CHAPTER IV

RESEARCH RESULT

- PART 1 To present prevalence of alcohol use disorders in the community of Nakhon Sawan Province, general data and epidemiological data of alcohol use disorders in percentage.
- PART 2 To present the result of analysis of drinking behavior, pattern of drinking, behavioral consequences, co-morbid mental problems, general well-being and personality profile among alcohol use disorders in the value of percentage, average and mean value and compare among groups of non-alcohol drinking, alcohol drinking without disorders and alcohol use disorders.
- PART 3 To present the result of analysis on factors associated with alcohol use disorders by comparing among groups of non-alcohol drinking, alcohol drinking without disorders and alcohol use diorders. The statistical tests that were used were Chi-square test, analysis of variance and F-test and t-test to test differences in mean value of some variables.

Characters and distribution of sample population

Table 4.1 Distribution of Sample Population by Sex.

Sex	Number	Percent
Male	187	45.7
Female	222	54.3
Total	409	100.0

From total 409 sample population were male 45.7 percent and femal 54.3 percent.

ศูนย์วิทยทรัพยากร จหาลงกรณ์มหาวิทยาลัย

Table 4.2 Distribution of Sample Population by Age.

Number	Percent	Mean
49	12.0	42
87	21.3	
87	21.3	
74	18.1	
64	15.6	
48	11.7	
409	100.0	
	87 87 74 64 48	87 21.3 87 21.3 74 18.1 64 15.6 48 11.7

From table 4.2 showed that the most common age range of sample population was between 25-44 year, mean was 42 year.

ศูนย์วิทยทรัพยากร งหาลงกรณ์มหาวิทยาลัย

Table 4.3 Distribution of Sample Population by Marital Status.

Marital status	Number	Percent
Single	49	12.0
Married	360	88.0
Present status		
- live together	331	80.4
- separate	10	2.4
- divorced	2	0.5
- widowed	17	4.2
Total	409	100.0

From table 4.3 most of sample population are married.

ะกูนยากยกากกาก หาลงกรณ์มหาวิทยาลัย

Table 4.4 Distribution of Sample Population by Occupation.

Occupation	Number	Percent
No occupation	57	13.9
Government office, retired	34	8.3
Business, employee	100	24.5
Agriculturists	218	53.3
Total	409	100.0

From table 4.4 most of sample population are agriculturists.

ั้ ศูนย์วิทยทรัพยากร จุฬาลงกรณ์มหาวิทยาลัย

Table 4.5 Distribution of Sample Population by Education.

Number	Percent
22	5.4
233	57.0
82	20.0
32	7.8
20	4.9
4	1.0
16	3.9
409	100.0
	22 233 82 32 20 4 16

From table 4.5 most of sample population finished primary school (Pratom 4) about 57 percent.

Table 4.6 Distribution of Sample Population by Income.

Income (Baht/month)	Number	Percent
no own income	57	13.9
1-3000	213	52.2
3,001-10,000	55	13.4
10,001-20,000	10	2.4
Pay by relatives	74	18.1
Total	409	100.0
A A DETTO	Total A A A	

From table 4.6 average income per head was lower than 3,000 Baht per month. For distribution of sample papulation by religion: all 409 are Budhists.

ศูนย์วิทยทรัพยากร จุฬาลงกรณ์มหาวิทยาลัย The result of data analysis

PART 1 Data analysis on prevalence of alcohol use disorders.

Data analysis on prevalence of alcohol use disorders and their general data are as follow:

Table 4.7 Prevalence of Alcohol Use Disorders in The Community of Nakhon Sawan Province.

Alcohol Drinking	Number	Percent
no Augusta	115	28.1
drinking	294	71.9
- alcohol dependence	(68)	(16.6)
- alcohol abuse	(58)	(14.2)
- non dependence nor abuse	(168)	(41.1)
Total Gold Concion So	409	100.0

From table 4.7 showed that alcohol drinking is high about 71.9 percent. The diagnoses are alcohol dependence 16.6 percent, alcohol abuse 14.2 percent, combining these two groups are alcohol use disorders 30.8 percent. Alcohol drinking without disorders are 41.4 percent.

For general informations of alcohol use disorders are as follow:

Table 4.8 Percentage of Sex Distribution in Alcohol Use Disorders.

11. (Alcohol	Dependence	Alcohol	Abuse
	Sex	Number	Percent	Number	Percent
	Male	56	82.4	30	51.7
	Female	12	17.6	28	48.3
	Total	68	100.0	58	100.0

From table 4.8 we found the number of male more than female who were diagnosed as alcohol use disorders both in the group of alcohol dependence and alcohol abuse. Alcohol dependence were found in male more than female that was statistical significance P < .001.

Table 4.9 Percentage of Age Distribution in Alcohol Use Disorders.

Age (year)	Alcohol	Dependence	Alcoho	ol Abuse
	Number	Percent	Number	Percent
15-24	6	8.8	7	12.1
25-34	15	22.1	18	31.0
35-44	14	20.6	8	13.8
45-54	17	25.0	10	17.2
55-64	10	14.7	8	13.8
over 65	6	8.8	7	12.1
Total	68	100.0	58	100.0

From table 4.9 we found alcohol abuse was high in the age range between 25-34 year and alcohol dependence was high in the older age range between 45-54 year.

Table 4.10 Percentage of Marital Status Distribution in Alcohol Use Disorders.

	Alcohol	Dependence	Alcoho	l Abuse
Marital Status	Number	Percent	Number	Percent
Single	8	11.8	2	3.4
Married	60	88.2	56	96.6
Total	68	100.0	58	100.0

From table 4.10 we found alcohol use disorders in married persons higher than signle, combine both groups of alcohol use disorders we found in married persons 92.1 percent but there was no difference between alcohol dependence and alcohol abuse.

Table 4.11 Percentage of Occupation Distribution in Alcohol Use Disorders.

Occupation	Alcohol	Dependence	Alcoho	
-	Number	Percent	Number	Percent
No Occupation	3	4.4	5	8.6
Government Officer and Retired	5	7.3	7	12.1
Business, Employee	25	36.8	21	36.2
Agriculturists	35	51.5	25	43.2
Total	68	100.0	58	100.0

From table 4.11 we found alcohol use disorders in agriculturists about 47.6 percent.

Table 4.12 Percentage of Education Distribution in Alcohol
Use Disorders.

Education Level	Alcohol	Dependence	Alcohol Abuse	
Education Level	Number	Percent	Number	Percent
No school Entrance	2	2.9	3	5.2
1-4 year in School	41	60.3	32	55.2
5-9 year in School	1 10	14.7	12	20.7
10-12 year in Scho	001 10	14.7	6	10.2
Bachelor Degree	4	5.9	3	5.2
Higher than Bachel Degree	lor 1	1.5	1	1.7
Now Studying	45/2/4	Marie Contraction of the Contrac	1	1.7
Total	68	100.0	58	100.0

From table 4.12 we found alcohol use disorders 57.9 percent in the population that finished Pratom four or primary school that was most common in sample population.

Table 4.13 Percentage of Income Distribution in Alcohol
Use Disorders.

Income	Alcohol Dependence		Alcoho	Alcohol Abuse		
(Baht per Month)	Number	Percent	Number	Percent		
No income by	3	4	5	8.6		
their owns						
1-3,000	35	51.5	33	57.0		
3,001-10,000	13	19.1	5	8.6		
10,001-20,000	2	2.9	2	3.4		
Paid by Relatives	15	22.1	13	22.4		
Total	68	100.0	58	100.0		

From table 4.13 we found alcohol use disorders most common in the group of income less than 3,000 baht per month.

Table 4.14 Percentage of Familial History of Alcohol
Drinking Distribution in Alcohol Use Disorders.

Familial History		Alcohol Dependence		Alcohol Abuse		
	Number	Percent	Number	Percent		
	7	10.3	6	10.3		
	61	89.7	52	89.7		
Parents	5	7.4	3	5.2		
er or Mot	her					
randfathe	r or					
dmother	13	19.1	11	19.0		
rs	43	63.2	38	65.5		
1	68	100.0	58	100.0		
	Parents er or Mot randfathe dmother rs	Number 7 61 Parents 5 er or Mother randfather or dmother 13 rs 43	Number Percent 7 10.3 61 89.7 Parents 5 7.4 er or Mother randfather or dmother 13 19.1 rs 43 63.2	Number Percent Number 7 10.3 6 61 89.7 52 Parents 5 7.4 3 er or Mother randfather or 13 19.1 11 rs 43 63.2 38		

From table 4.14 we found high percentage of alcohol use disorders who had familial history of alcohol drinking.

PART 2 Data analysis on drinking behavior, pattren of drinking, behavioral consequences, co-morbid mental problems, general well-being, personality profile among alcohol use disorders.

The results are as follow :

Table 4.15 Distribution of Alcohol Use Disorders According to age Onset of Drinking .

Age Onset (year)	Alcohol	Dependence	Alcoho	Alcohol Abuse		
nge onset (year)	Number	Percent	Number	Percent		
Befor 15	4	5.9	2	3.4		
15-24	48	70.6	34	58.6		
25-34	11	16.2	20	34.6		
35-44	4	5.9	2	3.4		
over 45	1111	1.4	_	_		
	Lill.	0000000	2			
Total	68	100.0	58	100.0		

From table 4.15 we found the age onset of drinking in alcohol use disorders started at the age between 15-24 year about 65 percent.

The characters of drinking in alcohol dependence were continuous and regularly but for alcohol abuse were episodic drinking.

Table 4.16 Distribution of Alcohol Use Disorders According to Reasons to Start Drinking.

24 (100 - 1 _{2 - 10} -1 ₀)	Alcohol	Dependence	Alcohol	Abuse
Reasons	Number	Percent	Number	Percent
Mental Stress	7	10.3	1	1.7
Persuation by	19	27.9	12	20.7
Friends				
Want to try	14	20.6	12	20.7
Social Activity	14	20.6	21	36.2
Mix with Herbal	7	10.3	11	19.0
Medicine	วิทยท			
Others	7	10.3	1	1.7
- 24112347	sain	หาวิทย	വര്ല	
Total	68	100.0	58	100.0

From table 4.16 we found that the most common reasons for starting alcohol drinking among alcohol use disorders are social activities, persuation from friends and want to try.

Table 4.17 Frequency of Alcohol Drinking in the Past 30

Days among Alcohol Use Disorders.

Frequency	Alcohol	Dependence	Alcoh	ol Abuse
	Number	Percent	Number	Percent
None	25	36.8	32	55.2
Less than 1	15	22.1	12	20.7
time/week				
1 time or more/week	19	27.9	8	13.8
daily	6	8.8	6	10.3
2-3 times/day	2	2.9	-	-
More than 4 times/day	1	1.5	-	
Total	68	100.0	58	100.0

From table 4.17 we found that in the past 30 days, alcohol use disorders, were still going on drinking 63.2 percent and 44.8 percent in alcohol dependence group and alcohol abuse group. In the past 6 months alcohol dependence were still going on drinking 75 percent, alcohol abuse 56.9 percent and in the past 24 hours; alcohol dependence and alcohol abuse were still going on drinking 33.8 and 17.2 percent.

Table 4.18 Distribution of Type of Alcohol Beverages Used by Alcohol Use Disorders

Types of Alcohol	Alcohol Dependence		Alcohol Abuse		
	Number	Percent	Number	Percent	
Arrack	32	47.1	30	51.7	
Whiskey	4	5.9	2	3.4	
Local-made alcohol	1	1.4	1	1.7	
Beer	5	7.4	4	6.9	
Brandy	ALC CHINA	2	1	1.7	
Cocktail	1	1.4	-	-	
Mix in Herbal Medicin	e 5	7.4	8	13.8	
Conbine > 1 type	20	29.4	12	20.8	
Total	68	100.0	58	100.0	

From table 4.18 the most commonly used among alcohol use disorders are white alcohol about 49.2 percent.

CLL GM CKGKLGRW

Table 4.19 Amount of Alcohol Drinking per Day Among Alcohol
Use Disorders

Amount of	Alcohol	Dependence	Alcoh	ol Abuse
Alcohol/Day	Number	Percent	Number	Percent
Less than 1 little	25	36.8	12	20.7
bottle		-		
<pre>1 little bottle-1 big bottle</pre>	7	10.3	5	8.6
More than 1 big bottle	e 3	4.4	_	_
Little bottle of beer	4	5.8	2	3.4
Big bottle of beer	2	2.9	1	1.7
More than big bottle	of 1	1.5	-	
beer				
1-3 glasses of alcohol (mixed)	21	30.9	34	58.7
4-5 glasses of alcohol (mixed)		5.9	3	5.2
6-7 glasses of alcohol (mixed)	โป่ท	1.5	ลัย่	1.7
Total	68	100.0	58	100.0

From table 4.19 amount of alcohol vary from 1-3 glasses of alcohol mixed and less than 1 little bottle of whiskey.

Table 4.20 Characters of Drinking Behavior Among Alcohol
Use Disorders

Characters	Alcohol	Dependence	Alcoh	ol Abuse
	Number	Percent	Number	Percent
Time of regular drin	king	and think	Title T	
- Morning	4/-	*==	2	3.4
- late morning	200	-	1	1.7
- afternoon	3	4.4	3	5.2
- evening	58	85.3	44	75.9
- night	2	2.9	4	6.9
- all day	1	1.5	Military -	-
- before meal	4	5.9	1	1.7
- not exactly	1 1 171		3	5.2
Period of time used	reign	พเยากร		
- less than 1 hour	0 7	10.3	7	12.1
- 1-2 hour	38 .	55.9	40	68.9
- 2-4 hours	16	23.5	7	12.1
- 4-6 hours	4	5.9	-	21
- more than 6 hour	s 3	4.4	1	1.7
- missing		1	3	5.2

Table 4.20 (continue)

	Alcohol Dependence		•	Alcohol Abuse	
Characters	Number	Percent		Number	Percent
Place					
- inside home	31	45.6		31	53.5
- outside home	20	24.4		20	34.5
- restaurants	6	8.8		2	3.4
- clubs	1/250	-			-
- any where	11	16.2		5	8.6
With whom	ABZEA	110			
- alone	10	14.7		18	31.0
- with friends	48	70.6		33	56.9
- with others	4	5.9		77	-
- relatives	6	8.8		7	12.1
Total	68	100.0	3	58	100.0

From table 4.20 we found that alcohol use disorders like to drink in the evening, time take about 1-2 hours, both inside and outside home and like to drink with friends.

JAN 19 ALLEN MELLINE LAND

Table 4.21 Feeling or Emotional Changes Before and After
Drinking Among Alcohol Use Disorders.

Changes	А	lcohol	Dependence	Alcoh	ol Abuse
		Number	Percent	Number	Percent
Yes		37	54.4	28	48.3
No		31	45.6	30	51.7
Total	/////>	68	100.0	58	100.0
		665- 1424			

From table 4.21 we found that there were changes about 51.6 percent. The changes before drinking were :- could not control awareness, irritable easily, decrease apetite. The changes after drinking were : hanging, intoxication, impulsive, itching, headache, dizziness, hot sensation in the stomach, talkative, louder noise, increase apetite, palpitation, hypomotor retardation and good sleep.

Table 4.22 Alcohol Use for Relief of Stress.

Alcohol		Alcohol	Dependence	Alcoh	ol Abuse
as Reli		Number	Percent	Number	Percent
Yes		35	51.5	14	24.1
No	. 10	33	48.5	44	75.9
Total	8	68	100.0	58	100.0

From table 4.22 we found that alcohol dependence used alcohol as relief of their stress more than alcohol abuse, statistical significantly P < .005.

์ ศูนย์วิทยทรัพยากร จุฬาลงกรณ์มหาวิทยาลัย

Table 4.23 Cessation, Reduce Drinking Habit and Requesting for Help.

	Alcohol	Alcohol Dependence		Alcohol Abuse	
Behavior	Number	Percent	Number	Percent	
Try to stop or reduc	ce		7	FIRE	
- ever	58	85.3	51	87.9	
- never	10	14.7	7	12.1	
Request for help					
- ever	6	8.8	2	3.4	
- never	62	91.2	56	96.6	
Request help from ph	nysician				
- ever	2	2.9	3	5.2	
- never	66	97.1	5.5	94.8	
Total	68	100.0	58	100.0	

From table 4.23 we found that alcohol use disorders have tried to stop or reduce their drinking. The reasons were own motivation, health problems, family asked for, grow older and drug holiday associated with religious belief. Most of them could stop in the period of 1-3 month and

then came to drink again because of friends, social activities. Most of them thought that drinking cessation was easy but they did not want to stop so they did not go to request for help about this process.



Table 4.24 Other Drugs and Substances Used.

Drug and substances	Alcohol	Dependence	Alcoh	ol Abuse
	Number	Percent	Number	Percent
Never ·	5	7.4	6	10.3
Ever - Cigarrettes	10	14.7	4	6.9
- Tea, Coffee	1	1.5	6	10.3
- Areca-nuts	96-4	-	1	1.7
- Analgesics	2	2.9	7	12.2
- C.N.S. Stimula	nts 5	7.4	· (4	-
- Transquilizers	4	5.9	1	1.7
- Kratom	2	2.9	2	3.4
- Heroin	2	2.9	4	6.9
- Poly-drugs use	d 37	54.4	27	46.6
Total	68	100.0	58	100.0

From table 4.24 Most of alcohol use disorders were poly drug users.

Table 4.25 Frequency of Other Drugs Used in the Past 6 Months.

Frequency of Used	Alcohol Dependence		Alcohol Abuse		
	Number	Percent	Number	Percent	
Never	18	26.5	21	36.2	
Less than 1 time/week	13	19.1	9	15.5	
1 time or more/week	11	16.1	9	15.5	
daily	8	11.8	12	20.7	
2-3 times/day	8	11.8	1	1.7	
4 or more times/day	10	14.7	6	10.4	
Total	68	100.0	58	100.0	

From table 4.25 we found that in the past 6 months they were still using drugs 73.5 percent and they were still using in the past 24 hours about 63.8 percent.

Data analysis on behavioral consequences of alcohol use disorders

Table 4.26 Percentage of Behavioral Consequences Among Alcohol Use Disorders.

Dob	ovioral		Alcohol De	ependence		Alcohol	Abus	e
	sequences	Never		Ever	Never	I	er	
		Occurred	Associate	Not Associate	Occurred	Associate	Not	Associat
1.	Hospital admission	66.2	13.2	20.6	55.2	8.6		26.2
2.	Mental Hospital admission	89.7	5.9	4.4	94.8	5.2		-
3.	Health problems	54.4	19.1	26.5	39.7	8.6		51.7*
4.	C.N.S. problems	94.1	1.5	4.4	86.3	3.4		10.3
5.	Liver problems	94.2	2.9	2.9	96.6	1.7		1.7
6.	pancrease problem	ns 95.6	1.5	2.9	98.3	1.7		-
7.	Stomach problems	72.1	16.1	11.8	67.3	8.6		24.1
8.	CVD problems	92.6	1.5	5.9	89.7	E 1.7		8.6
9.	accidents	79.4	16.2	4.4	72.4	6.9		20.7*
10.	Catched by police	e 89.7	1.5	8.8	89.7	1.7		8.6
11.	Fighting	82.3	10.3	7.4	93.1	-		6.9*
12.	Self-injury	98.5	1.5	-	96.6	1.7		1.7
13.	Injured by others	s 92.7	4.4	2.9	89.7	3.4		6.9

Table 4.26 (continue)

Beh	ovioral		Alcohol Dep	pendence	3	Alcohol	Abuse		
Consequences		Never	Ever		Never	E	Ever		
	9	Occurred	Associated	Not Associate	Occurred	Associate	Not Associa		
14.	Injury to others	86.8	10.3	2.9	89.7	3.4	6.9		
15.	Familial problem and conflict	s 61.8	11.7	26.5	44.8	20.7	34.5		
16.	Social problems	83.8	7.4	8.8	84.5	5.2	10.3		
17.	Financial problems	55.9	14.7	29.4	58.6	6.9	34.5		
18.	Working problems	67.6	11.8	20.6	62.1	5.2	23.8		
19.	Sexual problems	89.7	4.4	5.9	89.6	5.2	5.2		

* P < .05

From table 4.26 we found that most common problems among alcohol use disorders were health problems, accidental problems, familial problems, financial and working problems. The problems that were statistical significantly different between 2 groups were health problems, accidental problems and fighting.

To study co-morbid mental problems and general wellbeing by using GWB scale. GWB scale divided into 3 groups:
severe distress
moderate distress
positive well-being
the results show that:

Table 4.27 Percentage of General Well-being Score Groups in Alcohol Use disorders.

Groups	Alcohol Dependence		Alcohol Abuse		
Groups	Number	Percent	Number	Percent	
Severe distress	22	32.4	14	24.1	
Moderate distress	30	44.1	27	46.6	
Positive well-being	16	23.5	17	29.3	
Total	68	100.0	58	100.0	

From table 4.27 we found that scores of general well-being among alcohol use diorders were in moderate to severe distress.

Data analysis on personality profile.

In the process of analysis we combine alcohol dependence and alcohol abuse into one group of alcohol use disorders.

Table 4.28 Show Minimum, Maximum and Mean Score of Personality Profile Among Alcohol Use Disorders.

Pe	and the same and t	Minimum Scores	Average	Maximum Scores	Mean	Characters
A	reserved-outgoing	4	10	16	11.0	outgoing
В	low-high intelegence	0	5.5	11	5.0	low
С	emotionally instability	5	13.5	22	12.6	instability
	or weakness-stability					
E	submissive-dominance	3	10.5	18	10.5	between
F	serious-happy	4	11.5	19	11.2	serious
G	self-indulgent-	4 100	11	18	12.2	conscientious
	conscientious					
Н	shyness-bold, ventursome	4	11.5	19	12.2	bold
I	tough-tender minded	3	9.5	16	9.8	tender
L	trust-suspicious	0	8.5	17	9.8	suspicious
M	practical-imaginative	3	12	21	9.6	practical
N	genuine-astute	0	0.5	18	10.3	astute
0	self-assured-apprehension	on 0	0.5	19	12.4	apprehension
Q1	conservative-exprimenting	ig 3	11	19	9.1	conservative

Table 4.28 (continue)

Personality Profile	Minimum	Average	Maximum Scores	Mean	Characters
Qz group dependency-self	3	11	19	10.7	groups dependence
Q3 undiscipline-self-contr	rol 5	11	17	11.4	undiscipline
Q4 relaxed -tense	5	12	19	12.7	relaxed

From table 4.28 found that in each personality profile, the scores were not deviate charly from average scores except for profile L, M and O.

ศูนย์วิทยทรัพยากร เหาลงกรณ์มหาวิทยาลัย PART 3 Data analysis on factors associated with alcohol use disorders.

We divided the population into 3 groups :

Group 1 No drinking, population of 115.

Group 2 Alcohol drinking without disorders, population of 168.

Group 3 Alcohol use disorders (alcohol dependence combined with alcohol abuse) population of 126 and brought the data to compare each variables and used statistical tests to test differences among 3 groups.

ศูนย์วิทยทรัพยากร จุฬาลงกรณ์มหาวิทยาลัย



Table 4.29 Comparing on Sex Factors.

Sex	No Dr	rinking	Alcohol	Drinking	Alcohol Us	e Disorders
sex	Number	Percent	Number	Percent	Number	Percent
Male	26	22.6	75	44.6	86	68.3
Female	89	77.4	93	53.4	40	31.7
Total	115	100	168	100	126	100
-		$\lambda^2 =$	50.6	P < .00	01	

From table 4.29 we found that there were difference in sex among 3 groups. We found that male were alcohol drinking and alcohol use disorders than female by statistical significance (P < .001). If we test only 2 groups of alcohol drinking and alcohol use disorders $\lambda^2 = 16.20$, P < .001.

Table 4.30 Comparing on Factor of Age.

Group	Mean	S.D	S.E	P-value
1. No drinking (115)	38.95	17.33	1.62	<.05
2. Alcohol drinking (168)	46.72	14.67	1.13	
3. Alcohol use disorder (126)	42.71	14.56	1.29	

From table 4.30 we calculate analysis of variance (ANOVA) found that there were differences between group 2 and 1, and 2 and 3 (F = .0002, P < .05). Age was a factor associate with alcohol drinking.

ศูนย์วิทยทรัพยากร จุฬาลงกรณ์มหาวิทยาลัย

Table 4.31 Comparing on Factor of Marital Status.

	No Dr	inking	Alcohol	Drinking	Alcohol Use	Disorders
100	Number	Percent	Number	Percent	Number	Percent
~	29	25.2	10	6.0	10	7.9
8	86	74.8	158	94.0	116	92.1
	115	100	168	100	126	100
		Number 29 86	29 25.2 86 74.8	Number Percent Number 29 25.2 10 86 74.8 158	Number Percent Number Percent 29 25.2 10 6.0 86 74.8 158 94.0	Number Percent Number Percent Number 29 25.2 10 6.0 10 86 74.8 158 94.0 116

From table 4.31 we found that there were differences among 3 groups on marital status factors (P < .001). When we test only 2 groups of alcohol drinking and alcohol use disorders $\hat{\beta}^2 = .44$ P > .05.

There were differences between no drinking and drinking.

Table 4.32 Comparing on Factors of Occupation.

Occupation			Alcohol Drinking		Alcohol Use	Disorders
		Percent	No. Alexander and a second	Percent	Number	Percent
No occupation	29	25.2	20	11.9	8	6.3
Government	9	7.8	13	7.7	12	9.5
office, retired						
Business, employee	22	19.2	32	19.1	46	36.5
agriculturist	s 55	47.8	103	61.3	60	47.6
Total	115	100	168	100	126	100
		λ² =	31.8	P < .00	1	

From table 4.32 we found differences among 3 groups were occupation factors. If we tested only alcohol drinking and alcohol use disorders $\lambda^2 = 13.3$ P < .005 so occupation is one factor associate with alcohol use disorders.

Table 4.33 Comparing on Factor of Education.

Education Level	No Dr	inking	Alcohol D	rinking	Alcohol Us	se Disorders
Eddcacion Bever	Number	Percent	Number	Percent	Number	Percent
No school entrance	6	5.2	11	6.6	5	4.0
1-4 year in school	54	47.0	105	62.9	74	58.0
5-9 year in school	25	21.7	35	21.0	22	17.5
10-12 year in school	10	8.7	6	3.6	16	12.7
Bachelor degree	6	5.2	7	4.2	7	5.6
Higher than Bachelor Degree	-//		2	1.2	2	1.6
Now studying	14	12.2	1	0.6	1	0.8
Total	115	100	168	100	126	100

From table 4.33 showed that there was statistical significance about educational factors among 3 groups.

Table 4.34 Comparing on Factor of Familial History of Alcohol Drinking.

Familial History	No D	No Drinking		rinking	Alcohol Use Disorders	
rumillar history	Number	Percent	Number	Percent	Number	Percent
No	41	35.7	51	30.4	13	10.3
Yes - both parents	8	7.0	10	6.0	8	6.3
- others	66	57.4	107	63.7	105	83.3
Total	115	100	168	100	126	100
		75	The state of the s			

1 = 24.29

From table 4.34 showed that there was statistical significance among 3 groups. We found more alcohol drinking and alcohol use disorders in the population that had familial history of alcohol drinking. If we tested only 2 groups of alcohol drinking and alcohol use disorders we also found that there was statistical significance P < .001. Familial history of alcohol drinking was a factor associated with alcohol use disorders.

P < .001

Data analysis on drinking behavior among alcohol drinking and alcohol use disorders.

Table 4.35 Comparing Reasons of Starting Alcohol Use.

Reasons	Alcohol Drinking		Alcohol Use	Disorders
* #	Number	Percent	Number	Percent
Mental stress	5	3.2	8	6.8
Persuation by friend	ls 35	22.2	31	26.3
Want to try	21	13.3	26	22.0
Social activity	38	24.1	35	29.7
Mix with Herbal	58	36.7	18	15.3
Medicine				
Others	1	0.6		-
Total	168	100	118	100
Missing cases = 18	λ^2	= 18.23	P < .005	

From table 4.35 we found that the reason that were common in the group of alcohol drinking was using with herbal medicine while the reason in alcohol use disorders was social activity and there was difference by statistical significance P < .005.

Table 4.36 Comparing on Feeling and Emotional Changes
Before and After Drinking.

-1 1111		Drinking	Alcohol Use	Disorders
Changes	Number	Percent	Number	Percent
No.	104	61.9	61	48.4
Yes	64	38.1	65	51.6
Total	168	100	126	100
	$n^2 = 5.32$	P < .	. 05	

From table 4.36 we found that there were changes among alcohol use disorders higher than alcohol drinking without dependence nor abuse (P < .05).

Table 4.37 Comparing on Using Alcohol as A Relief of Stress.

_						
Use as a Relief		14-6	Alcohol	Drinking	Alcohol Use	Disorders
use	as a ke.	lief	Number	Percent	Number	Percent
	Never		151	89.9	77	61.1
	Ever		17	10.1	49	38.9
-	Total	**	168	100	118	100
	Wall and the same	∂ ²	= 34.23	P < .0	001	

From table 4.37 showed that alcohol use disorders used alcohol as a tool to relief mental and emotional stress more often than alcohol drinking (P < .001).

ศูนย์วิทยทรัพยากร จุฬาลงกรณ์มหาวิทยาลัย

Table 4.38 Comparing on Requesting for Help about Alcohol Drinking.

Requesting for	Alcoho	l Drinking	Alcohol Use	Disorders	
Help	Numbe	17/1/4	Number	Percent	
Never	167	99.4	118	93.7	
Ever	1	0.6	8	6.3	
Total	168	100	126	100	
	$\lambda^2 = 8.0$	3 P < .	005		

From table 4.38 showed that alcohol use disorders requested for help more often (P < .005).

ศูนยวิทยทรัพยากร หาลงกรณ์มหาวิทยาลัย

Table 4.39 Comparing on Requesting for Help from Physician.

- S	Alcohol	Drinking	Alcohol Use Disorders			
Requesting for Help from Physician			Number	Percent		
Never	167	99.4	121	96		
Ever	1	0.6	5	4.0		
Total	168	100	126	100		
λ^2	= 4.09	P < .05	j			

From table 4.39 showed that alcohol use disorders requested for help more often (P < .05).

ศูนย์วิทยทรัพยากร เพาลงกรณ์มหาวิทยาลัย Data analysis on behavioral consequences of alcohol drinking among no alcohol drinking, alcohol drinking and alcohol use disorders.

Table 4.40 Behavioral Consequences from Alcohol Drinking
"Treatment in the Hospital".

mber	Domaont				
	Percent	Number	Percent	Number	Percent
83	72.2	99	58.9	77	61.1
32	27.8	67	39.9	35	27.8
2					
-	24 7	2	1.2	14	11.1
15	100	168	100	126	100
	83 32 -	32 27.8	32 27.8 67	32 27.8 67 39.9	32 27.8 67 39.9 35

From table 4.40 showed that alcohol use disorders had been treated in the hospital more often (P < .001). If we calculated only 2 groups: alcohol drinking and alcohol use disorders we found differences with statistical significance $\lambda^2 = 16.12$, P < .001.

Table 4.41 Behavioral Consequences from Alcohol Drinking
"Treatment in Mental Hospital".

Mental Hospital	No Drinking		Alcohol D	rinking	Alcohol Use Disorders	
Treatment	Number	Percent	Number	Percent	Number	Percent
Never	114	99.1	165	98.2	116	92.1
Ever						
- not associate with alcohol drinking	1	0.9	. 3	1.8	3	2.4
- associate with alcohol drinking		3.450 MAZ		-	7	5.6
Total	115	100	168	100	126	100

From table 4.41 showed that alcohol drinking and alcohol use disorders had been treated in mental hospital more often than no drinking (P < .01). If we calculated only 2 groups: alcohol drinking and alcohol use disorders; we found differences as the same with statistical significance $\lambda^2 = 9.74$, P < .05.

Table 4.42 Behavioral Consequences form Alcohol Drinking "Health Problems".

				Alcohol Use	Disorder
Number	Percent	Number	Percent	Number	Percent
83	72.2	109	64.9	60	47.6
32	27.8	58	34.5	48	38.1
4 4 3	3.46 5 0m	1	0.6	18	14.3
115	100	168	100	126	100
	32	32 27.8	32 27.8 58	32 27.8 58 34.5	32 27.8 58 34.5 48 1 0.6 18

From table 4.42 showed that alcohol drinking had health problems more than no drinking (P < .001). If we calculated 2 groups between alcohol drinking and alcohol use disorders we found alcohol use disorders had health problems more often $\lambda^2 = 24.87$, P < .001.

Table 4.43 Behavioral Consequences form Alcohol Drinking "Brain and C.N.S. Problems".

Brain and C.N.S. Problems	No Drinking		Alcohol Drinkin		Alcohol Use Disor	
	Number	Percent	Number	Percent	Number	Percent
Never	114	99.1	163	97.0	· 114	90.5
Ever						
- not associate with alcohol	1	0.9	5	3.0	9	7.1
- associate with alcohol	-	100 100 100 100 100 100 100 100 100 100		-	3	2.4
Total	115	100	168	100	126	100

From table 4.43 showed that alcohol drinking had differences. If we calculated only 2 groups between alcohol drinking and alcohol use disorders we found alcohol use disorders had brain and C.N.S. problems more often $\lambda^2 = 6.95$, P < .05.

Table 4.44 Behavioral Consequences among Alcohol Drinking "Liver Problems".

No Drinking		Alcohol	Drinking	Alcohol Use	Disorders
Number	Percent	Number	Percent	Number	Percent
115	100	165	98.2	120	95.2
		3	1.8	3	2.4
			(=)	3	2.4
115	100	168	100	126	100
	Number 115	Number Percent 115 100	Number Percent Number 115 100 165 3	Number Percent Number Percent 115 100 165 98.2 - - 3 1.8 - - - -	Number Percent Number Percent Number 115 100 165 98.2 120 - - 3 1.8 3 - - - 3 3

From table 4.44 alcohol drinking had more liver problems, for only 2 groups alcohol drinking and alcohol use disorders $\lambda^2 = 4.19$, P > .05.

Table 4.45 Behavioral Consequences among Alcohol Drinking "Stomach Problems".

Stomach Problems	No Drinking		Alcohol	Drinking	Alcohol Use	Disorders
	Number	Percent	Number	Percent	Number	Percent
Never	104	90.4	143	85.1	88	69.8
Ever						
- not associate with	11	9.6	25	14.9	22	17.5
alcohol						
- associate with		5. 42. 650	-1	72	16	12.7
alcohol						
Total	115	100	168	100	126	100
	λ	2 = 42.	15 P	< .001		

From table 4.45 showed that alcohol drinking had more stomach problems and calculated between alcohol drinking and alcohol use disorders $\int_{0}^{2} = 23.77$, P < .001 so alcohol use disorders found stomach problems more often.

Table 4.46 Behavioral Consequences among Alcohol Drinking "Accidents".

Number				Alcohol Use	Disorders
	Percent	Number	Percent	Number	Percent
102	88.7	138	82.1	96	76.2
13	11.3	30	17.9	15	11.9
4	3.4 c= 0m	24 -	_	15	11.9
115	100	168	100	126	100
	13	13 11.3 115 100	13 11.3 30 115 100 168	13 11.3 30 17.9	13 11.3 30 17.9 15 15

Calculated only alcohol drinking and alcohol use disorders λ^2 = 21.99, P < .001. So accidents were associated with alcohol drinking and alcohol use disorders.

Table 4.47 Behavioral Consequences among Alcohol Drinking "Catched by Police".

No Drinking		Alcohol	Drinking	Alcohol Use	Disorders
Number	Percent	Number	Percent	Number	Percent
114	99.1	163	97.0	112	89.7
			E		
1	0.9	5	3.0	11	8.7
46					
- - 2	5), 4(8 5 2)	-	-	2	1.6
115	100	168	100	126	100
	Number 114	Number Percent 114 99.1 1 0.9	Number Percent Number 114 99.1 163	Number Percent Number Percent 114 99.1 163 97.0 1 0.9 5 3.0	Number Percent Number Percent Number 114 99.1 163 97.0 112 1 0.9 5 3.0 11 - - - - 2

Calculated only alcohol drinking and alcohol use disorders $\lambda^2 = 7.46$, P < .05. So catched by police consequences were associated with alcohol drinking and alcohol use disorders.

Table 4.48 Behavioral Consequences among Alcohol Drinking "Fighting".

Fighting	No Drinking		Alcohol	Drinking	Alcohol Use	Disorders
	Number	Percent	Number	Percent	Number	Percent
Never Ever	164	99.1	165	98.2	110	87.3
- not associate with alcohol	1	0.9	3	1.8	9	7.1
- associate with alcohol		5, 4 1 , 60 200 200 200 200 200 200 200 200 200 2		-	7	5.6
Total	115	100	168	100	126	100
	λ	2 = 26.0	08 P	< .001		

Calculated only alcohol drinking and alcohol use disorders $\lambda^2 = 15.31$, P < .001. So fighting consequences were associated with alcohol drinking and alcohol use disorders.

Table 4.49 Behavioral Consequences among Alcohol Drinking "Injuries by Others".

Injuries by Others	No Drinking		Alcohol	Drinking	Alcohol Us	e Disorders
	Number	Percent	Number	Percent	Number	Percent
Never	114	99.1	167	99.4	115	91.3
Ever						
- not associate with	1	0.9	1	0.6	6	4.8
alcohol						
- associate with	<u> </u>	30.4112 30.411 2 (2)77		_	5	4.0
alcohol						
Total	115	100	168	100	126	100
	λ	2 = 19.	17 P	< .001		

Calculated between alcohol drinking and alcohol use disorders $\lambda^2 = 12.41$, P < .005. So "injuries by others" consequences were associated with alcohol drinking and alcohol use disorders.

Table 4.50 Behavioral Consequences among Alcohol Drinking "Injuries to Others".

Injuries to Others	No Drinking		Alcohol	Drinking	Alcohol Use	Disorders
	Number	Percent	Number	Percent	Number	Percent
Never	114	99.1	167	99.4	111	88.1
Ever						
- not associate with alcohol	1	0.9	1	0.6	6	4.8
- associate with alcohol		2 (= 0) M2/21		-	9	7.1
Total	115	100	168	100	126	100

Calculated between alcohol drinking and alcohol use disorders $\lambda^2 = 18.22$, P < .001. So "Injuries to Others" consequence were associated with alcohol drinking and alcohol use disorders.

Table 4.51 Behavioral Consequences among Alcohol Drinking "Familial Problems".

No Drinking		Alcohol	Drinking	Alcohol Use	Disorders
Number	Percent	Number	Percent	Number	Percent
102	88.7	127	75.6	68	54.0
13	11.3	35	20.8	38	30.2
2) /24 12/28 24/30	6	3.6	20	15.9
115	100	168	100	126	100
	Number 102	Number Percent 102 88.7 13 11.3	Number Percent Number 102 88.7 127 13 11.3 35 6	Number Percent Number Percent 102 88.7 127 75.6 13 11.3 35 20.8 6 3.6	Number Percent Number Percent Number 102 88.7 127 75.6 68 13 11.3 35 20.8 38 - - 6 3.6 20

Calculated between alcohol drinking and alcohol use disorders $\lambda^2 = 19.91$, P < .001. So "Familial Problems" consequences were associated with alcohol drinking and alcohol use disorders.

Table 4.52 Behavioral Consequences among Alcohol Drinking "Social Problems".

	No Drinking		Alcohol Drinking		Alcohol Use Disorder	
Number	Percent	Number	Percent	Number	Percent	
112	97.4	160	95.2	106	84.1	
3	2.6	8	4.8	12	19.5	
<u> </u>	2.467000	·	-	8	6.3	
115	100	168	100	126	100	
	112 h 3	112 97.4 n 3 2.6	112 97.4 160 n 3 2.6 8	112 97.4 160 95.2 n 3 2.6 8 4.8	112 97.4 160 95.2 106 n 3 2.6 8 4.8 12 8	

Calculated between alcohol drinking and alcohol use disorders $\lambda^2 = 14.09$, P < .001. So "Social Problems" consequences were associated with alcohol drinking and alcohol use disorders.

Table 4.53 Behavioral Consequences among Alcohol Drinking "Financial Problems".

No Drinking		Alcohol	Drinking	Alcohol Use	Disorders
Number	Percent	Number	Percent	Number	Percent
87	75.7	90	53.6	72	57.1
28	24.3	77	45.8	40	31.7
	3. 47.00 T	1	0.6	14	11.1
115	100	168	100	126	100
	Number 87 28	Number Percent 87 75.7 28 24.3	Number Percent Number 87 75.7 90 28 24.3 77 1	Number Percent Number Percent 87 75.7 90 53.6 28 24.3 77 45.8 - - 1 0.6	Number Percent Number Percent Number 87 75.7 90 53.6 72 28 24.3 77 45.8 40 - - 1 0.6 14

Calculated between alcohol drinking and alcohol use disorders $\hat{\beta}^2 = 19.36$, P < .001. So "Financial Problems" consequences were associated with alcohol drinking and alcohol use disorders.

Table 4.54 Behavioral Consequences among Alcohol Drinking "Working Problems".

No Drinking		Alcohol	Drinking	Alcohol Use	Disorders
Number	Percent	Number	Percent	Number	Percent
100	87.0	143	85.1	82	65.1
15	13.0	25	14.9	33	26.2
				11	8.7
					0.7
115	100	168	100	126	100
	Number 100	Number Percent 100 87.0 15 13.0	Number Percent Number 100 87.0 143 15 13.0 25	Number Percent Number Percent 100 87.0 143 85.1 15 13.0 25 14.9	Number Percent Number Percent Number 100 87.0 143 85.1 82 15 13.0 25 14.9 33 - - - - 11

Calculated between alcohol drinking and alcohol use disorders $n^2 = 23.11$, P < .001. So "Working Problems" consequences were associated with alcohol drinking and alcohol use disorders.

Table 4.55 Behavioral Consequences among Alcohol Drinking "Sexual Problems".

Sexual Problems	No Drinking		Alcohol Drinking		Alcohol Use Disorders	
	Number	Percent	Number	Percent	Number	Percent
Never	114	99.1	161	95.8	113	89.7
Ever						
- not associate with	1	0.9	7	4.2	7	5.6
alcohol						
- associate with	4	-	1	_	6	4.8
alcohol						
Total	115	100	168	100	126	100
	h ²	= 17.86	5 P <	.005		

Calculated between alcohol drinking and alcohol use disorders $\lambda^2 = 8.58$, P < .05. So "Sexual Problems" consequences were associated with alcohol drinking and alcohol use disorders.

Data analysis for co-morbid mental problems and general well-being among sample population.

Table 4.56 Genearl Well-being Grouping by Scores.

No Dr	No Drinking		Drinking	Alcohol Use	Disorders
Number	Percent	Number	Percent	Number	Percent
24	20.9	32	19.0	36	28.6
44	38.3	65	38.7	57	45.2
47	40.9	71	42.3	33	26.2
115	100	168	100	126	100
	Number 24 44 47	Number Percent 24 20.9 44 38.3 47 40.9	Number Percent Number 24 20.9 32 44 38.3 65 47 40.9 71	Number Percent Number Percent 24 20.9 32 19.0 44 38.3 65 38.7 47 40.9 71 42.3	Number Percent Number Percent Number 24 20.9 32 19.0 36 44 38.3 65 38.7 57 47 40.9 71 42.3 33

From table 4.56 we found that alcohol drinking and alcohol use disorders had high percentage in moderate to severe distress score-group of GWB (P < .05).

If we calculated differences between and among groups by using ANOVA, the result was :

Table 4.57 General Well-being Comparing by Using Mean Scores.

Mean	S.D.	S.E.	P-value
69.42	9.63	0.89	< .05
69.79	10.40	0.80	
69.79	10.40	0.80	
	69.42 69.79	69.42 9.63 69.79 10.40	69.42 9.63 0.89 69.79 10.40 0.80

Alcohol use disorders was significant different from other groups at P < .05.

ศูนยวทยทรพยากุร จุฬาลงกรณ์มหาวิทยาลัย From GWB total scores, we analysed subscore labels that were devided into:

- 1. anxiety subscroe
- 2. Depression subscore
- 3. Positve well-being subscore
- 4. Self-control subscore
- 5. Vitality subscore
- 6. General health subscore

We used ANOVA, the results were as follow:

Table 4.58 GWB Subscore of "Anxiety".

Group	Mean	S.D.	S.E.	P-value
No drinking (115)	14.22	3.13	0.29	< .05
alcohol drinking (168)	14.48	2.74	0.21	
alcohol use disorders (126)	13.32	3.33	0.29	

Alcohol use disorders was significant different from other groups at P < .05.

Table 4.59 GWB Subscore of "Depression".

Group	Mean	S.D.	S.E.	P-value
No drinking (115)	14.45	2.51	0.23	< .05
alcohol drinking (168)	14.31	3.12	0.24	
alcohol use disorders (126)	13.55	3.37	0.30	

Alcohol drinking and alcohol use disorders were significant different at P < .05.

ัศูนย์วิทยทรัพยากร จุฬาลงกรณ์มหาวิทยาลัย

Table 4.60 GWB Subscore of "Positive well-being".

Mean	S.D.	S.E.	P-value
9.22	1.96	0.18	< .001
8.96	2.33	0.18	
8.08	2.14	0.19	
	9.22	9.22 1.96 8.96 2.33	9.22 1.96 0.18 8.96 2.33 0.18

Alcohol use disorders were significant different from other groups at P < .001.

For other subscore labels of GWB: Self-control, Vitality and General Health after calculated by using ANOVA and F-test we found that there were no significant differences.

ศูนย์วิทยทรัพยากร งุฬาลงกรณ์มหาวิทยาลัย Data analysis on personality profile.

We used mean scores in each profile and analyse by ANOVA and F-test to find differences among no drinking, alcohol drinking and alcohol use disorders. We found that there were not significant different in every profiles except "trust-suspiciousness" profile.

Table 4.61 Personality profile "Trust-Suspiciousness".

Group	Mean	S.D.	S.E.	P-value
No drinking (115)	9.22	2.39	0.23	< .05
alcohol drinking (168)	9.83	2.70	0.21	
alcohol use disorders (126)	10.22	2.46	0.22	

Alcohol use disorders was significant different from no drinking at P < .05.