

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	0.094	0.005

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

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

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

Peak Alcohol Concentration

Peak BAC (g/dl): 0.121
 Range: 0.005
 Peak Time(24hr): 2012
 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

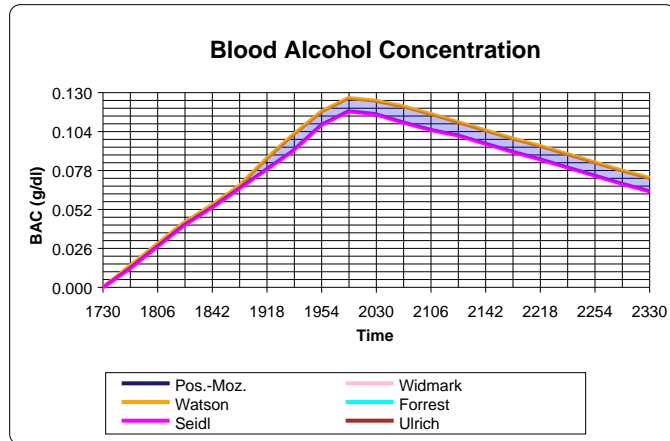
One drink is equivalent to 0.6 oz of ethanol (100% alc/vol)

BAC (g/dl) at Time of Interest: 0.094

Male

Time (24 hr)	BAC (g/dl)	+/-
1730	0.000	+/- 0.000
1748	0.013	+/- 0.001
1806	0.028	+/- 0.002
1824	0.041	+/- 0.002
1842	0.052	+/- 0.001
1900	0.066	+/- 0.001
1918	0.082	+/- 0.004
1936	0.096	+/- 0.006
1954	0.111	+/- 0.004
2012	0.121	+/- 0.005
2030	0.119	+/- 0.005
2048	0.115	+/- 0.005
2106	0.110	+/- 0.005
2124	0.105	+/- 0.005
2142	0.099	+/- 0.005
2200	0.094	+/- 0.005
2218	0.089	+/- 0.005
2236	0.084	+/- 0.005
2254	0.079	+/- 0.005
2312	0.073	+/- 0.005
2330	0.068	+/- 0.005

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> 0.094		<u>BAC at Time of Interest:</u> 0.094		<u>BAC at Time of Interest:</u> 0.094	
<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	0.012	1748	0.013	1748	0.011
1806	0.027	1806	0.028	1806	0.025
1824	0.041	1824	0.041	1824	0.040
1842	0.054	1842	0.052	1842	0.054
1900	0.066	1900	0.066	1900	0.068
1918	0.080	1918	0.082	1918	0.082
1936	0.095	1936	0.096	1936	0.095
1954	0.112	1954	0.111	1954	0.112
2012	0.121	2012	0.121	2012	0.121
2030	0.119	2030	0.119	2030	0.119
2048	0.115	2048	0.115	2048	0.115
2106	0.110	2106	0.110	2106	0.110
2124	0.105	2124	0.105	2124	0.105
2142	0.100	2142	0.099	2142	0.100
2200	0.094	2200	0.094	2200	0.094
2218	0.089	2218	0.089	2218	0.089
2236	0.084	2236	0.084	2236	0.084
2254	0.079	2254	0.079	2254	0.079
2312	0.073	2312	0.073	2312	0.073
2330	0.068	2330	0.068	2330	0.068

<u>BAC at Time of Interest:</u> 0.094		<u>BAC at Time of Interest:</u> 0.094		<u>BAC at Time of Interest:</u> 0.094	
<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	0.013	1748	0.012	1748	0.012
1806	0.028	1806	0.027	1806	0.026
1824	0.041	1824	0.041	1824	0.041
1842	0.052	1842	0.054	1842	0.054
1900	0.066	1900	0.067	1900	0.067
1918	0.082	1918	0.080	1918	0.081
1936	0.096	1936	0.095	1936	0.095
1954	0.111	1954	0.112	1954	0.112
2012	0.121	2012	0.121	2012	0.121
2030	0.119	2030	0.119	2030	0.119
2048	0.115	2048	0.115	2048	0.115
2106	0.110	2106	0.110	2106	0.110
2124	0.105	2124	0.105	2124	0.105
2142	0.099	2142	0.099	2142	0.100
2200	0.094	2200	0.094	2200	0.094
2218	0.089	2218	0.089	2218	0.089
2236	0.084	2236	0.084	2236	0.084
2254	0.079	2254	0.078	2254	0.079
2312	0.073	2312	0.073	2312	0.073
2330	0.068	2330	0.068	2330	0.068

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.

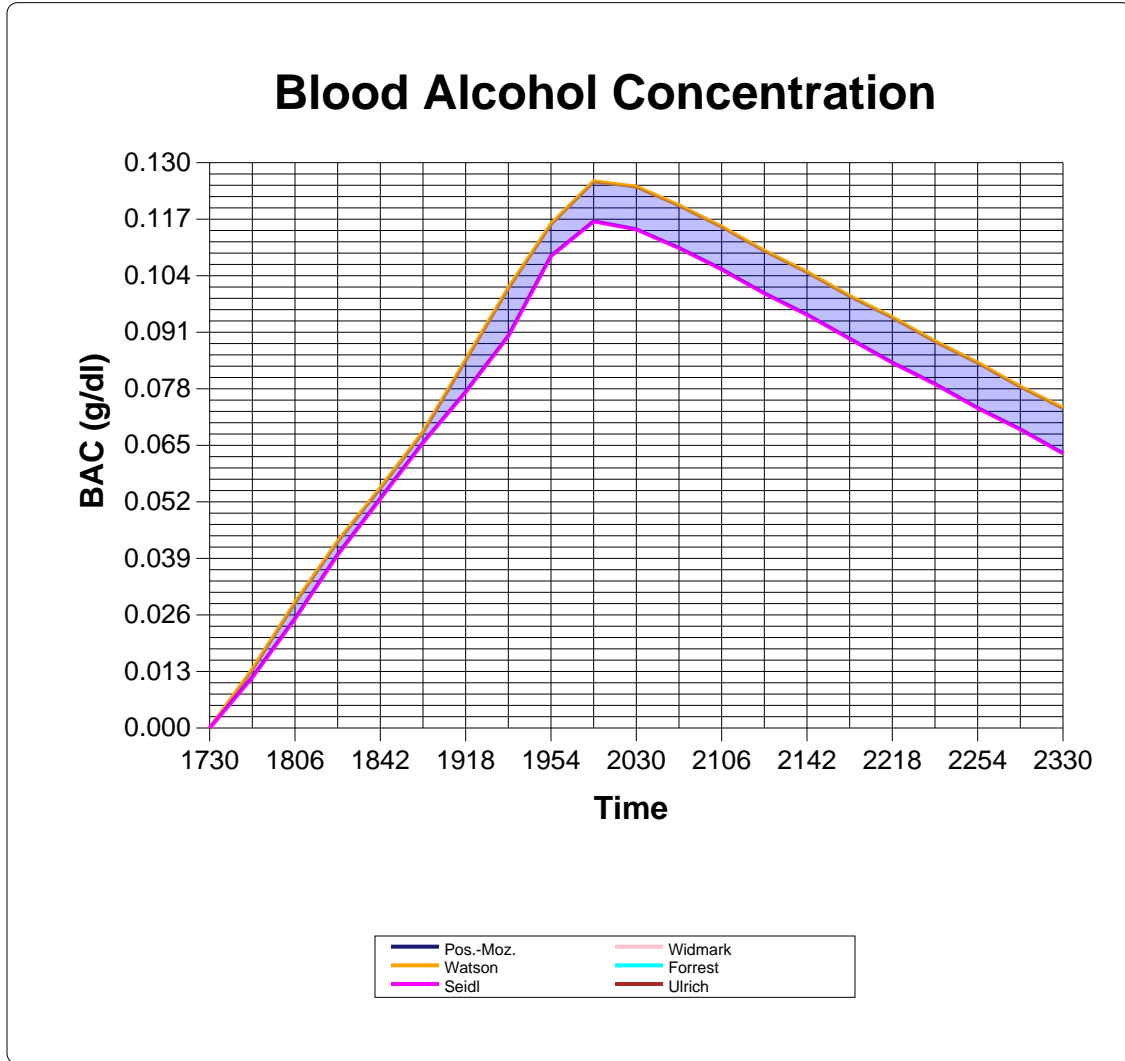
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Chart Generated

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