

BLOOD ALCOHOL LEVELS AND EFFECTS

Alcohol's effects are roughly predictable from the amount of alcohol in the bloodstream, assuming that no tolerance has been developed. The following list indicates what effects alcohol typically has at several Blood Alcohol Levels:

.02%	Light and moderate drinkers begin to feel some effect (about one drink).
.04%	Most people begin to feel relaxed.
.06%	Judgment is somewhat impaired; people are less able to make rational decisions about their capabilities, for example driving.
.08%	Definite impairment of muscle coordination and driving skills. increased risk of nausea and slurred speech.
.10%	Although reaction time is affected after the first drink, there is a clear deterioration of reaction time and control at this level.
.15%	Balance and movement are impaired. risk of blackouts, accidents, nausea, passing out and hangovers.
.30%	Many people lose consciousness.
.40%	Most people lose consciousness, some die.
.45%	Breathing stops, death occurs.

*NOTE: These effects occur for people who have <u>not</u> developed a high tolerance for alcohol. For people with high tolerances, these effects may not occur until higher levels of intoxication. Heavy drinkers must therefore consume more alcohol to achieve the same effects as moderate drinkers which costs more money and is more harmful to the body.

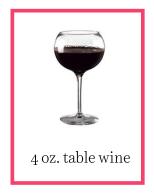


Standard Drinks

Most people think drinks are counted by containers, rather than by standard drink. Knowing what a standard drink is can help you determine how much alcohol you are actually consuming.

The following are all **One Standard Drink**:















The rate of alcohol absorption depends upon a variety of factors, including:

- Type and strength of alcohol
- Rate of consumption
- Effervescence (bubble or froth)
- Amount of food in stomach

While many factors may impact the rate of alcohol absorption, there is only one factor that impacts the rate of oxidation, or how quickly alcohol leaves your blood stream. That factor is **time.** Your BAC is only reduced by .016% every hour. This means that, on average, it takes about one hour to metabolize one standard drink.



Approximate Blood Alcohol Levels as a Function of Number of Drinks and Time Determined by Weight for Women

	_								
		NUM							
100 lb	- 1	OFH	OURS						
Female	e	1	2	3	4	5	6	7	8
NUMBER	1	.029	.013	-		-			-
OF DRINKS	2	.074	.058	.042	.026	.010	-	-	-
	3	.119	.103	.087	.071	.055	.039	.023	.007
	4	.164	.148	.132	.116	.100	.084	.068.	052
	5	.209	.193	.177	.161	.145	.129	.113	097
	6	.254	.238	.222	.206	.190	.174	.158	.142
	7	.299	.283	.267	.251	.235	.219	.203	.187
	8	.344	.328	.312	.296	.280	.264	.248	.232
	9	.389	.373	.357	.341	.325	.309	.293	.277
:	10	.434	.418	.402	.386	.370	.354	.338	.322
:	11	.479	.463	.447	.431	.415	.399	.383	.367
1	12	.524	.508	.492	.476	.460	.444	.428	.412
		NUM	IBER						
120 lb	- 1		IBER OURS						
120 lb Female	- 1			3	4	5	6	7	8
Female NUMBER	e	OFH 1	OURS	3	4	5	6	7	8
Female	e	OFH 1	OURS 2 .005	3 - .027	-	5	6	7	8
Female NUMBER OF	e 1	0FH 1 .021	.005 .043	•	.011	- -	- -	7 -	8 -
Female NUMBER OF	1 2	0FH 1 .021 .059	.005 .043	.027	.011	3.032		•	- - -
Female NUMBER OF	1 2 3	.021 .059 .096	.005 .043 .080	.027	.011 .048	3.032 .070	.016	•	- - - -
Female NUMBER OF	1 2 3 4	0FH 1 .021 .059 .096 .134 .171	.005 .043 .080	.027	.011 .048 .086 .123	3.032 .070	.016 .054 .091	.038	.022
Female NUMBER OF	1 2 3 4 5	0FH 1 .021 .059 .096 .134 .171 .209	0URS 2 .005 .043 .080 .118 .155	.027 .064 .102 .139	.011 .048 .086 .123	.032 .070	.016 .054 .091	.038	.022 059 097
Female NUMBER OF	1 2 3 4 5	0FH 1 .021 .059 .096 .134 .171 .209 .246	0URS 2 .005 .043 .080 .118 .155 .193	.027 .064 .102 .139	.011 .048 .086 .123 .161	.032 .070 .107	.016 .054 .091 .129	.038	.022 059 097
Female NUMBER OF	1 2 3 4 5 6 7	0FH 1 .021 .059 .096 .134 .171 .209 .246	0URS 2 .005 .043 .080 .118 .155 .193 .230	.027 .064 .102 .139 .177	.011 .048 .086 .123 .161 .198	.032 .070 .107 .145 .182	.016 .054 .091 .129 .166	.038 .075 . .113 . .150	.022 059 097 .134 .172
NUMBER OF DRINKS	e 1 2 3 4 5 6 7	0FH 1 .021 .059 .096 .134 .171 .209 .246 .284	0URS 2 .005 .043 .080 .118 .155 .193 .230	.027 .064 .102 .139 .177 .214 .252	.011 .048 .086 .123 .161 .198 .236	.032 .070 .107 .145 .182	.016 .054 .091 .129 .166 .204	.038 .075 . .113 . .150 .188	.022 059 097 .134 .172
NUMBER OF DRINKS	1 2 3 4 5 6 7 8	0FH 1 .021 .059 .096 .134 .171 .209 .246 .284	0URS 2 .005 .043 .080 .118 .155 .193 .230 .268 .305	.027 .064 .102 .139 .177 .214 .252 .289	.011 .048 .086 .123 .161 .198 .236 .273	.032 .070 .107 .145 .182 .220 .257	.016 .054 .091 .129 .166 .204 .241	.038 .075 . .113 . .150 .188 .225	.022 059 097 .134 .172 .209
Pemale NUMBER OF DRINKS	1 2 3 4 5 6 7 8 9	0FH 1 .021 .059 .096 .134 .171 .209 .246 .284 .321 .359 .396	OURS 2 .005 .043 .080 .118 .155 .193 .230 .268 .305 .343 .380	.027 .064 .102 .139 .177 .214 .252 .289	.011 .048 .086 .123 .161 .198 .236 .273 .311	.032 .070 .107 .145 .182 .220 .257 .295	.016 .054 .091 .129 .166 .204 .241 .279	.038 .075 . .113 . .150 .188 .225 .263	

	1	1BER							
140 lb.	OFH	OURS							
Female	1	2	3	4	5	6	7	8	
	.016	-	-		-		-	-	
OF A	.048	.032	.016	-	-	-	-	-	
;	.080	.064	.048	.032	.016	-	-	-	
4	.112	.096	.080	.064	.048	.032	.016	-	
į	.144	.128	.112	.096	.080	.064	.048	.032	
(.176	.160	.144	.128	.112	.096	.080.	064	
	7 .209	.193	.177	.161	.145	.129	.113	097	
	.241	.225	.209	.193	.177	.161	.145	.129	
9	.273	.257	.241	.225	.209	.193	.177	.161	
10	.305	.289	.273	.257	.241	.225	.209	.193	
1	.337	.321	.305	.289	.273	.257	.241	.225	
12	.369	.353	.337	.321	.305	.289	.273	.257	
		NUMBER							
160 lb.	OFH	OFHOURS							
Female	1	2	3	4	5	6	7	8	
	.012	-	-	-	-	-	-	-	
OF A	.040	.024	.008	-	-	-	-	-	
;	.068	.052	.036	.020	.004	-	-	-	
4	.096	.080	.064	.048	.032	.016	-	-	
į	.124	.108	.092	.076	.060	.044	.028	.012	
(.152	.136	.120	.104	.088	.072	.056	.040	
	7 .180	.164	.148	.132	.116	.100	.084 .	068	
	.209	.193	.177	.161	.145	.129	.113	097	
8	209. יי								
	1200	.221	.205	.189	.173	.157	.141	.125	
8	.237		.205 .233						
	9 .237 9 .265	.249		.217	.201	.185	.169	.153	

180 lb. Female	NUMBER OFHOURS							
remale	1	2	3	4	5	6	7	8
NUMBER 1	.009	-	-	-	-			-
OF DRINKS 2	.034	.018	.002	-	-	-	-	-
3	.059	.043	.027	.011	-	-	-	-
4	.084	.068	.052	.036	.020	.004	-	-
5	.109	.093	.077	.061	.045	.029	.013	-
6	.134	.118	.102	.086	.070	.054	.038	.022
7	.159	.143	.127	.111	.095	.079	.063	.047
8	.184	.168	.152	.136	.120	.104	.088	.072
9	.209	.193	.177	.161	.145	.129	.113	.097
10	.234	.218	.202	.186	.170	.154	.138	.122
11	.259	.243	.227	.211	.195	.179	.163	.147
12	.284	.268	.252	.236	.220	.204	.188	.172
	NUM	BER OURS						
200 lb. Female	UFF	UUKS						
remate	1	2	3	4	5	6	7	8
	_							
NUMBER 1	.006	-	-	-	-	-	-	-
NUMBER 1 OF 2	.006	.013	-	-	-	-	-	
OF 2	.029	.013 .035	.019	-	-	-	-	-
OF 2	.029 .051	.035		-	-	- - -	- - -	
OF 2 DRINKS 2	.029 .051 .074	.035 .058	.042	.003	.010	- - - - .016	- - - -	
OF 2 DRINKS 2 3	.029 .051 .074	.035 .058 .080	.042	.003 .026	.010 3 .032		.023	- - - - .007
OF 2 DRINKS 2 3 4	.029 .051 .074 .096	.035 .058 .080	.042 .064 .087	.003 .026 .048	.010 3 .032 .055	.039		
OF 2 DRINKS 2 3 4 5	.029 .051 .074 .096 .119 .141	.035 .058 .080 .103	.042 .064 .087	.003 .026 .048 .071	.010 3.032 055 .077	.039 .061		.029
OF 2 DRINKS 3 4 5 6 7	.029 .051 .074 .096 .119 .141	.035 .058 .080 .103 .125 .148	.042 .064 .087 .109	.003 .026 .048 .071 .093	.010 3.032 .055 .077	.039 .061 .084	.045	.029 .052
OF 2 DRINKS 3 4 5 6 7	.029 .051 .074 .096 .119 .141	.035 .058 .080 .103 .125 .148	.042 .064 .087 .109 .132	.003 .026 .048 .071 .093	.010 3 .032 .055 .077 .100	.039 .061 .084 .106	.045	.029 .052 .074
OF 2 DRINKS 2 3 4 5 6 7 8	.029 .051 .074 .096 .119 .141 .164	.035 .058 .080 .103 .125 .148	.042 .064 .087 .109 .132 .154	.003 .026 .048 .071 .093 .116	.010 3 .032 .055 .077 .100 .122	.039 .061 .084 .106 .129	.045 .068 .090	.029 .052 .074 .097

BAL tables are ESTIMATES only and are not intended to convey that drinking any amount of alcohol is safe. Therefore, the charts should not be used to determine whether or not someone should be permitted to drive. Drinking alcoholic beverages is unlawful for those under 21 years of age.

This resource has been adapted from resources provided by Holmes Murphy Fraternal Practice. For more information and resources, visit $\underline{www.HolmesMurphyFraternity.com}$.