial sensitivities notwithstanding, the number and scale of these events necessitates a greater understanding of alcohol and drug behaviours in this context and the potential for risk reduction. A web-search using the works "UK rock festivals" provided twenty-five licensed and heavily promoted events across the UK (Table 1). Among the unique aspects of this type of event are their duration, two-five days, and the tens of thousands of people using temporary camp-site facilities. This raises a number of public health concerns as well as the question of the efficacy of risk reduction efforts in this context.

#### Table 1- Here

4

The overall wisdom of investing limited resources to influence powerful commercial interests which may only exist in an area for a short period of time has been questioned (Mistral et al. 2007). This report by UKCAPP (2007) compares partnership risk reduction activity and community action programmes to "*a barricade of small sandbags attempting to hold back the effects of a huge rising flood of alcohol consumption*". Other researchers express similar views (Berridge et al. 2008). In contrast, the EMCDDA (2006) encourages a degree of optimism particularly in regard to demand reduction among attendees. The authors speculate that "For the majority of people, particularly young people, across the EU, drink and drug use are still not necessarily an integral element of dance music settings. For most people it is the music and social aspects that are the most central experiences in this environment".

Several studies emphasise the importance of setting and are worth mentioning here. Loud music and a 'clubbing' environment were associated with increased use of both alcohol and drugs and a need for more information among 18-30 year olds (The Health Promotion Agency, Ireland 2006). Bellis and colleagues (2002) demonstrated that music and dancing events were associated with the highest levels of consumption. Similar findings were demonstrated in research focusing on Edinburgh night clubs and pubs (Riley et al. 2001). A key finding in this study is the dominance of alcohol in the dance scene. Again, authors point to the shift from previous studies in which dance drug users were thought to avoid alcohol and raise concerns about the use of alcohol in conjunction with other drugs.

There is general agreement in the literature that both alcohol and drugs now dominate the increasing range of licensed recreational activity across the UK (Measham 2004). The harm associated with this type of activity is also well researched and accepted (Riley et. al. 200,

EMCDDA). There is less agreement on what can be achieved by attempting any type of intervention when personal, group, commercial and environmental factors combine to create a context geared to unrestrained overindulgence.

Risk reduction efforts in the 'club scene' have benefited from two U.K. Government publications the "national safer clubbing guidelines on good practice" (Webster, Goodman & Whalley, 2002); and "Good Practice in Managing the Evening and Late Night Economy", Office of Deputy Prime Minister (2004). No good practice guidelines have been produced for music festivals where efforts are still largely progressed locally, by alcohol and drug partnerships (ADPs), giving rise to a variety of local responses. The purpose of this study is to further our understanding of drug and alcohol use and protective normative behaviours in the context of large scale outdoor music festivals.

## **METHODS**

#### Participants

The population of interest are individuals attending licensed music festivals in Scotland. Festival attendees come from all parts of Scotland; therefore, the results of this work are thought to be of interest to Scotland as a whole. A total of 1,589 festival attendees voluntarily took part in an anonymous survey.

#### Measures

After reviewing the literature on this topic, a questionnaire was designed based on studies of licensed dance events in the UK and identified gaps in the existing literature. Questions included:

- demographics data: age and gender
- frequency of attending music festivals
- alcohol and drug use
- when alcohol was purchased i.e. before or at the event.
- getting home from the festival.
- negative consequences of alcohol or drug consumption
- protective normative behaviours

No quantity questions were included in the survey because, under these conditions, self reported quantity measures are known to be of limited value (Midanik, 1989, Brener, Billy, and Grady, 2003).

# Procedure

# Data collection

Data collection was undertaken by twelve trained volunteer interviewers at the music festival site. Volunteers were supported and supervised by professional staff who distributed manageable numbers of questionnaires, ten, to each interviewer. Upon completion of the

allocated forms, interviewers returned to the alcohol and drug partnership area for a well earned rest and debrief. Professional staff retained completed forms in a safe area during the festival.

## RESULTS

In all cases, where Chi-squares tests were carried out results are based on the raw scores and not the percentages. However, although chi square results produce a statistically significant relationship this does not necessarily mean that it is of any real importance. To determine the importance of the relationship the value of the *Cramer's V* test is also considered here. Anything below a value of 0.2 is considered relatively unimportant.

#### Characteristics of the sample

A total of 1,589 respondents completed the survey at the event. This consisted of 715 male respondents (45%) and 874 female respondents (55%), with a mean age of 23 years and a standard deviation of 7.3 years. The majority of the respondents (68%) had attended this festival previously, whereas the remainder were attending for the first time. The majority of the sample (77%) also reported attending between one and two music festivals a year, suggesting that although music festivals are transitory events there is a degree of consistency amongst attendees.

#### Geographical breakdown

Survey respondents provided the following information about their home location. There was no statistical difference between geographical area on any drug use or alcohol use.

#### Table 2 – Here

#### Alcohol Use

The majority of participants (n= 1398 i.e. 88%) reported drinking alcohol when attending the festival, with males significantly more likely to do so than females ( $X^2 = 27.4$ , df = 1, p < 0.001). The likelihood of attendees drinking alcohol was also found to increase with age (rpb = 0.073, p < 0.05).

The most popular alcoholic beverage consumed by attendees was beer (consumed by 58% of those who drank alcohol), followed by spirits (48%), cider (45%), wine (29%), a mixture of drinks (25%) and alcopops (20%). It was noted that males were significantly more likely to report drinking beer ( $X^2 = 2.5$ , df = 1, p < 0.01), whereas females were significantly more likely to report drinking wine ( $X^2 = 8.4$ , df = 1, p < 0.01).

Most respondents brought alcohol to the event and topped-up by purchasing more during the event itself. A total of 78% of respondents who drank alcohol reported bringing alcohol with them to the event, whereas 72% also reported buying alcohol at the event. Older adults (25 years and above) were found to be significantly more likely to bring alcohol with them (rpb = 0.132, p < 0.001) whereas young adults (16-24 years) were significantly more likely to buy alcohol at the event (rpb = -0.124, p < 0.001). A minority (24%) stated that they obtained alcohol from their friends at the festival, with males being significantly more likely to do so than females (X<sup>2</sup> = 39.67, df = 1, p < 0.001), as were older adults compared to younger adults (rpb = 0.204, p < 0.001). However, the strength of all age effects on both the source of

alcohol and choice of alcoholic beverage were relatively weak, suggesting that age is not a major factor in determining these alcohol behaviours.

#### Illegal Drug Use

In contrast to alcohol use the majority of respondents (68%) did not report any type of drug use whilst attending the festival. It should be noted, however, that those individual who used one drug also tended to use other drugs. The most commonly reported drug was cannabis, used by 24% of the sample. This was followed by ecstasy (16%), cocaine (13%), amphetamines (8%), LSD (6%) or other (4%). Only 2% of the sample reported using the bogus drug semeron, suggesting that individuals were not simply reporting using every drug. Individuals who reported using this bogus drug were excluded from the analysis. These findings are consistent with those reported by other researchers (Neighbors et. al. 2007), where alcohol was the most prevalent substance, the second most prevalent being cannabis, followed by stimulants.

#### Age and 'any' illegal drug use

Table 3 below illustrates that attendees in the age groups under 18 and over 35 were least likely to use illegal drugs. The 18 to 24 year group were most likely to do so.

Table 3 - Here

#### Gender

There were marked gender differences in reporting drug use. Males were almost twice as likely to do so (41%) compared to females (22%). ( $\chi^2 = 62.68$ , df = 1, p<0.001; Cramer's V = 0.20). A value of 0.20 on this test indicates the finding to be rather trivial. Table 4 list the results for specific substances.

#### Table 4 - Here

A greater proportion of males also reported experiencing negative consequences as a result of using alcohol or drugs at festivals. Males were more likely to report collapse (6% vs 2%); more likely to be affected by heatstroke (13% vs 8%); more likely to vomit (14% vs 8%); more likely to be involved in a fight (9% vs 3%); and, more likely to report unsafe sex (10% vs 3%).

#### **Getting Home**

The majority of respondents, 72%, reported that they would not drive themselves home after the festival. The study did not consider driving under the influence and it is not known whether the 28% who intended to drive were affected in this way.

#### Negative experiences

Negative experiences were in the minority. The two most common negative experiences reported by participants were vomiting (10.4%) and heatstroke (10.2%). A number of other experiences were reported by participants, which included engaging in unsafe sex (5.9%), fighting (5.8%), collapsing (3.8%) or other consequences (3.3%). Males were significantly more likely to experience collapse ( $X^2 = 15.6$ , df = 1, p < 0.001), heatstroke ( $X^2 = 7.9$ , df = 1, p < 0.01), vomiting ( $X^2 = 17.8$ , df = 1, p < 0.001) and fighting ( $X^2 = 27.9$ , df = 1, p < 0.001) compared to females.

#### Protective behaviours

It is important to stress the majority of protective behaviours evident in the sample. The majority brought sunscreen (51%), brought water (72%), ate whilst consuming alcohol (68%), stayed in groups of friends (68%) and kept mobile phone numbers (67%).

Other protective behaviours were evident amongst the attendees, though by no means the majority. These included bringing condoms (23%), pacing the consumption of alcohol (39%) and avoiding mixing alcohol and drugs (28%). Table 5, breaks down protective behaviours by gender. In terms of age, the under 18 age group were most likely to bring water and stick with friends (79%). This age group were also most likely to keep safe mobile numbers (74%).

#### Table 5 Here

# DISCUSSION

The point-biserials reported in this paper are statistically significant but likely to be so due to the large sample size. The actual size of the coefficients is small, as demonstrated by the Cramer V test results, and explains very little of the variance in age or gender differences.

This study used self-reported data, taking advantage of the relative ease and low cost with which they are gathered. Self-report data have become a popular way of measuring and describing the prevalence of many behaviours, including alcohol and illegal drug use in the general population. However, the validity of self-report data is sometimes called into question (e.g. Babor et al., 2000; Patrick et al., 1994; Frier et al., 1991; Midanik, 1988; Cooper et al., 1981). The data presented here are no better and no worse than other data of this type. Midanik (1989) acknowledged the variability in results obtained from using this type of methodology and suggests that the important issue is to understand the conditions in which self reports are likely to vary. In this survey, all efforts were made to ensure conditions were favourable e.g. The anonymity of respondents; the inclusion of a bogus drug 'semeron'; the information gathered was unlikely to be considered 'sensitive' by respondents in this context (Babor and Del Boca, 1992).

Despite the above limitations, results from the self-reported survey suggest several important points about the behavioural norms of festival attendees in general. Alcohol was consumed by the majority of the sample; however, negative consequences of drinking were only

reported by the minority of respondents, supporting Measham (2006) findings that within an environment historically associated with unrestrained hedonism, behaviour is contained and intoxication is controlled. Similarly the majority of the sample did not use drugs, which is perhaps in contrast to the stereotypical image of a music festival attendee. Participants also engaged in a number protective behaviours including; 72% do not drive themselves home, the majority brought sunscreen and water, eat when drinking alcohol, stay with groups of their friends and keep safe mobile numbers.

It is possible that these behaviours could be used as the basis for a social norms approach (McAlaney and McMahon 2007; McMahon et al 2007) to risk reduction in this and similar settings. This technique is based upon disseminating healthy norm messages amongst a population, which – taking advantage of the fact that individuals are driven to match the norm – encourages that behaviour. For example, advertising the fact that most people who go to music festivals take bottled water would encourage those who have not previously done so to do so in future. This should reflect in numbers reporting 'dehydration' as a negative consequence. If this approach is taken then it would be necessary to take gender effects into account, for example it would be important to use norm messages which were targeted at both males and females. Given that the results demonstrate what appears to be a group of attendees who regularly come to the festival this effect could become cumulative from year to year. This approach of increasing rates of protective norms by praising the behaviour of the healthy majority has been used extensively in the American college system and appears to be a cost-effective method of reducing harm (Perkins et al 2005). Figure 1 (below) illustrates the logic of social norms interventions.

14

#### Figure 1 – Here

A study by Measham and Brain (2005), explored the relationship between practices of selfregulation and social regulation and found that when drinkers discussed their desired and actual levels of intoxication in detail, they were bordered by concerns about health, personal safety and image. These factors were also found to interact with age and gender to produce a complicated set of influences on drinking practices resulting in controlled hedonism. These authors conclude that evidence is now beginning to emerge supporting the idea of a changing culture of intoxication. This emerging culture maintains some features of determined drunkenness as part of broader risk-taking, but this is thought to be restricted by what the authors refer to as being "bounded by occasion and location." It is within these contexts that risk reduction and demand reduction efforts could be developed.

Cacophonous consumption or melodies moderation? Results presented here suggest the answer lies somewhere in-between. Alcohol use at music festivals is the norm but negative consequences are uncommon. Drug use is minority behaviour. This reflects the shift previously noted by Riley (2001) and Measham (2004, 2006): alcohol is the drug of choice at clubbing venues and outdoor music festivals alike. Among the minority who use drugs, alcohol is no longer avoided, making poly-drug use a concern in this group. The impact of normative messages remains unknown in this context and requires further exploration. Findings presented elsewhere, however, suggest that sustained delivery of normative messages using new technologies could produce measurable reductions in problem behaviour

and increases in protective behaviour. Recent work by Bewick et. al., (2008) highlights the potential of web-based normative messaging for this age group.

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Table 1 – UK Multi-Day Rock Festivals in 2009

Name	Location and	Duration	2009 Dates	
Glastonbudget	Leicestershire,	3 days	May	
Wychwood	Cheltenham,	3 days	May	
Isle of White Festival	Isle of White,	3 days	June	
Download Festival	Leicester		June	
Rock Fest	Loch Ness, Scotland,	3 days	June	
Glastonbury	Somerset,	5 days	June	
Hyde Park Calling	London,		dates to be confirmed	
Guilfest	Surrey,	3 days	July	
T in the Park	Kinross, Scotland,	3 days	July	
Oxegen	Ireland	3 days	July	
Latitude	Suffolk	4 days	July	
Secret Garden Party	Cambridgeshire	4 days July		
Truck Festival	Oxfordshire	2 days	July	
Rock and Blues cancelled - council	Derbyshire 4 days		July 24	
denied licence application				
Gig in the Park	Suffolk	3 days	August.	
Bloom Festival	Cheltenham		Dates to be confirmed	
Beautiful Days	Devon	3 days August		
Green Man	Wales	3 days	August	
'V'Festival	Essex 2 days Augu		August	
'V' Festival	Staffordshire	2 days	August	
Leeds	Leeds	3 days	August	
Reading	Reading	3 days	August	
Last Days of Summer	Northampton		August dates to be confirmed.	
County Picnic	Co Laosis, Ireland	3 days	September	
Loopallu Fest	Ullapool, Scotland	2 days	September	
Guitarfest	Birmingham		September dates to be confirmed	

Post Code Area	Percentage	Number	
Edinburgh	19	301	
Glasgow	17	270	
Kirkcaldy	15	238	
Dundee	10	159	
Aberdeen	8	127	
Falkirk	6	95	
Perth	5	80	
Paisley	4	64	
Motherwell	3	48	
Inverness	2	32	
Kilmarnock	2	32	
Dumfries	1	16	
Galasheils	1	16	
Outside Scotland	7	111	

Table 2 – Home post code area of attendees

Percentages have been rounded to the nearest whole number

Age	Percentage	Number
<18	20%	318
18-24	32%	509
25-35	28%	445
35+	17%	270
Missing data	3%	47

Table 3 – age and illegal drug use at festivals.

Percentages have been rounded to the nearest whole number

Drug	Total %	Number	Male %	Male Number	Female %	Female Number	Statistical Significance
Cannabis	24	386	32	232	17	154	$(\chi^2 = 58.03, df = 1, p < 0.001;$ Cramer's V = 0.19)
Ecstasy	16	256	22	160	11	96	(χ <sup>2</sup> = 57.2, df = 1, <i>p</i> <0.001; Cramer's V = 0.19);
Cocaine	13	203	17	129	9	74	$(\chi^2 = 42.28, df = 1, p < 0.001;$ Cramer's V = 0.17).
Amphetamine	8	131	10	71	6	60	$(\chi^2 = 14.82, df = 1, p < 0.001;$ Cramer's V = 0.11);
LSD	6	91	8	57	4	34	$(\chi^2 = 21.17, df = 1, p < 0.001;$ Cramer's V = 0.12)
Other	4	62	6	43	2	19	$(\chi^2 = 6.54, df = 1, p < 0.05;$ Cramer's V = 0.07).

Table 4 – Gender and specific drug use.

 Festival goers who used one drug, tended to use others as well, hence the numbers in this table will not add up 100%. Percentages have been rounded to the nearest whole number.
 Cramer's V = 0.07).

Protective Behaviour	Total %	Number	Male %	Male Number	Female %	Female Number	Statistical Significance
Bring water	72	1144	68	486	75	658	(χ² = 7.75, df = 1, <i>p</i> <0.001; Cramer's V = 0.07).
Eat prior to drinking alcohol	68	1081	65	465	71	616	(χ² = 42.28, df = 1, <i>p</i> <0.05; Cramer's V = 0.06).
Stick with and look out for friends during the festival.	68	1081	59	422	75	659	$(\chi^2 = 51.26, df = 1, p < 0.001;$ Cramer's V = 0.18).
Keep safe mobile phone numbers	66	1049	66	472	66	577	n/s for gender
Bring sunscreen	51	810	41	293	59	517	(χ <sup>2</sup> = 46.92, df = 1, <i>p</i> <0.001; Cramer's V = 0.17)
Pace alcohol consumption by alternating alcoholic and non alcohol drinks	29	461	26	186	32	275	(χ² = 7.90, df = 1, <i>p</i> <0.001; Cramer's V = 0.07).
Avoid mixing alcohol and drugs	28	445	26	186	29	259	n/s for gender
Bring Condoms	23	365	35	250	13	115	(χ <sup>2</sup> = 107.82, df = 1, <i>p</i> <0.001; Cramer's V = 0.26).

# Table 5- Protective behaviours by gender

Percentages have been rounded to the nearest whole number.

Figure 1, The logic of normative interventions

