

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	0.011

<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	1.142
Watson	4.149	1.079
Seidl	4.696	1.221
Widmark	4.185	1.089
Forrest	4.412	1.148
Ulrich	4.516	1.175

Standard Drink Information

<u>Formula</u>	<u>Standard Drinks</u>	<u>+/-</u>
Pos.-Moz.	7.318	1.903
Watson	6.916	1.799
Seidl	7.826	2.036
Widmark	6.975	1.814
Forrest	7.353	1.913
Ulrich	7.527	1.958

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:	0.024
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

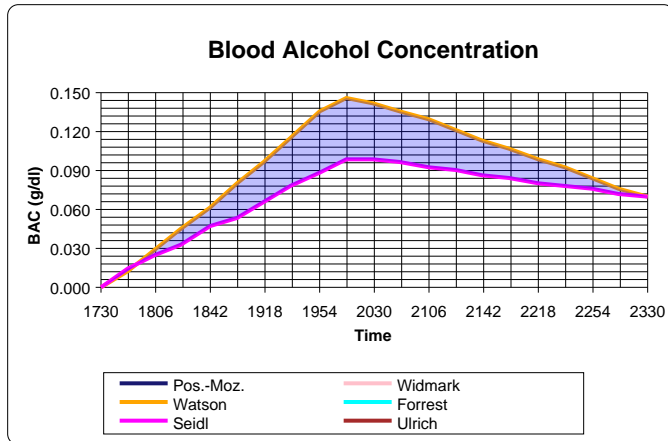
One drink is equivalent to 0.6 oz of ethanol (100% alc/vol)

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

Male

<u>Time (24 hr)</u>	<u>BAC (g/dl)</u>	<u>+/-</u>
1730	0.000	+/- 0.000
1748	0.013	+/- 0.001
1806	0.024	+/- 0.002
1824	0.039	+/- 0.006
1842	0.052	+/- 0.008
1900	0.067	+/- 0.013
1918	0.080	+/- 0.015
1936	0.094	+/- 0.018
1954	0.111	+/- 0.024
2012	0.121	+/- 0.024
2030	0.119	+/- 0.022
2048	0.115	+/- 0.020
2106	0.110	+/- 0.018
2124	0.105	+/- 0.016
2142	0.099	+/- 0.014
2200	0.094	+/- 0.011
2218	0.089	+/- 0.009
2236	0.084	+/- 0.007
2254	0.079	+/- 0.005
2312	0.073	+/- 0.002
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

Retrograde Alcohol Extrapolation Report

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

Report Generated 9/21/2011

<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	0.013	1748	0.013	1748	0.013
1806	0.025	1806	0.024	1806	0.026
1824	0.040	1824	0.039	1824	0.039
1842	0.055	1842	0.052	1842	0.055
1900	0.067	1900	0.067	1900	0.067
1918	0.083	1918	0.080	1918	0.081
1936	0.094	1936	0.094	1936	0.095
1954	0.113	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	0.099
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

<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	0.013	1748	0.013
1806	0.024	1806	0.025	1806	0.026
1824	0.039	1824	0.039	1824	0.040
1842	0.052	1842	0.054	1842	0.055
1900	0.066	1900	0.067	1900	0.067
1918	0.080	1918	0.083	1918	0.083
1936	0.093	1936	0.094	1936	0.095
1954	0.111	1954	0.113	1954	0.113
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.

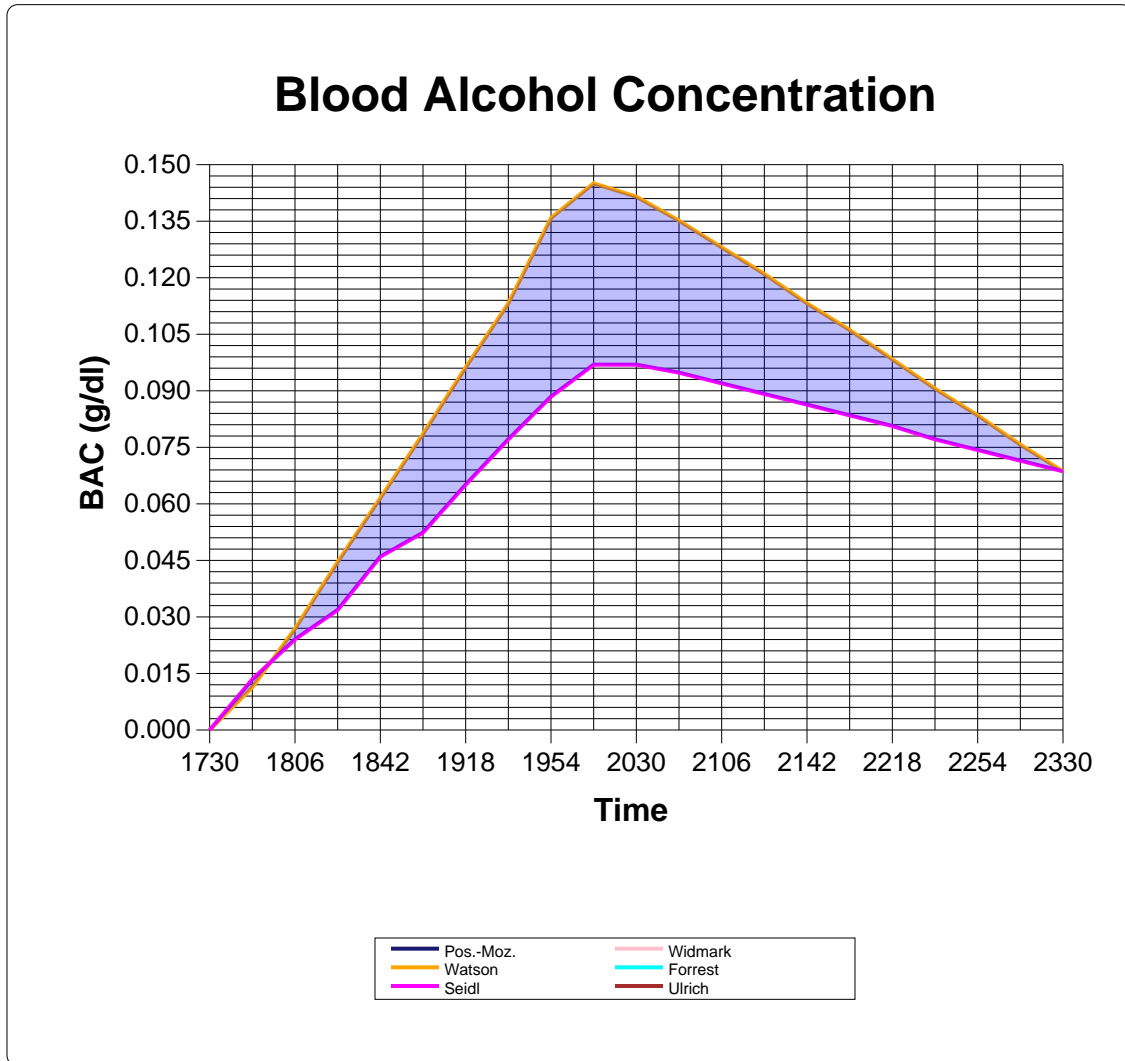
Retrograde Alcohol Extrapolation Report

Organization:
Reference ID#

BAC Tracker International, Inc.
2011-BAC-0001

Chart Generated

9/21/2011



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.