1 2	Perceptions of Canned Wine Drinkers in Outdoor Leisure Settings: A Vignette Study with Swiss Residents
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26 Abstract

This study explores the prejudices of Swiss residents toward consumers of canned wine in the context of outdoor leisure activities. Despite the convenience and environmental benefits of canned wine, it faces resistance from wine consumers based on prejudices. We investigate whether holiday outdoor settings such as beach resorts, ski stations, desert safaris, and outdoor parties could mitigate these prejudices, as leisure contexts might reduce the ritualistic consumption patterns associated with wine drinking. Using a vignette study, Swiss residents evaluated the personality traits of canned wine consumers across different scenarios. Our findings reveal that, overall, canned wine drinkers are judged negatively, particularly in the beach resort scenario, where traits like "health consciousness" and "environmental friendliness" are rated lower. Demographic factors, including age, gender, and education, as well as cultural background, significantly influence these judgements. Younger respondents and expatriates showed less prejudice compared to older and more traditional Swiss residents, suggesting a generational and cultural divide in attitudes. These results underscore the need for targeted marketing strategies to address persistent stereotypes and foster a more positive image of canned wine among diverse consumer segments.

Keywords: consumer perceptions; wine packaging; outdoor leisure activities; sustainability.

52 **1. Introduction**

Whether emerging from a busy week at work or embarking on an annual holiday, outdoor 53 spaces provide the perfect escape for individuals to refresh their minds and uplift their spirits [1, 54 2]. Traditionally, outdoor leisure encompasses stunning landscapes such as forests, coasts, lakes, 55 and mountains [3]. From the paradisiacal islands of the Caribbean to the winter wonderlands of 56 the Swiss Alps, these destinations offer diverse opportunities for relaxation and recreation [4, 5]. 57 58 Whether enjoying a meal on a sun-drenched beach, savouring a drink after skiing, or camping under a starry sky, these experiences are integral to holidays, inviting individuals to connect 59 with nature and indulge in specially chosen food and beverages [6, 7, 8]. Nevertheless, this 60 61 interaction with the environment can lead to significant waste, particularly from beverage consumption. Millions of wine bottles are consumed annually during holidays, contributing to 62 greenhouse gas emissions and a larger carbon footprint [9, 10]. An eco-friendly alternative, such 63 as canned wine, could mitigate this impact, offering convenience and sustainability. 64

When compared to glass bottles, aluminium cans offer several advantages: they are infinitely recyclable, lightweight, and convenient to carry over long distances, which can influence consumption patterns [11, 12, 13]. While canned wine tins are typically smaller in size (ranging from 187ml to 375ml -approximately two glasses of wine) compared to a standard 750ml bottle, their portability can lead to a significantly higher number of cans being carried. Additionally, cans, particularly those used for beers and spirits, have been linked to an increase in binge drinking episodes, especially among young people [14, 15].

Despite these benefits, canned wine raises some quality concerns. Wines packaged in aluminium 72 cans may accumulate higher levels of hydrogen sulphide (H₂S), resulting in a "rotten egg" 73 74 aroma, and are more susceptible to issues such as leakage and compromised seals compared to glass bottles [16, 17]. Additionally, aluminium's high thermal conductivity makes cans more 75 vulnerable to rapid temperature fluctuations during storage and transportation, potentially 76 affecting the wine's stability [18]. Consumer perceptions regarding the sustainability and quality 77 78 of wine in cans can also influence acceptance [19]. While aluminium cans are often praised for their recyclability and lower carbon footprint, they still face resistance from consumers [20]. 79 However, it is worth considering whether individuals might be more open to canned wines 80 during holidays and outdoor leisure activities, where the convenience of cans may be more 81 appealing. 82

This study aims to explore the potential for consumers to shift towards eco-friendly wine packaging alternatives during outdoor recreation. Specifically, it investigates whether biases associated with everyday wine consumption extend to perceptions of canned wine drinkers in
outdoor holiday contexts. We employed various scenarios representing outdoor leisure
destinations and surveyed a representative sample of Swiss residents.

88 1.1 Consumer attitudes towards wine packaging

The packaging of a product fulfils several functions, playing an essential role as a protective 89 90 device as well as a bridge for the communication between the producer and the final consumer [21]. This often impacts their purchase intentions and choices [22, 23]. In the case of wine, 91 packaging is especially important as it acts as a first extrinsic cue influencing the quality 92 evaluation of wines before the consumer tastes it [24]. In this case, the packaging works as a 93 visual stimulus through its shape, colour, label design, and written information [25, 26]. 94 Interestingly, as demonstrated by Piqueras-Fiszman and Spence [27], the wine packaging is also 95 96 a tactile stimulus. These authors showed that only by holding the bottle in their hands consumers can gauge the price and assess the quality of the wines, deciding that better, or at least more 97 expensive, wines come in heavier bottles. These results are important to keep in mind because if 98 consumers associate wines in heavier bottles as being of higher sensory quality, this presents an 99 environmental issue, as their positive attitude toward heavy bottles contributes to a larger carbon 100 footprint [28] and perhaps diminishes their likelihood of positively evaluating alternative wine 101 packaging options [29]. 102

103 1.2 The prejudice towards canned wine consumption

104 Historically, canned food began to emerge in the 19th century, with the utilisation of tin cans 105 developed to meet military needs during the Napoleonic Wars, which marked a significant milestone in food preservation [30, 31]. Although commercial applications were initially modest 106 in the 1930s, canned wines have only recently made a substantial impact in the retail market. 107 The global canned wine market generated \$235.7 million in revenue in 2021 and is projected to 108 grow to \$571.8 million by 2028 [17, 32]. Despite its advantages and presence in the market, the 109 consumption of canned wines faces significant challenges. In a recent study, Ruggeri et al. [15] 110 investigated Italian wine consumers' preferences and willingness to pay for canned wine 111 112 through a survey and the contingent valuation method. The authors collected data from 551 consumers regarding attitudes and preferences about their wine consumption, alternative 113 114 packaging acceptance, and motivations for accepting and refusing to purchase it. The results showed that only a minority of the respondents declared they would buy canned wine, while the 115 116 majority would refuse for reasons related to low-quality perception and poor consideration of alternative wine packaging. Therefore, it seems stereotypes and prejudice linked to itsconsumption could be an important casual factor discouraging the consumption of canned wine.

Stereotypes and prejudices are two concepts with old historical roots in the disciplines of 119 anthropology and psychology. Lippmann [33] first conceptualised *stereotypes* as 'pictures in our 120 heads' - later operationalised as cognitive schemas employed by social perceivers to interpret 121 information about others [34]. In contrast, prejudices encompass an affective or attitudinal 122 123 dimension, defined as a predisposition to respond unfavourably to individuals or objects based on their membership in a particular class or category [35]. Beyond their cognitive functions of 124 simplification and categorisation, these shaping elements of 'bias' also generate behavioural 125 expectations and result in specific behavioural consequences [36], as it was recently 126 demonstrated by Depetris-Chauvin et al. [37]. In this study, the authors sought to investigate 127 whether the country of origin (COO) of wines induces implicit biases - shaped by the 128 stereotypes and the prejudices attached to the COO - in the judgments of wine experts. Twenty-129 two wine traders from ten different countries were asked to evaluate their liking and provide 130 sensory descriptions of eight Pinot Noir wines sourced from Argentina, Brazil, France, and 131 Switzerland, under both blind and informed conditions. Their results reveal that COO bias 132 significantly influences wine experts' perceptions; once the COO was disclosed, the likeability 133 134 ratings for wines from Argentina and Brazil decreased as well as the evaluative language used by assessors to describe the wines. Under informed conditions, Brazilian and Argentinean wines 135 were frequently described using negative hedonic terms. Conversely, when participants were 136 aware of the wines' origins, French and Swiss wines were often described by positive sensory 137 138 descriptors.

Following recent research by Trochtová et al. [38], which indicates that outdoor leisure activities can transform an individual's values, particularly in relation to their educational and personal development, one might consider whether these recreational occasions could contribute to a less stereotypical perception of canned beverages and could potentially foster a more positive image while reducing stereotypes and prejudices.

144 1.3 Problematic and Research Questions

There is a growing body of research [15, 39] that documents the existence of a negative connotation associated with the consumption of wine in cans. For that reason, in the present study we aim to examine whether outdoor scenarios could help to mitigate those prejudices. This could be the case because when enjoying outdoor recreation, people are usually more relaxed,

experience less ritualistic consumption activities and are often more open to novelty than when 149 indoors in their everyday life. Furthermore, outdoor leisure spaces are typically shared among 150 individuals, and it is well established in the literature [40, 41] that individuals often engage in 151 social imitation. This tendency to align behaviours with those of their peers reinforces group 152 153 cohesion and facilitates collective decision-making. If this is the case, it could potentially encourage others to adopt this specific drinking behaviour. 154

155 Therefore, the aim of this study is to evaluate whether different outdoor leisure scenarios would lead people to judge the canned wine drinker more positively. Concretely, this research asks the 156 following two questions: 157

- Question 1: How is the canned wine drinker judged in different outdoor leisure 158 scenarios, and does the judgment vary depending on the specific scenario? 159
- Question 2: Do the demographic characteristics of the respondents influence their 160 judgements of canned wine drinkers? 161

162

2. Study Design 163

The study explores Swiss residents' judgements of individuals consuming canned wine using a 164 vignette study methodology. Participants in an online questionnaire were randomly assigned to 165 one of four outdoor recreational contexts (beach resort, ski station, desert safari, or outdoor 166 party) and were asked to evaluate sixteen personality traits of an individual drinking canned 167 wine on a seven-point Likert scale. The survey data are analysed through a multi-step approach, 168 including t-tests, MANOVA, and OLS regressions, to assess potential prejudices in personality 169 judgements based on context and demographic factors. 170

2.1 Respondents 171

A total of 795 Swiss residents participated in the study, with demographic information detailed 172 in Table 1. Data collection occurred between October 2021 and January 2022. Invitations to 173 174 complete the online questionnaire were sent via email to a nationally representative database of 15'000 Swiss adults. This database is maintained by the Haute Ecole de Gestion de Genève for 175 176 different market studies, and it is updated periodically. The final sample excluded incomplete responses and participants who identified as foreign residents. The sample size used in the 177 178 analysis is larger than those reported in comparable studies [42, 43]. Based on a medium effect size (Cohen's f = 0.25), an alpha of 0.05, and a desired power of 0.80, the required sample size 179

per group for a study with four groups is approximately 179 respondents. This results in a total sample size of around 714 respondents. Given that our study includes 795 respondents, this exceeds the required sample size, ensuring sufficient statistical power to detect meaningful effects.

- Variables % **Scenarios** Beach Resort 20.50 Desert Safari 36.73 20.63 Outdoor Party Ski Station 22.14 Language of the respondents German 49.69 French 34.97 Italian 9.81 5.53 English Female 52.45 Age cohort 18 to 29 years old 12.70 30 to 39 years old 12.70 40 to 49 years old 18.11 50 to 59 years old 26.54 60 to 69 years old 17.23 70 years or more 12.70 Highest level of formal education achieved Primary school 0.38 High School 2.64 Tertiary education (technical, vocation 33.46 University: Bachelor degree 29.69 University: Master/Doctorate degree 33.84 Wine consumption Never 8.18 Less than once a month 12.83 At least once a month 20.75 Around once a week 32.70 Several times a week 25.53 Have drunk canned wine 10.69 **Number of Respondents** 795
- 184 Table 1: Demographic information of the sample.

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186 The decision to focus on a sample of Swiss residents for this study is based on several 187 compelling justifications that enhance its relevance and impact. Although canned wine has yet to 188 achieve widespread popularity in Switzerland compared to Anglo-Saxon countries, it has the potential to occupy a unique position in a market where wine consumption ranks among the 189 highest per capita globally [44]. This context provides a fertile ground for exploring emerging 190 trends, particularly the introduction of innovative packaging such as canned wine, which may 191 192 attract new consumers prioritizing convenience and sustainability [45]. Switzerland's diverse 193 wine landscape, with several production regions, presents an opportunity to examine consumer judgements in a market characterised by openness and variety [46]. Notably, around two-thirds 194 of the wine consumed in Switzerland is imported, making it one of the more accessible markets 195 in Continental Europe for diverse wine offerings. This diversity allows for a more nuanced 196 understanding of how different wine styles, including canned options, are perceived against a 197 backdrop of traditional preferences. Additionally, the Swiss population's linguistic and cultural 198 variety offers a rich tapestry for examining how demographic and cultural factors influence 199 attitudes toward wine consumption. While this study focuses on Swiss residents, the diversity 200 within the Swiss population may provide valuable insights to inform broader discussions on 201 consumer behaviour in markets with high per capita wine consumption and openness to diverse 202 wine offerings. However, we present this as a potential hypothesis, recognizing that the 203 generalizability of these findings to other markets should be further explored in future research. 204 The insights gained from this specific demographic are nonetheless valuable for advancing both 205 academic understanding and industry practices in the evolving landscape of wine consumption. 206

In our sample, 8.18% of respondents identified as non-wine drinkers. Their inclusion is 207 essential for capturing a broader perspective on societal perceptions of eco-friendly wine 208 packaging, particularly canned wine in outdoor recreational settings. The acceptance of wine 209 in cans may be influenced not only by individual preferences but also by the attitudes and 210 biases of others, including non-wine drinkers, who help shape social norms and purchasing 211 decisions. Understanding these external perceptions is crucial, as they can impact the 212 broader acceptance and integration of alternative packaging formats. By incorporating both 213 wine consumers and non-consumers, we aim to provide a more comprehensive analysis of 214 societal attitudes, offering deeper insights into the potential shift toward sustainable 215 216 packaging solutions.

217 2.2 Methodology

In this study, we employ a vignette study methodology, a common and effective approach for examining people's social perceptions and attitudes in various contexts (see Atzmüller & Steiner [47] for a literature review). Vignette studies allow researchers to present participants with 221 controlled hypothetical scenarios, enabling them to assess judgments and impressions based on limited information. This method is particularly well-suited for our objective of exploring 222 judgements of individuals consuming canned wine, as it facilitates the examination of how 223 context influences personality attributions, prejudices, and stereotypes. Vignette studies have 224 been widely used in similar contexts, particularly in the field of consumer behaviour, to 225 226 investigate the social implications of food and beverage consumption. For instance, studies have demonstrated how judgements of individuals based on their food choices can significantly 227 impact perceptions and attitudes [48, 49, 50]. These studies highlight that the context in which 228 food or beverages are consumed often shapes the social judgments that individuals make about 229 others. 230

In our study, participants were informed that they were being tested on how well they could 231 assess an individual's personality based on very little information. They were randomly assigned 232 to one of four conditions that differed in terms of the context presented. They read the 233 234 description: "Imagine you are on holidays. You are at a beach resort /or/ ski station /or/ desert safari /or/ outdoor party, and you see a person drinking wine from a can." After the description 235 of the context, participants were asked to project themselves into the scenario until they could 236 describe the person consuming the wine in a can. They were invited to rate their impression of 237 238 the drinker according to 16 personality attributes on a scale from 1 to 7 (see the personality traits in Table 2). Additionally, participants indicated whether they thought the person was a man, a 239 woman, or either of the two, and how old they perceived the person to be. The instructions and 240 scenarios were presented in the native language of the subjects. 241

While vignette studies provide valuable insights, we acknowledge the limitations regarding ecological validity, particularly the extent to which hypothetical scenarios reflect real-world contexts. To address this, we carefully selected contexts familiar to the Swiss population, ensuring a reasonable degree of relatability. Additionally, we conducted a pre-test with a smaller sample to ensure the clarity and realism of the scenarios. This process helped refine the scenarios, providing greater methodological transparency.

Given the familiarity of the Swiss population with the *beach resort*, *outdoor party*, and *ski* station contexts and the potential unfamiliarity with the *desert safari* context, the randomization consisted of a 20% chance of receiving one of the familiar contexts and a 40% chance of receiving the unfamiliar *desert safari* context. In our final sample, 21% of respondents were presented with the *beach resort* context, 21% with the *outdoor party*, 22% with the *ski station*, and 36% with the *desert safari*. This strategic design enables us to explore the interplay between context, beverage choice, and perceived personality traits, contributing valuable insights intoconsumer behaviour and the social dynamics surrounding food and drink consumption.

We conducted preliminary checks on the distribution of key variables across contexts and found that while most variables met strict homogeneity criteria, some deviations were present. Recognizing the importance of addressing potential discrepancies, our primary approach involves controlling for demographic factors such as language, gender, age, education, and wine consumption within our regression models. By integrating these sociodemographic controls, we ensure that any observed effects are adjusted accordingly, minimizing potential biases arising from differences in sample composition, which remain marginal.

To minimize social desirability bias, we ensured the anonymity of responses and maintained confidentiality throughout the data collection process. The use of randomization and multiple context scenarios further reduced the likelihood of socially desirable responses. Nevertheless, we acknowledge that social desirability bias remains a potential limitation of self-reported data, and we will address this limitation in the discussion section.

268 2.3 Data analysis

The analysis aims to assess whether the perceived personality traits of canned wine drinkers are subject to prejudice and stereotype, particularly negative ones, and whether these judgements vary across different recreational contexts and are influenced by demographic and cultural factors. To achieve this, a multi-step methodological approach is employed, encompassing ttests, Multivariate Analysis of Variance (MANOVA), and regression analysis.

The initial step involves conducting a series of one-sample t-tests to evaluate whether the judgement of each personality trait significantly deviates from neutrality. Specifically, each trait is tested against a neutral value of 4 (on a Likert scale ranging from 1 to 7) to determine if there are any significant biases -positive or negative- in the judgement of canned wine drinkers. This step is crucial for identifying any overarching prejudice and stereotype in how canned wine consumers are judged. The results of these t-tests provide an initial understanding of whether general stereotypes or preconceived notions about canned wine drinkers exist.

Building on this, MANOVA is employed to assess whether these judgements, once identified, differ across various recreational contexts, such as *beach*, *desert*, *party*, or *ski*. MANOVA is chosen for its capability to simultaneously test for differences across multiple dependent variables (in this case, the sixteen personality traits), providing a comprehensive view of how context-driven variations might alter these pre-existing prejudices and stereotypes. Four common test statistics -Wilks' Lambda, Pillai's Trace, Lawley-Hotelling Trace, and Roy's
Largest Root- are applied to evaluate the overall significance of the contextual effect,
determining whether the leisure scenarios significantly influence the combined judgments of
traits.

290 Following the MANOVA, a series of ordinary least squares (OLS) regression analyses are conducted to further investigate the role of individual characteristics and contextual factors in 291 292 shaping judgements. Sixteen separate regressions, one for each personality trait, are performed to disentangle the specific effects of contextual variables and demographic covariates -such as 293 294 age, gender, education level, and cultural background- on perceived traits. Dummy variables 295 represent each leisure scenario, with the beach scenario serving as the baseline for comparison. Additional predictors include self-reported familiarity with wine to control for experience-based 296 biases. This approach allows for a detailed exploration of how judgements of canned wine 297 consumers vary not only by context but also by individual respondent characteristics, providing 298 299 insights into the nuanced ways these factors interact.

Through this multi-step methodology, the study systematically tests the hypotheses that there may be prejudices and stereotypes in the perceived personality traits of canned wine drinkers and that these prejudices and stereotypes are context-dependent and influenced by demographic factors, offering a comprehensive understanding of the drivers behind these judgements.

304 **3. Findings**

305 Our first objective is to establish which personality traits are perceived for a person that consumes wine in cans in different outdoor recreational activities and to test if those traits are 306 context dependent. The results of the analysis are shown in Table 2. The table displays the 307 average judgements of a canned wine consumer's personality traits across our four leisure 308 scenarios. The scale proposed to the participants ranged from 1 to 7, with a midpoint of 4 309 representing a neutral assessment. Values above or below this midpoint indicate a positive or 310 negative skew in perception, respectively, and asterisks denote the statistical significance of the 311 difference from the neutral point. 312

In the *beach resort* scenario, the personality traits associated with canned wine consumers are generally judged negatively (13 out of the 16 traits). For example, traits such as " Health Conscious" (3.13), " Environmentally Friendly" (2.96), and "Vulgar" (2.99) are significantly below the neutral point, suggesting that these consumers are not particularly health-conscious or environmentally friendly and are perceived as less elegant. Traits like "Disciplined" (3.60) and 318 "Popular" (3.52), though still below the neutral point, suggest that while these consumers are not 319 perceived as highly disciplined or popular, they are not judged extremely negatively in these 320 areas. The strongest positive trait is "Extroverted" (4.49), showing these consumers as more 321 extroverted compared to the neutral assessment.

For the *desert safari* scenario, similar patterns emerge. Consumers are judged as less "Health Conscious" (2.91) and less "Environmentally Friendly" (2.79), both significantly below the midpoint. In total, eleven traits are considered negative, four are neutral, and only one is positive. The perception of being "Imaginative" (3.84) or "Rich" (3.89) is slightly more favourable compared to the *beach resort* scenario. Overall, the traits remain below or near neutral, with "Extroverted" (4.53) standing out as a distinctly positive attribute.

In the *outdoor party* scenario, there are slightly more favourable judgements. There are nine negative personality traits, five neutrals and two positives. The "Extroverted" trait scores the highest (4.54), followed by "Satisfied" (4.26). Traits like "Gracious" (3.94). "Interesting" (3.92), and "Emotional" (3.90), which, while not statistically different from the neutral point, suggest a somewhat less negative image of canned wine consumers in this context. Despite this, negative judgements persist for traits like "Environmentally Friendly" (3.00), "Vulgar" (3.05) and " Education Level" (3.30).

In the *ski station* scenario, consumers are again perceived similarly to other scenarios, with "Health Conscious" (3.11) and "Vulgar" (2.85) being notably negative traits. However, traits like "Beautiful" (3.91) and "Conscious" (3.92) are perceived less negatively, though not statistically different from the neutral, "Extroverted" (4.47) continues to be the most positively skewed trait, suggesting a consistently extroverted image across scenarios.

Overall, the results in the table reveal that consumers of wine in cans are generally perceived as more extroverted across all scenarios but are seen less favourably in terms of most other personality traits, including "Health Consciousness", "Environmental Friendliness", and "Elegance". The *outdoor party* scenario seems to offer slightly more positive judgements compared to the *ski station* and *desert safari* contexts, and the *beach resort* scenario seems to generate the worst judgement.

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349 Table 2: Personality traits of canned wine drinkers across outdoor leisure scenarios

	Scenarios						
Personality traits	Beach Resort	Desert Safari	Outdoor Party	Ski Statior			
Undisciplined - Disciplined	3.60***	3.28***	3.68***	3.60***			
Not health Conscious - Health Conscious	3.13***	2.91***	3.29***	3.11***			
Not Environmentally Friendly - Environmentally Friendly	2.96***	2.79***	3.00***	3.14***			
Unimaginative - Imaginative	3.76**	3.84*	3.77*	3.66***			
Unpopular - Popular	3.52***	3.50***	3.52***	3.67***			
Boring - Interesting	3.65***	3.80**	3.92	3.72***			
Unemotional - Emotional	3.82*	3.96	3.90	3.84			
Vulgar- Elegant	2.99***	2.98***	3.05***	2.85***			
Ungracious - Gracious	3.84*	3.69***	3.94	3.81**			
Dissatisfied - Satisfied	4.17*	4.14	4.26**	4.05			
Introverted - Extroverted	4.49***	4.53***	4.54***	4.47***			
Unconscious - Conscious	4.07	3.87	3.91	3.92			
Low Education Level - High Education Level	3.33***	3.42***	3.30***	3.41***			
Poor - Rich	3.59***	3.89	3.22***	3.60***			
Ugly - Beautiful	3.85*	3.74***	3.80**	3.91			
Bad - Good	3.85*	3.73***	3.92	3.81**			
Number of respondants	163	292	164	176			

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Our previous analysis suggested some differences across scenarios, and we used Multivariate Analysis of Variance (MANOVA) to explore this further. MANOVA is a statistical technique used to examine the differences between groups on multiple dependent variables simultaneously. In our case, it helps determine whether different consumption contexts (*beach resort, ski station, desert safari,* and *outdoor party*) significantly influence the combined set of dependent variables (the sixteen personality traits).

357 The results of the four common MANOVA test statistics are as follows:

Wilks' Lambda (W), which tests whether the consumption context accounts for a significant portion of the variance in the personality traits, yielded a value of 0.9160.
This value is close to 1, indicating a moderate effect. However, the F-statistic (F(42, 100))

- 361 2308.7) = 1.65) with a p-value of 0.0056 (p < 0.05) suggests a statistically significant difference across scenarios. 362
- Pillai's Trace (P), a robust measure that sums the contribution of each canonical 363 _ dimension, was 0.0858 (F(42, 2340.0) = 1.64, p = 0.0060; p < 0.01). While the value 364 suggests a modest effect, the significant result confirms that the context has an influence 365 on judgments. 366
- Lawley-Hotelling Trace (L), sensitive to smaller samples, showed a value of 0.0897 367 (F(42, 2330.0) = 1.66, p = 0.0051; p < 0.05). This significant result supports the finding 368 that the perception of personality traits varies across different contexts, though the effect 369 size remains moderate. 370
- 371

Roy's Largest Root (R), which focuses on the largest canonical correlation, was 0.0574 (F(14, 780.0) = 3.20, p = 0.0001; p < 0.01). This indicates a strong effect of context, 372 373 particularly on the dominant dimension.

374 Overall, these results suggest that the context of consumption significantly influences judgements of personality traits associated with canned wine consumers (our first research 375 question), although the magnitude of this effect is generally moderate. This nuanced finding 376 highlights the importance of context in shaping judgements, while acknowledging that other 377 378 factors may also play a role.

Building on these findings, we further explore the role of additional factors that may influence 379 judgements of canned wine drinkers, as articulated in our second research question. We propose 380 that demographic factors -specifically age, gender, and social status (proxied by education 381 level)- and the respondent's culture (proxied by language) significantly affect participants' 382 judgements of individuals consuming wine from cans. A previous study [15] suggests that 383 younger participants and those with lower educational attainment are more likely to ascribe 384 positive, casual, and trendy characteristics to the canned wine drinker. In contrast, older 385 participants and those with higher education levels tend to attribute more negative or neutral 386 387 traits. The study did not find any difference across gender groups. Additionally, the cultural 388 background of respondents may also play a crucial role in shaping these judgements [51]. To test the effects of these factors, we conduct a regression analysis in which age, gender, education 389 level, and culture of origin serve as predictors in addition to the context of consumption, and the 390 391 sixteen personality traits are the outcome variables. Furthermore, we include self-reported 392 familiarity with wine in our model to account for any experience-based biases that could 393 influence judgements.

The results of our regression analysis are presented in Table 3. We run sixteen regressions using ordinary least square, one for each personality trait. The analysis is based on our sample of 795 respondents in all cases. The F-statistic indicates that the regression models are significant for 15 out of the 16 traits, except for "Beautiful", where the model does not fit well. While context, demographics, culture, and wine knowledge account for some of the variation in the perceived traits of canned wine drinkers, much of the variation remains unexplained by these factors, suggesting that additional influences are at play.

We first analyse the influence of consumption context on the judgments of the personality traits. 401 402 We use dummy variables to capture the effect of each scenario. Beach resort, the scenario for 403 which we found more negative prejudices and stereotypes, is the benchmark against which we compare the other three scenarios. When we compare the desert safari versus beach resort, 404 those drinking canned wine in the desert are judged as less "Disciplined", less "Health 405 Conscious", and less "Conscious" but "Richer". In the comparison between the outdoor party 406 and *beach resort*, there is only one significance difference, the canned wine drinker in the party 407 is judged "Poorer". Interestingly, there are no significant differences in trait judgement between 408 canned wine drinker in ski station and beach resort. These results put our previous findings in a 409 better perspective, once we have controlled for several relevant covariates, the judgements of the 410 411 personality traits do not vary significantly across scenarios. On average, there seems to be a negative bias among Swiss resident against those consuming canned wines across several 412 outdoor leisure activities. 413

Our dataset consists only of Swiss residents so we cannot extend our findings to other cultural 414 contexts. However, our survey was offered in four different languages, three of the four national 415 languages: German, French and Italian (Romansh, a language spoken by less than 1% of the 416 Swiss population, was not included) and English as lingua franca for the many foreigners living 417 and working in Switzerland. Our regression analysis allows us to compare Swiss respondents 418 from the French, German, and Italian speaking subpopulation vis-à-vis expats living in 419 420 Switzerland (those who responded in English). Here we found significant differences. In nine of the sixteen traits the French speakers showed a significantly more negative judgement of the 421 422 canned drinker versus those answering in English. The same is the case for seven traits both 423 among the German and Italian speaking Swiss residents. The speakers of the three national 424 languages agree in four traits, they consider the canned wine drinker as less "Health Conscious", less "Environmentally Friendly", less "Imaginative", and less "Interesting" than those who 425 426 answered the questionnaire in English. It is worth noticing that our results also show two cases

where the estimated coefficients are positive. Swiss German speakers judged canned winedrinkers more "Gracious" and "Extroverted" than the English speakers living in Switzerland.

Our estimations reveal a significant influence of age on the judgement of canned wine drinkers' personality traits. For all traits except "Rich", the estimated coefficients are negative, indicating that younger respondents tend to have a less negative view of these consumers. Although only nine out of these fifteen negative coefficients are statistically significant, the overall pattern suggests a notable generational divide: younger respondents exhibit a markedly lower negative prejudices towards canned wine consumers.

We also examine the influence of respondents' gender and educational level. Our findings 435 436 indicate that female participants tend to perceive canned wine consumers as less "Health Conscious" and less "Environmentally Friendly" but judge them as more socially "Popular" 437 438 compared to men. Additionally, higher educational levels are associated with more negative such of wine consumers regarding traits "Elegance", 439 judgements canned as "Conscientiousness", "Education", and moral character ("Good"). However, respondents with 440 higher educational levels are more likely to judge these consumers as "Extroverted". 441

Finally, we use an ordinal categorical variable representing self-reported familiarity with wine to 442 account for experience-based biases in judgements. This variable has five levels, ranging from 443 "Never" to "Several times a week," reflecting increasing frequency of wine consumption. In our 444 sample, this variable shows a positive and statistically significant association with three 445 attributes: "Health Consciousness", "Environmentally Friendly", and "Gracious". However, this 446 construction may obscure the fact that both non-drinkers and very frequent wine drinkers might 447 judge canned wine drinkers negatively, albeit for different reasons. Indeed, when we replace the 448 449 ordinal categorical variable with dummy variables for each frequency category, we observe more nuanced results. Those who never drink wine perceive canned wine drinkers as less 450 "Health-Conscious" and less "Beautiful", while those who consume wine several times a week 451 judge them as less "Elegant" and less "Beautiful". 452

453

	(1) discipline d	(2) he alth conscious	(3) e nvironme ntally frie ndly	(4) imaginative	(5) popular	(6) interesting	(7) emotional	(8) elegant
Desert Safari	-0.320***	-0.254**	-0.174	0.010	-0.0716	0.0809	0.0678	0.0150
	(-2.76)	(-2.13)	(-1.26)	(0.07)	(-0.54)	(0.59)	(0.51)	(0.12)
Outdoor Party	0.058	0.082	-0.032	-0.038	-0.016	0.253	0.088	0.0212
	(0.44)	(0.61)	(-0.21)	(-0.23)	(-0.11)	(1.64)	(0.58)	(0.15)
Ski Resort	0.001	-0.056	0.167	-0.081	0.145	0.077	0.030	-0.124
	(0.01)	(-0.42)	(1.10)	(-0.50)	(0.99)	(0.50)	(0.20)	(-0.87)
Swiss French	-0.391**	-0.662***	-0.835***	-0.832***	-0.356	-0.738***	-0.249	-0.403*
	(-2.00)	(-3.29)	(-3.59)	(-3.40)	(-1.59)	(-3.18)	(-1.10)	(-1.85)
Swiss German	-0.302	-0.568***	-0.921***	-0.950***	-0.508**	-0.480**	-0.181	-0.739***
	(-1.54)	(-2.82)	(-3.96)	(-3.89)	(-2.27)	(-2.07)	(-0.80)	(-3.40)
Swiss Italian	-0.278	-0.629***	-0.531**	-0.690**	-0.601**	-0.557**	-0.295	-0.217
	(-1.23)	(-2.72)	(-1.98)	(-2.45)	(-2.34)	(-2.09)	(-1.14)	(-0.86)
Age	-0.033	-0.082***	-0.135***	-0.184***	-0.050	-0.177***	-0.169***	-0.056*
0	(-1.11)	(-2.70)	(-3.83)	(-4.96)	(-1.48)	(-5.04)	(-4.93)	(-1.68)
Female	0.066	-0.243***	-0.330***	0.045	0.204**	0.042	0.096	0.021
	(0.76)	(-2.71)	(-3.19)	(0.41)	(2.05)	(0.41)	(0.96)	(0.21)
Education level	-0.075	-0.055	-0.091	0.00003	-0.024	-0.047	0.031	-0.157***
	(-1.53)	(-1.10)	(-1.57)	(0.00)	(-0.43)	(-0.81)	(0.56)	(-2.89)
Wine experience level	0.021	0.091**	0.075*	0.072	0.035	0.026	0.016	-0.004
•	(0.58)	(2.49)	(1.78)	(1.62)	(0.86)	(0.62)	(0.38)	(-0.10)
Constant	4.226***	4.064***	4.539***	5.011***	4.024***	4.939***	4.429***	4.337***
	(12.63)	(11.84)	(11.43)	(12.01)	(10.55)	(12.49)	(11.50)	(11.67)
N	795	795	795	795	795	795	795	795
Prob > F	0.0105	0.0000	0.0000	0.0000	0.0244	0.0000	0.0001	0.0001
-	0.032	0.044	0.059	0.065	0.025	0.053	0.044	0.050
R-square t statistics in parentheses	0.032	0.044 * p<0.10	0.059 ** p<0.05	0.065 *** p<0.01	0.025	0.053	0.044	0

454 Table 3: Determinants of perceived personality traits (OLS regression results)

	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
_	gracious	satisfied	extroverted	conscious	high education level	rich	beautiful	good
Desert Safari	-0.133	-0.106	-0.0618	-0.236*	0.152	0.332***	-0.110	-0.102
	(-1.20)	(-0.76)	(-0.46)	(-1.70)	(1.24)	(2.72)	(-1.09)	(-0.96)
Outdoor Party	0.104	0.068	0.084	-0.198	-0.037	-0.371***	-0.053	0.064
	(0.84)	(0.44)	(0.56)	(-1.26)	(-0.27)	(-2.70)	(-0.47)	(0.54)
Ski Resort	-0.031	-0.142	-0.049	-0.170	0.147	0.011	0.067	-0.007
	(-0.26)	(-0.92)	(-0.33)	(-1.10)	(1.08)	(0.08)	(0.59)	(-0.06)
Swiss French	0.153	-0.534**	0.320	-0.738***	-0.579***	0.017	-0.175	-0.266
	(0.82)	(-2.28)	(1.41)	(-3.14)	(-2.80)	(0.08)	(-1.03)	(-1.48)
Swiss German	0.344*	-0.079	0.596***	-0.349	-0.529**	0.050	-0.031	-0.274
	(1.84)	(-0.34)	(2.62)	(-1.49)	(-2.56)	(0.24)	(-0.18)	(-1.52)
Swiss Italian	0.340	-0.677**	-0.053	-0.700***	0.047	0.030	-0.129	0.096
	(1.58)	(-2.51)	(-0.20)	(-2.59)	(0.20)	(0.13)	(-0.66)	(0.46)
Age	-0.009	-0.074**	-0.127***	-0.092**	-0.008	0.060*	-0.0003	-0.041
	(-0.34)	(-2.08)	(-3.67)	(-2.56)	(-0.25)	(1.93)	(-0.01)	(-1.50)
Female	0.029	0.052	-0.040	-0.091	0.055	-0.034	0.029	0.076
	(0.34)	(0.49)	(-0.40)	(-0.87)	(0.59)	(-0.37)	(0.38)	(0.95)
Education level	-0.073	0.042	0.159***	-0.113*	-0.128**	-0.036	-0.048	-0.090*
	(-1.55)	(0.72)	(2.80)	(-1.92)	(-2.47)	(-0.70)	(-1.12)	(-2.00)
Wine experience leve	0.056*	0.069	0.0005	0.052	-0.022	-0.034	0.008	0.014
-	(1.65)	(1.63)	(0.01)	(1.22)	(-0.59)	(-0.93)	(0.26)	(0.43)
Constant	3.684***	4.332***	3.974***	5.237***	4.336***	3.609***	4.083***	4.469**
	(11.56)	(10.84)	(10.24)	(13.07)	(12.27)	(10.27)	(14.03)	(14.56)
Ν	795	795	795	795	795	795	795	795
Prob > F	0.0450	0.0007	0.0002	0.0015	0.0022	0.0000	0.5664	0.0275
R-square	0.021	0.037	0.042	0.033 *** p<0.01	0.034	0.046	0.018	0.026

Table 3 (cont): Determinants of perceived personality traits (OLS regression results)

458 **4. Discussion**

The present experiment, which examined how consumers of canned wine are judged across different outdoor leisure scenarios and considered the potential for greater acceptance of this alternative packaging, yielded several noteworthy findings. We discuss these below considering our research questions.

463 4.1 How is the canned wine drinker judged in different outdoor leisure scenarios, and does the464 judgment vary depending on the specific scenario?

Our first finding regarding the research question indicates that consumers of canned wine are 465 generally judged negatively by respondents across all scenarios. Even in relaxed holiday 466 settings, this context does not appear to consistently transform the act of drinking canned wine 467 into a positive experience. The results indicate that, while the personality trait being 468 "Extroverted" is consistently judged positively across all scenarios, many other traits are 469 negative and context dependent. Negative judgements are especially pronounced in the beach 470 resort setting, where consumers are seen as less "Health-Conscious", less "Environmentally 471 Friendly", and more "Vulgar". This considerably negative judgement associated with the beach 472 resort scenario may be influenced by historical representation of beach parties, along with the 473 conflict between tourists' desires to consume an untouched, pristine natural environment and the 474 remnants of beach parties, such as beer cans, as described by the concept of the 'tourist gaze' 475 [52, 53]. In contrast, the outdoor party scenario elicited comparatively more favourable 476 477 judgments, though negative prejudices and stereotypes persisted.

A second interesting outlet is that the MANOVA results further suggest that the outdoor 478 scenario appears to play a role in shaping the respondents' prejudice, albeit with a moderate 479 effect size. This suggests that while the context influences these judgements it does not 480 completely reshape them. The nuanced results, with varying degrees of negative and positive 481 traits across outdoor scenarios, go in the same direction of the results of Ruggeri et al. [15], 482 483 when studying the perception of Italians towards alternative packaging consumption acceptance, underscore the complexity of consumer perceptions and indicate that factors beyond context, 484 485 such as underlying stereotypes or broader societal rules toward canned wine, might be at play. Even though this was not tested in the experiment, these negative judgements may arise from a 486 487 general disapproval of the 'drinking' aspect within the scenario, rather than specifically targeting canned wine. Several studies [54, 55, 56, 57, 58] have shown that outdoor drinking is not always 488 viewed positively by the public. Social drinking in public (i.e., in public outdoor spaces) is not 489

universally accepted [59], often restricted for religious reasons in countries such as those with
Muslim majorities, as well as for behavioural and political reasons in various Western nations.
For example, in Chile, consuming alcohol in outdoor public spaces, such as by the beach, is
prohibited, except on New Year's Eve when it is permitted. Similar restrictions are observed in
other Western societies, including Norway, Poland, and certain states in the US, where drinking
in outdoor public areas is frequently viewed as unacceptable or even outlawed.

496 4.2 Do the demographic characteristics of the respondents influence their judgements of the497 canned wine drinker?

Our regression analysis provided deeper insights into the role of demographic factors, cultural background, and wine familiarity in influencing these judgements. The generational divide in attitudes is particularly noteworthy. Younger respondents consistently displayed a lower negative prejudice towards canned wine consumers, suggesting a shift in attitudes that could be leveraged by marketers targeting younger demographics. This generational gap may reflect broader changes in social norms and the growing acceptance of non-traditional wine formats among younger people.

Gender and education level also emerged as significant factors, though not always aligning with 505 our initial expected results. Findings from previous studies suggest that we might expect female 506 participants to associate more positive, casual, and trendy characteristics with canned wine 507 drinkers [60, 61]. Contrary to expectations, female participants judged canned wine drinkers as 508 less "Health-Conscious" and less "Environmentally Friendly", despite being more likely to 509 attribute traits like "Popularity" to them. Similarly, previous studies suggest that participants 510 with lower levels of formal education would probably judge canned wine drinkers more 511 512 favourably than those with higher education. Our results partially support this. Education level had a dual effect: while respondents with lower educational attainment judged canned wine 513 drinkers as less "Vulgar" and more "Conscious", those with higher education associated them 514 with "Extroversion" but not with any other positive personality trait. These findings suggest that 515 516 demographic variables interact in complex ways with consumer judgements, reflecting both individual experiences and broader societal values. 517

518 Cultural background, proxied by the language of response [62, 63], further complicates the 519 picture. The significant differences observed between Swiss respondents of different linguistic 520 backgrounds and expatriates suggest the role of cultural norms and regional identities in shaping 521 attitudes, a well-known factor in cross cultural literature [64, 65, 66]. French, German, and 522 Italian-speaking Swiss respondents generally held more negative views of canned wine drinkers than expatriates, particularly regarding traits like "Health Consciousness" and "Environmental
Friendliness". This finding indicates that judgements are not only context-specific but also
culturally contingent, shaped by regional values and social norms.

Our analysis of self-reported wine familiarity adds another layer of complexity to these 526 527 judgements. Regular wine consumers displayed more nuanced views, associating canned wine drinkers with lower "Elegance" and "Beauty" but not necessarily other negative traits. This 528 529 suggests that experience with wine might mitigate certain prejudices and stereotypes, though it does not eliminate them entirely. These results indicate that familiarity with traditional wine 530 consumption may influence judgements of alternative formats in both positive and negative 531 532 directions, depending on the attribute in question. These results are consistent with previous 533 findings in the literature [15, 29, 39].

534 Overall, our findings suggest that while context and demographics are significant, they do not 535 fully explain the variation in judgements. The persistence of negative prejudices and stereotypes 536 across different scenarios and demographic groups indicates that canned wine still carries a 537 stigma, despite its growing popularity.

538

539 **5.** Conclusions

540 Our study offers valuable insights into the complex, context-dependent perceptions of canned 541 wine consumers. The data reveals a consistent pattern of negative prejudices, particularly in 542 relation to "Health Consciousness," "Environmental Friendliness," and "Elegance," with 543 variations across different leisure scenarios. While outdoor party settings generated slightly 544 more favourable judgments, the overall outlook remains skewed toward the negative. This 545 suggests that despite the rising popularity of canned wine, there may still be significant barriers 546 to altering public perception, even in more informal or unconventional contexts.

547 Demographic factors further complicate these judgments. Younger respondents are generally 548 less critical, indicating a potential generational shift in consumer attitudes. This could signal the 549 emergence of a more favourable market for canned wine among younger consumers, who may 550 be more open to innovative packaging. Gender and education also play important roles, though 551 not always in predictable ways. These insights suggest that marketers could benefit from 552 adopting more nuanced strategies, targeting specific demographic groups in ways that address 553 the varied and often unexpected nature of consumer biases. 554 Cultural factors are equally influential. The observed differences in perception among Swiss linguistic groups highlight the importance of aligning marketing strategies with regional cultural 555 norms. Swiss respondents were generally more negative in their assessments compared to 556 557 expatriates, suggesting that local cultural dynamics may either hinder or facilitate the acceptance of canned wine. These findings underscore the importance of developing marketing approaches 558 559 that not only appeal to younger, more open-minded consumers but also address entrenched prejudices among more traditional segments of the population. Tailoring strategies to these 560 varying cultural contexts will be critical in reshaping consumer perceptions. 561

To mitigate negative biases and capitalize on the growing consumer interest in sustainability, wine marketers should emphasize the environmental benefits of canned wine, such as recyclability, reduced carbon footprints, and the convenience of lightweight packaging. Campaigns that highlight these environmental advantages are likely to resonate with an increasingly eco-conscious consumer base. Moreover, incorporating sustainability labels or certifications could play a significant role in shifting perceptions, as they have been effective in positively influencing consumer attitudes toward other eco-friendly products.

Promotional strategies will be key in overcoming stereotypes and encouraging trial purchases 569 within the wine sector. Tasting events could provide consumers the opportunity to challenge 570 their preconceived notions about canned wine, while eco-labelling would reinforce the 571 sustainability message. Given the evident generational divide in perceptions, focusing on 572 younger consumers, who are more open to innovative packaging could serve as a crucial entry 573 point into the market. Producers might also benefit from positioning canned wine at the centre of 574 sustainability-focused campaigns, particularly in contexts where convenience and environmental 575 impact are paramount, such as outdoor leisure activities or travel. 576

Beyond the immediate marketing strategies for canned wine, it is essential to consider broader 577 578 societal shifts, including changing attitudes toward convenience, health, and environmental concerns, all of which significantly influence wine consumption trends. As consumer 579 preferences increasingly prioritize convenience and sustainability, the demand for innovative 580 packaging such as canned wine may grow. Canned wine offers a convenient, portable, and easy-581 582 to-store option, appealing to consumers seeking practicality, especially in outdoor settings or onthe-go lifestyles. Additionally, the shift toward healthier consumption patterns may contribute to 583 a broader acceptance of alternatives to traditional wine bottles, as consumers may perceive 584 585 canned wine as a lighter, more manageable option. With its recyclable packaging and reduced carbon footprint, canned wine aligns with the growing eco-consciousness of today's consumers. 586

587 By highlighting the intersection of convenience, health, and sustainability, marketers can tap 588 into evolving consumer priorities and strengthen the appeal of canned wine.

This study also offers important insights for industry stakeholders and policymakers, 589 590 underscoring the role of public policy in supporting sustainable innovation within the wine 591 sector. As consumer attitudes shift towards convenience and health-conscious choices, it becomes vital for policies to encourage eco-friendly packaging and sustainable production 592 practices. Industry players can benefit from policies that incentivize the development of 593 convenient and sustainable packaging solutions, while governments can help educate the public 594 595 on the health and environmental benefits of alternatives like canned wine. By aligning marketing 596 strategies with these broader societal shifts, the wine industry can better meet consumer demand for convenience, health, and sustainability, positioning itself as a progressive sector that meets 597 the needs of modern consumers while contributing to environmental and societal goals. 598

While our study illuminates the complexities of consumer perceptions, it also highlights areas 599 for further research. Understanding the underlying reasons for these prejudices and stereotypes 600 will be critical for future marketing efforts. Social identity, media portrayal, and the role of 601 tradition may all play a part in shaping these judgments, and further investigation into these 602 factors could provide deeper insights, Additionally, exploring consumer attitudes beyond 603 Switzerland would offer a more global perspective on the market potential for canned wine. We 604 acknowledge the limitations inherent in our study, particularly the low R² values in our 605 regression models and the reliance on self-reported data, which may be influenced by social 606 desirability bias. Despite these limitations, the statistically significant findings and model 607 validity underscore the broader patterns identified. Future research could refine our 608 understanding of these consumer attitudes and address the challenges associated with measuring 609 perceptions and prejudices. 610

In conclusion, while there is clear potential for expanding the market for canned wine -611 especially among younger, more open-minded consumers -significant challenges may remain. 612 613 Overcoming the negative associations tied to health consciousness, environmental impact, and elegance will be crucial for gaining broader acceptance. To this end, producers and marketers 614 should develop targeted messaging that highlights the practical advantages of canned wine, such 615 as its convenience and sustainability, while also addressing the deep-rooted stereotypes that 616 persist, particularly among older and more traditional consumer segments. By doing so, they can 617 618 help reshape consumer perceptions and position canned wine as a viable and responsible choice 619 for modern, eco-conscious consumers.

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