

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	0.000

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

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

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

Standard Drink Information

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

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): 0.120
 Range: 0.000
 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

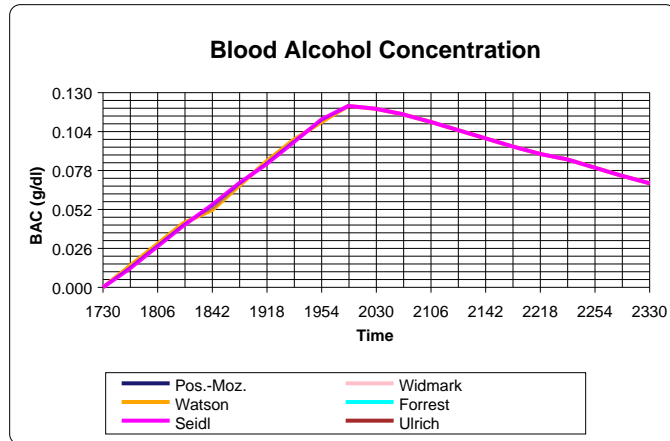
One drink is equivalent to 0.6 oz of ethanol (100% alc/vol)

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	+/- 0.001
1824	0.041	+/- 0.001
1842	0.051	+/- 0.002
1900	0.067	+/- 0.001
1918	0.082	+/- 0.000
1936	0.097	+/- 0.001
1954	0.110	+/- 0.001
2012	0.120	+/- 0.000
2030	0.119	+/- 0.000
2048	0.115	+/- 0.000
2106	0.110	+/- 0.000
2124	0.105	+/- 0.000
2142	0.099	+/- 0.000
2200	0.094	+/- 0.000
2218	0.089	+/- 0.000
2236	0.084	+/- 0.000
2254	0.078	+/- 0.000
2312	0.073	+/- 0.000
2330	0.068	+/- 0.000

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	0.055	1842	0.051	1842	0.054
1900	0.065	1900	0.067	1900	0.069
1918	0.080	1918	0.082	1918	0.082
1936	0.096	1936	0.097	1936	0.095
1954	0.113	1954	0.110	1954	0.112
2012	0.121	2012	0.120	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	0.078	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	0.055	1842	0.055
1900	0.066	1900	0.066	1900	0.068
1918	0.082	1918	0.080	1918	0.080
1936	0.097	1936	0.096	1936	0.094
1954	0.109	1954	0.113	1954	0.113
2012	0.120	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	0.100	2142	0.099
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	0.078
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.

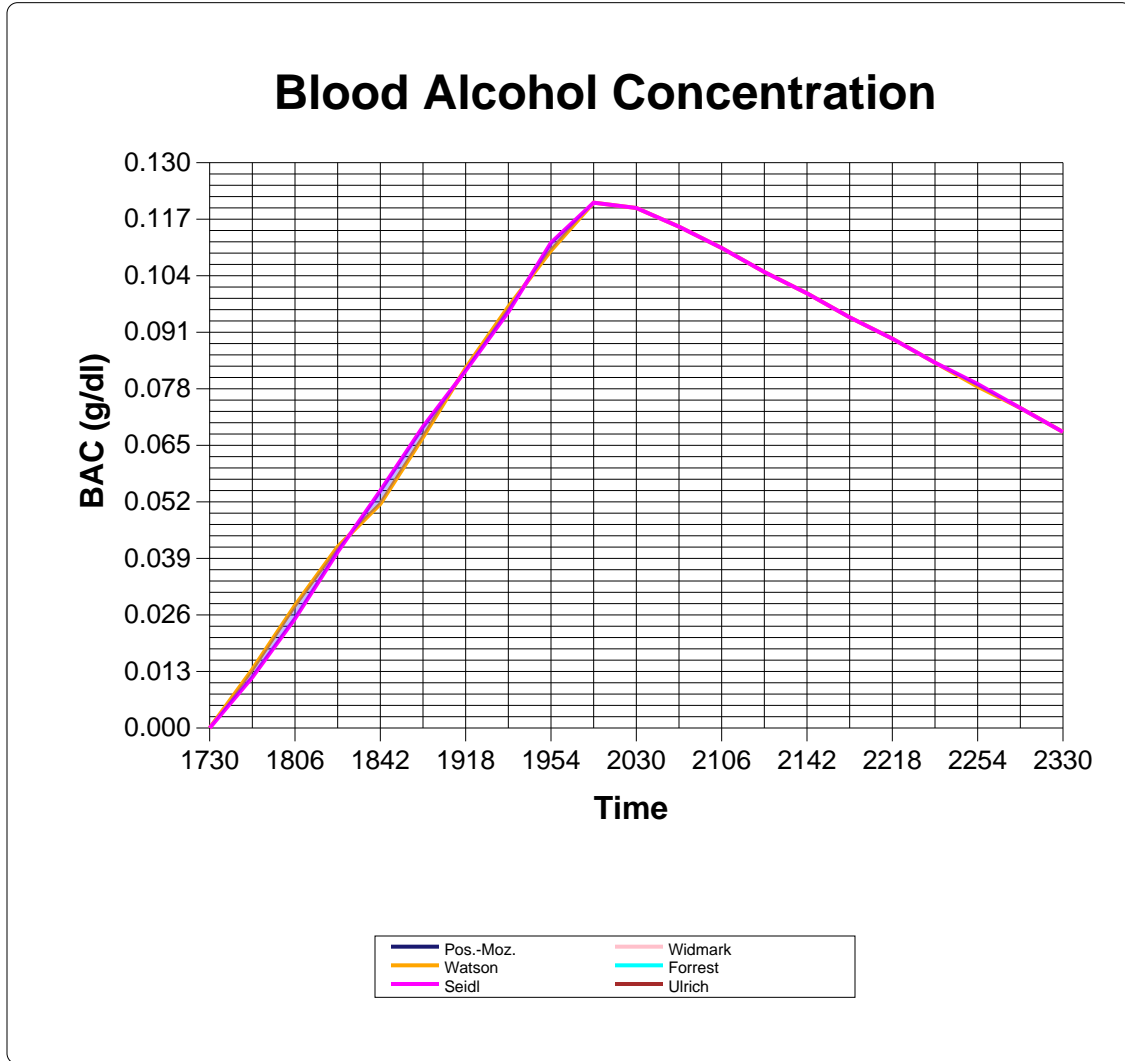
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Chart Generated

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