

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	0.091	0.019

<u>Elimination Range (g/dl/hr)</u>		
Low Range	High Range	Avg.
0.010	0.025	0.018

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

<u>Formula</u>	<u>Volume</u>	<u>+/-</u>
Pos.-Moz.	4.391	1.269
Watson	4.149	1.199
Seidl	4.696	1.357
Widmark	4.185	1.210
Forrest	4.412	1.275
Ulrich	4.516	1.305

Standard Drink Information

<u>Formula</u>	<u>Standard Drinks</u>	<u>+/-</u>
Pos.-Moz.	7.318	2.115
Watson	6.916	1.999
Seidl	7.826	2.262
Widmark	6.975	2.016
Forrest	7.353	2.125
Ulrich	7.527	2.175

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):	0.107
Range:	0.041
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

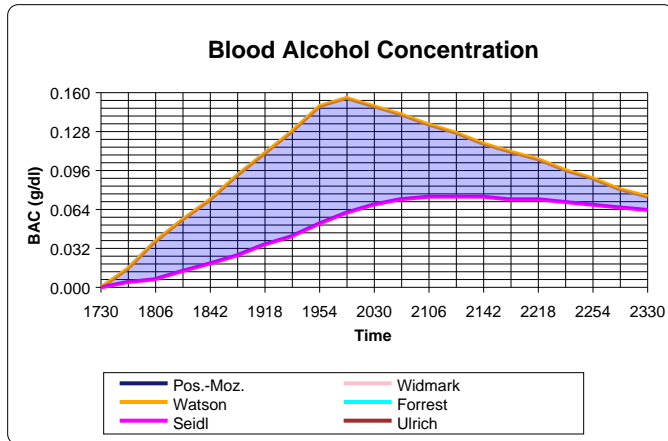
One drink is equivalent to 0.6 oz of ethanol (100% alc/vol)

BAC (g/dl) at Time of Interest: 0.091

Male

<u>Time (24 hr)</u>	<u>BAC (g/dl)</u>	<u>+/-</u>
1730	0.000	+/- 0.000
1748	0.009	+/- 0.006
1806	0.020	+/- 0.015
1824	0.033	+/- 0.021
1842	0.044	+/- 0.026
1900	0.059	+/- 0.033
1918	0.071	+/- 0.038
1936	0.084	+/- 0.043
1954	0.099	+/- 0.048
2012	0.107	+/- 0.047
2030	0.107	+/- 0.041
2048	0.105	+/- 0.035
2106	0.103	+/- 0.030
2124	0.099	+/- 0.026
2142	0.095	+/- 0.023
2200	0.091	+/- 0.019
2218	0.087	+/- 0.016
2236	0.082	+/- 0.014
2254	0.077	+/- 0.011
2312	0.072	+/- 0.008
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> 0.091		<u>BAC at Time of Interest:</u> 0.091		<u>BAC at Time of Interest:</u> 0.091	
<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	0.010	1748	0.009	1748	0.011
1806	0.022	1806	0.020	1806	0.022
1824	0.034	1824	0.033	1824	0.034
1842	0.047	1842	0.044	1842	0.046
1900	0.060	1900	0.059	1900	0.058
1918	0.072	1918	0.071	1918	0.070
1936	0.086	1936	0.084	1936	0.085
1954	0.101	1954	0.099	1954	0.100
2012	0.107	2012	0.107	2012	0.108
2030	0.107	2030	0.107	2030	0.107
2048	0.105	2048	0.105	2048	0.106
2106	0.103	2106	0.103	2106	0.103
2124	0.099	2124	0.099	2124	0.099
2142	0.096	2142	0.095	2142	0.096
2200	0.091	2200	0.091	2200	0.091
2218	0.087	2218	0.087	2218	0.087
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> 0.091		<u>BAC at Time of Interest:</u> 0.091		<u>BAC at Time of Interest:</u> 0.091	
<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	0.011	1748	0.011
1806	0.020	1806	0.022	1806	0.022
1824	0.033	1824	0.035	1824	0.035
1842	0.045	1842	0.047	1842	0.047
1900	0.058	1900	0.060	1900	0.059
1918	0.071	1918	0.072	1918	0.072
1936	0.085	1936	0.085	1936	0.084
1954	0.098	1954	0.101	1954	0.101
2012	0.107	2012	0.107	2012	0.108
2030	0.107	2030	0.107	2030	0.107
2048	0.105	2048	0.106	2048	0.106
2106	0.103	2106	0.103	2106	0.103
2124	0.099	2124	0.099	2124	0.099
2142	0.095	2142	0.096	2142	0.096
2200	0.091	2200	0.091	2200	0.091
2218	0.087	2218	0.087	2218	0.087
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.

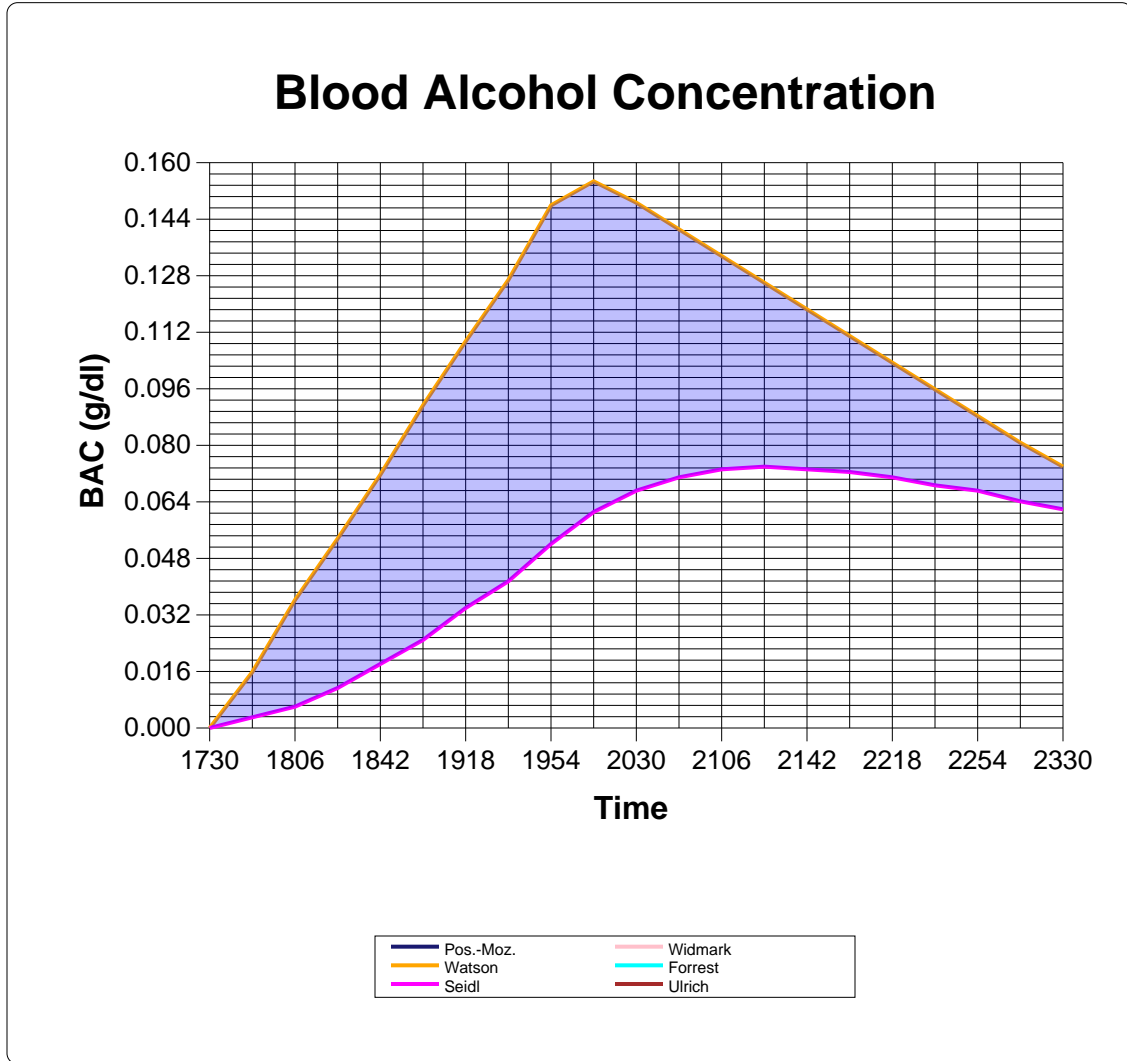
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Chart Generated

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