

Retrograde Alcohol Extrapolation Report

Organization: BAC Tracker International, Inc.
Reference ID# 2011-BAC-0001

Report Generated 9/21/2011

Subject Information

Name: Doe, John	Weight (lb): 183
Age: 29	Height (in): 72
Gender: Male	

Drink Consumption Information

Time of Interest (24hrs)	BAC (g/dl)	Range (+/-)
2200	0.090	0.009

Elimination Range (g/dl/hr)
Avg.
0.018

Volume Distribution	Loading Factor
Widmark: 0.680	0.194
Watson: 0.674	0.196
Forrest: 0.717	0.184
Seidl: 0.763	0.173
Ulrich: 0.734	0.180
Pos.-Moz.: 0.713	0.185

Total Volume of Alcohol Consumed (100% alc/vol)

Formula	Volume	+/-
Pos.-Moz.	4.391	0.127
Watson	4.149	0.120
Seidl	4.696	0.136
Widmark	4.185	0.121
Forrest	4.412	0.128
Ulrich	4.516	0.131

Standard Drink Information

Formula	Standard Drinks	+/-
Pos.-Moz.	7.318	0.211
Watson	6.916	0.200
Seidl	7.826	0.226
Widmark	6.975	0.202
Forrest	7.353	0.213
Ulrich	7.527	0.218

Peak Alcohol Concentration

Peak BAC (g/dl): 0.103
 Range: 0.022
 Peak Time(24hr): 2030
 Loading Factor 0.184

Known Case Data Information

Time of First Drink (24hrs): 1730
 Time of Last Drink (24hrs): 1950
 Time of Known BAC (24hrs): 2330
 Known BAC (g/dl): 0.068
 Analytical Method QA/QC Range (+/-): 0.005

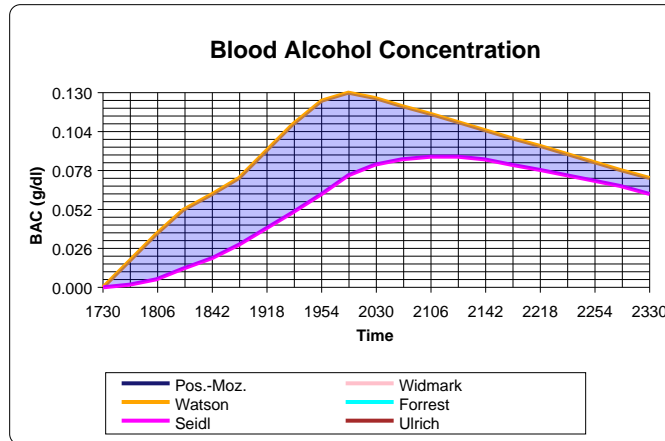
One drink is equivalent to 0.6 oz of ethanol (100% alc/vol)

BAC (g/dl) at Time of Interest: 0.090

Male

Time (24 hr)	BAC (g/dl)	+/-
1730	0.000	+/- 0.000
1748	0.009	+/- 0.009
1806	0.020	+/- 0.015
1824	0.031	+/- 0.020
1842	0.040	+/- 0.021
1900	0.050	+/- 0.022
1918	0.065	+/- 0.026
1936	0.079	+/- 0.029
1954	0.093	+/- 0.031
2012	0.101	+/- 0.028
2030	0.103	+/- 0.022
2048	0.102	+/- 0.018
2106	0.100	+/- 0.015
2124	0.098	+/- 0.012
2142	0.094	+/- 0.010
2200	0.090	+/- 0.009
2218	0.086	+/- 0.008
2236	0.082	+/- 0.007
2254	0.077	+/- 0.007
2312	0.072	+/- 0.006
2330	0.067	+/- 0.006

Extrapolation Information



Absorption Rate Constant "k" (Uemura et al 2005)

Slow Absorption Rate
1.0

Fast Absorption Rate
8.0

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<u>BAC at Time of Interest:</u> 0.090		<u>BAC at Time of Interest:</u> 0.090		<u>BAC at Time of Interest:</u> 0.090	
<u>Pos.-Moz.</u> <u>Male</u>	<u>Doe, John</u> <u>BAC (g/dl)</u>	<u>Watson</u> <u>Male</u>	<u>Doe, John</u> <u>BAC (g/dl)</u>	<u>Seidl</u> <u>Male</u>	<u>Doe, John</u> <u>BAC (g/dl)</u>
<u>Time (24 hr)</u>		<u>Time (24 hr)</u>		<u>Time (24 hr)</u>	
1730	0.000	1730	0.000	1730	0.000
1748	0.009	1748	0.009	1748	0.008
1806	0.019	1806	0.020	1806	0.018
1824	0.030	1824	0.031	1824	0.029
1842	0.042	1842	0.040	1842	0.041
1900	0.052	1900	0.050	1900	0.053
1918	0.063	1918	0.065	1918	0.066
1936	0.076	1936	0.079	1936	0.079
1954	0.093	1954	0.093	1954	0.093
2012	0.101	2012	0.101	2012	0.102
2030	0.103	2030	0.103	2030	0.103
2048	0.102	2048	0.102	2048	0.102
2106	0.100	2106	0.100	2106	0.100
2124	0.098	2124	0.098	2124	0.098
2142	0.094	2142	0.094	2142	0.094
2200	0.090	2200	0.090	2200	0.090
2218	0.086	2218	0.086	2218	0.086
2236	0.082	2236	0.082	2236	0.082
2254	0.077	2254	0.077	2254	0.077
2312	0.072	2312	0.072	2312	0.072
2330	0.067	2330	0.067	2330	0.067

<u>BAC at Time of Interest:</u> 0.090		<u>BAC at Time of Interest:</u> 0.090		<u>BAC at Time of Interest:</u> 0.090	
<u>Widmark</u> <u>Male</u>	<u>Doe, John</u> <u>BAC (g/dl)</u>	<u>Forrest</u> <u>Male</u>	<u>Doe, John</u> <u>BAC (g/dl)</u>	<u>Ulrich</u> <u>Male</u>	<u>Doe, John</u> <u>BAC (g/dl)</u>
<u>Time (24 hr)</u>		<u>Time (24 hr)</u>		<u>Time (24 hr)</u>	
1730	0.000	1730	0.000	1730	0.000
1748	0.009	1748	0.008	1748	0.008
1806	0.020	1806	0.019	1806	0.018
1824	0.031	1824	0.030	1824	0.030
1842	0.041	1842	0.041	1842	0.041
1900	0.050	1900	0.053	1900	0.053
1918	0.064	1918	0.063	1918	0.065
1936	0.078	1936	0.076	1936	0.076
1954	0.093	1954	0.093	1954	0.093
2012	0.101	2012	0.101	2012	0.101
2030	0.103	2030	0.103	2030	0.103
2048	0.102	2048	0.102	2048	0.102
2106	0.100	2106	0.100	2106	0.100
2124	0.098	2124	0.098	2124	0.098
2142	0.094	2142	0.094	2142	0.094
2200	0.090	2200	0.090	2200	0.090
2218	0.086	2218	0.086	2218	0.086
2236	0.082	2236	0.082	2236	0.082
2254	0.077	2254	0.077	2254	0.077
2312	0.072	2312	0.072	2312	0.072
2330	0.067	2330	0.067	2330	0.067

The above results represent estimations of blood alcohol concentration using empirically derived, peer reviewed, published formulae. The accuracy of these estimations is contingent upon the information provided.

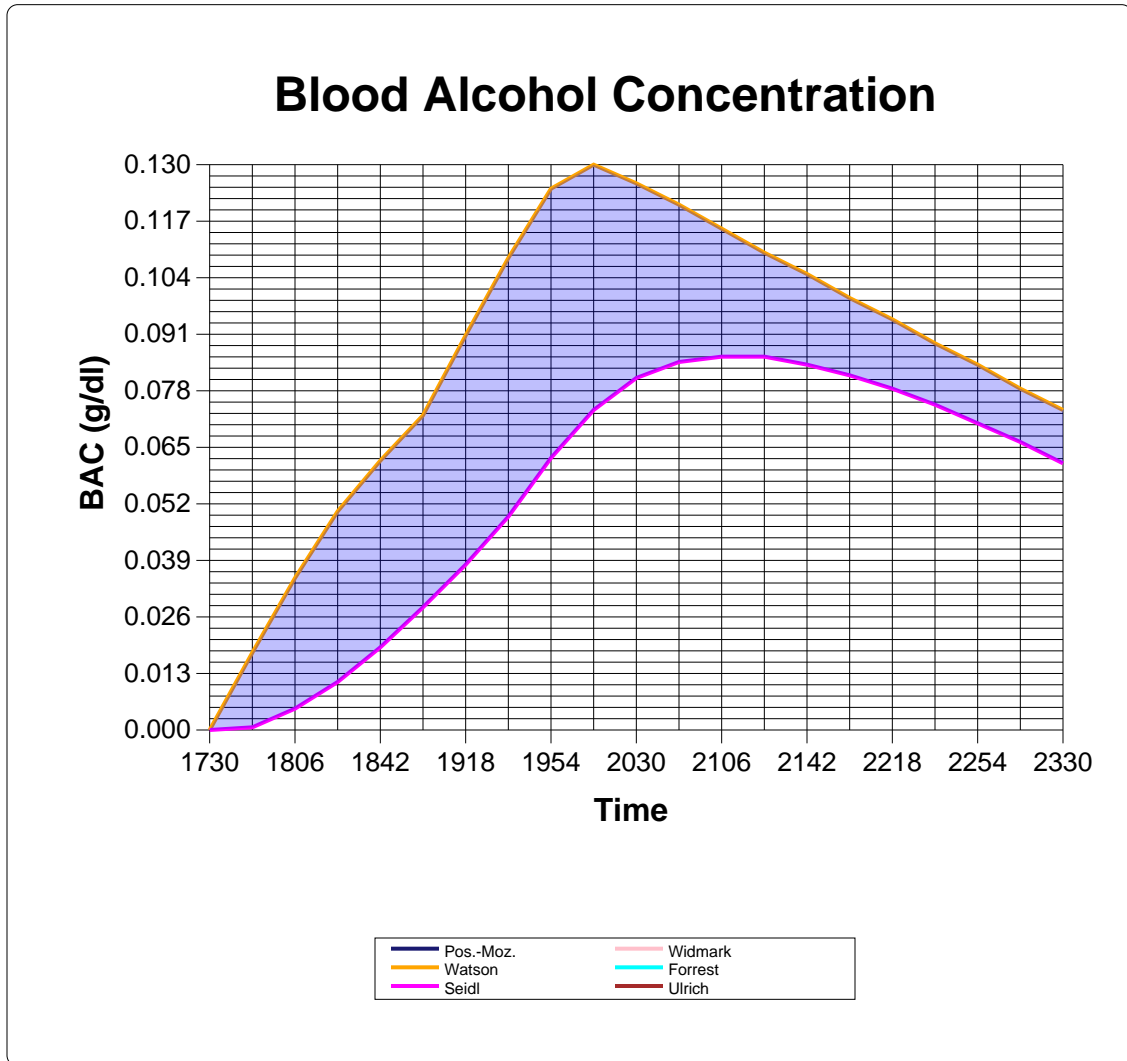
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Chart Generated

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