MEASURING GAMBLING AND PROBLEM GAMBLING IN ONTARIO

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EXECUTIVE SUMMARY

The following report presents the results of a survey regarding the nature and extent of gambling and gambling problems in Ontario. The survey was conducted in the spring of 2001 by the Canadian Centre on Substance Abuse and the Responsible Gambling Council (Ontario) under a grant from the Ontario Problem Gambling Research Centre. The study is intended to determine the prevalence of gambling and problem gambling among Ontario adults, to describe the characteristics of individuals experiencing gambling-related problems, to describe the relationship between problem gambling and substance abuse, and to discuss the implications of the findings to treatment and prevention programming.

Design and Methodology: The study is based on a stratified random sample of all persons aged 18 or older living in Ontario households that have a telephone. A sample of 5,000 persons was interviewed by Viewpoints Research, Inc., from March to May, 2001. Approximately two-thirds (62%) of those contacted refused participation, and 1% did not complete the interview, leaving a response rate of 37%. The response rate is within the range found in other gambling studies and the distribution of demographic characteristics compares favourably with those of the population of Ontario. Nonetheless, the data were weighted by age and region to help offset any sampling bias.

Respondents were asked a series of questions regarding their involvement in various gambling activities, problem gambling behaviour, adverse consequences resulting from gambling, and socio-demographic and other characteristics relating to problem gambling. The measure of gambling problems used in this survey is the recently developed Canadian Problem Gambling Index (CPGI), consisting of nine items: chasing losses, escalating bets to maintain excitement, feeling one might have a problem with gambling, borrowing or selling to get gambling money, betting more than one can afford, feeling guilty, being criticized by others for gambling behaviour, incurring harm to one's health and having financial difficulties to one's household due to gambling (Wynne and Ferris, 2001).

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The CPGI was developed to better measure gambling problems in the general population in comparison with the more commonly used South Oaks Gambling Screen (SOGS), which is based on studies of clinical populations of pathological gamblers. The CPGI makes a distinction between non-problem gambling, those at risk of developing serious problems, those with moderate gambling problems and those with severe problems. It has been shown to have good construct validity and reliability in psychometric testing (Ferris and Wynne, 2001). Unfortunately, because the CPGI is a relatively new measure, the results of this survey cannot be compared with prior surveys. However, the results do provide a baseline measure for future studies on trends in problem gambling among Ontario adults.

Rates and Correlates of Gambling: Gambling is a very common activity, and approximately five of six Ontario adults (83%) report gambling in some fashion in the previous year. The most common gambling activity is the purchase of lottery tickets (64.6%), followed by raffle tickets (51.0%), scratch tickets (31.6%) and playing slot machines or video lottery terminals (VLTs) (28.3%). In addition, 13.2% bet on the outcome of a sporting event, 11.8% bet on arcade or video games, 10.0% bet on cards or games with friends, 9.5% gamble at out-of-province casinos, 8.5% play bingo, 7.2% gamble at casino table games, 6.4% make speculative investments, 6.0% play Sports Select and 5.4% bet on horse races. Finally, less than 1% of the population report gambling on the Internet (0.6%) or making bets with a bookie (0.4%). Examination of the frequency of gambling shows that the activity that respondents participate in most frequently is lottery tickets. For most Ontario adults who gamble, frequency of participation is less than once a month.

With regard to the characteristics of different types of gamblers, those who buy lottery, scratch or raffle tickets tend to be fairly representative of the general population in terms of demographic characteristics. Most other gambling activities involve a disproportion numbers of young adult males. Sports betting is particularly likely to involve males, while speculative investments and travelling out of province to casinos are most common among those with higher income. Contrary to the popular image of bingo as an elderly activity, young adults are the most likely to gamble at bingo games. Internet gambling is reported by less than 1% of respondents.

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The most common reasons given for gambling involve sociable motives: 28.0% do it "for the enjoyment of gambling", 26.0% to watch others gamble, 24.3% to win money, 21.1% for the entertainment, and 17.5% to socialize. Similarly, the most commonly cited benefits of going to casinos is to win money (42.2%), because it's exciting or fun (36.6%), or to socialize (26.1%).

Gambling Problems: Perhaps the major finding of this study is that there are a significant number of Ontario adults who report problems as a result of their gambling. Of the total sample, 16.8% were non-gamblers, 69.8% report that they gamble without any problems, 9.6% are classified as "at risk" in that they have indicated relatively minor problems, 3.1% score as having moderate gambling problems and 0.7% are rated as having severe gambling problems on the CPGI. Thus, 3.8% or approximately 340,000 Ontarians 18 years or older report problems of sufficient magnitude to rank as having moderate or severe gambling problems on the CPGI.

The most commonly reported gambling problems relate to income loss or debt. As the severity of gambling problems increases, the likelihood of experiencing relationship problems, loneliness or increased isolation, health problems, and stress or depression also increases. For most gambling activities, as the frequency of gambling increases, the likelihood of experiencing gambling problems increases. The most common gambling activities among those experiencing severe gambling problems are playing lottery tickets, slot machines, scratch tickets and casino table games. Although those with severe gambling problems constitute a minority of all gamblers for any type of gambling activity, it is noteworthy that nearly one in every four Ontario adults who gamble with a bookie (23.8%) report severe gambling problems. Severe problem gamblers are also the most likely to gamble at casinos and the most likely to report committing a crime to support their gambling. The reader is cautioned that the causal priority between gambling and associated problems is not always clear. For example, to what extent does involvement in crime lead to gambling problems and to what extent does gambling lead to crime? Although the connection that the respondents in this survey make between their gambling problems and various adverse consequences appears to be quite plausible, one cannot be certain of a causal linkage with only subjective data from one point in time. An important task for future research is to conduct longitudinal studies examining the relationship between gambling behaviour and associated problems over time in order to better establish the causal role of gambling problems.

Those with moderate or severe gambling problems tend to be disproportionately young (between the ages of 18 and 24), unattached males. Students and unemployed persons have above-average rates of gambling problems. Education is negatively related to gambling problems, with highest rates of moderate or severe problems among the better educated. Low-income persons are less likely to gamble at all, but they are more vulnerable to developing gambling problems if they do. Placing a high importance on religion in one's life relates to lower levels of gambling, but it does not relate either positively or negatively to the development of gambling problems among those who gamble.

Those with moderate or severe gambling problems cite more perceived benefits from gambling, and they are more likely to remember a big win as well as a big loss from gambling. The more severe a gambling problem, the more likely that the gambler holds a false belief that the odds of winning change depending on previous outcomes of a game or by using a betting system. Moderate or severe problem gamblers are more likely to have health problems. Approximately one in four moderate or severe problem gamblers report being under a doctor's care for emotional or physical problems due to stress, and more than one in three report feeling seriously depressed at times. Approximately one in sixteen severe problem gamblers (6.1%) have even considered suicide.

These problems are exacerbated by the finding that problem gamblers tend to have very poor social supports and they are often poorly informed of available services that might help their situation. Moderate or severe problem gamblers have fewer persons they feel they can turn to for help with personal problems. The majority are unaware of toll-free help lines and more than two in five are unaware of gambling counselling services. Gambling problems are often complicated as well by substance misuse. Problem gamblers are not more likely to drink, but they tend to have higher rates of consumption than other gamblers. Moderate and severe problem gamblers smoke more often than other gamblers, and they are more likely to use illicit drugs. They are more likely to use alcohol or drugs while gambling, and to get high on alcohol or drugs while gambling. The higher one's involvement in gambling problems, the greater the likelihood

that there is a family history of alcohol or drug problems. These findings indicate that the problems of substance abuse and gambling are closely connected.

Conclusions: This study has potentially important implications for interventions aimed at preventing or dealing with gambling problems in Ontario. The finding that there are a significant number of Ontarians who experience moderate or severe problems resulting from their gambling indicates a strong need for the continued expansion of services relating to problem gambling. There are also implications for the targeting of interventions. In particular, the finding that there are high rates of gambling problems among young adults indicates a need to enhance policies and programs aimed at preventing or reducing gambling problems in this age group. Another challenge regarding the provision of gambling problem services concerns elderly Ontarians. While less common than among younger adults, gambling problems among the elderly are often exacerbated by social isolation and concurrent health problems.

The findings of this study also have implications for the study of underlying determinants of gambling problems. It is striking that many Ontarians have mistaken beliefs concerning randomness and probabilities while gambling, indicating a need for enhanced prevention programming that provides valid information on the real odds of success in gambling. The finding that gambling problems and substance abuse are closely connected indicates the potential usefulness of screening clients in gambling counselling and treatment programs for alcohol and drug problems. By the same token, persons presenting with alcohol and drug problems should be screened for gambling problems.

Although the findings have immediate implications for the targeting and design of interventions for gambling problems, the real value of this study lies in the provision of baseline data for the evaluation of future trends. It is hoped these findings will be used in combination with those from future studies to establish trends in gambling behaviour and to better understand the underlying determinants of gambling problems. The eventual goal is to develop a body of knowledge that will allow policy makers and gambling specialists to more effectively deal with gambling problems.

1. INTRODUCTION

Over the past two decades, the availability of gambling in a variety of forms has increased markedly in Canada (Ladouceur, 1996), and in North America more generally. Prior to the 1970s, legal gambling in Canada was limited to occasional charity bingos and raffles, midway games of chance, pari-mutuel wagering on horse races, private non-commercial card games, and friendly bets between individuals (Campbell & Lowman, 1988). Thirty years later, legalized gambling in Canada has expanded to include slot machines, video gambling devices, casinos, large-scale bingo halls, and sports and off-track horse race betting. A recent report indicates that the total net gambling profit for all gaming sectors and for all provinces in 1999-2000 is \$5.7 billion, which indicates a 7.5% increase since 1998-1999 (Canadian Gaming News, 2001).¹

In Ontario, the first casino opened in Windsor in 1994, followed by Casino Niagara and Rama in 1996. Total net gaming profits for Ontario amount to \$2.0 billion, of which \$919.9 million comes from casinos (Canadian Gaming News, 2001). In 1999-2000, Ontario Lotteries had a net total income of \$731.9 million dollars (Canadian Gaming News, 2001). Ontario leads all provinces in the amount of money wagered annually on charitable gaming, with a net income of \$344.1 million (Canadian Gaming News, 2001). Horse racing is another popular activity, bringing in \$48 million dollars across the country. As much as two-thirds of all racetrack wagering occurs in Ontario (Canadian Gaming News, 2001).

The increased expansion and availability of gambling opportunities has led to concerns about the potential social and economic impacts. In 1997, an inter-provincial group of government agencies with responsibility for mitigating problem gambling commissioned the Canadian Centre on Substance Abuse to conduct research that (1) clarified the concept of problem gambling with the general population; (2) developed an operational definition to guide research, treatment and prevention; and (3) designed and tested a new instrument for measuring problem gambling in non-clinical settings (i.e., the community). This three-year research project entitled "Measuring Problem Gambling in Canada" has recently been completed. A main outcome is the development of a new measurement instrument, the Canadian Problem Gambling Index (CPGI), which has been validated in a Canada-wide survey (Ferris & Wynne, 2001). It is envisaged that over the next two years a number of provinces will conduct prevalence studies based on the CPGI.

The most recent data on the prevalence of gambling in Ontario is from a 1995 study conducted by the Addictions Research Foundation (Ferris & Stirpe, 1995). The findings showed an increase in gambling participation from an earlier study conducted in 1993 (CFCG/Insight Canada, 1993), with 84% of Ontarians having participated in some gambling activities in the past year. Of the total sample, 1% of respondents were gambling at probable pathological levels. The South Oaks Gambling Screen (SOGS) was used to assess the prevalence of problem gambling.

For the most part, the SOGS has been the preferred instrument among researchers assessing the prevalence of pathological or problem gambling in the general population. One of the main reasons is that it is the instrument that has received the most validity and reliability testing (Shaffer et al., 1997). However, it has not been without criticism. One of the main criticisms has centred on the fact that it was developed in a clinical setting, and yet it is used in general population studies (Culleton, 1989).

The purpose of this research is to provide current information on: (1) the gambling activities engaged in by adults in Ontario, and (2) the extent and characteristics of problem gambling in Ontario communities. Because it is better at measuring gambling problems in the general population, the CPGI will be the survey instrument used in this study. Although the SOGS would permit comparison of results to earlier estimates of pathological gambling, it was developed from clinical studies of pathological gamblers and it does not measure nonpathological gambling problems as well as the CPGI. The present study is timely and will contribute not only to knowledge of gambling and problem gambling in the Province of Ontario, but to an inter-provincial and national understanding of this serious public health issue as well.

The focus of this study is the general population of adults. In addition, the Canadian Centre on Substance Abuse and the Responsible Gambling Council (Ontario) will be using the data related to older adults (60 years of age and older) to prepare a report specifically examining gambling practices among this population.

1.1 Study objectives

The overall goal of the proposed study is to improve understanding of the extent and nature of gambling among adults in Ontario. The following objectives will guide the study:

- 1. To determine the prevalence of gambling and problem gambling within the population of adults in Ontario;
- To describe and analyze the characteristics and behaviour of individuals experiencing gambling-related problems;
- 3. To describe and analyze the relationship between problem gambling and substance use;
- 4. To offer recommendations that may assist Ontario agencies in targeting and designing treatment, prevention and education programs that aid problem gamblers.

1.2 Study significance

This research is deemed to be significant on at least two main levels. First, it will provide baseline data on the extent to which adults in Ontario gamble, including the types of gambling activities preferred, frequency and duration of play, and amounts wagered. This information will be important to the provincial and municipal governments, and to community agencies, as well as non-governmental groups and citizens seeking information relating to gambling policy in the province. Second, data will be developed on the nature and extent of gambling problems in Ontario, and on the characteristics, behaviours, and consequences of uncontrolled gambling behaviour. This information will be very important for government and community agencies charged with helping problem gamblers as it will (1) provide insights that may assist in the development of programs and services for problem gamblers, and (2) provide a prospective baseline against which to measure the effectiveness of these program/service interventions over time.

2. DESIGN AND METHODOLOGY

A telephone survey was conducted with a sample of 5,000 adults 18 years of age and older from Ontario. The data was collected during the months of March to May, 2001. Of the total sample, 1,500 individuals were 60 years of age and older. This over-sampling was conducted in order to provide precise estimates and more thorough information on the prevalence and nature of gambling and problem gambling among older adults. A report specific to gambling among older adults in Ontario is currently being prepared by the Canadian Centre on Substance Abuse and the Responsible Gambling Council (Ontario). The focus of this report is the general population.

2.1 Sampling strategy

A stratified, random sample of approximately 5,000 Ontario residents aged 18 years and older who live in a household with a phone were contacted by telephone. The sample was stratified by region, age and gender to ensure adequate representation on these variables. Stratification by region was conducted according to the seven provincial District Health Council (DHC) regions so that the resultant descriptive statistical data and analysis may be useful to DHS advisory councils in planning/evaluating gambling-related programs and services.

The sample size provides reasonably exact estimates of population means on key variables. For example, 5,000 cases provide a 95% confidence interval for a sample estimate of 50% (i.e., the estimate with the largest range of variation) of plus/minus 1.4%. Thus, one can be reasonably certain (95 out of 100 times) that the true population mean falls between 48.6% and 51.4% when the sample mean is 50% on a particular variable. For smaller sample means, the range of confidence intervals is even smaller. Thus, for example, an estimate of 3% (the approximate prevalence of moderate problem gambling) based on a random sample of 5,000 has a 95% confidence interval of plus/minus less than one-half of one per cent, specifically between 2.53% and 3.47%. The standard error of estimates and associated confidence intervals in the sampling design may be slightly larger due to the stratified sampling design, but the sample is of sufficient size to ensure reasonably robust and generalizable results.

The quotas for the sample are presented in Table 2.1. As shown, the sample has accurate regional and gender distribution. As indicated, individuals 60 years and older were over-sampled for a study that is specifically examining gambling among older adults. In the present study, data are weighted to reflect the distribution of the population (see Chapter 2 – Analytical Strategy).

	Total Population 18 yrs+		Sam	ple	
	Frequency	Per cent	Frequency	Per cent	
		Region			
East	1,227,904	13.7	700	14.0	
Central East	1,421,141	15.8	735	14.7	
Toronto	1,958,721	21.8	1,130	22.6	
Central West	1,582,269	17.6	825	16.5	
Central South	878,349	9.8	530	10.6	
South West	1,181,023	13.2	680	13.6	
North	724,100	8.1	400	8.0	
Total	8,973,507	100.0	5,000	100.0	
		Age			
18-24	984,697	12.1	466	9.3	
25-34	1,715,097	21.1	860	17.2	
35-49	2,551,657	31.4	1,467	29.3	
50-59	1,080,254	13.3	688	13.8	
60 or over	1,780,066	21.9	1,500	30.0	
Refused/missing			19	0.4	
Total	8,111,771	100.0	5,000	100.0	
Gender*					
Male	4,595,320	48.9	2,409	48.2	
Female	4,803,929	51.1	2,591	51.8	
Total	9,399,249	100.0	5,000	100.0	

Table 2.1: Sample description

*Based on individuals 15 years and older in Ontario

2.2 Response rates

Table 2.2 below summarizes the number of telephone contacts, and results, for obtaining the sample for this study. A total of 30,776 households were successfully contacted and asked if anyone in the household met the age requirement. Of these, 17,067 were either not eligible or their eligibility could not be ascertained, leaving 13,709. Of these, 8,592 refused to participate,

and a further 106 terminated the survey before completion. Therefore, among the households with a known eligible respondent, the response rate was 37%, the refusal rate was 62%, and 1% resulted in incomplete interviews.

Total number of attempts	115,589
Not in service	2,695
Fax/ modem line	507
Business line	516
Total eligible contacts (total number)	111,871
Busy	4,977
Answering machine	37,840
No answer	25,615
Communication/ language problem	1,719
Illness/ Incapable	333
Select person not available	10,611
Total actual contacts	30,776
Disqualified or not ascertained	17,067
Respondent refusal	8,592
Terminated prior to completion	106
Completed interview	5,011

Table 2.2: Contact summary

Response rates for general problem gambling surveys in Canada range from 65% in Ontario (Ferris & Stirpe, 1995) to 25% in British Columbia (Gemini Research, 1994). The response rate achieved in this study is toward the lower range. Survey research professionals in the United States and Canada have found that response rates for telephone surveys in the general population have declined in recent years as individuals in the general population become more reluctant to participate in this type of research (Gemini Research, 1994). The over-sampling of older adults may have also contributed to the low response rate. That is, older adults may be more suspicious of telephone solicitations and as such, less likely to participate in a study. Unfortunately, demographic information from those who refused to participate was not collected.

2.3 Data collection

Data collection was conducted by Viewpoints Research Inc. Telephone numbers were selected from a database based on a random selection of live residential numbers from the Ontario regions. This sample selection technique ensures that both listed numbers, numbers listed after directories have been published, and unlisted numbers are included in the sample. Potential households were selected through the use of Random Digit Dialling (RDD), and within each household, the closest birthday method was used to select a respondent.

If someone in the household met the age requirements, the interviewer asked to speak to that person. If more than one person met the age requirements, the person whose birthday came next was asked to complete the interview (a process used to randomize the selection within each household). Only one individual from each household was asked to participate. The telephone script for consent is contained in Appendix A. At the end of each interview, participants were asked if they would be willing to be re-interviewed in the future. Of the total sample, 91% (n=4,209) agreed.

Using a computer-assisted telephone-interviewing system (CATI), survey responses were entered in real time by trained telephone interviewers. The CATI system is designed to ensure that data are entered accurately within the guidelines set out in the questionnaire, eliminating data entry errors. Additionally, ongoing monitoring by supervisors helped to ensure that surveys were entered in a precise and consistent manner. Supervisors verified 10% of all completions.

2.4 Measurement instrument and gambling classification

The core of the questionnaire was the Canadian Problem Gambling Index (CPGI), which consists of four main sections: gambling involvement, problem gambling behaviour, consequences of problem gambling behaviour, and correlates of problem gambling behaviour (Ferris & Wynne, 2001). As well, a number of substance use questions were added to the questionnaire. A copy of the questionnaire is contained in Appendix A. Problem gambling is defined as "gambling behaviour that creates negative consequences for the gambler, others in his or her social network, or for the community" (Ferris & Wynne, p.3). The problem gambling severity index has nine items, which include: chasing losses, escalating to maintain excitement, borrowing/selling to get gambling money, betting more than one can afford, feeling guilty, being criticized by others, harm to health, financial difficulties to one's household, and feeling one might have a problem with gambling. The first four items are behavioural items, the last five are consequences of gambling. Most of the items are adapted from SOGS or DSM. The exceptions are harm to health and financial difficulties to one's household, which are original to the CPGI.

Nine of the items are scored, placing an individual at one of four levels. Level 1, which consists of a score of 0, constitutes the problem-free gambling group. Level 4, a score of 8 or greater, represents the most severe problem gambling group. The creators of the CPGI labelled Levels 1 to 4 as non-problem gambling, low-risk gambling, moderate-risk gambling and problem gambling (Ferris & Wynne, 2001). However, we were uncomfortable with these labels, particularly low risk and moderate risk. There is very limited information on the progression of gambling problems. Until more is learned, through longitudinal studies, a decision was made to use the following labels: non-problem gamblers, at risk, moderate problems and severe problems (see Table 2.3).

Gambling Levels	Score/# of items
Level 1: Non-problem gamblers	Score of 0/no items
Level 2: At risk	Score of 1-2
Level 3: Moderate problems	Score of 3-7
Level 4: Severe problems	Score of 8 + (to maximum of 27)

Table 2.3: C	PGI scoring	and labels
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The CPGI has received extensive psychometric testing (Ferris & Wynne, 2001). Reliability of the new measure was shown to be good, with a co-efficient alpha of 0.84. Testretest analysis produced an acceptable correlation of 0.78. Validity was tested a number of ways. Face/content validity was addressed through continual feedback from numerous gambling experts. A test of criterion validity was achieved by comparing the CPGI to DSM-IV and the SOGS. It was found that the CPGI was highly correlated with these two measures (0.83). Construct validity was demonstrated by expected correlations between CPGI scores and money spent on gambling, gambling frequency, and number of adverse consequences reported.

2.5 Analytical strategy

For the purpose of this study, data are weighted according to the age distribution in each of the seven health regions in Ontario. Table 2.4 compares the demographic characteristics of the weighted and unweighted sample.

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	Weighted Sample	Unweighted Sample
Characteristics:		
Gender		
Male	49.0	48.2
Female	51.0	51.8
Marital Status		
Married or living with partner	59.5	59.2
Widowed	5.2	8.4
Divorced/Separated	11.3	11.2
Single, never married	24.0	21.1
Age		
18-24	11.1	9.3
25-34	20.5	17.2
35-49	35.0	29.3
50-59	16.4	13.8
60 +	16.6	30.0
Missing	0.4	0.4
Education		
< high school	9.9	12.1
high school	22.5	23.2
Some post-secondary	12.2	12.1
Completed post-secondary	32.5	30.8
Completed post-graduate	22.7	21.8
Employment Status		
Employed	71.6	63.2
Unemployed	9.4	8.8
Students	3.2	2.7
Retired	15.2	24.7
Other	0.5	0.5
Household Income		

< \$20,000	9.6	10.1
< \$30, 000	8.3	9.1
< \$40,000	9.1	9.5
< \$50, 000	8.8	8.7
< \$60, 000	9.5	9.2
\$60, 000 or more	54.6	53.4
Region		
East	14.0	14.0
Central East	14.7	14.7
Toronto	22.6	22.6
Central West	16.5	16.5
Central South	10.6	10.6
South West	13.6	13.6
North	8.0	8.0

The SPSS computer statistical software package was used to provide frequency distributions, and to conduct chi-square test and analysis of variance procedures to determine overall levels of association. All reported tests of significance were set at probability levels equal to or greater than 0.95. Post-hoc testing was completed on select variables to determine which gambling categories differed from one another. This procedure was followed to avoid excessive error rates. The confidence intervals associated with each gambling category appear in Table 2.5.

Many of the analyses contained in this report examine differences associated with gambling level, which includes non-gamblers and the four gambling levels measured by the nine scored items. Non-gamblers are those who indicate that they have not gambled on any of a list of 17 gambling activities in the past year. The scored questions on the CPGI – the ones that assess gambling level – are not asked if individuals indicate that they have not gambled on any of the gambling activities in the past year, or if an individual states that "I do not gamble" twice.²

			Non-	Non-		Moderate	Severe		
	All	Gamblers	Gamblers	Problem	At risk	problems	problems		
Percentage	Confidence Interval + and -								
95%	0.63%	0.69%	1.47%	0.75%	2.11%	3.66%	7.93%		
90%	0.86%	0.96%	2.02%	1.04%	2.91%	5.04%	10.92%		
85%	1.03%	1.14%	2.41%	1.23%	3.46%	6.00%	13.00%		
80%	1.15%	1.27%	2.70%	1.38%	3.88%	6.72%	14.56%		
75%	1.25%	1.38%	2.92%	1.50%	4.20%	7.28%	15.76%		
70%	1.32%	1.46%	3.09%	1.58%	4.45%	7.70%	16.68%		
65%	1.37%	1.52%	3.22%	1.65%	4.63%	8.02%	17.36%		
60%	1.41%	1.56%	3.31%	1.69%	4.75%	8.23%	17.83%		
55%	1.43%	1.58%	3.36%	1.72%	4.83%	8.36%	18.11%		
50%	1.38%	1.59%	3.37%	1.73%	4.85%	8.40%	18.20%		
45%	1.43%	1.58%	3.36%	1.72%	4.83%	8.36%	18.11%		
40%	1.41%	1.56%	3.31%	1.69%	4.75%	8.23%	17.83%		
35%	1.37%	1.52%	3.22%	1.65%	4.63%	8.02%	17.36%		
30%	1.32%	1.46%	3.09%	1.58%	4.45%	7.70%	16.68%		
25%	1.25%	1.38%	2.92%	1.50%	4.20%	7.28%	15.76%		
20%	1.15%	1.27%	2.70%	1.38%	3.88%	6.72%	14.56%		
15%	1.03%	1.14%	2.41%	1.23%	3.46%	6.00%	13.00%		
10%	0.86%	0.96%	2.02%	1.04%	2.91%	5.04%	10.92%		
5%	0.63%	0.69%	1.47%	0.75%	2.11%	3.66%	7.93%		
(N)	4631	3787	844	3214	408	136	29		

Table 2.5: Calculation of confidence intervals for Gambling Survey (0.95confidence level)

For example, the percentage of non-problem gamblers who play purchase scratch tickets is 36%. To find the confidence interval, look under the non-problem gambler column, and find the percentage closest to 36%. In this case, the closest % is 35%. The confidence interval is approximately then 36% plus or minus 1.65%. For individuals with severe gambling problems, the percentage who purchase scratch tickets is 54.5%. The closest value in the table is 55%. The confidence interval is approximately 54.5%, plus or minus 18.11%.

2.6 Study limitations

A major restriction of any cross-sectional design is that, strictly speaking, causal inferences are not possible with data from only one point in time. Observed statistical relationships only signify associations between variables. In order to infer a causal relationship, a

longitudinal research design is required. An important limitation associated with telephone surveys is that the results may not be generalizable to the population at large, particularly those who do not have access to a telephone or refuse to participate. This is particularly a concern given the low response rate associated with this study. However, as indicated above, the demographic characteristics of both the weighted and unweighted samples compare well with the demographic characteristics of the general population of Ontario.

3. GAMBLING AND GAMBLING PATTERNS IN ONTARIO

This section provides an overview of gambling patterns in Ontario. Topics covered include the types of gambling activities engaged in, money spent on gambling (including winning and losses), as well as socio-demographic characteristics associated with individuals participating in the various gambling activities. The section concludes with a look at the reasons and perceived benefits associated with gambling.

3.1 Gambling activities

Gambling, in one form or another, is very common in Ontario. Of the total sample, 83.2% have engaged in one or more gambling activities in the year prior to the survey. As shown in Table 3.1, the most common form of gambling is the purchasing of lottery tickets (64.6%), followed by raffle tickets (51.0%). Very few individuals report gambling on the Internet (0.6%) or making bets with a bookie (0.4%).³

Examination of the frequency of engaging in various gambling activities shows that the activity that respondents participate in most frequently is lottery tickets. For most gambling activities, frequency of participation is on a less-than-once-a-month basis.

Table 3.1 also presents for each type of gambling activity the average number of occasions per year per person engaging in this type of gambling as well as the number of occasions per year per capita (including non-gamblers). These are minimum estimates. In computing the mean number of occasions per year for each type of gambling, the answer categories are scaled according to minimum number of occasions; thus, "at least once a week" is only scored 52 (the minimum number for those providing this answer), "at least once a month" is scored 12, and "less than once a month" is scored 1. The gambling activities most often engaged in are buying lottery tickets (15.19 occasions per person), scratch tickets (4.47 occasions per person) and raffle tickets (2.02 occasions per person). While relatively few persons engage in betting on sports with bookies, betting on games with friends, betting on games of skill, buying Sports Select tickets, bingo and speculative investments, those who engage in these types of

gambling activities tend to do so frequently. For example, less than 1% of respondents reported betting on sports with bookies, but among those who do, the mean number of occasions is 58.87 times per year.

Gambling	Overall participation	Daily	At least once a	At least once a	Less than once a	Never	# of occasions per year per this type	# of occasions per year per capita	(N)
Activities	in past year		week	month	month		gambler		
Lottery tickets	64.6	0.5	22.0	15.2	27.1	35.4	23.50	15.19	(4993)
Raffle tickets	51.0	0.1	0.8	6.9	43.2	49.0	3.97	2.02	(4987)
Scratch tickets	31.6	0.4	3.6	8.8	18.8	68.5	14.15	4.47	(4998)
Slot machines or VLTs	28.3	0.2	0.5	2.7	24.9	71.7	5.07	1.44	(4992)
Outcome of sporting event	13.2	0.1	0.9	1.7	10.5	86.8	9.75	1.29	(4995)
Arcade or video games	11.8	0.3	0.9	2.1	8.6	88.2	14.75	1.74	(4997)
Games of skill	10.2	0.2	1.5	1.9	6.6	89.8	16.70	1.70	(4996)
Card or board games with friends, etc.	10.0	0.1	0.7	1.7	7.4	90.0	11.89	1.19	(4998)
Casinos out of the province	9.5	0	0.0	0.4	9.1	90.5	1.68	0.16	(4995)
Bingo	8.5	0.1	1.5	1.5	5.4	91.5	16.60	1.41	(4999)
Casino table games	7.2	0.1	0.2	0.7	6.3	92.7	6.28	0.45	(4997)
Speculative investments	6.4	0.2	0.5	1.6	4.2	93.6	16.14	1.04	(4990)
Sport Select	6.0	0.1	1.0	1.5	3.4	94.0	19.69	1.19	(4997)
Horse races	5.4	0.1	0.3	0.4	4.7	94.6	8.79	0.48	(4999)
Slot machines /VLTs other than at casinos	2.2	0.0	0.1	0.5	1.6	97.7	10.40	0.23	(5000)
Internet	0.6	0.0	0.1	0.1	0.4	99.4	17.37	0.11	(4999)
Sports with bookie	0.4	0	0.1	0.2	0.1	99.6	58.87	0.24	(4998)

 Table 3.1: Frequency of participation in various gambling activities.

Respondents were asked about the amount of money being spent on each type of gambling activity on a typical occasion, as well as reported winnings and losses. Because particularly large wins or losses skew the results, the median, or middle number, is reported rather than the mean. The median provides a more accurate reflection of the experience of the typical gambler with regard to spending, winning and losing on various gambling activities.

Not surprisingly, the most money spent on a typical occasion is on speculative investments. This is followed by betting on sports with a bookie, casino table games and on casinos out of the province. With most activities there is a tendency to lose more money than win. The only types of gambling where the median winnings exceed losses are speculative investments, bets on sports with a bookie, and card or board games with friends. Given the role that skill plays in successfully gambling on speculative investments and betting on card or board games with friends, it is possible that some persons lose disproportionately and the majority win more than they lose.

However, it is noteworthy that the typical gambler who bets with bookies claims to win more than they lose. While statistically possible (as a few gamblers may win the lion's share of available winnings), this is highly unlikely. The odds are determined in such a manner that the bookie cannot lose, and the odds are overwhelming that most gamblers will lose more than they win. Similarly, the median winnings on casino table games is equal to the median losses. As with bookies, the odds at such games are set such that in the long run the house profits regardless of the outcome. Thus, it is likely that some gamblers who bet with bookies and play casino table games appear to overestimate winnings and/or underestimate losses on a typical gambling occasion.

Table 3.2: Gambling activities by median amount of money spent, won	or lost on a typical
occasion	

Gambling Activities	Median amount money spent (\$)	Median reported winnings (\$)	Median reported losses (\$)	(N)
Speculative investments	1 000.00	100.00	14.83	(247)
Sports with bookie	75.42	200.00	50.00	(19)
Casino table games	60.00	40.00	40.00	(310)
Casinos out of the	50.00	10.00	25.00	(446)
province				
Slot machines or VLTs	30.00	5.00	20.00	(1329)
Internet	30.00	0	30.00	(27)
Bingo	25.00	0	20.00	(398)
Horse races	20.00	10.00	14.38	(262)
Slot machines or VLTs	12.44	0	6.00	(98)
other than at casinos				
Outcome of sporting	10.00	0	5.00	(567)
event				
Games of skill	10.00	0	5.00	(430)
Card or board games	10.00	5.00	3.00	(449)
with friends, etc.				
Raffle tickets	5.00	0	5.00	(2389)
Sport Select	5.00	0	5.00	(249)
Arcade or video games	5.00	0	5.00	(488)
Scratch tickets	4.00	2.00	3.00	(1420)
Lottery tickets	24.00	0	24.00	(3084)

3.2 Characteristics of persons engaging in different types of gambling

This section examines the relationship between selected socio-demographic characteristics and engaging in various gambling activities. Although a number of statistically significant differences are observed in these demographic groups, many of these differences are not large. The description below highlights some of the more major differences. A detailed description is provided in Tables 3.3 to 3.10.

3.2.1 Gambling tickets

Of the total sample, 65% of respondents indicated that they had purchased a lottery ticket in the year prior to the study. Significant differences were observed related to age, marital status, educational attainment, job status, income and region. For example, in terms of marital status, divorced/separated respondents are the most likely to purchase lottery tickets (71.7%) and single individuals the least likely (59%). For the most part, differences in these demographic groups are not large and it may be generally stated that lottery players are fairly representative of the general population.

Approximately one-third (31.6%) of respondents have purchased scratch tickets in the past year. With the exception of income, significant differences were observed in all the sociodemographic groups. Females (34.7%) are more likely than males (28.2%) to engage in this gambling activity. Furthermore, gambling on scratch tickets decreases with increasing age. Whereas 41% of 18-24 year olds gambled on scratch tickets in the past year, only 19.7% of individuals 60 years and older engaged in this behaviour.

Just over half (51.0%) of Ontarians purchased a raffle ticket in the past year. Significant differences were observed in all of the demographic categories examined. For the most part, however, differences were not notable. It appears that individuals that purchase raffle tickets are fairly representative of the population.

	Gambling Activities		
Demographic	Lottery	Scratch	Raffles
Characteristics	%	%	%
All participants	64.6	31.6	51.0
Gender		***	*
Male	65.8	28.2	49.5
Female	63.6	34.7	52.4
Age	***	***	***
18-24	49.6	41.0	35.9
25-34	63.2	37.5	47.1
35-49	70.5	33.1	56.9
50-59	70.5	26.1	56.8
60 +	58.0	19.7	47.9
Marital Status	***	***	***
Married/living with partner	66.1	30.6	55.1
Widowed	58.5	21.5	41.5
Divorced/separated	71.7	32.3	50.7
Single, never married	59.0	35.9	43.0
Educational attainment	***	***	***
Some high school	66.6	36.6	38.5
Completed high school	67.6	37.5	49.9
Some post-secondary	65.5	35.2	47.8
Completed post-secondary	65.3	30.2	54.6
Completed post-graduate	59.4	23.6	54.0
Job Status	***	***	***
Employed	67.6	33.1	53.5
Unemployed	59.3	37.1	41.9
Student	39.4	28.6	34.8
Retired	59.1	20.9	48.8
Other	57.7	36.0	46.2
Income	***		***
<\$20,000	56.3	32.7	35.5
< \$30, 000	64.4	34.9	43.1
< \$40, 000	66.1	33.3	41.4
< \$50, 000	65.3	30.6	50.0
< \$60, 000	70.2	35.8	56.1
\$60,000 +	64.8	29.9	55.7
Region	***	***	***
East	64.9	31.3	54.4
Central East	69.0	30.8	54.8
Toronto	62.9	25.0	45.1
Central West	63.2	32.8	49.5
Central South	67.2	38.1	46.6
South West	59.4	33.0	51.8
North	69.5	38.3	61.7

 Table 3.3: Buying lottery, scratch, and raffle tickets by demographic characteristics

Note: * p.<0.05, **p.<0.01, *** p.<0.001

3.2.2 Electronic gambling

Thirty per cent (28.3%) of respondents reported playing slot machines or VLTs in casinos the past year. Engagement in this gambling activity was related to all demographic groups with the exception of gender. Respondents between the ages of 18-24 years are the most likely to play slot machines/VLTs in a casino (34.2%), whereas those who are 60 years of age or older are the least likely (23%). Consistent with the finding related to age, single individuals are the most likely group to engage in this activity.

Few (2.2%) respondents have gambled on slot machines or VLTs outside of a casino. Engagement in this activity was related to gender, age, marital status, education, and employment. Being male, between the ages of 18-24, single and a student were all related to gambling on slots/VLTs in a venue other than a casino.

Approximately one in ten (11.8%) respondents bet on arcade or video games in the past year. Engagement in this activity was related to all demographic groups with the exception of income. Males are more likely (15.6%) than females (8.2%) to gamble on arcade or video games. There is a strong relationship between this activity and age, with participation decreasing with increasing age. Whereas 30.6% of 18-24 year olds engaged in this activity, the corresponding rate for those 60 years and older is 0.5%. Being a student and single is also related to gambling on arcade or video games.

When asked about gambling on the Internet, only 0.6% reported engaging in this activity in the year prior to the study. No relationships were observed between this activity and any of the demographic groups.

	Gambling Activity				
Demographic	Slots/VLTs in	Slots/VLTs	Arcade/Video	Internet	
Characteristics	casinos	out of casino	games		
	%	%	%	%	
All participants	28.3	2.2	11.8	0.6	
Gender		*	***		
Male	27.5	2.7	15.6	0.9	
Female	29.1	1.8	8.2	0.4	
Age	***	***	***		
18-24	34.2	6.1	30.6	1.4	
25-34	32.2	2.3	19.2	0.6	
35-49	27.6	1.8	11.4	0.7	
50-59	26.4	1.3	2.2	0.6	
60 +	23.0	1.2	0.5	0.1	
Marital Status	***	***	***		
Married/living with partner	27.0	1.8	9.4	0.6	
Widowed	26.2	0.4	0.8	0	
Divorced/separated	26.7	2.5	9.4	0.9	
Single, never married	32.8	3.7	21.2	0.9	
Educational attainment	*	**	**		
Some high school	28.3	2.6	6.3	0.4	
Completed high school	30.2	3.2	13.0	0.7	
Some post-secondary	31.7	3.3	12.3	0.8	
Completed post-secondary	28.1	1.4	12.2	0.8	
Completed post-graduate	24.8	1.8	12.4	0.4	
Job Status	*	***	***		
Employed	29.3	2.5	13.7	0.8	
Unemployed	25.7	1.3	10.0	0.2	
Student	32.7	7.4	28.6	0.6	
Retired	24.3	0.9	0.7	0.3	
Other	19.2	0	4.0	0	
Income	**				
<\$20,000	25.8	3.3	11.5	0.8	
< \$30,000	27.4	1.9	10.9	0.7	
< \$40,000	26.0	2.0	11.4	0.9	
< \$50,000	26.1	2.3	12.5	0.9	
< \$60, 000	36.2	1.3	11.1	0.6	
\$60,000 +	28.3	2.3	12.1	0.5	
Region	**		***		
East	28.9	2.4	9.0	0.3	
Central East	29.6	1.8	10.9	0.4	
Toronto	25.9	3.1	14.1	0.5	
Central West	25.2	1.9	14.1	1.1	
Central South	33.3	1.3	9.7	1.3	
South West	28.2	2.8	13.1	0.3	
North	32.0	1.3	7.8	0.5	

Table 3.4: Electronic gambling by demographic characteristics

Note: * p.<0.05, **p.<0.01, *** p.<0.001

3.2.3 Casinos

Of the total sample, 7.2% of respondents have gambled on casino table games in the past year. Significant differences were observed related to all of the demographic groups with the exception of educational attainment. Males were approximately three times more likely than females to gamble on casino table games. As age increased, participation rates decreased. Whereas 13.7% of individuals between the ages of 18-24 participated in this activity, the corresponding rate for those 60 years and older was 2.8%. Respondents living in the South West region are least likely to play casino table games (3.2%), and those living in the Central South region are the most likely (9.3%) to engage in this activity.

Just less than 10 per cent (9.5%) of respondents have gambled at casinos out of the province. The only demographic groups not related to this activity are age and marital status. In terms of income, the most likely group to engage in this activity are those with incomes greater than \$60,000. Individuals from the East and North are the most likely to frequent out-of-province casinos (13.3%), while those from the South West are the least likely (5.9%).

	Gambling Activity		
Demographic	Casino table	Casinos out of the	
Characteristics	games	province	
	%	%	
All participants	7.2	9.5	
Gender	***	**	
Male	11.0	10.7	
Female	3.6	8.3	
Age	***		
18-24	13.7	9.2	
25-34	11.6	11.0	
35-49	5.7	8.9	
50-59	5.1	9.7	
60 +	2.8	8.6	
Marital Status	***		
Married/living with partner	6.5	9.6	
Widowed	2.7	7.3	
Divorced/separated	5.2	7.5	
Single, never married	10.9	10.6	
Educational attainment		***	
Some high school	4.5	7.1	
Completed high school	6.7	7.4	
Some post-secondary	7.2	13.0	
Completed post- secondary	7.5	8.9	
Completed post-graduate	8.6	11.6	
Job Status	***	*	
Employed	8.5	10.0	
Unemployed	4.9	6.0	
Student	6.2	10.5	
Retired	3.2	9.5	
Other	0	0	
Income	***	***	
<\$20,000	3.8	6.7	
< \$30,000	5.3	6.5	
< \$40,000	3.9	6.8	
< \$50,000	7.3	9.5	
< \$60,000	7.4	8.6	
\$60,000 +	8.7	11.0	
Region	***	***	
East	5.7	13.3	
Central East	8.8	7.6	
Toronto	8.6	10.3	
Central West	7.6	8.4	
Central South	9.3	8.9	
South West	3.2	5.9	
North	6.8	13.3	

Table 3.5: Gambling in casinos by demographic characteristics

Note: * p.<0.05, **p.<0.01, *** p.<0.001

3.2.4 Gambling with family or friends

Ten per cent (10.0%) of respondents bet on card/board games with friends. Being male, between the ages of 18-24, single and a student are related to engagement in this activity.

Ten per cent (10.2%) of respondents reported betting on games of skill. Again, being male, single and between ages of 18-24 is related to this activity.

	Gambling Activity				
Demographic	Card/board games	Games of			
Characteristics	with friends	skill			
	%	%			
All participants	10.0	10.2			
Gender	***	***			
Male	12.5	13.6			
Female	7.6	6.9			
Age	***	***			
18-24	21.5	28.8			
25-34	12.0	14.4			
35-49	9.0	8.1			
50-59	6.5	5.4			
60 +	5.5	1.7			
Marital Status	***	***			
Married/living with partner	8.5	8.0			
Widowed	6.2	1.9			
Divorced/separated	9.2	8.7			
Single, never married	15.1	17.9			
Educational attainment	***				
Some high school	6.9	7.5			
Completed high school	12.4	11.9			
Some post-secondary	12.2	11.0			
Completed post-secondary	9.4	10.2			
Completed post-graduate	8.7	9.2			
Job Status	***	***			
Employed	11.1	11.7			
Unemployed	8.1	8.4			
Student	13.0	19.9			
Retired	5.4	2.4			
Other	4.0	4.0			
Income		*			
<\$20,000	6.5	12.7			
< \$30,000	10.2	7.0			
< \$40,000	9.0	10.3			
< \$50,000	11.6	13.6			
< \$60,000	10.7	10.3			
\$60,000 +	10.4	9.6			
Region		**			
East	7.9	11.1			
Central East	8.6	7.9			
Toronto	10.2	8.6			
Central West	11.3	9.7			
Central South	10.0	10.2			
South West	11.2	13.2			
North	11.0	11.8			

Table 3.6: Gambling with friends and family by demographic characteristics

Note: * p.<0.05, **p.<0.01, *** p.<0.001

3.2.5 Bingo

Less than 10 per cent (8.5%) of respondents have played bingo in the past year. Relationships were observed between all the demographic groups and playing bingo. Females are approximately three times more likely (12.2%) than males (4.7%) to play bingo. Contrary to its image as an activity of the elderly, individuals 18-24 years of age are the most likely to play bingo. Participation decreases with increasing levels of education. While 16.3% of those with less than high school have played bingo, the corresponding rate for those with a post-graduate education is 4.3%. The highest participation rates are among the lowest income group. In terms of region, individuals from the North are the most likely group to play bingo (15.5%).
	Gambling Activity
Demographic	Bingo
Characteristics	%
All participants	8.5
Gender	***
Male	4.7
Female	12.2
Age	***
18-24	13.4
25-34	8.2
35-49	7.7
50-59	7.7
60 +	8.2
Marital Status	**
Married/living with partner	7.5
Widowed	13.0
Divorced/separated	10.1
Single, never married	9.4
Educational attainment	***
Some high school	16.3
Completed high school	10.1
Some post-secondary	9.9
Completed post-secondary	7.6
Completed post-graduate	4.3
Job Status	***
Employed	7.4
Unemployed	15.8
Student	12.4
Retired	8.2
Other	16.0
Income	***
<\$20,000	14.6
< \$30,000	12.6
< \$40,000	12.3
< \$50,000	6.6
< \$60,000	8.2
\$60,000 +	6.6
Region	***
East	9.3
Central East	6.9
Toronto	7.0
Central West	7.0
Central South	7.7
South West	10.6
North	15.5

Table 3.7: Playing bingo by demographic characteristics.

3.2.6 Sports betting

Of the total sample, 13.2% of respondents bet on the outcome of a sporting event in the past year. Participation was related to all demographic groups, with the exception of region. Males are approximately four times more likely (20.2%) than females (6.5%) to participate in this activity. While respondents 60 years of age or older are least likely to bet on sporting events (5.1%), those who are 25-34 years of age are most likely (19.4%).

Just over five per cent of respondents (6.0%) bet on Sport Select in the past year. Gambling on Sports Select was related to gender, age, marital status, education and employment status. Males are five times more likely (10.3%) than females (1.9%) to gamble on Sports Select. Participation decreases with age, with 14.6% of individuals 18-24 years pursuing this activity, compared with 0.8% of respondents 60 years and older.

Very few Ontarians (0.4%) have bet on sports with a bookie in the past year. The only demographic group related to this activity is gender. Males (0.8%) are more likely than females (0.1%) to bet on sports with a bookie.

	Gambling Activity									
Demographic	Outcome of	Sport Select	Sports with							
Characteristics	sporting events	-	bookie							
	%	%	%							
All participants	13.2	6.0	0.4							
Gender	***	***	***							
Male	20.2	10.3	0.8							
Female	6.5	1.9	0.1							
Age	***	***								
18-24	14.1	14.6	0.7							
25-34	19.4	8.9	0.5							
35-49	14.8	5.4	0.5							
50-59	9.8	2.9	0.2							
60 +	5.1	0.8	0.2							
Marital Status	***	***								
Married/living with partner	12.5	4.4	0.4							
Widowed	6.2	1.5	0							
Divorced/separated	12.8	5.5	0.7							
Single, never married	16.8	11.1	0.5							
Educational attainment	***	***								
Some high school	6.3	3.7	0.4							
Completed high school	11.9	7.6	0.4							
Some post-secondary	17.4	7.1	0.5							
Completed post-secondary	13.8	6.4	0.6							
Completed post-graduate	14.5	4.2	0.3							
Job Status	***	***								
Employed	15.7	7.4	0.5							
Unemployed	6.8	3.9	0.4							
Student	14.2	6.8	0.6							
Retired	5.5	1.1	0.1							
Other	8.0	0	0							
Income	***									
<\$20,000	9.4	6.3	0							
< \$30,000	9.0	4.8	0							
< \$40,000	12.1	7.0	0.2							
< \$50,000	12.9	6.4	0.7							
< \$60,000	17.1	7.6	0.4							
\$60, 000 +	14.1	5.7	0.5							
Region										
East	12.7	6.7	0							
Central East	13.1	5.4	0.5							
Toronto	11.7	6.3	0.7							
Central West	14.9	5.9	0.6							
Central South	14.7	7.7	0.6							
South West	12.2	4.1	0.1							
North	14.8	6.0	0							

 Table 3.8: Sports betting by demographic characteristics.

3.2.7 Horse racing

About five per cent (5.4%) of respondents bet on horse races in the past year. Participation is related to gender, education, income and region. Males (6.3%) are more likely than females (4.6%) to engage in this gambling activity. Respondents living in the Central West region of Ontario are the most likely group (7.5%) to bet on horse races. Conversely, those living in the Eastern (3.7%) or Northern (3.8%) regions of Ontario are the least likely to bet on horse races.

	Gambling Activity
Demographic	Horse Races
Characteristics	%
All participants	5.4
Gender	**
Male	6.3
Female	4.6
Age	
18-24	4.7
25-34	4.8
35-49	6.0
50-59	5.9
60 +	5.2
Marital Status	
Married/living with partner	5.8
Widowed	4.2
Divorced/separated	5.3
Single, never married	4.8
Educational attainment	*
Some high school	3.3
Completed high school	4.7
Some post-secondary	7.1
Completed post-secondary	5.9
Completed post-graduate	5.6
Job Status	
Employed	5.5
Unemployed	4.3
Student	5.6
Retired	5.8
Other	7.7
Income	***
<\$20,000	3.7
< \$30,000	2.4
< \$40,000	2.4
< \$50,000	4.5
< \$60,000	8.0
\$60, 000 +	6.4
Region	*
East	3.7
Central East	4.8
Toronto	6.1
Central West	7.5
Central South	4.9
South West	5.6
North	3.8

Table 3.9: Betting on horse races by demographic characteristics.

3.2.8 Speculative investments

Although all financial investments involve a degree of risk, the term "speculative investments" generally refers to the purchase of commodities or highly speculative stocks with a potentially high rate of return, but which also carry very high risk. Of the total sample, 6.4% of respondents made speculative investments in the year prior to the study. Engagement in this activity is related to gender, age, education, employment status, income and region. Males (8.6%) are twice as likely as females (4.4%) to make speculative investments. Generally, participation increases with education and income. Individuals residing in the Toronto region are the most likely to engage in speculative investments (9.4%), while those in Central South (3.6%) and South West (3.7%) are least likely.

	Gambling Activity
Demographic	Speculative
Characteristics	Investments
	%
All participants	6.4
Gender	***
Male	8.6
Female	4.4
Age	**
18-24	6.7
25-34	8.3
35-49	6.2
50-59	7.2
60 +	3.7
Marital Status	
Married/living with partner	6.7
Widowed	4.2
Divorced/separated	4.4
Single, never married	7.2
Educational attainment	***
Some high school	2.4
Completed high school	4.2
Some post-econdary	5.1
Completed post-secondary	7.8
Completed post-graduate	9.4
Job Status	***
Employed	7.4
Unemployed	2.4
Student	6.8
Retired	4.4
Other	7.7
Income	***
<\$20,000	2.3
< \$30,000	3.1
< \$40,000	3.3
< \$50,000	6.6
< \$60,000	5.3
\$60,000 +	8.4
Region	***
East	6.9
Central East	7.6
Toronto	9.4
Central West	5.8
Central South	3.6
South West	3.7
North	4.8

Table 3.10: Making speculative investments by demographic characteristics.

Note: * p.<0.05, **p.<0.01, *** p.<0.001

3.3 Interrelationship of different gambling activities

Table 3.11 examines the relationships among the various gambling activities; that is, whether individuals who gamble on certain activities are more or less likely to engage in other gambling activities. Almost all of the different types of gambling activities are significantly related to engaging in most other forms of gambling. The strongest positive relationship is between gambling on slots/VLTs outside of a casino and making bets on sports with a bookie, as well as betting on horse races. The next strongest relationship is between making bets on horse races and making bets with a bookie. Next, those who play slot machines or VLTs in casinos are more likely to play slot machines or VLTs outside of a casino. Finally, playing slots outside of casinos is positively associated with making bets on sporting events.

Thus, a person who engages in one form of gambling is generally more likely to engage in most other forms of gambling. However, there are notable exceptions. Internet gambling does not relate to any other form of gambling. Nor does making speculative investments. Playing bingo relates to buying lottery or scratch tickets, playing slot machines or VLTs at casinos and travelling to casinos out of province, but bingo players are not more likely to engage in other forms of gambling. Travelling to casinos out of province is related to playing slot machines or VLTs in Ontario, but it is otherwise not strongly related to most forms of gambling in the province.

	Scratch	Raffle	Horse	Bingo	Slots/VLTs	Casino	Slots/VLTs	Sport	Sporting	Board	Games	Arcade	Internet	Sports	Specula-	Casinos
			races		in casino	table	out of	Select	events	games	of skill	games		with	tive	out of
Lottom	755***	131***	014	082***	079***	107***		172***	007***	003	019	070***	021	017	024	036*
Lottery	(4992)	(4083)	(4003)	(4903)	.079	(4002)	(4004)	(4001)	(4080)	(4992)	(4080)	(4001)	(4003)	(4992)	(4084)	(4989)
Scratch	(4992)	150***	(4993)	(4993)	(4989)	(4992)	013	132***	12/***	(4992)	(4989)	(4991)	(4993)	(4992)	018	(4989)
Strattin		(4986)	(4996)	(4996)	(4989)	(4994)	(4998)	(4995)	(4992)	(4996)	(4993)	(4994)	(4996)	(4995)	(4988)	(4993)
Raffles		(4)00)	001	005	019	302***	071***	205***	217***	011	013	158***	001	042**	009	020
Rannes			(4987)	(4987)	(4980)	(4985)	(4988)	(4985)	(4983)	(4987)	(4984)	(4985)	(4987)	(4986)	(4978)	(4984)
Horse races			(1)01)	012	234***	058***	578***	046***	233***	237***	000	030*	003	421***	005	- 001
nonse nuccs				(4998)	(4991)	(4995)	(4999)	(4996)	(4994)	(4997)	(4994)	(4995)	(4998)	(4996)	(4989)	(4994)
Bingo					.341***	003	.016	.010	.001	.008	.020	.017	002	002	006	.034*
8-					(4990)	(4995)	(4999)	(4996)	(4994)	(4997)	4994	(4995)	(4998)	(4996)	(4989)	(4994)
Slots/VLTs in				1		.076***	.402***	.054***	.177***	.150***	.000	.036*	.000	.293***	.003	.272***
casinos						(4988)	(4992)	(4989)	(4986)	(4990)	(4987)	(4988)	(4990)	(4989)	(4982)	(4987)
Casino table							.091***	.280***	.290***	.063***	.007	.186***	.001	.065***	.016	.016
games							(4996)	(4994)	(4991)	(4995)	(4992)	(4993)	(4995)	(4994)	(4986)	(4992)
Slots/VLTs out								.077***	.370***	.371***	.019	.053***	001	.651***	.001	.085***
of casino								(4997)	(4995)	(4998)	(4995)	(4996)	(4990)	(4998)	(4990)	(4995)
Sport Select									.219***	.036**	.026	.271***	.010	.087***	003	.044**
									(4992)	(4995)	(4992)	(4993)	(4996)	(4995)	(4987)	(4992)
Sporting										.172***	.045***	.154***	.019	.317***	.007	.035*
events										(4994)	(4991)	(4992)	(4995)	(4994)	(4987)	(4991)
Board games											.053***	.146***	.001	.308***	.007	001
											(4995)	(4996)	(4998)	(4997)	(4989)	(4995)
Games of skills												.154***	.016	.036*	.009	.007
												(4993)	(4995)	(4994)	(4986)	(4992)
Arcade/video													002	.229***	.001	.001
games													4996	(4995)	(4988)	(4993)
Internet														001	001	.004
-														(4998)	(4990)	(4995)
Sports with											1	1			.008	.007
bookie															(4989)	(4994)
Speculative											1	1				.017
investing				1						1						(4995)

Table 3.11: Correlation matrix (Pearson) of different types of gambling activities

Note: * p.<0.05, **p.<0.01, ***p.<0.001

3.4. Reasons for gambling at casinos and perceived benefits

The reasons individuals gamble may vary depending on the activity. As such, a question was posed specific to casino attendance. Participants who had gambled at a casino were asked to provide the reasons underlying their participation in this activity. As shown in Table 3.12, the most common reason for gambling at a casino was related to the enjoyment it provides. Other than enjoyment, the next common reasons were being able to watch others gamble, winning money, and the musical entertainment.

Reasons for gambling	Percent
Enjoyment of gambling	28.0%
To watch others gamble	26.0%
To win money	24.3%
Musical entertainment	21.1%
Socialize	17.5%
To drink alcohol	6.2%
Other	2.5%
Tourist attraction	2.6%
Occasion	2.2%
To eat	2.2%
For the company	1.4%
Work related	1.2%
Atmosphere	0.9%
(N)	(1,779)

 Table 3.12: Reasons for gambling at a casino, among those who visited a casino in the past year

Table 3.13 examines the relationship between socio-demographic characteristics and the reasons people give for attending a casino. Males are more likely than females to go to casinos for the enjoyment of gambling and to drink alcohol. Single respondents, students, and those between 18 and 24 years of age are the most likely to go to a casino to win money and to drink alcohol. Widowed respondents are the most likely to frequent casinos to socialize with others. The older age groups are the most likely to go to a casino to dine, because it is a tourist attraction, and for a special occasion. Respondents living in the East region of Ontario are the most likely to go to a casino to dine. Those residing in the North are most likely to go to casinos

for the enjoyment of gambling. Finally, respondents from Central South and Central West Ontario are the most likely to go to win money.

Reasons:	Enjoyment	To win	То	Shows	То	Occasion	Socialize	Tourist	Atmosphere	То	For the	Other	Work
Characteristics:	of gambling	money	watch		drink			attraction		eat	company		
Gender	*				**								
Male	30.4	24.1	25.6	21.5	7.7	1.8	17.5	2.4	1.1	2.0	0.9	2.3	1.6
Female	25.5	24.5	26.5	20.7	4.7	2.6	17.4	2.8	0.7	2.3	1.9	2.7	0.8
Marital Status		***	*		***		*					*	
Married (living with partner)	26.6	21.3	24.5	22.5	4.9	2.3	16.4	2.2	1.0	2.6	1.3	17	1.6
Widowed	26.3	24.7	16.0	18.8	2.5	1.3	23.5	2.5	0	3.7	2.5	3.7	1.2
Divorced/Separated	25.6	23.7	27.1	19.6	5.5	1.0	12.6	5.0	0.5	1.5	1.0	5.0	0.5
Single, never married	31.9	30.6	30.4	19.4	10.1	2.4	21.2	2.8	1.0	1.0	1.2	3.2	0.8
Age	*	***	*		***					**			
18-24	34.6	33.5	29.7	17.1	14.4	1.9	20.2	1.5	1.5	0	0.4	1.9	0.4
25-34	26.1	28.9	27.3	21.4	8.7	1.4	20.5	2.8	1.2	1.2	1.9	3.1	1.2
35-49	24.6	21.5	25.0	23.1	3.4	2.9	15.4	2.9	1.0	2.1	1.0	2.1	2.1
50-59	31.6	18.4	29.8	22.1	4.8	0.7	15.8	2.6	0.4	4.0	1.8	4.0	0.4
60 +	28.6	19.8	18.1	18.5	1.2	3.2	17.3	3.2	0.4	4.0	1.6	1.6	0.8
Education		*	*						*			*	
< high school	28.1	24.7	19.9	15.0	7.2	1.2	15.7	5.4	1.8	3.0	1.2	1.2	0
high school	31.9	29.7	21.6	23.3	5.6	1.7	16.4	2.0	0.2	2.5	1.5	1.5	0.5
Some post-secondary	31.5	26.0	28.7	20.2	8.2	1.9	20.5	1.2	1.9	1.6	1.2	1.9	1.2
Completed post-secondary	24.3	21.9	28.4	20.8	5.8	2.4	18.5	2.8	1.1	2.3	1.6	2.4	2.1
Completed post-graduate	28.0	21.6	28.0	22.2	5.5	2.4	16.1	2.6	0	2.1	1.1	4.5	1.1
Employment Status		**	*		**					***			
Employed	27.8	23.5	26.3	20.7	6.9	2.3	18.7	2.9	0.8	1.5	1.4	2.6	1.5
Unemployed	28.5	29.7	29.0	29.9	4.9	0.7	10.3	0	1.4	1.4	0.7	2.8	0
Students	35.4	42.2	40.6	18.5	12.5	0	10.9	1.6	3.1	0	1.6	3.1	0
Retired	27.3	21.1	19.8	19.5	1.2	2.9	16.5	2.9	0.4	6.6	1.2	1.2	0.4
Other	0	40.0	16.7	0	0	0	20.0	0	0	20.0	0	16.7	0
Household Income													
< \$20,000	27.6	25.3	32.4	18.8	5.9	1.8	14.7	1.8	0	1.8	1.2	3.6	1.2
< \$30,000	27.9	25.0	23.4	19.9	5.0	2.1	17.7	1.4	0.7	1.4	0.7	1.4	0.7
< \$40,000	32.6	23.6	24.3	15.4	4.2	2.1	17.4	2.8	0.7	1.4	2.1	2.8	0.7
< \$50,000	31.6	29.0	25.0	26.5	7.7	0.6	19.4	2.6	0	1.9	0.6	4.5	0.6
< \$60,000	25.3	23.7	30.9	17.5	4.6	2.6	21.6	4.1	1.5	0.5	1.5	4.1	0.5
\$60, 000 or more	27.5	23.6	24.8	22.2	6.8	2.4	16.9	2.5	1.2	2.7	1.4	1.9	1.6
Region	***	***		*			*			***			
East	26.5	20.5	27.8	20.8	5.4	3.1	19.7	2.3	0.8	6.2	0.8	2.3	0.4
Central East	26.9	21.6	22.6	24.3	6.4	1.1	17.0	1.4	0.7	2.8	0.4	3.2	2.1
Toronto	36.6	27.7	27.4	24.0	8.6	2.9	14.0	3.4	0.6	0.9	0.6	4.3	0.6
Central West	30.9	29.2	30.5	17.9	6.5	2.4	16.2	3.4	1.0	0.3	1.7	0.3	1.0
Central South	24.3	29.6	22.3	15.7	5.2	2.2	16.1	2.2	1.7	1.7	3.0	2.2	3.1
South West	21.8	16.1	29.0	19.5	2.7	1.5	17.6	2.7	0.8	0.4	2.3	1.5	0.8
North	23.4	24.7	19.0	26.6	8.2	1.3	26.6	2.5	0.6	4.4	0.6	3.2	0.6

 Table 3.13: Reasons for gambling by demographic characteristics, among those who visited a casino in the past year

Participants were also asked to cite the benefits they receive from gambling. As shown in Table 3.14, the most common benefit is winning money, followed by fun/excitement and an opportunity to socialize.

year

Benefits	Per cent
Can win money	42.2%
It's exciting/fun	36.6%
An opportunity to socialize	26.1%
None	18.9%
Decreases boredom	12.6%
Get to be around others/decreases isolation	8.9%
Forget about problems	4.6%
Charity support	3.2%
Other	1.8%
For variety/something to do	1.6%
Fantasy/to dream	0.5%
Satisfy curiosity	0.3%
Challenging	0.2%
Increases self-worth (stocks)	0.1%
(N)	(3,730)

Table 3.16 examines socio-demographic characteristics associated with the perceived benefits of gambling. Single individuals, and those between the ages of 18 and 24 years are the most likely to identify socializing, less isolation and boredom, and excitement as benefits. The younger age groups are also most likely to perceive winning money as a benefit. Divorced or separated individuals are the most likely to perceive forgetting problems as a benefit, and married individuals are the most likely to identify charity support as a benefit. Widowed individuals are the most likely to state that there are no benefits. Respondents with less than high school education are most likely to benefit from gambling through reduced isolation, but are the least likely to report socializing and reduced boredom as benefits. The unemployed are the most likely to benefit by forgetting problems. Participants with incomes less than \$20,000 are most likely to indicate reduction in boredom and isolation, and forgetting about problems as some of the benefits of gambling. Finally, respondents residing in Northern Ontario are most likely to suggest the following benefits of gambling: socialization, reduction in isolation, and ability to

forget about problems. Those from the Toronto region are most likely to indicate that fun/excitement and winning money are benefits of gambling.

Perceived benefits:	Socialize	Less	Forget	Fun,	Less	Win	None	Something	Challenging	Increased	Charity	Fantasies	Satisfy	Other
Characteristics:		isolation	problems	exciting	boredom	money		to do		self -worth	support		curiosity	
										(stocks)				
Gender					***									
Male	27.1	9.5	4.7	36.0	14.4	43.4	17.8	1.7	0.3	0.1	2.8	0.4	0.2	1.8
Female	25.0	8.2	4.4	37.1	10.8	40.9	20.0	1.4	0.2	0.1	3.6	0.6	0.5	1.8
Marital Status	***	***	***	**	***		***				*			
Married or living with	23.4	7.1	3.4	34.8	9.9	42.0	19.9	1.8	0.2	0.1	3.9	0.5	0.3	1.9
partner														
Widowed	26.8	10.4	5.5	33.9	9.8	37.6	26.2	1.8	0	0	3.0	0.6	0	1.2
Divorced/Separated	23.7	10.4	6.7	35.0	16.4	40.0	21.7	0.9	0.5	0	1.8	0.7	0.9	1.4
Single, never married	33.0	12.1	6.2	41.8	17.8	44.5	13.7	1.3	0.2	0.1	2.0	0.4	0.2	1.9
Age	***	***		***	***	***	***							
18-24	40.4	13.5	5.4	47.9	24.0	45.8	7.4	1.3	0.5	0	1.1	0	0.5	1.8
25-34	30.1	9.2	4.0	43.0	15.0	47.3	12.9	1.8	0.2	0.1	3.6	0.2	0.2	2.3
35-49	23.5	8.3	4.7	34.6	11.3	43.5	18.9	1.2	0.1	0.1	3.4	0.6	0.4	1.4
50-59	20.7	6.0	4.4	30.5	8.1	37.6	25.7	2.1	0	0	3.4	0.8	0.2	2.1
60 +	20.8	9.0	4.3	30.0	8.4	33.6	29.1	1.7	0.2	0	3.4	0.4	0.2	1.9
Education	**	***		*	***		***		***		***			
< high school	21.8	14.0	6.0	37.4	16.9	39.1	22.3	1.4	0	0	2.3	0.6	0.6	2.3
High school	28.8	11.4	5.3	36.3	13.4	41.1	18.0	2.5	0.1	0	0.9	0.1	0.3	0.9
Some post-secondary	30.4	9.4	3.8	40.0	16.5	46.6	13.1	1.7	1.0	0	3.8	0	0.2	1.9
Completed post-	25.2	7.1	4.5	38.3	11.4	43.8	18.3	1.2	0.2	0.2	4.2	0.7	0.2	2.2
secondary														
Completed post-	23.9	6.5	3.7	31.9	9.7	39.6	22.4	1.3	0	0.1	4.0	0.8	0.5	1.7
graduate														
Employment Status	***		*	**	***	***	***	*	**					
Employed	26.6	8.3	4.4	37.9	12.6	43.1	17.2	1.4	0.1	0.1	3.3	0.5	0.4	1.8
Unemployed	23.8	12.1	7.6	30.3	17.0	45.0	19.1	2.4	0.3	0	3.5	0.6	0	1.5
Student	44.3	12.2	0.9	43.1	23.5	50.4	9.5	4.3	1.7	0	1.7	0	0	1.7
Retired	20.9	8.5	3.8	31.2	7.3	33.1	30.0	1.4	0.2	0	2.4	0.4	0	2.0
Other	11.8	12.5	6.3	31.3	17.6	47.1	31.3	6.3	0	0	5.9	0	0	5.9
Household Income		***	***		***									
< \$20,000	30.3	14.2	8.4	37.3	18.5	42.2	16.5	1.7	0	0	3.2	0.3	0	2.9
< \$30,000	25.9	10.4	6.1	39.5	17.2	42.7	19.7	1.6	0	0	1.6	0.6	0.6	1.0
< \$40,000	26.3	7.5	3.8	38.4	11.0	43.1	17.1	1.7	0.6	0	3.2	0.3	0.3	2.3
< \$50, 000	27.0	10.0	4.7	33.7	12.0	45.6	19.6	1.5	0	0.3	3.2	1.2	0.3	2.2
< \$60, 000	27.1	11.1	5.7	35.7	12.9	44.4	17.6	1.6	0.3	0	1.8	0.3	0.3	2.3
\$60, 000 or more	25.0	7.4	3.6	36.3	11.2	41.0	19.7	1.6	0.2	0.1	3.6	0.4	0.3	1.6
Region	***	*	*	**		*								
East	29.0	7.5	2.4	34.5	12.0	44.6	19.3	1.1	0	0	3.2	0.9	0.7	1.5
Central East	23.5	7.9	4.2	32.6	9.7	44.3	20.3	1.6	0.4	0	3.5	0	0.2	3.0
Toronto	24.3	7.6	5.2	41.1	13.9	44.7	19.3	0.7	0.4	0.2	2.1	0.6	0	2.0
Central West	22.7	7.8	4.1	40.2	11.9	43.6	18.7	2.1	0.2	0	2.9	0.6	0.2	1.1
Central South	24.1	10.5	5.3	34.1	14.1	38.9	18.6	1.9	0.2	0	4.1	0.5	0.5	1.2
South West	28.3	11.4	3.9	33.1	11.4	37.0	17.1	2.2	0.2	0	4.3	0.4	0.4	1.6
North	35.7	12.0	7.7	36.0	16.0	37.7	18.8	1.8	0	0.3	2.8	0	0.6	2.2

 Table 3.15: Benefits of gambling by demographic characteristics, among those who reported gambling in the past year

4. PROBLEM GAMBLING IN ONTARIO

This section explores the prevalence of gambling and problem gambling among participants, as well as gambling patterns associated with the various levels of gambling. The areas that will be addressed include gambling activities, time and money spent on gambling, and problems experienced from gambling.

4.1 CPGI levels

Participants were presented with a comprehensive list of gambling activities, and asked if they had spent money betting on any of the activities in the past 12 months. Of the total sample, 16.8% were classified as non-gamblers, having spent no money on gambling activities in the past year. The majority (69.8%) of respondents had gambled in the past year, and were not reporting problems from their gambling. Of the total sample, 9.6% may be at risk of gambling problems, and 3.1% were experiencing moderate gambling problems. Less than 1% (0.7%) were experiencing severe gambling problems.





4.2 Endorsement of CPGI items by gambling level

The scored items on the CPGI include items that assess both thoughts and behaviours considered indicative of gambling problems. Table 4.1 shows the proportion of affirmative responses (sometimes, most of the time, or almost always) to the scored CPGI items, by CPGI level. This information is presented to provide a greater appreciation of the characteristics associated with increasing levels of gambling problems. It should be noted, however, that the relatively high representation of those with severe gambling problems is expected, given that these are the very questions used to construct the CPGI gambling levels.

Among the three CPGI levels, the most commonly endorsed items include feeling guilty, chasing losses and betting more than one can afford. Those with severe gambling problems are also likely to feel that they have a problem with gambling. In a related manner, a series of questions were posed that asked respondents to list some of the problems they have experienced while gambling. A discussion of these findings appears in section 4.6.

		CPGI Levels	5
CPGI item:	At risk	Moderate	Severe
		problem	problem
Feel guilty about gambling	30.6%	53.5%	87.9%
Chasing losses	31.8%	51.7%	84.8%
Bet more than could afford	20.4%	36.2%	87.9%
People criticized your gambling	8.4%	33.8%	75.8%
Feel gambling has caused health	6.7%	31.5%	72.7%
problems			
Feel that you have a problem with	5.6%	30.3%	84.8%
gambling			
Need to gamble with larger amounts	10.1%	22.4%	57.6%
of money to get the same feeling of			
excitement			
Feel your gambling has caused	3.8%	21.5%	75.8%
financial problems			
Borrowing or selling things to gamble	4.0%	9.7%	54.5%
(N)	(408)	(135)	(29)

4.3 Gambling activities of different types of gamblers

The most common gambling activity for all levels of gamblers is buying lottery tickets (see Table 4.2). The most common activities among those experiencing severe gambling-related problems are lottery tickets, slot machines, scratch tickets and casino table games. For most activities, as the severity of gambling problems increases, the likelihood of engaging in that activity also increases.

As shown in Table 4.2, most Ontarians do not engage in any gambling activity on a weekly or greater basis. However, as the severity of gambling problems increases, so does gambling frequency. The most frequently pursued gambling activities among those with severe gambling problems include purchasing lottery tickets, scratch tickets and playing slot machines/VLTs in casinos.

Gambling Activities	Non-	At risk	Moderate	Severe	All
5	problem		problem	problem	gamblers
Lottery tickets	•			•	_
Activity in past year	76.5%	79.3%	84.7%	84.8%	77.2%
Weekly activity***	25.8%	29.4%	39.9%	63.6%	27.1%
Raffle tickets					
Activity in past year**	61.7%	55.0%	58.3%	39.4%	60.6%
Weekly activity***	0.9%	1.8%	4.2%	0	1.1%
Scratch tickets					
Activity in past year***	36.0%	49.2%	63.9%	54.5%	38.8%
Weekly activity***	3.3%	11.0%	21.5%	18.25%	5.0%
Slot machines or VLTs					
Activity in past year***	31.8%	50.1%	56.7%	62.5%	35.1%
Weekly activity***	0.2%	1.8%	8.5%	16.1%	0.9%
Outcome of sporting event					
Activity in past year***	14.9%	22.2%	26.8%	24.2%	16.3%
Weekly activity***	0.8%	2.7%	7.7%	3.0%	1.3%
Arcade of video games					
Activity in past year***	13.0%	24.0%	18.1%	15.2%	14.5%
Weekly activity***	0.8%	4.5%	4.2%	6.1%	1.4%
Games of skill					
Activity in past year***	10.5%	22.3%	25.7%	15.6%	12.5%
Weekly activity***	1.6%	4.5%	6.3%	0	2.1%
Card or board games with friends, etc.					
Activity in past year***	10.9%	19.6%	24.3%	15.2%	12.5%
Weekly activity***	0.8%	1.8%	5.6%	3.0%	1.1%
Casinos out of the province					
Activity in past year***	10.1%	19.9%	19.4%	33.3%	11.8%
Weekly activity**	0	0	0.7%	0	0.1%
Bingo					
Activity in past year***	8.5%	17.5%	29.2%	33.3%	10.6%
Weekly activity***	1.1%	3.6%	16.7%	6.1%	2.0%
Casino table games					
Activity in past year***	6.9%	17.8%	23.1%	45.5%	9.1%
Weekly activity***	0.0%	0.4%	2.8%	12.1%	0.3%
Speculative investments					
Activity in past year***	6.6%	13.3%	16.8%	18.2%	7.8%
Weekly activity**	0.5%	0.9%	2.8%	3.0%	0.7%
Horse races					
Activity in past year***	5.7%	10.3%	13.9%	30.3%	6.8%
Weekly activity***	0.3%	1.1%	2.1%	6.1%	0.5%
Sport Select					
Activity in past year***	5.7%	16.2%	20.1%	27.3%	7.6%
Weekly activity***	0.7%	3.6%	9.7%	15.2%	1.5%
Slot machines or VLTs other than at casinos					
Activity in past year***	1.9%	4.9%	10.4%	18.2%	2.7%
Weekly activity***	0%	0.2%	2.1%	6.1%	0.2%
Sports with bookie					
Activity in past year***	0.2%	1.3%	2.8%	15.2%	0.5%
Weekly activity***	0%	0.7%	0.7%	6.1%	0.2%
Internet					
Activity in past year***	0.6%	2.0%	2.8%	3.0%	0.8%
Weekly activity***	0.1%	0.9%	0	0	0.2%
(N)	(3,213)	(408)	(136)	(29)	(3,786)

Table 4.2: Gambling activities by CPGI levels

Note: * p.<0.05, ** p.<0.01, *** p.<0.001

A significant relationship was observed between gambling level and total number of gambling activities. As the severity of gambling problems increases, the number of gambling activities that participants engage in also increases (F{3, 3799}=122.046, p.<0.001). On average, non-problem gamblers engage in 3.0 gambling activities, those at risk of gambling problems engage in 4.3 activities, those with moderate gambling problems engage in 5.0 gambling activities, and those with severe gambling problems engage in 5.5 gambling activities.

Whereas Table 4.2 provides a description of the types of gambling activities engaged in at different levels of problem gambling, Table 4.3 presents the proportion of persons at each level of problem gambling among those engaging in each type of gambling. This allows us to see the relationship of particular types of gambling to problem gambling more clearly. As will be recalled, 0.7% of the sample experiences severe gambling problems. With the exception of purchasing raffle tickets, those with severe gambling problems are over-represented on every type of gambling activity. The gambling activities engaged in by the highest proportion of those with severe gambling problems include betting on sports with a bookie, followed by playing slot machines or VLTs outside of casinos, playing casino table games, and betting on horse races.

Gambling Activities	Non- problem	At risk	Moderate problem	Severe problem	All gamblers
Lottery tickets	83.1%	11.9%	4.1%	0.9%	77.2%
Raffle tickets**	85.4%	10.4%	3.6%	0.6%	60.6%
Scratch tickets***	78.0%	14.7%	6.2%	1.2%	38.8%
Slot machines or VLTs***	76.1%	16.5%	5.9%	1.5%	35.1%
Outcome of sporting event***	76.9%	15.8%	6.1%	1.3%	16.3%
Arcade or video games***	75.3%	19.2%	4.7%	0.9%	14.5%
Games of skill***	70.7%	20.5%	7.7%	1.0%	12.5%
Card or board games with friends, etc. ***	73.5%	18.1%	7.3%	1.0%	12.5%
Casinos out of the province***	72.0%	19.4%	6.2%	2.4%	11.8%
Bingo***	67.8%	19.2%	10.3%	2.7%	10.6%
Casino table games***	63.7%	22.6%	9.4%	4.3%	9.1%
Speculative investments***	70.5%	19.5%	7.9%	2.0%	7.8%
Horse races***	71.0%	17.6%	7.6%	3.8%	6.8%
Sport Select***	62.6%	24.5%	9.9%	3.1%	7.6%
Slot machines or VLTs other than at casinos***	58.3%	21.4%	14.6%	5.8%	2.7%
Sports with bookie***	28.6%	28.6%	19.0%	23.8%	0.5%
Internet***	56.3%	28.1%	12.5%	3.1%	0.8%
(N)	(3,213)	(408)	(136)	(29)	(3,786)

Table 4.3: Gambling activity by CPGI levels

Questions were posed specific to casino gambling. As shown in Table 4.4, the majority of non-problem gamblers had not visited a casino in the year prior to the study. As the severity of gambling problems increases, the likelihood of having been to a casino in the past year increases (X^2 =109.586, d.f.=3, p.<0.001). Those with severe gambling problems are twice as likely as non-problem gamblers to have been to a casino in the past year.

Visits to casino	Non- problem	At risk	Moderate problem	Severe problem	All gamblers
Yes	40.2%	60.0%	65.5%	81.3%	43.7%
No	59.8%	40.0%	34.5%	18.8%	56.3%
(N)	(3207)	(405)	(135)	(28)	(3,775)

Table 4.4: Casino visits in the past year by CPGI levels, among those who visited a
casino in the past year

4.4 Money and time spent

While being asked about participation in various gambling activities, respondents were also asked about their expenditures for each gambling activity that they have participated in during the past year. Table 4.5 shows the relationship between CPGI score and expenditures. With the exception of purchasing Sport Select, betting on games of skill, and betting on arcade/video games, higher expenditures are associated with a higher score on the index of gambling problems. The highest correlation between amount spent on a particular type of gambling and problem gambling level occurs with respect to Internet gambling (r=.584), betting with a bookie (r=.505), gambling at horse races (r=.416), and playing slot machines or VLTs in a casino (r=.357).

	CPGI score			
Money spent on gambling activities	Pearson r	(N)		
Lottery tickets	0.094***	(2,972)		
Scratch tickets	0.128***	(1,486)		
Raffle tickets	0.046*	(2,310)		
Horse Races	0.416***	(261)		
Bingo	0.148**	(406)		
Slot machines or VLTs (casino)	0.357***	(1,348)		
Casino table games	0.494***	(345)		
Slot machines or VLTs (not at casinos)	0.254*	(100)		
Sport Select	0.077	(293)		
Outcome of sporting event	0.221***	(623)		
Card or board games with friends	0.377***	(475)		
Games of skill	0.059	(484)		
Arcade or video games	0.064	(557)		
Internet	0.584**	(30)		
Sports with bookie	0.505*	(21)		
Speculative stock investments	0.170**	(294)		
Casinos out of province	0.286***	(444)		

Table 4.5: Correlation between CPGI score and gambling expenditures

Respondents were asked to provide the total amount of money they have spent on all gambling activities in the past month. Again, CPGI level was significantly related to total expenditures (F{3, 3723}=32.607, p.<0.001). On average, non-problem gamblers spent \$43.36 in the past month, at risk gamblers spent \$96.77, moderate problem gamblers spent \$568.88, and those with severe gambling problems spent an average of \$865.41 on all gambling activities in the past month.

Respondents were also asked how much money they have lost and won on all types of gambling in the past month. The results show that non-problem gamblers tend to report winning the least amount of money, and those with severe gambling problems report the most winnings (F{3, 3725}=8.738, p.<0.001). On average, non-problem gamblers claim to have won an average of \$38.82 in the last month, at risk gamblers \$79.29, moderate problem \$321.57, and those with severe gambling problems claim to have won \$486.16 in the past month.

Surprisingly, there are much smaller differences between different gambling levels regarding the reported amount of money lost (F{3, 3666}=1.728, p>0.05). Given that those with severe gambling problems experience significant gambling problems, their claim to have not lost more than other gamblers is questionable. This finding suggests that those with gambling problems fail to acknowledge the extent of their gambling losses.

The amount of time normally spent each month gambling was also assessed. Overall, those with severe gambling problems spend in excess of 30 times the amount of time that non-problem gamblers spend on gambling per month (F{3, 3639}=77.945, p.<0.001). On average, non-problem gamblers spent 1.4 hours on all gambling activities in the past month; those at risk of gambling problems, 5.6 hours; moderate gambling problems, 9.7 hours; and those with severe gambling problems, an average of 32.5 hours.

4.5 Problems experienced from gambling

Respondents were presented with a list of potential gambling-related problems and asked to identify those that they have experienced. The large majority (91.8%) of gamblers have not experienced any gambling-related problems. Of the problems experienced, the most common is related to income loss or debt. As the severity of gambling problems increases, the likelihood of experiencing the following problems also increases: income or money loss/debt, relationship problems, loneliness/increased isolation, and health problems. Other responses that were given included work problems, stress/depression, disappointment, guilt, and loss of control.

		CPGI Levels					
Problems experienced from	Non-	At risk	Moderate	Severe	All		
gambling	problem		problem	problem	gamblers		
None***	95.2%	83.9%	56.3%	19.4%	91.8%		
Income or money loss/debt***	3.1%	9.6%	25.7%	50.0%	5.1%		
Relationship problems***	0.7%	4.8%	7.6%	40.6%	1.7%		
Loneliness/increased isolation***	0.3%	2.1%	5.6%	29.0%	1.0%		
Health problems***	0.3%	1.4%	6.3%	21.9%	0.8%		
Other***	0.6%	0.9%	4.2%	3.1%	0.8%		
(N)	(3,166)	(400)	(136)	(28)	(3,730)		

 Table 4.6: Problems experienced from gambling by CPGI level, among those who report gambling in the past year.

Respondents were also asked whether they have ever engaged in petty crime or other criminal activity to support their gambling habits. Most (99.4%) have never engaged in criminal activity to support their gambling. Of all gamblers, those with severe gambling problems are the most likely group to have supported their gambling through crime (X^2 =16.045, d.f.=3, p.<0.001). The proportion who reported engaging in crime to support their gambling is 0.6% among non-problem gamblers, 0.4% among at risk gamblers, 0.7% among moderate problem gamblers and 6.1% among those with severe gambling problems. Thus, of all gamblers, those with severe gambling problems are the most likely group to support their gambling problems are the most bikely gamblers. Thus, of all gamblers, those with severe gambling problems are the most bikely group to support their gambling.

4.6 Family gambling

Survey participants were asked to indicate whether anyone in their family ever had a gambling problem (see Table 4.7). One-tenth (10.2%) of respondents said that someone in their family had or used to have a gambling problem. The proportion reporting gambling problems among family members increased from 5.9% among nongamblers to 9.5% among non-problem gamblers. Furthermore, when compared with nonproblem gamblers, the proportion reporting gambling problems among family members doubled for those at risk of gambling problems. In general, the proportion reporting gambling problems among family members increased as CPGI levels increased (X^2 =69.334, d.f.=4, p.<0.001).

Gambling		CPGI Levels						
problems in	Non-	Non-	At risk	Moderate	Severe	All		
family	gamblers	problem		problem	problem	participants		
Yes	5.9%	9.5%	18.0%	20.9%	22.9%	10.2%		
No	94.1%	90.5%	82.0%	79.1%	77.4%	89.8%		
(N)	(837)	(3,187)	(402)	(132)	(27)	(4,585)		

Table 4.7: Gambling problems in family by CPGI levels

5. CHARACTERISTICS OF DIFFERENT TYPES OF GAMBLERS IN ONTARIO

This section examines characteristics associated with non-gamblers and the different levels of gamblers. Areas covered include socio-demographic characteristics, reasons for gambling and perceived benefits, beliefs about how gambling works, early gambling experience, health and well-being, and awareness of gambling services.

5.1 Socio-demographic characteristics

Table 5.1 summarizes the socio-demographic characteristics of non-gamblers and individuals gambling at the four CPGI gambling levels.

Males are more likely to become involved with gambling problems than females. A greater proportion of females are non-problem gamblers, and a greater proportion of males gamble at more problematic levels (X^2 =18.7, d.f.=4, p.<0.001).

There is no clear linear relationship between age and gambling levels, but gambling problems occur disproportionately in two different age groups. First, young adults aged 18 to 24 years of age are the most likely to be gambling at problematic levels. While levels of gambling problems are lower among those 25-34 years of age, respondents aged 35-59 report higher than average levels of gambling problems. Respondents 60 years of age and older are the least likely age group to experience severe gambling problems and the most likely group to be non-gamblers (X^2 =187.103, d.f.=16, p.<0.001). Thus, gambling problems appear to be related to the life cycle in a complex fashion. Young adults under the age of 25 are most prone to develop gambling problems. Between the ages of 25 and 35, when many persons are beginning families or advancing their careers, gambling problems tend to be less common. Then gambling problems increase somewhat through middle age, but decline again after the age of 60.

In terms of marital status, single individuals, including those who are divorced or separated, are the most likely to be gambling at problematic levels. Widowed individuals are the least likely to experience severe gambling problems, and the most likely group to be non-gamblers (X^2 =88.074, d.f.=12, p.<0.001).

Although educational attainment is significantly related to gambling level, there is no clear pattern (X^2 =56.069, d.f.=16, p.<0.001). Those with some high school are the most likely group to be classified as non-gamblers as well as moderate problem gamblers. The most likely group to experience severe gambling problems are those with some postsecondary education.

Gambling level is related to the respondent's job status (X^2 =136.344, d.f.=16, p.<0.001). Employed respondents are the most likely to be non-problem gamblers. Those who are unemployed and students are the most likely to experience severe gambling problems. It should be noted that the causal direction of the relationship between unemployment and serious gambling problems is not clear. In some cases, unemployment may stimulate excessive gambling while in other cases, it may be the result of gambling problems.

Low-income persons are not more likely to gamble, but they are more vulnerable to gambling problems if they do. Individuals with incomes less than \$30,000 are the most likely to be classified as problem gamblers. Interestingly, they are also the most likely to be non-gamblers. (X^2 =48.420, d.f.=20, p.<0.001).

Gambling problems are somewhat more common than average among those with no children living in the household, perhaps because this group would not only include elderly respondents, but also many single young adults ($X^2=27.019$, d.f.=16, p.<0.001). Among those who do have persons under the age of 18 living in the house, the number of children is related to higher levels of gambling problems. Individuals with the largest families (four or more individuals over 18 years of age in the household) are the most likely to experience severe gambling problems, as well as the most likely to be nongamblers. Problem gambling is related to the region of the province where an individual resides (X^2 =60.394, d.f.=24, p.<0.001). Individuals residing in the Toronto region are the most likely group to experience moderate and severe gambling problems, as well as to be non-gamblers. Persons residing in the South West region of Ontario are also more likely to report higher than average gambling problem levels.

Respondents were asked to rate the importance of religion in their lives. Those who consider religion to be very or somewhat important in their lives are somewhat more likely to be non-gamblers (18.4% vs. 13.1% among those who place less importance on religion), but they are no less likely to become problem gamblers if they do gamble $(X^2=22.451, d.f.=4, p<0.001)$.

	CPGI Levels					
Demographic	Non-	Non-problem	At risk	Moderate	Severe	
Characteristics	gamblers	gamblers		problem	problem	
	%	%	%	%	%	
Gender ***						
Male	16.2	68.4	10.9	3.5	1.0	
Female	17.4	71.2	8.3	2.7	0.4	
Age ***						
18-24	15.0	57.8	20.3	5.8	1.2	
25-34	15.6	70.4	10.9	2.6	0.6	
35-49	13.9	73.2	9.3	2.8	0.8	
50-59	15.7	73.5	6.5	3.5	0.8	
60 +	26.6	67.0	4.3	2.0	0.1	
Marital Status ***						
Married/living with partner	16.8	72.3	7.8	2.4	0.7	
Widowed	28.3	63.3	5.5	2.5	0.4	
Divorced/separated	14.0	71.6	10.1	3.6	0.8	
Single, never married	15.5	64.4	14.6	4.7	0.8	
Educational attainment ***						
Some high school	21.7	63.9	8.4	5.3	0.7	
Completed high school	16.0	68.7	10.9	3.8	0.6	
Some post-secondary	15.4	67.0	11.9	4.2	1.4	
Completed post-secondary	15.3	71.8	9.9	2.6	0.4	
Completed post-graduate	18.2	72.3	7.2	1.5	0.9	
Employment Status ***						
Employed	13.7	72.4	10.0	3.3	0.7	
Unemployed	22.2	61.5	11.6	3.2	1.6	
Student	23.0	52.0	19.6	4.1	1.4	
Retired	26.0	67.2	4.4	2.1	0.1	
Other	36.0	56.0	4.0	4.0	0	
Income ***						
<\$20,000	22.4	58.2	13.1	5.3	0.9	
< \$30,000	17.1	67.5	10.9	2.9	1.6	
< \$40,000	18.0	70.2	7.9	3.5	0.5	
< \$50,000	16.7	70.0	9.4	3.0	1.0	
< \$60,000	13.3	73.3	10.1	3.1	0.2	
\$60, 000 +	16.1	71.6	9.0	2.7	0.6	
Number of people under 18*						
None	17.6	69.2	9.4	3.0	0.8	
One	14.8	70.7	11.5	2.8	0.1	
Two	15.6	72.6	7.7	3.9	0.2	
Three	14.0	70.7	10.9	3.5	0.9	
Four or more	22.4	61.8	11.8	1.3	2.6	

Table 5.1: Gender, age, marital status, education, employment status, income,family composition and region by CPGI levels

Region***					
East	14.1	75.5	8.3	1.4	0.6
Central East	14.1	70.6	11.7	3.3	0.3
Toronto	19.0	64.8	10.8	3.9	1.4
Central West	17.2	69.0	10.3	2.9	0.7
Central South	18.2	70.5	6.8	3.3	1.2
South West	19.0	69.1	9.0	2.8	0
North	12.7	75.4	7.9	3.7	0.3
Religion ***					
Very/somewhat important	18.4	68.9	9.0	3.0	0.7
Not very/not at all important	13.1	72.2	10.7	3.3	0.7

5.2 Reasons for going to a casino and perceived benefits

Those respondents who went to a casino in the past year were asked to cite the reasons for their visit from a list provided. Of the total sample, 38% reported that they had attended a casino in the year prior to the study. There were even a small number of non-gamblers who went to a casino, typically to watch others gamble or for other entertainment. As shown in Table 5.2, the most common reasons included the enjoyment of gambling (28.6%), watching others gamble (26.6%), to win money (25.2%), to enjoy the musical entertainment (20.9%) or to simply socialize (18.0%). Generally, as the severity of problem gambling increases, participants are more likely to give multiple reasons for visiting casinos and they are more likely go for the enjoyment of gambling, to win money, and to drink alcohol.

	Gambling Levels					
Reasons for	Non-	Non-	At risk	Moderate	Severe	Total
gambling:	gambler	problem		problem	Problem	casino visitors
Enjoyment of	6.6%	24.4%	45.2%	45.2%	73.1%	28.6%
gambling***						
To watch others	40.8%	25.3%	26.6%	30.1%	30.8%	26.6%
gamble*						
⁴ To win	11.8%	20.4%	37.8%	57.0%	57.7%	25.2%
money***						
Musical	17.3%	21.5%	20.8%	17.2%	19.2%	20.9%
entertainment						
Socialize*	7.9%	19.2%	17.0%	17.2%	0	18.0%
To drink	6.7%	5.2%	8.5%	12.9%	19.2%	6.4%
alcohol***						
Other	1.3%	2.9%	2.3%	1.1%	0	2.6%
Tourist attraction*	6.6%	2.8%	0.4%	2.2%	0	2.5%
Occasion	1.3%	2.8%	0.8%	0	0	2.2%
To eat	2.7%	2.4%	1.5%	1.1%	0	2.2%
For the company	1.3%	1.5%	0.4%	0	0	1.2%
Work related	2.7%	1.1%	0.8%	0	0	1.0%
Atmosphere	0	0.9%	1.5%	0	0	0.9%
(N)	(73)	(1,252)	(240)	(89)	(23)	(1,677)

 Table 5.2: Reasons for going to a casino by CPGI level, among those who visited a casino in the past year

Respondents who gambled in the past year were also presented with a list of potential benefits associated with gambling, and asked to indicate the ones they received (see Table 5.3). Originally, responses were categorized into a multiple response variable; however, for this analysis, each response has been re-categorized into a dichotomy with "yes" (for those who identified that response as a reason) or "no" (for non-responses).

The most common response among all levels of gamblers was winning money (42.1%), followed by excitement or fun (36.5%), and having an opportunity to socialize (26.0%). The perceived benefit of winning money was strongly related to level of gambling problems. The proportion who identify winning money as a benefit of gambling increases progressively from 39.8% of non-problem gamblers to 66.7% of those with the most severe gambling problems. Those with severe gambling problems were also the most likely group to identify decreased boredom and isolation, and forgetting problems as benefits. Non-problem gamblers were the most likely group to indicate that there were no benefits.

	Non-	At risk	Moderate	Severe	All
Perceived Benefits:	problem		problem	problems	gamblers
Can win money***	39.8%	50.0%	63.2%	66.7%	42.1%
It's exciting/fun***	33.6%	50.8%	53.5%	45.5%	36.5%
An opportunity to	23.8%	38.2%	36.8%	27.3%	26.0%
socialize***					
None***	21.4%	6.3%	6.3%	12.1%	19.0%
Decreases boredom***	10.4%	23.1%	23.6%	33.3%	12.6%
Get to be around	7.2%	15.1%	20.1%	24.2%	8.8%
others/decreases					
isolation***					
Forget about problems***	3.1%	10.2%	16.0%	18.8%	4.6%
Charity support**	3.6%	0.7%	0.7%	0	3.1%
Other*	1.6%	2.5%	4.9%	0	1.8%
For variety/something to do	1.4%	2.9%	0.7%	3.0%	1.6%
Fantasy/to dream	0.6%	0	0	0	0.5%
Satisfy curiosity	0.4%	0	0	0	0.3%
Challenging**	0.1%	0.9%	0.7%	0	0.2%
Increases self-worth	0.1%	0	0	0	0.1%
(stocks)					
(N)	(3,146)	(406)	(136)	(29)	(3,717)

 Table 5.3: Benefits received from gambling by CPGI level, among those who

 gambled in the past year

5.3 Beliefs and attitudes of different types of gamblers

As a gauge of participant's understanding of how gambling works, questions were posed about randomness and probabilities. A fundamental statistical principle underlying most games of chance is the concept of independent events, whereby the chances of success do not change from one play (e.g., a roll of dice or spin of a roulette wheel) to the next. Thus, unless a game is rigged in some fashion, the probability of winning or losing does not change regardless of previous outcomes. Nonetheless, when asked if after losing many times in a row, one is more likely to win, a small but substantial proportion of the respondents (13.6%) agreed or strongly agreed with this false statement (see Table 5.4). As the severity of gambling problems increases, the likelihood of believing that a win is more likely after a losing streak also increases (X^2 =156.597, d.f.=9, p.<0.001), thus providing support to the notion that cognitive deficiencies play a role in the development of some gambling problems.

Reaction to statement:					
"After losing many times in a row one is more likely to win"	Non- problem	At risk	Moderate problem	Severe problems	All gamblers
Strongly agree	0.5%	1.4%	6.5%	12.1%	0.9%
Agree	11.5	16.5	25.2	27.3	12.7
Disagree	57.7	61.5	51.8	42.4	57.8
Strongly disagree	30.3	20.6	16.5	18.2	28.6
(N)	(3,109)	(400)	(132)	(29)	(3,670)

 Table 5.4: Whether respondents believe that after losing many times in a row one is more likely to win, among those who gambled in the past year

The statistical principle of independent events also implies that there is no betting system that can increase the odds of winning. Respondents were also asked whether having a system increases the odds of winning at gambling. Again, a substantial proportion of respondents (24.5%) agreed with this false statement. A false belief that a betting system can increase the odds of winning is strongly related to problem gambling level. The proportion who falsely believe in a betting system increases progressively from 21.1% among non-problem gamblers to 39.2% among those at risk of gambling problems and 48.3% with moderate gambling problems. Interestingly, among those with the most severe gambling problems the proportion who believe in a betting system (X^2 =175.037, d.f.=9, p.<0.001).
"One can win		CPGI Levels					
more if one uses a system"	Non- problem	At risk	Moderate problem	Severe problems	All gamblers		
Strongly agree	1.7%	5.7%	13.5%	9.4%	2.7%		
Agree	19.4	33.5	34.8	34.4	21.8		
Disagree	52.8	45.2	36.2	37.5	51.2		
Strongly disagree	26.0	15.6	15.6	18.8	24.4		
(N)	(3.064)	(400)	(133)	(28)	(3.625)		

Table 5.5: Whether respondents believe that one can win more if one uses a systemby CPGI levels, among those who gambled in the past year.

5.4 Early gambling experience

Research has found an association between an early big win and problem gambling. When participants were asked about a first big win, only one in four gamblers recalled one (see Table 5.6). However, as the severity of gambling problems increases, the likelihood of recalling a first big win also increases progressively from 21.7% among non-problem gamblers to 63.6% among the most severe problem gamblers (X^2 =207.405, d.f.=3, p.<0.001).

Table 5.6: Remembering first big win by CPGI levels, among those who gambled in
the past year

Remembered having	Non-	Non- At risk Moderate Severe						
a big win	problem		problem	Problem	gamblers			
Yes	21.7%	45.4%	55.9%	63.6%	26.1%			
No	78.3	54.6	44.1	36.4	73.9			
(N)	(3,109)	(400)	(132)	(29)	(3,670)			

Participants were also asked about an early big loss (see Table 5.7). Again, the majority (90.9%) do not remember experiencing one. Recollection of a loss, however, increases with increasing severity of gambling problems (X^2 =218.216, d.f.=3, p.<0.001). Thus, the more severe the respondent's gambling problems, the more likely that he or she will remember both a big win or a big loss.

		All					
Remembered having	Non-	Non- At risk Moderate Severe					
a big loss	problem		problem	problem			
Yes	6.5%	17.1%	29.9%	54.5%	9.1%		
No	93.5	82.9	70.1	45.5	90.9		
(N)	(3,192)	(408)	(136)	(29)	(3,765)		

Table 5.7: Remembering first big loss by CPGI levels, among those who gambled in the past year

5.5 Health and well-being

The majority of respondents rate their health status as "very good" or "good" (see Table 5.8). Non-gamblers and non-problem gamblers are the most likely groups to rate their health as "very good". A significant relationship was observed between health ratings and problem gambling level (X^2 =77.229, d.f.=16, p.<0.001). Generally, the greater the respondent's gambling problems, the poorer his or her health status. However, it should be noted just as the most severe problem gamblers are more likely than the overall average to report poor or very poor health, there are also a disproportionate number of non-gamblers who similarly report poor or very poor health. This indicates that to some extent, health status is both a cause and a consequence of gambling activity – just as gambling problems may lead to poor health, so too health problems may render some persons unable to gamble as much as they might otherwise.

Health status	Non- gambler	Non- problem	At risk	Moderate problem	Severe problem	All participants
Very good	50.0%	50.0%	39.4%	28.5%	30.3%	48.1%
Good	36.9	39.4	46.4	50.7	48.5	40.1
Fair	8.9	8.2	11.1	17.4	18.2	9.0
Poor	2.5	2.0	2.7	3.5	0.0	2.2
Very poor	1.7	0.4	0.5	0.0	3.0	0.6
(N)	(841)	(3,209)	(405)	(136)	(29)	(4,620)

All respondents were asked whether they have been under a doctor's care because of physical or emotional problems brought on by stress (see Table 5.9). There is a significant relationship between likelihood of having been under doctor's care and CPGI levels (X^2 =33.074, d.f.=4, p.<0.001). Those with moderate and severe gambling problems are the most likely to report being under a doctor's care for emotional or physical problems brought on by stress. Nearly one in four of these gamblers report that they have been given medical care due to stress.

Table 5.9 also examines depression by CPGI levels. (X^2 =94.870, d.f.=4, p.<0.001). As shown, those with moderate and severe gambling problems are the most likely to report feeling seriously depressed. Non-problem gamblers are the least likely group. Gamblers were also asked if they have seriously considered suicide as a result of their gambling (see Table 5.9). Those with severe gambling problems are by far the most likely group to have considered suicide due to their gambling (X^2 =37.294, d.f.=3, p.<0.001). One in sixteen severe problem gamblers (6.1%) report that they have considered suicide. When asked whether respondents ever felt an urge to gamble when something painful happened, the majority (98.3%) of gamblers indicated that they never felt this need. Table 5.9 shows that as the severity of gambling problems increases, the likelihood of needing to gamble when something painful happens also increases (X^2 =121.524, d.f.=3, p.<0.001).

	CPGI Levels						
Stress indicators:	Non- gambler	Non- problem	At risk	Moderate problem	Severe problem		
Under doctor's care for emotional or physical problems due to stress	13.3% (840)	11.9% (3,198)	17.2% (406)	25.4% (135)	24.2% (29)		
Feeling seriously depressed	15.6% (842)	14.0% (3,206)	27.5% (406)	32.9% (135)	39.4% (29)		
Seriously considering suicide as result of gambling	N/A	0.3% (3,207)	0.0% (408)	0.7% (136)	6.1% (29)		
Need to gamble when something painful happened	N/A	0.7% (3,208)	4.5% (407)	6.3% (136)	18.2% (29)		

Table 5.9: Stress indicators by CPGI levels

A number of other questions were posed related to how individuals deal with painful events in their lives. One question asked participants whether they have an urge to drink when something painful happens in their life (see Table 5.10). A significant association was observed between this question and CPGI levels (X^2 =94.235, d.f.=4, p.<0.001). Non-gamblers were the least likely group to have an urge to drink alcohol when something painful happens to them.

Table 5.10: Urge to drink alcohol when something painful happens by CPGI levels

Urge to drink when						
something painful happens	Non- gambler	Non- problem	At risk	Moderate problem	Severe problem	All participants
Yes	9.4%	16.4%	28.1%	32.4%	18.8%	16.8%
No	90.6	83.7	71.9	67.6	81.3	83.2
(N)	(842)	(3,206)	(408)	(134)	(29)	(4,619)

Respondents were also asked whether they have an urge to use drugs or medication when something painful happens to them (see Table 5.11). Again, a significant relationship was observed with CPGI levels (X^2 =78.261, d.f.=4, p.<0.001). Consistent with responses to the alcohol question, non-gamblers were the least likely group to feel an urge to use drugs or medication when dealing with a painful event in their life.

 Table 5.11: Urge to use drugs/medication when something painful happens by CPGI

 levels

Urge to use drugs or						
medication when something painful happens	Non- gambler	Non- problem	At risk	Moderate problem	Severe problem	All participants
Yes	6.9%	7.2%	13.7%	24.8%	18.2%	8.4%
No	93.1	92.8	86.3	75.2	81.8	91.3
(N)	(841)	(3,208)	(408)	(134)	(29)	(4,620)

When asked to indicate how many people respondents can turn to for support or help if they had a serious personal problem, just under one-half (46.6%) of the respondents said that they have between one to five people (see Table 5.12). Of the total sample, only 1.5% of respondents reported having no one to turn to when dealing with personal problems. A significant relationship was observed with CPGI levels $(X^2=61.479, d.f.=12, p.<0.001)$. Those with severe gambling problems are particularly likely to have no one at all to turn to when dealing with serious personal problems.

Number of people you can turn to when dealing with personal problems	Non- gambler	Non- problem	At risk	Moderate problem	Severe problem	All participants
None	1.0%	1.5%	0.9%	2.9%	15.6%	1.5%
1-5	51.0	44.9	51.1	50.4	37.5	46.6
6-10	29.9	34.8	32.7	28.5	28.1	33.5
11 or more	18.1	18.7	15.3	18.2	18.8	18.3
(N)	(782)	(3,074)	(389)	(130)	(28)	(4,403)

Table 5.12: Number of people respondents can turn to by CPGI levels

When asked to identify the individuals that participants would turn to for help with gambling-related problems, family member and gambling counsellor are the most common responses (see Table 5.13). Those with the most severe gambling problems are more likely than other types of gamblers to turn for assistance to friends rather than family or professional help. Moderate problem gamblers, however, are the most likely to identify gambling counsellors as a potential source of help.

 Table 5.13: To whom you would turn when dealing with gambling-related problems

 by CPGI levels

To whom you would turn						
when dealing with	Non-	Non-	At risk	Moderate	Severe	All
personal problems	gambler	problem		problem	problems	participants
Family***	32.2%	40.3%	48.3%	43.9%	31.0%	39.9%
Gambling counsellor***	37.2	39.4	28.0	42.7	30.0	38.0
Friend***	20.1	27.4	35.6	23.7	51.7	27.1
Family doctor**	22.8	27.6	22.3	17.6	16.7	25.9
Social worker/psychologist/	23.9	21.2	18.0	17.4	16.7	21.2
psychiatrist						
Minister, priest or rabbi***	29.1	14.6	13.7	12.2	13.3	16.7
Other	5.4	5.3	5.7	4.6	10.3	5.4
(N)*	(709)	(2,926)	(383)	(123)	(26)	(4,167)

Note: * p.<0.05, ** p.<0.01, ***p.<0.001

5.6 Problems resulting from others' gambling

It was noted earlier that more than one in eight Ontario adults (13.7%) report at least one of the nine problem gambling indicators used in the CPGI. These items only refer, however, to the respondent's own situation. A more comprehensive picture of the extent of gambling problems in Ontario would include information on problems arising from other persons' gambling. Participants were asked whether they ever experienced any problems as a result of someone else's gambling. Although the large majority (94.8%) have not experienced any problems as a result of someone else's gambling, 5.2% indicate that others' gambling has caused a problem for them. As seen in Table 5.14, 3.2% of non-gamblers and 4.7% of non-problem gamblers have experienced a problem from others' gambling. When we add these respondents with the number who report a gambling problem of their own, it is found that approximately one in six Ontario adults (16.2%) report a problem resulting from either their own or another person's gambling. Furthermore, Table 5.14 also shows that as the severity of gambling problems increases, so does the likelihood of being negatively impacted by others' gambling (X^2 =59.869, d.f.=4, p.<0.001). The proportion reporting problems from others' gambling increases progressively from 3.2% among non-gamblers to nearly one in every four (24.3%) among those with most severe gambling problems.

Problems experienced		CPGI Levels							
from someone else's	Non-	Non-	At risk	Moderate	Severe	All			
gambling	gambler	problem		problem	problem	participants			
Yes	3.2%	4.7%	8.3%	13.4%	24.3%	5.2%			
No	96.8	95.3	91.7	86.6	75.7	94.8			
(N)	(842)	(3,208)	(408)	(134)	(29)	(4,621)			

Table 5.14: Problem experienced from someone else's gambling by CPGI levels

5.7 Awareness of gambling services

Respondents were asked about their awareness of gambling services in Ontario. Less than one-half are aware of Ontario's toll-free gambling help line (36.1%), and of gambling counselling services available in their community (46.4%) (see Table 5.15). While awareness of these sources of help is related to level of gambling problem, the relationship is not as strong as one might expect. A substantial number of gamblers at all levels of gambling problems are unaware of either the help line or gambling counselling services. Whereas those with severe gambling problems are the most likely group to be aware of counselling services (X^2 =44.320, d.f.=4, p.<0.001), they are the least likely type of gamblers to know about the help line (X^2 =17.198, d.f.=4, p.<0.01).

Table 5.15: Awareness	of toll-free gambl	ing help lin	ie and gamb	oling
counselling	g services by CPG	I levels		

		CPGI Levels					
Percentage aware of:	Non- gambler	Non- problem	At risk	Moderate problem	Severe problem	All participants	
Toll-free	29.6%	37.5%	37.3%	35.4%	33.3%	36.1%	
gambling help line	(844)	(3,214)	(408)	(136)	(29)	(4,631)	
Counselling	38.0%	47.0%	51.9%	61.1%	63.6%	46.6%	
services	(844)	(3,214)	(408)	(136)	(29)	(4,631)	

6. GAMBLING AND SUBSTANCE USE

This section examines relationships between CPGI gambling levels and the use of psychoactive substances such as alcohol, tobacco and illicit drugs. Levels of lifetime and current substance use by different types of gamblers are presented, as well as findings regarding the extent to which gamblers use psychoactive substances while gambling.

Table 6.1 examines the use of alcohol, tobacco and illicit drugs by problem gambling level. The first general finding is that gamblers are more likely to consume alcohol, smoke tobacco or use illicit drugs when compared with non-gamblers. Thus, gamblers are more likely to consume alcohol and have higher rates of drinking compared with non-gamblers. Gamblers are more likely to have ever smoked cigarettes, to be current smokers and to be current daily smokers compared with non-gamblers. With regard to illicit drugs, non-gamblers are less likely than all types of gamblers to have ever used cannabis, cocaine, ecstasy, or heroin, LSD or other psychedelics, and they are also less likely to have used any of these illicit drugs in the past year.

Second, among different levels of problem gambling, it is generally (but not always) found that the greater the involvement in gambling problems, the higher the use of alcohol, tobacco and illicit drugs. While there is relatively little difference regarding the proportion who ever or currently drink alcohol, the mean number of drinks per drinking occasion increases progressively from 2.6 drinks per occasion for non-problem gamblers, to 3.6 among those at risk of gambling problems, and 4.2 drinks per occasion among those with moderate gambling problems. However, the mean number of drinks per occasion among those with severe gambling problems is 3.0. Among different types of gamblers who smoke, the greater the involvement in gambling problems, the higher the proportion who are current or daily smokers and the higher mean number of cigarettes smoked. Rates of ever or current use of illicit drugs tend to be highest among those with moderate and severe gambling problems, compared with non-gamblers or at-risk gamblers.

	CPGI Levels					
	Non-	Non-	At risk	Moderate	Severe	All
	gambler	problem		problem	problem	participants
Alcohol Use:						
% consuming alcohol	85.4%	96.7%	95.1%	93.7%	87.9%	94.5%
ever in lifetime						
% consuming alcohol	67.3%	87.9%	85.6%	83.3%	72.7%	84.0%
in past year						
Mean # of drinks per	2.2	2.6	3.4	4.2	3.0	2.5
occasion						
Tobacco Use:						
% ever smoked	56.1%	70.9%	71.7%	79.9%	75.8%	68.8%
% current smokers	16.7%	29.1%	41.3%	48.6%	46.9%	29.0%
% current daily	13.5%	23.1%	34.8%	38.9%	40.6%	23.3%
smokers						
Mean # of cigarettes	14.1	13.5	15.0	16.4	16.6	14.2
smoked per day,						
among smokers						
Illicit drug use:						
Ever used marijuana or	27.9%	43.1%	50.0%	53.8%	36.4%	41.5%
hashish						
Used marijuana or	5.9%	11.7%	19.5%	28.7%	15.2%	12.0%
hashish in past year						
Ever used cocaine	3.1%	7.0%	11.7%	16.7%	18.2%	7.2%
Used cocaine in past	0.1%	0.7%	2.0%	6.3%	3.0%	0.9%
vear	0.170	0.770	2.070	0.570	5.070	0.970
Ever used ecstasy	1.8%	3.0%	7.2%	8 5%	18.2%	3.5%
(MDMA)	1.070	5.070	7.270	0.070	10.270	5.570
Used ecstasy (MDMA)	0.6%	1.2%	3.4%	5.0%	12.1%	1.5%
in past year	0.070	1.270	01.70	0.070	1211/0	110 /0
Ever used heroin.	4.7%	8.7%	15.3%	17.0%	15.2%	9.0%
LSD. other	,.					
psychedelics						
Used heroin, LSD.	0.3%	0.7%	1.8%	4.2%	6.1%	0.8%
other psychedelics in						
past year						
(N≥)	(841)	(3209)	(405)	(136)	(29)	(4,620)

Table 6.1: Alcohol, tobacco and illicit drug use by CPGI levels

Note: All relationships are statistically significant (p.<0.001).

Thus, the greater the involvement in gambling and gambling problems, the greater the use of alcohol, tobacco and/or illicit drugs. Indeed, many Ontarians indulge in both the use of psychoactive substances and in gambling at the same time. As shown in Table 6.2, approximately one in six gamblers (19.0%) have used alcohol or drugs while gambling. Table 6.2 also examines the use of alcohol or drugs while gambling by different levels of problem gambling. A significant relationship was observed $(X^2=83.518, d.f.=3, p.<0.001)$, with non-problem gamblers the least likely to use alcohol or drugs while gambling. Those with moderate gambling problems report the most use.

Participants were also asked if they have ever gambled while drunk or high (see Table 6.2). This also produced a significant association with CPGI levels (X^2 =151.939, d.f.=3, p.<0.001). Again, non-problem gamblers are the least likely, and moderate problem gamblers the most likely to report gambling while drunk or high.

 Table 6.2: Use of alcohol or drugs while gambling, and gambling while intoxicated

 on alcohol or drugs by CPGI levels

	Non- problem	At risk	Moderate problem	Severe problem	All gamblers
Per cent reporting use	16.5%	31.1%	35.4%	30.3%	19.0%
of alcohol or drugs while gambling***	(3,203)	(407)	(136)	(29)	(3,775)
Per cent reporting ever	4.5%	16.5%	22.2%	12.5%	6.6%
gambling while high on alcohol or drugs***	(3,203)	(407)	(136)	(28)	(3,774)

Note: ***p<0.001.

Participants were also asked whether they have ever felt that they might have an alcohol or drug problem. Approximately one in twelve respondents (9.1%) stated that they did have an alcohol or drug problem (see Table 6.3). Self-reported alcohol or drug problems are strongly related to level of problem gambling. The proportion who report having an alcohol or drug problem increases progressively from 6.1% among non-gamblers to 24.2% among those with severe gambling problems ($X^2=37.360$, d.f.=4, p.<0.001).

Indicator of alcohol or drug		CPGI Levels					
problem with respondent or	Non-	Non- Non- At risk Moderate Severe				All	
family member:	gambler	problem		problem	problem	participants	
% feel that they might have an	6.1%	8.8%	12.2%	18.2%	24.2%	9.1%	
alcohol or drug problem***	(841)	(3,207)	(406)	(136)	(29)	(4,619)	
% with family member who has	26.6%	37.8%	39.8%	51.1%	43.8%	36.6%	
an alcohol or drug problem***	(835)	(3,181)	(401)	(134)	(28)	(4,579)	

Table 6.3: Personal or family alcohol or drug problem by CPGI levels

Note: *** p<0.001.

Table 6.3 also presents the proportion of respondents who report a family history of alcohol or drug abuse by gambling level. More than one-third of the total sample (36.6%) indicated that someone in their family had an alcohol or drug problem. Non-gamblers are the least likely group to have family alcohol or drug problems. Moderate problem gamblers, followed by those with severe gambling problems, are the most likely groups to report a history of substance abuse in their families (X^2 =50.469, d.f.=4, p.<0.001).

In summary, these findings indicate that the problems of substance abuse and gambling problems are closely connected. Gamblers are more likely to use alcohol and drink at higher levels compared with non-gamblers. They are also more likely to smoke and use illicit drugs. Among gamblers, the greater the involvement with gambling problems, the higher the rates of substance use and misuse. The greater the involvement in gambling problems, the higher the proportion who report an alcohol or drug problem and the greater the likelihood that one has a family history of such problems.

7. CONCLUSIONS AND DISCUSSION

This study provides current baseline information on the nature and extent of gambling among adults in Ontario. A noteworthy aspect of this study is recognition of the diversity associated with various gambling activities. Often, distinctions are not made between types of gambling activities. Rather, the various activities are collapsed into a general "gambling" category. As shown in the results of this study, there are clear differences associated with participation in various activities. Different types of gambling relate to different social characteristics, and the proportion of gamblers who develop problems varies considerably from one type of gambling to another.

A major objective of this research is to identify the extent to which people are experiencing problems related to their gambling. The study provides current baseline information that can be used to track changes over time as gambling policies and practices evolve and develop in Ontario in the coming years. In addition to measuring levels of problem gambling, this study has examined factors associated with problem gambling behaviours. Such information will be useful in developing and improving future policy, prevention and education gambling strategies in Ontario.

Given a broad definition of gambling, the results show that the large majority of Ontarians gamble. At the same time, the large majority do not experience any problems related to their gambling. For most, gambling consists mainly of purchasing the occasional lottery or raffle ticket. Approximately one-third purchase scratch tickets, and just over one-quarter gamble on slot machines. Less than one in ten play bingo or table games at a casino. Very few, less than 1%, gamble on the Internet or make bets with a bookie.

The vast majority of gamblers feel that they receive benefits from their gambling. Not surprising, the most common benefit cited is winning money. Gambling is also appealing because it is perceived to be exciting and provides an opportunity to socialize. Basically, most respondents view gambling as a form of entertainment.

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For the most part, various gambling activities are related to other gambling activities. That is, individuals who gamble on certain activities (e.g., buying lottery tickets) are more likely to gamble in other ways (e.g., buying scratch tickets). To some extent, almost all gambling activities are positively related to one another. The exceptions are Internet gambling and speculative investments. It is fairly easy to understand how speculative investments are distinct from other activities. It is very interesting that Internet gambling has little or no relationship to other forms of gambling.

Increasingly, Internet gambling and the potential problems that may result from this form of gambling represent a growing area of concern. Consistent with the results from this study, most research has thus far found very low participation rates. It does not appear that those who are engaging in other forms of gambling gamble on the Internet because of its high accessibility. Rather, those who engage in Internet gambling appear at this time to be quite different from the general population of gamblers. In contrast to other activities, those who engage in Internet gambling are not doing it for the socializing opportunities. It is a solitary behaviour. As further research is conducted on Internet gambling, it will be interesting to gain insight into the unique factors associated with participation in this form of gambling.

Examination of the socio-demographic variables associated with gambling activities revealed substantial gender differences. For most activities, participation is over-represented by males. The only activities where participation is greater among females are with scratch tickets, raffle tickets, and bingo. It is curious why these particular gender differences exist. One potential influence is marketing.

A major emphasis of the present study has been the examination of the extent and characteristics of problem gambling. The extent of gambling problems in Ontario is a concern. The results show that 3.1% are experiencing moderate gambling problems and 0.7% severe gambling problems. In terms of actual numbers, this translates to 278,179 people with moderate gambling problems and 62,815 people with severe gambling

problems. That is, approximately 340,000 adults in Ontario are experiencing moderate to severe problems related to their gambling.

It is difficult to determine whether these rates represent an increase or decrease since the expansion of gambling in this province. In 1995, a general population prevalence study was conducted in Ontario (Ferris and Stirpe, 1995). Of the total sample, 1% were gambling at the most severe level. The 1995 study used the South Oaks Gambling Screen (SOGS) to assess problem gambling. That instrument is not directly comparable to the CPGI, the instrument used in the present study.

However, as part of the validation process of the CPGI, a survey was administered to a national sample in 1999 (Ferris and Wynne, 2001). A total of 871 adults from Ontario were surveyed. The results showed that 2.6% had moderate gambling problems and 1.0% had severe problems. Thus, in a two-year period, the proportion of the population experiencing moderate or severe gambling problems increased from 3.6% to 3.8%. On one hand, this would not appear to be cause for alarm. The prior survey was based on a relatively small sample; there was a relatively small increase; and the proportion of those with severe problems actually declined. On the other hand, the increase in moderate or severe gambling problems was approximately 5.6% (0.2/3.6), or 2.8 % per year. This represents an increase of approximately 10,000 persons with moderate or severe gambling problems each year in Ontario. A possible interpretation of these findings is that although some severe problem gamblers ceased or reduced their gambling due to treatment, bankruptcy or other reasons in the past two years, they were more than offset by an increase in the number of moderate problem gamblers. If future surveys confirm this upward trend, it could have important implications to the provision of gambling services in the province, indicating a need for continued expansion of service provision.

A central focus of the present study was identifying relationships between problem gambling and a diverse range of factors. Examination of gambling patterns reveals substantial differences between problem and non-problem gamblers. With the exception of purchasing raffle tickets, those with severe gambling problems are overrepresented on every type of gambling activity. The gambling activities engaged in by the highest proportion of those with moderate to severe gambling problems are betting on sports with a bookie, playing slot machines or VLTs outside of casinos, Internet gambling and playing casino table games. A particularly noteworthy finding is related to making bets with a bookie. Although very few individuals pursue this form of gambling, of those who do, nearly one-half (43%) experience moderate to severe problems.

It is important to keep in mind that the activity of gambling in itself does not necessarily lead to a gambling problem. Although individuals with gambling problems participate in most gambling activities to a greater extent than non-problem gamblers, the majority of persons who engage in any particular type of gambling activity experience no problems as a result of their gambling. What these results do suggest is that engagement in activities that are generally not common is related to an increased likelihood that individuals will have gambling problems. Although there does not appear to be a set progression in the involvement of problem gamblers in different types of gambling activities, it is hoped that future analyses of data from this and other surveys will examine the extent to which involvement in gambling activities represents a uni-dimensional phenomenon with a common set of underlying determinants.

Problem and non-problem gamblers basically share similar motivations for gambling. The main difference is the extent to which problem gamblers perceive various benefits. For instance, winning money is the most common benefit cited by all gamblers. However, severe problem gamblers are much more likely than non-problem gamblers to perceive this as a benefit (67% vs. 40%). Other benefits commonly perceived by those with the most severe gambling problems are excitement (46%) decreased boredom (33%), and an opportunity to socialize (27%). These reasons suggest that loneliness may occupy an important relationship with gambling problems.

Not unexpectedly, the most common negative consequence identified by all gamblers is the loss of money. In general, as the severity of gambling problems increases,

the amount of money spent, won, and lost on gambling activities also increases. Taking speculative investments out of the equation, severe problem gamblers spend and lose the most money on sports with a bookie, slot machines in casinos, and casino table games.

A related area concerns respondents' understanding of probabilities and the principle of randomness. In most forms of gambling, the outcome of each gamble is independent of prior outcomes. This principle underlies most games of chance, and therefore the extent to which an individual understands this concept may play a role in the development of gambling problems. The results showed that individuals with gambling problems are more likely than non-problem gamblers to believe that a win is more likely after a losing streak and that having a system increases the overall odds of winning at gambling. At the same time, a notable proportion of non-problem gamblers also carry these incorrect beliefs.

In terms of the socio-demographic characteristics associated with problem gambling, no one is immune to gambling problems. Gambling-related problems are evident among all age groups, income and education levels and regions of the province. This being said, there is a strong relationship between gender, age and gambling problems. Being male, between the ages of 18 to 24 years, is clearly related to the development of moderate to severe gambling problems. Among 18 to 24 year olds, 7% experience moderate to severe gambling problems. This compares with 3.8% for the general population. Young adults are the most likely group to purchase scratch tickets, play slots in a casino, gamble on arcade games, play casino table games, gamble with friends/family, play Sports Select, and, somewhat surprisingly, play bingo. The most common benefit they receive from gambling is excitement, followed by winning money and socializing. They are the most likely age group to identify less boredom, less isolation and forgetting problems as benefits associated with gambling. They are the least likely age group to feel that there are no benefits associated with gambling. When asked to provide the reasons for going to a specific gambling venue, namely casinos, this age group was the most likely to identify drinking alcohol as a reason. These findings have

potentially important implications for the design of preventive policies, indicating that at least some programming should be specifically targeted and designed for this age group.

The youngest age group provides a direct contrast to the oldest age group examined – individuals 60 years and older. There is concern that an increasing number of older adults may be experiencing problems related to their gambling. Casinos specifically target older adults, offering inexpensive bus trips and other incentives. Older adults face a unique set of factors that may place them at greater risk of developing gambling problems, including loneliness, fixed incomes, and vulnerability resulting from postretirement inactivity (Fessler, 1996). There is also concern that gambling problems may be more difficult to identify because of increased isolation from co-workers, friends and family.

The results from this study show that older adults, 60 years and older, are the least likely age group to have gambling-related problems. Of those aged 60 or older, 2.1% are experiencing moderate to severe gambling problems. With the exception of bingo, they are the least likely age group to participate in all gambling activities. Similar to the general population, the most common gambling activities among older adults include lottery tickets, raffles and slots in a casino. At the same time, it is important to remember that the current gambling patterns among older adults may not reflect the next generation, who may have very different beliefs and attitudes about gambling. As the proportion of elderly in the population of Ontario continues to increase, there is a need to stay abreast of their potential gambling problems. It should be noted in this regard that a special report on gambling among the elderly based on data from this survey is being prepared by the Responsible Gaming Council of Ontario Problem Gambling Institute (Wiebe, forthcoming).

Another dimension examined was the role of the family. Individuals with moderate to severe gambling problems are more likely than others to have someone in their family with a gambling problem and to be negatively impacted by others' gambling. This has implications for prevention and treatment, indicating a need to target not only the gambler, but also his or her family situation. It also indicates a need for future research to examine the role of family history in the development of gambling problems.

A major finding of this study is that gambling problems are clearly related to poor health. Those with gambling-related problems are more likely than others to receive medical care for stress, have a worse health status and feel seriously depressed. Individuals with severe gambling problems are also the most likely gambling group to have considered suicide as a result of their gambling. Without longitudinal data, one cannot be certain of the causal priority between gambling problems and ill health. Gambling problems may cause health problems, or they may be the result of health status. For instance, a gambling problem may cause stress or it may be the result of using gambling to relieve stress caused from other circumstances. Most likely, it is a combination of the two: in some cases the relationship occurs because gambling causes a health problem and in other situations the gambling problem results from a health problem. The relationship between gambling and health problems highlights the need for prospective studies that are able to untangle causal patterns. This information would be invaluable to the development of strategies designed to prevent and treat gambling problems.

A particular emphasis of this study was the examination of substance use and gambling. Overall, gamblers are more likely than non-gamblers to use psychoactive substances. Generally, the greater the involvement in gambling problems, the higher the use of alcohol, tobacco and illicit drugs. Moderate to severe problem gamblers are consistently more likely than non-problem gamblers to report drinking, smoking or using illicit drugs. It is particularly noteworthy that one in eight (12%) of those with severe gambling problems used ecstasy in the past year.

However, there are some notable differences between moderate and severe problem gamblers in the use of psychoactive substances. Although severe problem gamblers are more likely to use ecstasy and heroin/LSD/other psychedelics, those reporting moderate gambling problems report similar levels of smoking and higher levels of drinking and certain types of illicit drug use. The average number of alcoholic drinks consumed on one occasion peaks among those with moderate gambling problems and then declines among those with severe gambling problems. Current cocaine and marijuana/hashish use also peaks with moderate problems, and then declines among those experiencing severe gambling problems. These findings may indicate that some of the respondents with severe gambling problems may be forced to curtail or reduce their use of psychoactive substances for health, economic or other reasons.

The linkage between gambling abuse and substance abuse may also be in part due to the manner in which certain individuals respond to stress and painful events. Gambling and gambling problems are related to having an urge to gamble as a means of coping with painful events. Problem gamblers are also the most likely to drink or use illicit drugs as a means of coping with painful events. However, it is the gamblers with moderate problems rather than those with the most severe problems who are most prone to drink or use illicit drugs as a coping mechanism. On the other hand, the more severe problem gamblers are more likely than moderately severe problem gamblers to have an urge to gamble in reaction to a painful event. This may explain in part why those with the most severe gambling problems have similar or lower rates of use for alcohol, tobacco and some illicit drugs when compared with those with less severe gambling problems.

Nonetheless, the overall pattern is that problem gamblers are more likely to be involved in the use of alcohol, tobacco and illicit drugs. There is also a strong relationship between gambling problems and reporting an alcohol or drug problem. Whereas 9% of non-problem gamblers felt that they had an alcohol or drug problem, the corresponding rate for those with the most severe problems was 24%. Therefore, one in four individuals with severe gambling problems also feel that they have an alcohol or drug problem. Gambling and substance abuse are clearly distinct phenomena – threequarters of those with severe gambling problems do not report concurrent alcohol or drug problems. However, the finding that a substantial and disproportionate percentage of severe problem gamblers feel that they have an alcohol or drug problem highlights the need to screen clients seeking treatment for alcohol or drug problems for gambling problems and to screen clients in gambling treatment programs for alcohol and drug problems.

Taken together, these findings have potentially important implications for interventions aimed at preventing or dealing with gambling problems in Ontario. First and foremost, it is found that there are a significant number of Ontarians who experience moderate or severe problems resulting from their gambling. If these findings are correct, counselling and other services are currently required for approximately 340,000 persons. If future surveys confirm that there is an upward trend in the number of problem gamblers, there will be a need for continued expansion of service provision.

This survey also has implications for the targeting of interventions. One of the surprising findings has been the relatively high rates of gambling problems among young adults. Those between the ages of 18 and 24 have high participation rates for most forms of gambling. Contrary to popular belief, they are even the most likely to gamble at bingo. Young adults are almost twice as likely as others to develop a moderate or severe gambling problem.

Elderly persons (age 60 or older) are less likely to engage in most forms of gambling and they have significantly lower rates of moderate or severe gambling problems. However, these findings should not be cause for complacency regarding the problems of gambling among the elderly. The findings indicate that there are still thousands of elderly Ontarians who experience significant gambling problems. While less common than among younger adults, gambling problems among the elderly are often exacerbated by social isolation and concurrent health problems. Furthermore, the values and gambling behaviour of succeeding generations of elderly persons may not be as restrained as the current generation.

The study also has implications for the study of underlying determinants of gambling problems. For example, a striking finding is that many Ontarians have mistaken

beliefs concerning randomness and probabilities while gambling, falsely thinking that the result of one event (e.g., a roll of the dice or spin of a roulette wheel) is influenced by prior events, or that they can increase their chances of winning by using a betting system. This points to the need for prevention programming that addresses such false beliefs and provides gamblers with valid information on their true chances of winning. A long-term strategy in this regard would be to enhance mathematical curricula in schools to include more practical examples of gambling situations as a means for teaching probability and statistics.

Finally, the finding that gambling problems and substance abuse are closely connected has implications for the detection of problems and the design of interventions. Clients in gambling counselling and treatment programs should be screened for alcohol and drug problems, and persons presenting with alcohol and drug problems should be screened for gambling problems. The potential for combined treatment of both gambling and substance abuse should be explored. In any case, it is likely that better results will occur if treatment specialists are aware of concurrent problems.

While the results of this study do have immediate implications for the targeting and design of interventions aimed at preventing or reducing gambling problems in Ontario, the real value of this study is that it provides baseline data for the evaluation of future trends. It is expected that these findings will be used in combination with those from future studies to establish trends in gambling behaviour and gambling problems, and to better understand the underlying determinants of gambling problems. The longterm goal is to develop a sufficient body of knowledge to facilitate ongoing assessment of the effectiveness of policies and programs aimed at preventing and dealing with gambling problems.

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APPENDIX A QUESTIONNAIRE

VIEWPOINTS RESEARCH (N = 5000)

INTERVIEW	LD (/ER:	C ODE: 4350 PHONE: (_)	
GENDER:	Male1	Female	2	

(1) Hi, my name is (first & last) and I'm calling from Viewpoints Research. We are a professional public opinion research company and today we're calling a random sample of 5,000 Ontario residents on behalf of the Canadian Centre on Substance Abuse and the Canadian Foundation on Compulsive Gambling. These two organizations are conducting a study on the gambling activities and attitudes of adult Ontarians and we would like to include your views. For the purposes of this study we would like to speak to the person living in your household who is 18 or over, and whose birthday will come next. Would that be you?

IF NO, ASK TO SPEAK TO THE PERSON WHO DOES MEET THE REQUIREMENTS. IF THE PERSON WHO MEETS THE REQUIREMENTS IS NOT AT HOME, ASK FOR ANY PERSON WHO IS 18 OR OVER. IF NO ONE PRESENTLY AT HOME QUALIFIES, ARRANGE A TIME TO CALL BACK.

(2) Some of the survey questions may be sensitive. The survey will ask you questions about:

- The types of gambling activities you participate in, and the amount of time and money spent on gambling
- Any problems you have experienced from your own or someone else's gambling
- Use of alcohol and other drugs
- Your background such as level of education, marital status
- Your general well-being

(3) The study will provide important information on the nature of gambling among Ontarians and related service needs. In order to provide more in-depth information on issues related to gambling, a small number of respondents (3%) will be contacted in a couple of months for another telephone interview. If you are one of the respondents who is contacted for another interview, you may choose not to participate at that time.

(4) If you want further information on this study, you may call a toll free number (1-888-391-1111).

(5) The survey will take approximately 20 minutes. You can quit the survey at any time, or refuse to answer any question. All of your answers will remain confidential; you will not be identified in any report that may arise from this study. Only the researchers on this project will have access to all of the information collected. If the data is shared with other researchers in the future, all identifiers would be removed.

(6) Would you be willing to participate?

DO NOT ASK Q1. START AT Q2.

Q1 In the past year, have you gambled, for example by buying a lottery or raffle ticket, betting on horse races or bingo, playing a slot machine or video lottery terminal in a casino or elsewhere, playing other games in a casino, betting on a sports event, playing cards or other games for money or bet on the Internet?

Yes	1	
No	2	GOTO Q964
Don't know	3	-
Refused	4	

Q2 In the past 12 months, how often did you spend money on Lottery tickets like the 649, Super 7, Pick 3 or POGO? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

Daily1	
At least once a week	
At least once a month	
Less than once a month	
Never	GOTO O6
(DO NOT READ)	C C
I do not gamble	GOTO Q6
Don't know7	· ·
Refused	GOTO Q6
	•

Q3 On a typical occasion when you spend money on a lottery ticket, how much money do you spend, not including winnings? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

\$	····
Don't know	2
Refused	3
Refused	3

Q4 On a typical occasion when you spend money on a lottery ticket, how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Wins \$	
Don't know	2
Refused	3

Q5 On a typical occasion when you spend money on a lottery ticket, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	••••
Don't know	2
Refused	3

Q6 In the past 12 months, how often did you spend money on instant win or scratch tickets like break open, pull tab or Nevada strips? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

Daily1	
At least once a week2	
At least once a month	
Less than once a month	
Never	GOTO Q10
(DO NOT READ)	-
I do not gamble	GOTO Q10
Don't know7	
Refused	GOTO Q10

Q7 On a typical occasion when you spend money on such instant win or scratch tickets, how much money do you spend, not including winnings? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

\$	
Don't know	2
Refused	

Q8 On a typical occasion when you spend money on such instant win or scratch tickets, how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Wins \$	
Don't know	2
Refused	3

Q9 On a typical occasion when you spend money on such instant win or scratch tickets, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	
Don't know	2
Refused	3

Q10 In the past 12 months, how often did you bet or spend money on raffles or fundraising tickets? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

Daily	
At least once a week2	
At least once a month	
Less than once a month	
Never	GOTO 014
(DO NOT READ)	C
I do not gamble	GOTO Q14
Don't know7	-
Refused	GOTO Q14

Q11 On a typical occasion when you spend money on raffles or fundraising tickets, how much money do you spend, not including winnings? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

\$	
Don't know	2
Refused	3

Q12 On a typical occasion when you spend money on raffles or fundraising tickets, how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Wins \$	
Don't know	2
Refused	3

Q13 On a typical occasion when you spend money on raffles or fundraising tickets, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	
Don't know	2
Refused	3

Q14 In the past 12 months, how often did you bet or spend money on horse races (i.e. live at the track or off track)? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

Daily1	
At least once a week	
At least once a month	
Less than once a month	
Never	GOTO Q18
(DO NOT READ)	
I do not gamble	GOTO Q18
Don't know7	
Refused	GOTO Q18

Q15 On a typical occasion when you spend money on horse races, how much money do you risk (not including winnings)? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

۵ <u></u>	•••
Don't know	.2
Refused	.3

Q16 On a typical occasion when you spend money on horse races, how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Wins \$	•••••
Don't know	2
Refused	3

Q17 On a typical occasion when you spend money on horse races, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	
Don't know	2
Refused	3

Q18 In the past 12 months, how often did you bet or spend money on bingo? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

Daily1	
At least once a week2	
At least once a month	
Less than once a month4	
Never5	GOTO PREAMBLE BEFORE
Q22	
(DO NOT READ)	
I do not gamble6	GOTO PREAMBLE BEFORE
Q22	
Don't know7	
Refused8	GOTO PREAMBLE BEFORE
022	

Q19 On a typical occasion when you spend money on bingo, how much money do you spend, not including winnings? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Φ	•••
Don't know	.2
Refused	.3

Q20 On a typical occasion when you spend money on bingo, how much money do you win? **ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.**

Wins \$	
Don't know	2
Refused	3

Q21 On a typical occasion when you spend money on bingo, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

2
3

I would like to ask you whether you have bet on coin slot machines or other electronic gambling machines such as video lottery terminals in casinos. Video Lottery Terminals or "VLTs" refer to gambling machines where coins are not dispersed.

Q22 In the past 12 months, how often did you bet or spend money on coin slot machines or video lottery terminals in a casino? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

Daily1	
At least once a week2	
At least once a month	
Less than once a month4	
Never	GOTO Q26
(DO NOT READ)	-
I do not gamble6	GOTO Q26
Don't know7	
Refused	GOTO Q26

Q23 On a typical occasion when you spend money on coin slot machines or video lottery terminals in a casino, how much money do you spend, not including winnings? **ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.**

\$	
Don't know	2
Refused	

Q24 On a typical occasion when you spend money on coin slot machines or video lottery terminals in a casino, how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Wins \$	
Don't know	2
Refused	3

Q25 On a typical occasion when you spend money on coin slot machines or video lottery terminals in a casino, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	
Don't know	2
Refused	3

Q26 In the past 12 months, how often did you bet or spend money on games other than slot machines in a casino such as poker, blackjack, roulette or keno? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

Daily1	
At least once a week2	
At least once a month	
Less than once a month	
Never	GOTO Q30
(DO NOT READ)	c
I do not gamble6	GOTO Q30
Don't know7	
Refused	GOTO Q30

Q27 On a typical occasion when you spend money on games other than slot machines in a casino such as poker, blackjack, roulette or keno, how much money do you spend, not

including winnings? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

▶	
Don't know	2
Refused	3

Q28 On a typical occasion when you spend money on games other than slot machines in a casino such as poker, blackjack, roulette or keno, how much money do you win? ENTER NUMBER OF DOLLARS POUND UP TO NEAPEST DOLLAR

NUMBER OF	DOLL	AKS. KO	UUND I	UP TO I	NEAREST	DOLLAR.
		+				

Wins \$	
Don't know	2
Refused	3

Q29 On a typical occasion when you spend money on games other than slot machines in a casino such as poker, blackjack, roulette or keno, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	
Don't know	2
Refused	3

Q30 In the past 12 months, how often did you bet or spend money on coin slot machines or video lottery terminals <u>other than at casinos</u>? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

Daily1	
At least once a week	
At least once a month	
Less than once a month	
Never	GOTO Q34
(DO NOT READ)	-
I do not gamble6	GOTO Q34
Don't know7	
Refused	GOTO Q34

ENTE	R NUMBER	OF DOLLAR	S. ROUND UP	TO NEAR	EST DOLLA	R.
termina	als <u>other than</u>	at casinos, how	much money d	o you spend,	not including	g winnings?
Q31	On a typical	occasion when	you spend mone	ey on coin sl	ot machines o	r video lottery

\$	
Don't know	2
Refused	3
ICTUSCU	···· J

Q32 On a typical occasion when you spend money on coin slot machines or video lottery terminals other than at casinos, how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Wins \$	
Don't know	2
Refused	3

Q33 On a typical occasion when you spend money on coin slot machines or video lottery terminals other than at casinos, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	
Don't know	2
Refused	3

Q34 In the past 12 months, how often did you bet or spend money on Sport Select (e.g Pro Line, Over/Under, Point Spread)? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

Daily1	
At least once a week2	
At least once a month	
Less than once a month	
Never	GOTO 038
(DO NOT READ)	
I do not gamble	GOTO Q38
Don't know7	_
Refused	GOTO Q38

Q35 On a typical occasion when you spend money on Sport Select (e.g Pro Line, Over/Under, Point Spread), how much money do you spend, not including winnings? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Φ	• • •
Don't know	.2
Refused	.3

Q36 On a typical occasion when you spend money on Sport Select (e.g Pro Line, Over/Under, Point Spread), how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Wins \$	
Don't know	2
Refused	3

Q37 On a typical occasion when you spend money on Sport Select (e.g Pro Line, Over/Under, Point Spread), how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	
Don't know	2
Refused	3

Q38 In the past 12 months, how often did you bet or spend money on sports pools or the outcome of sporting events? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

Daily1	
At least once a week	
At least once a month	
Less than once a month4	
Never	GOTO Q42
(DO NOT READ)	-
I do not gamble	GOTO Q42
Don't know7	
Refused	GOTO Q42

Q39 On a typical occasion when you spend money on sports pools or the outcome of sporting events, how much money do you spend, not including winnings? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

\$	
Don't know	2
Refused	3

Q40 On a typical occasion when you spend money on sports pools or the outcome of sporting events, how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Wins \$	
Don't know	2
Refused	

Q41 On a typical occasion when you spend money on sports pools or the outcome of sporting events, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	
Don't know	2
Refused	3

Q42 In the past 12 months, how often did you bet or spend money on cards or board games anywhere other than at casinos (at home, friends' homes, work, card rooms, etc.)? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

Daily1	
At least once a week	
At least once a month	
Less than once a month4	
Never	GOTO Q46
(DO NOT READ)	
I do not gamble	GOTO Q46
Don't know7	
Refused	GOTO Q46

Q43 On a typical occasion when you spend money on cards or board games anywhere other than at casinos (at home, friends' homes, work, card rooms, etc.), how much money do

you spend, not including winnings? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

\$	
Don't know	2
Refused	3

Q44 On a typical occasion when you spend money on cards or board games anywhere other than at casinos (at home, friends' homes, work, card rooms, etc.), how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Wins \$	
Don't know	2
Refused	3

Q45 On a typical occasion when you spend money on cards or board games anywhere other than at casinos (at home, friends' homes, work, card rooms, etc.), how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	•••••
Don't know	2
Refused	3

Q46 In the past 12 months, how often did you bet or spend money on games of skill such as pool, bowling or darts? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

GOTO Q50
_
GOTO Q50
GOTO Q50

Q47	On a typical occasion when you spend money on games	of	skill s	such as	pool,	bowli	١g
or darts	s, how much money do you spend, not including winning	gs?	ENT	ER N	UMBI	ER OF	
DOLL	ARS. ROUND UP TO NEAREST DOLLAR.	-					
	ф.						

⊅	•••
Don't know	.2
Refused	.3

Q48 On a typical occasion when you spend money on games of skill such as pool, bowling or darts, how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Wins \$	
Don't know	2
Refused	3

Q49 On a typical occasion when you spend money on games of skill such as pool, bowling or darts, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	
Don't know	2
Refused	3

Q50 In the past 12 months, how often did you bet or spend money on arcade or video games? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

GOTO 054
C
GOTO Q54
-
GOTO Q54

Q51 On a typical occasion when you spend money on arcade or video games, how much money do you spend, not including winnings? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

۶	••
Don't know	2
Refused	3

ሱ

Q52 On a typical occasion when you spend money on arcade or video games, how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Wins \$	
Don't know	2
Refused	3

Q53 On a typical occasion when you spend money on arcade or video games, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	
Don't know	2
Refused	3

Q54 In the past 12 months, how often did you bet or spend money gambling on the Internet? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

Daily1	
At least once a week	
At least once a month	
Less than once a month4	
Never	GOTO Q58
(DO NOT READ)	-
I do not gamble6	GOTO Q58
Don't know7	
Refused	GOTO Q58

Q55 On a typical occasion when you spend money gambling on the Internet, how much money do you spend, not including winnings? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

\$	
Don't know	2
Refused	3

Q56 On a typical occasion when you spend money gambling on the Internet, how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Wins \$	
Don't know	2
Refused	3

Q57 On a typical occasion when you spend money gambling on the Internet, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	
Don't know	2
Refused	3

Q58 In the past 12 months, how often did you bet or spend money gambling on sports with a bookie? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

Daily1	
At least once a week	
At least once a month	
Less than once a month	
Never	GOTO 062
(DO NOT READ)	C C
I do not gamble	GOTO Q62
Don't know7	-
Refused	GOTO Q62

Q59 On a typical occasion when you spend money gambling on sports with a bookie, how much money do you spend, not including winnings? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

\$	
Don't know	2
Refused	

Q60 On a typical occasion when you spend money gambling on sports with a bookie, how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO

NEAREST DOLLAR.

Wins \$	
Don't know	2
Refused	3

Q61 On a typical occasion when you spend money gambling on sports with a bookie, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	
Don't know	2
Refused	3

Q62 In the past 12 months, how often have you made short-term speculative stock or commodity purchases such as day trading, not including long-term investments such as mutual funds or RRSPs? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

Daily1	
At least once a week	
At least once a month	
Less than once a month	
Never	GOTO Q66
(DO NOT READ)	-
I do not gamble	GOTO Q66
Don't know7	
Refused	GOTO Q66

Q63 On a typical occasion when you spend money on short-term speculative stock or commodity purchases, how much money do you spend, not including winnings? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

<u>۵</u>	•••
Don't know	2
Refused	3

Q64 On a typical occasion when you spend money on short-term speculative stock or commodity purchases, how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Wins \$	
Don't know	2
Refused	3
Q65 On a typical occasion when you spend money on short-term speculative stock or commodity purchases, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	
Don't know	2
Refused	3

Q66 In the past 12 months, how often did you bet or spend money gambling in casinos out of province (e.g. at Las Vegas or Atlantic City or casinos in other Canadian provinces)? Would you say daily, at least once a week (but not daily), at least once a month (but not weekly), less than once a month or never?

GOTO 070
GOTO Q70
-
GOTO Q70

Q67 On a typical occasion when you spend money gambling in casinos out of province, how much money do you spend, not including winnings? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Q68 On a typical occasion when you spend money gambling in casinos out of province, how much money do you win? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Wins \$	
Don't know	2
Refused	3

Q69 On a typical occasion when you spend money gambling in casinos out of province, how much money do you lose? ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.

Loses \$	
Don't know	2
Refused	3

IF NEVER TO ALL GAMBLING OR SAID DO NOT GAMBLE TWICE GOTO Q94

Q70 On average, how many hours or minutes do you normally spend each month on all of these gambling activities? Please give the total amount of time spent on gambling in an average month. **IF ONLY MINUTES, ENTER 0 FOR HOURS.**

Hours	
Minutes	
More than 8 hours	3
Don't know	4
Refused	5

Q71 What, if any, are some of the benefits you receive from gambling? (**READ CATEGORIES, CHECK ALL THAT APPLY**)

It's an opportunity to socialize	01
I get to be around others, decreased isolation	02
I can forget about my problems	03
It's exciting, it's fun	04
It decreases my boredom	05
I can win money	06
Other (specify below)	07
(DO NOT READ)	
None	08
Don't know	09
Refused	10

Q72 In the past 12 months, how much money have you spent on any type of gambling, not including winnings? (ENTER NUMBER OF DOLLARS). ROUND UP TO NEAREST DOLLAR.

Q73 In the past 12 months, how much money have you won on all types of gambling? **ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.**

Wins \$	
Don't know	2
Refused	3

Q74 In the past 12 months, how much money have you lost on all types of gambling? **ENTER NUMBER OF DOLLARS. ROUND UP TO NEAREST DOLLAR.**

Loses \$	
Don't know	2
Refused	3

Some of the next questions may not apply to you, but please try to be as accurate as possible. Thinking about the last 12 months, would you say you never, sometimes, most of the time or almost always ... **ROTATE.**

		Never	Some- times	Most of the time	Almost always	DK	REF
Q75	Bet more than you could really afford to lose?	1	2	3	4	5	6
Q76	Need to gamble with larger amounts of money to get the same feeling of excitement?	1	2	3	4	5	6
Q77	Go back another day to try to win back the money you lost?	1	2	3	4	5	6
Q78	Borrow money or sold anything to get money to gamble?	1	2	3	4	5	6
Q79	Feel that you might have a problem with gambling?	1	2	3	4	5	6
Q80	Feel gambling has caused you any health problems, including stress or anxiety?	1	2	3	4	5	6
Q81	Have people criticizing your betting or telling you that you have a gambling problem, regardless of whether or not you think it is true?	1	2	3	4	5	6
Q82	Feel your gambling has caused financial problems for you or your household?	1	2	3	4	5	6
Q83	Feel guilty about the way you gamble or what happens when you gamble?	1	2	3	4	5	6

Next, we explore some of your beliefs about gambling, as well as any early experiences you have had with gambling or betting money. For each of the following, please tell me if you strongly agree, agree, disagree or strongly disagree? **ROTATE.**

		Str Agree	Agree	Dis- agree	Str Dis- agree	DK	REF
Q84	After losing many times in a row, you are more likely to win. Do you strongly agree, agree, disagree or strongly disagree?	1	2	3	4	5	6
Q85	You could win more if you used a certain system or strategy.	1	2	3	4	5	6
Q86	Do you remember a big win when you first starte	d gamb	ling?	1			
	Y es	•••••	•••••	1			
	No	•••••	•••••	2			
	Don't know			3			
	Refused			4			

What, if any, are some of the problems you have experienced from gambling? **READ** 087 CATEGORIES AND CHECK ALL THAT APPLY (DO NOT READ) **Q88** Do you remember a big loss when you first started gambling? Yes.....1 Q89 In the last 12 months, have you used alcohol or drugs while gambling? Yes......1 Refused4 **Q90** In the last 12 months, have you gambled while drunk or high? Yes.....1 Refused4 091 Have you ever engaged in petty crime or other criminal activities to support your gambling? No......2 In the last 12 months, if something painful happened in your life, did you have the **O**92 urge to gamble? Vac (did cample had the urge to comple) 1

res (did gamble, had the urge to gamble)	1
No	2
Nothing painful has happened	3
Don't know	4
Refused	5

No	2
Don't know	3
Refused	4

RESUME FOR NON GAMBLERS. GAMBLERS CONTINUE

Q94	Have you been to a casino in the last year?	
	Yes1	
	No2	GOTO Q96
	Don't know	GOTO Q96
	Refused4	GOTO Q96
		-

Q95 And what are the main reasons you go to a casino? **READ LIST. CIRCLE ALL MENTIONS.**

Enjoyment of gambling	1
To win money	2
To watch others gamble	3
Musical entertainment and shows	4
To drink alcohol	5
Other (specify below)	6
(DO NOT READ)	
Don't know	7
Refused	8

Q97 I'd like to ask you some questions about cigarette smoking. Have you ever smoked cigarettes?

Refused4

Yes1	
No2	GOTO Q101
Don't know	GOTO Q101
Refused4	GOTO Q101

Q98 At the present time, do you smoke cigarettes daily, occasionally or not at all?

Daily	
Occasionally	
Not at all	GOTO Q101
Don't know4	GOTO Q101
Refused	GOTO Q101
	-

Q99	Have you smoked at least 100 cigarettes in your life?	
	Yes	1
	No	2
	Don't know	3
	Refused	4

Q100 How many cigarettes do you usually smoke each day? (One pack = 25 cigarettes, 1 small pack=20 cigarettes.)

Less than one a day	1
Enter number of cigarettes/ day	2
Don't know	3
Refused	4

Q101 Now I would like to ask you some questions about drinking alcohol. In these questions, when we use the word "drink" it means one 12 ounce bottle of beer or glass of draft, one five once glass of wine or one straight or mixed drink with one and a half ounces of hard liquor. During the past 12 months, have you had a drink of any alcoholic beverage?

Yes1	GOTO Q103
No2	-
Don't know	
Refused	GOTO Q103

Q102	Did you <u>ever</u> have a drink of any alcoholic beverage?	
	Yes1	GOTO Q106
	No2	GOTO Q106
	Don't know	GOTO Q106
	Refused	GOTO Q106

Q103 How often, if ever, did you drink alcoholic beverages during the past twelve months: Would you say it was more than once a day, about every day, four to five times a week, two to three times a week, once a week, two to three times a month, once a month or less than once a month?

More than once a day	01
About everyday	02
4 to 5 times a week	03
2 to 3 times a week	04
Once a week	05
2 to 3 times a month	
Once a month	07
Less than once a month	
Don't know	
Refused	

Q104	On those days when you drank, approximately how many drinks did	you have?
	Number of drinks/ day1	
	Don't know2	
	Refused	

Q105 About how often during the past twelve months would you say you had five or more drinks at the same sitting or occasion: Would you say it was everyday, about everyday, 3 or 4 times a week, once or twice a week, 2 or 3 times a month, about once a month, 6 to 11 times a year, 1 to 5 times a year or never in the past year?

Everyday	01
About everyday	02
3 or 4 times a week	03
Once or twice a week	04
2 or 3 times a month	05
About once a month	06
6 to 11 times a year	07
1 to 5 times a year	08
Never in the past year	09
Don't know	10
Refused	11

Q106 Some people use marijuana or hash in private, with friends or in other situations. Have you ever in your lifetime used marijuana or hash?

Yes1	
No2	GOTO Q109
Don't know	GOTO Q109
Refused4	GOTO Q109

Q107 Have you used marijuana or hash in the past twelve months?

Yes1	
No2	GOTO Q109
Don't know	GOTO Q109
Refused4	GOTO Q109

Q108 How many times, if any, have you used marijuana or hash during the past twelve months: would you say more than once a day, about everyday, four to five times a week, two to three times a week, once a week, two to three times a month, once a month, less than once a month or never?

More than once a day	01
About everyday	
4 to 5 times a week	
2 to 3 times a week	04
Once a week	
2 to 3 times a month	
Once a month	07
Less than once a month	
Never	
Don't know	
Refused	

Q109 Some people use cocaine in private, with friends or in other situations. Have you ever in your lifetime used cocaine?

Yes1	
No2	GOTO Q112
Don't know	GOTO Q112
Refused4	GOTO Q112

Q110	Have you used cocaine in the past twelve months?	
	Yes1	
	No2	GOTO Q112
	Don't know	GOTO Q112
	Refused4	GOTO 0112

Q111 How many times, if any, have you used cocaine during the past twelve months: would you say more than once a day, about everyday, four to five times a week, two to three times a week, once a week, two to three times a month, once a month, less than once a month or never?

More than once a day	01
About everyday	
4 to 5 times a week	03
2 to 3 times a week	04
Once a week	
2 to 3 times a month	
Once a month	07
Less than once a month	
Never	
Don't know	
Refused	

Q112 Some people use the drug MDMA, more commonly known as "Ecstasy". Have you ever in your lifetime used the drug MDMA, more commonly known as "Ecstasy"?

Y es	
No2	GOTO Q115
Don't know	GOTO Q115
Refused	GOTO Q115
	•

Q113 Have you used the drug MDMA, more commonly known as "Ecstasy" in the past twelve months?

Yes1	
No2	GOTO Q115
Don't know	GOTO Q115
Refused4	GOTO Q115
	-

Q114 How many times, if any, have you used the drug MDMA, more commonly known as "Ecstasy" during the past twelve months: would you say more than once a day, about everyday, four to five times a week, two to three times a week, once a week, two to three times a month, once a month, less than once a month or never?

More than once a day	01
About everyday	02
4 to 5 times a week	03
2 to 3 times a week	04
Once a week	05
2 to 3 times a month	
Once a month	07
Less than once a month	
Never	09
Don't know	10
Refused	11

Q115 Some people use heroin, LSD or other psychodelics. Have you ever in your lifetime used heroin, LSD or other psychodelics?

Yes1	
No2	GOTO Q118
Don't know	GOTO Q118
Refused4	GOTO Q118

Q116 Have you used heroin, LSD or other psychodelics in the past twelve months?

1	
2	GOTO Q118
3	GOTO Q118
4	GOTO Q118
	1 2 3 4

Q117 How many times, if any, have you used heroin, LSD or other psychodelics during the past twelve months: would you say more than once a day, about everyday, four to five times a week, two to three times a week, once a week, two to three times a month, once a month, less than once a month or never?

More than once a day	01
About everyday	02
4 to 5 times a week	03
2 to 3 times a week	04
Once a week	05
2 to 3 times a month	
Once a month	07
Less than once a month	08
Never	09
Don't know	10
Refused	11

Q118 Has anyone in your family ever had an alcohol or drug problem?

Yes	. I
No	.2
Don't know	.3
Refused	.4

Q119	Have you ever felt you might have an alcohol or drug problem?	
	Yes	.1
	No	.2
	Don't know	.3
	Refused	.4

Q120 If you or someone close to you had a gambling problem, who might you go to for help? **READ CATEGORIES AND CIRCLE ALL THAT APPLY**

Family	01
Friend	
Family doctor	03
Minister / priest / rabbi	04
Social worker / psychologist / psychiatrist	05
Gambling counselor	
Other	07
(DO NOT READ)	
No one	
Don't know	
Refused	

Q121 Are you aware that there is a toll free gambling help line in Ontario?

Yes	1
No	2
Don't know	3
Refused	4

Q122 To your knowledge, are there gambling counseling services available in your community?

Yes	1
No	2
Don't know	
Refused	

Q124 In the past 12 months, if something painful happened in your life, did you have the urge to have a drink of alcohol?

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Q125 In the past 12 months, if something painful happened in your life, did you have the urge to use drugs or medication?

Yes (did use/ had an urge to use drugs/ medication)	1
No	2
Nothing painful has happened	3
Don't know	4
Refused	5

Q126 In the past 12 months, have you been under a doctor's care because of physical or emotional problems brought on by stress?

Yes	1
No	2
Don't know	3
Refused	4

Q127 In the past 12 months, have you felt seriously depressed?

Yes	1
No	2
Don't know	
Refused	4

Q128	Have you ever experienced problems as a result of someone els	se's gambling?
	Yes	1
	No	2
	Don't know	3

personal problem? ENTER NUMBER OF PEOPLE

Number of people	1
Don't know	2
Refused	3

Finally, we would like to ask you some basic demographic questions. Like all your other answers, this information will be kept strictly confidential.

Z1 **RECORD GENDER (DO NOT READ)**

Male	1
Female	2

Z2	In what year were you born? ENTER THE YEAR	
	(before 1981)1	GOTO Z4
	1981 and after2	GOTO Z4
	Don't know	
	Refused	

Z3 Instead of giving us your exact year of birth, could you please tell us to which of the following age categories you belong? **READ LIST.**

IF RESPONDENT STILL DK/ REFUSES: I understand that your age is a private matter, but could you tell me if you are 60 years or older, or if you are younger than 60. IF SAYS 60 OR OLDER CODE AS A '5'. IF SAYS UNDER 60, CODE AS '8'.

18 to 24	1
25 to 34	2
35 to 49	
50 to 59	4
60 or over	5
Don't know	6
Refused	7
Under 60	8

Z4 Currently are you married, living with a partner, widowed, divorced, separated or have you never been married?

Married (incl widowed and divorced who remarried)	1
Living with a partner	2
Widowed (not remarried)	3
Divorced or separated (not remarried)	4
Single, never married.	5
Don't know	6
Refused	7

Z5To what ethnic or cultural group did you or your ancestors belong on first coming to this country? **IF RESPONDENT IS NOT CLEAR SAY** "Are you Scottish, Chinese, Greek or something else?" **IF RESPONDENT SAYS CANADIAN ASK** "In addition to being Canadian, to what ethnic or cultural group did you or your ancestors belong on first coming to this country?" **CIRCLE ALL THAT APPLY.**

Native Indian, Inuit	01
Australian	02
Austrian	03
Bahamian	04
Bangladeshi	05
Black / African	
Dutch / Netherlands / Holland	07
English / British	
Canadian	
Chilean	10
Chinese	11

Croatian	12
Czech	13
Danish	14
East Indian	15
El Salvadorian	16
Ethiopian	17
Finnish	18
French	19
German	20
Greek	21
Guyanese	22
Haitian	23
Hungarian	24
Inuit	25
Irish	26
Israeli	27
Italian	28
Jamaican	29
Japanese	30
Jewish	31
Korean	32
Lebanese	33
Macedonian	34
Metis	35
New Zealander	36
Nigerian	37
Norwegian	38
Pakistani	39
Philipino	40
Polish	41
Portugese	42
Russian	43
Scottish	44
Serbian	45
Sikh	46
Slovakian	47
Somalian	48
Spanish	49
Sri Lankan	50
Swedish	51
Tamil	52
Trinidadian	53
Ukrainian	54
Vietnamese	55
Welsh	56
Yugoslavian	57

Other (specify below)	58
Don't know	59
Refused	60

Z6	What is the highest level of education you have completed?	
	Some high school / junior high or less	1
	Completed high school	2
	Some post secondary school	3
	Completed post secondary school	4
	Completed post graduate education	5
	Don't know	6
	Refused	7

Z7 What is your present job status? Are you employed full time, employed part time, unemployed, a student, retired or a homemaker? **IF RESPONDENT GIVES MORE THAN ONE ANSWER, RECORD THE ONE THAT APPEARS FIRST ON THE LIST.**

Employed full time (30 or more hrs/wk)01	
Employed part time (less than 30 hrs/wk)02	
Unemployed03	
Student – employed part or full time04	
Student – not employed05	
Retired	GO TO Z9
Homemaker07	GO TO Z9
Other (specify)	GO TO Z9
Don't know09	GO TO Z9
Refused10	GO TO Z9

Z8 What type of work do you currently do (or do you do when you are employed)? Job title.

Z9 Could you please tell me how much income you and other members of your household received in the year ending December 31st 1999. Please include income form all sources such as savings, pensions, rent and employment insurance as well as wages? We don't need the exact amount: could you tell me which of these broad categories it falls into.. **READ LIST.**

	Less than \$20,000 01	
	Less than $$20,000$ 02	
	Less than $$30,000$ 03	
	Less than $$70,000$	
	Less than $$50,000$	
	Less than $$00,000$	
	Less than $$70,000$	
	Less than $$80,000$	
	Less than \$90,000	
	Less than \$100,000	
	Less than \$120,000	
	Less than \$150,000	
	5150,000 or more. 12	
	Don't know / Refused13	
Z10	How many people under the age of 18 live with you?	
	None01	
	One02	
	Two03	
	Three04	
	Four05	
	Five	
	Six07	
	Seven or more	
	Don't know	
	Refused10	
Z11	Can I just confirm that the first three digits of your postal code are	
Z12	How important is religion in your life? Would you say it is very important	ortant, somewhat
impor	tant, not very important or not important at all?	
	Very important1	
	Somewhat important2	
	Not very important	
	Not at all important4	
	Don't know	
	Refused6	
710		
Z13	we nope to speak to some people again. May we call you for a short f	ollow up?
	Yes1	
	No2	GOTO Z15
	Don't know / Refused	GOTO Z15

(IF YES) Can I have your first name or initials so that I make sure that it is you I Z14 speak to when I call back?

Z15 May I just confirm that your phone number is (**READ NUMBER DIALED**)

Endnotes:

¹ Net profit is defined as gross profit (total drop, wager or sales minus prizes) minus operating costs and commissions.

 2 Of the total sample, 369 individuals stated twice that they did not gamble and therefore were not asked the nine scored CPGI items. However, further analysis showed that they had indeed gambled on at least one activity in the year prior to the study. As such, they could not be classified as non-gamblers, but they also could not be classified according to a gambling level, as they were not presented with the scored questions. Therefore, analyses that examine general gambling activities among Ontarians are based on a sample size of 5,000. Analyses that examine characteristics associated with gambling level are based on a sample size of 4,631.

³ The term "bookie" generally refers to a person who takes bets illegally for commercial gain.

⁴ Nine gamblers who claimed to be non-gamblers visited a casino "to win money" in the past year. This discrepancy either indicates a response error, or an error in the way that nongamblers were categorized.