

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	0.004

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

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

Formula	Volume	+/-
Pos.-Moz.	4.391	0.000
Watson	4.149	0.000
Seidl	4.696	0.000
Widmark	4.185	0.000
Forrest	4.412	0.000
Ulrich	4.516	0.000

Standard Drink Information

Formula	Standard Drinks	+/-
Pos.-Moz.	7.318	0.000
Watson	6.916	0.000
Seidl	7.826	0.000
Widmark	6.975	0.000
Forrest	7.353	0.000
Ulrich	7.527	0.000

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): 0.102
 Range: 0.018
 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

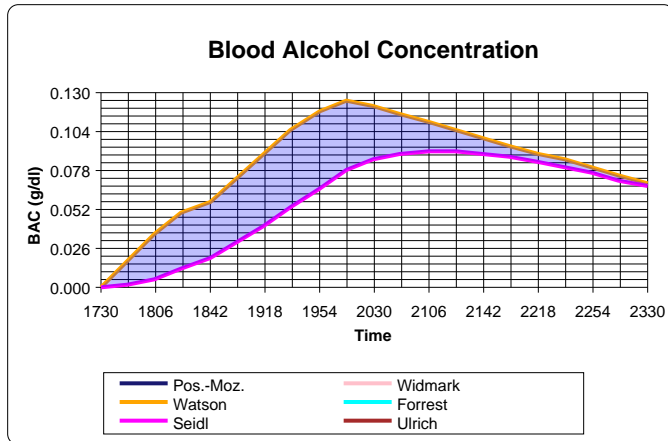
One drink is equivalent to 0.6 oz of ethanol (100% alc/vol)

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	0.030	+/- 0.019
1842	0.038	+/- 0.018
1900	0.051	+/- 0.021
1918	0.065	+/- 0.024
1936	0.078	+/- 0.026
1954	0.090	+/- 0.026
2012	0.100	+/- 0.024
2030	0.102	+/- 0.018
2048	0.102	+/- 0.013
2106	0.100	+/- 0.010
2124	0.097	+/- 0.007
2142	0.094	+/- 0.005
2200	0.090	+/- 0.004
2218	0.086	+/- 0.003
2236	0.081	+/- 0.002
2254	0.077	+/- 0.002
2312	0.072	+/- 0.001
2330	0.067	+/- 0.001

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>		<u>BAC at Time of Interest:</u>		<u>BAC at Time of Interest:</u>	
0.090		0.090		0.090	
<u>Pos.-Moz.</u>	<u>Doe, John</u>	<u>Watson</u>	<u>Doe, John</u>	<u>Seidl</u>	<u>Doe, John</u>
<u>Male</u>	<u>Doe, John</u>	<u>Male</u>	<u>Doe, John</u>	<u>Male</u>	<u>Doe, John</u>
<u>Time (24 hr)</u>	<u>BAC (g/dl)</u>	<u>Time (24 hr)</u>	<u>BAC (g/dl)</u>	<u>Time (24 hr)</u>	<u>BAC (g/dl)</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	0.017
1824	0.030	1824	0.030	1824	0.029
1842	0.041	1842	0.038	1842	0.040
1900	0.050	1900	0.051	1900	0.053
1918	0.062	1918	0.065	1918	0.065
1936	0.077	1936	0.078	1936	0.077
1954	0.093	1954	0.090	1954	0.092
2012	0.101	2012	0.100	2012	0.101
2030	0.102	2030	0.102	2030	0.102
2048	0.102	2048	0.102	2048	0.102
2106	0.100	2106	0.100	2106	0.100
2124	0.097	2124	0.097	2124	0.097
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	0.081	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>		<u>BAC at Time of Interest:</u>		<u>BAC at Time of Interest:</u>	
0.090		0.090		0.090	
<u>Widmark</u>	<u>Doe, John</u>	<u>Forrest</u>	<u>Doe, John</u>	<u>Ulrich</u>	<u>Doe, John</u>
<u>Male</u>	<u>Doe, John</u>	<u>Male</u>	<u>Doe, John</u>	<u>Male</u>	<u>Doe, John</u>
<u>Time (24 hr)</u>	<u>BAC (g/dl)</u>	<u>Time (24 hr)</u>	<u>BAC (g/dl)</u>	<u>Time (24 hr)</u>	<u>BAC (g/dl)</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	0.019
1824	0.030	1824	0.030	1824	0.030
1842	0.039	1842	0.041	1842	0.041
1900	0.050	1900	0.051	1900	0.052
1918	0.065	1918	0.062	1918	0.062
1936	0.078	1936	0.077	1936	0.076
1954	0.090	1954	0.093	1954	0.093
2012	0.100	2012	0.101	2012	0.101
2030	0.102	2030	0.102	2030	0.102
2048	0.102	2048	0.102	2048	0.102
2106	0.100	2106	0.100	2106	0.100
2124	0.097	2124	0.097	2124	0.097
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.

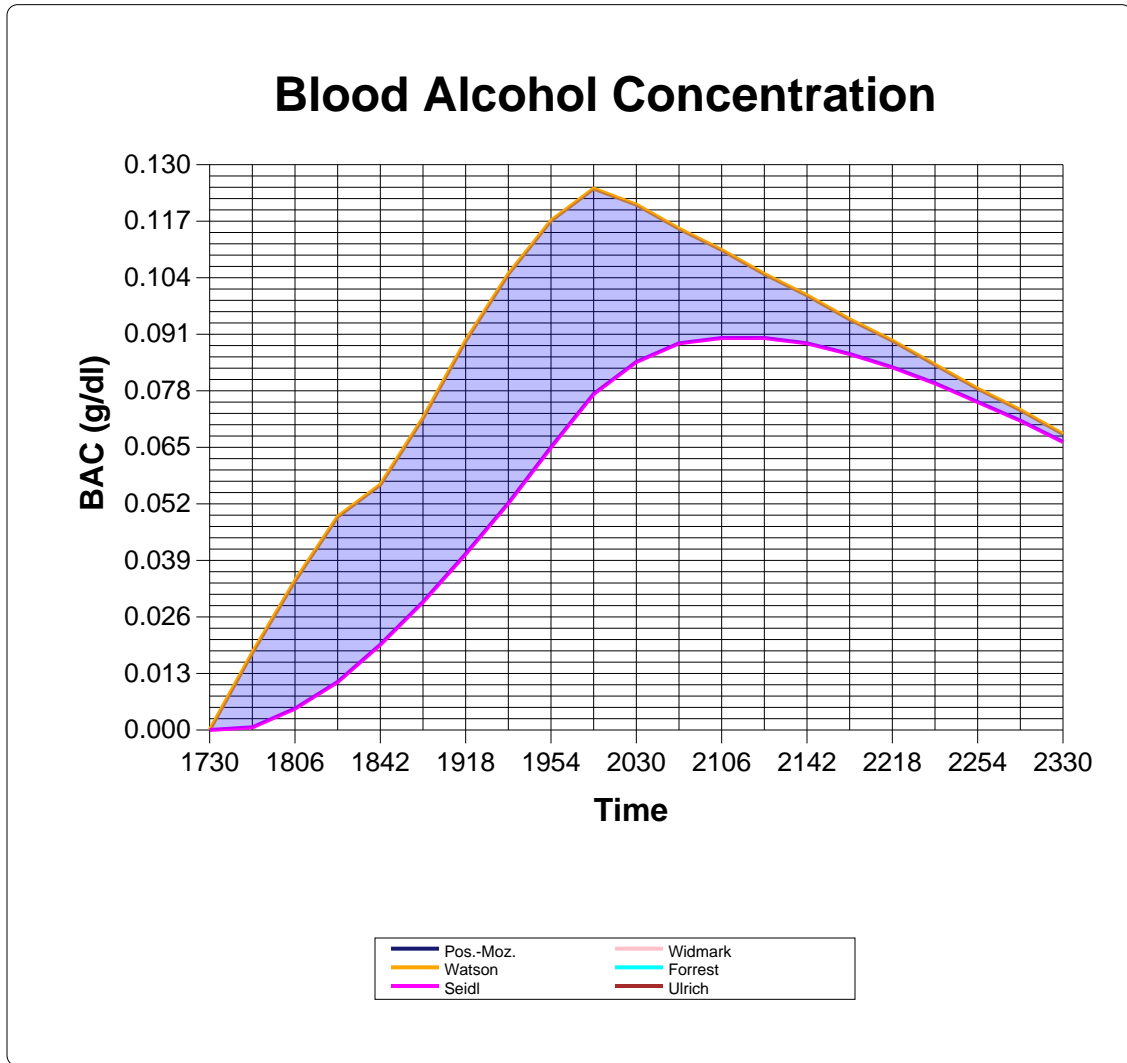
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Chart Generated

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