

# Retrograde Alcohol Extrapolation Report

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

**Report Generated** 9/21/2011

## Subject Information

<b>Name:</b> Doe, John	<b>Weight (lb):</b> 183
<b>Age:</b> 29	<b>Height (in):</b> 72
<b>Gender:</b> Male	

## Drink Consumption Information

Time of Interest (24hrs)	BAC (g/dl)	Range (+/-)
2200	0.094	0.016

<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:	<b>0.680</b>	<b>0.194</b>
Watson:	<b>0.674</b>	<b>0.196</b>
Forrest:	<b>0.717</b>	<b>0.184</b>
Seidl:	<b>0.763</b>	<b>0.173</b>
Ulrich:	<b>0.734</b>	<b>0.180</b>
Pos.-Moz.:	<b>0.713</b>	<b>0.185</b>

### Peak Alcohol Concentration

Peak BAC (g/dl):	0.120
Range:	0.029
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

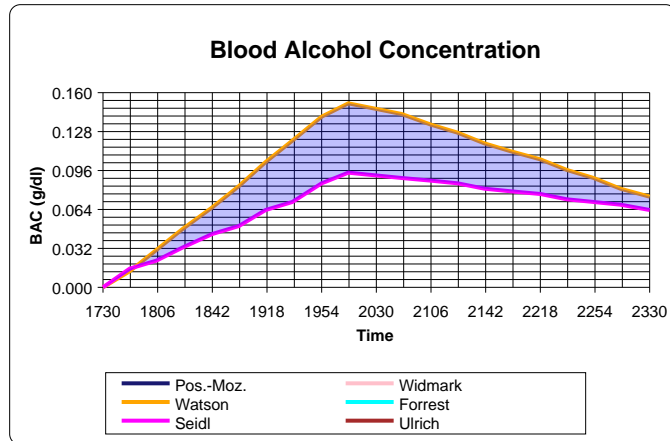
One drink is equivalent to 0.6 oz of ethanol (100% alc/vol)

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

Male

<u>Time (24 hr)</u>	<u>BAC (g/dl)</u>	<u>+/-</u>
1730	0.000	+/- 0.000
1748	0.013	+/- 0.001
1806	0.023	+/- 0.004
1824	0.040	+/- 0.008
1842	0.050	+/- 0.010
1900	0.068	+/- 0.017
1918	0.079	+/- 0.019
1936	0.096	+/- 0.024
1954	0.109	+/- 0.027
2012	0.120	+/- 0.029
2030	0.119	+/- 0.027
2048	0.115	+/- 0.025
2106	0.110	+/- 0.023
2124	0.105	+/- 0.021
2142	0.099	+/- 0.019
2200	0.094	+/- 0.016
2218	0.089	+/- 0.014
2236	0.084	+/- 0.012
2254	0.079	+/- 0.010
2312	0.073	+/- 0.007
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	0.013	1748	0.013	1748	0.013
1806	0.025	1806	0.023	1806	0.026
1824	0.040	1824	0.040	1824	0.040
1842	0.054	1842	0.050	1842	0.055
1900	0.068	1900	0.068	1900	0.066
1918	0.082	1918	0.079	1918	0.081
1936	0.095	1936	0.096	1936	0.095
1954	0.112	1954	0.109	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	0.079	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	0.014	1748	0.013
1806	0.024	1806	0.025	1806	0.026
1824	0.040	1824	0.041	1824	0.040
1842	0.051	1842	0.054	1842	0.055
1900	0.068	1900	0.068	1900	0.068
1918	0.080	1918	0.083	1918	0.083
1936	0.096	1936	0.095	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	0.100
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	0.078	2254	0.079	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.*

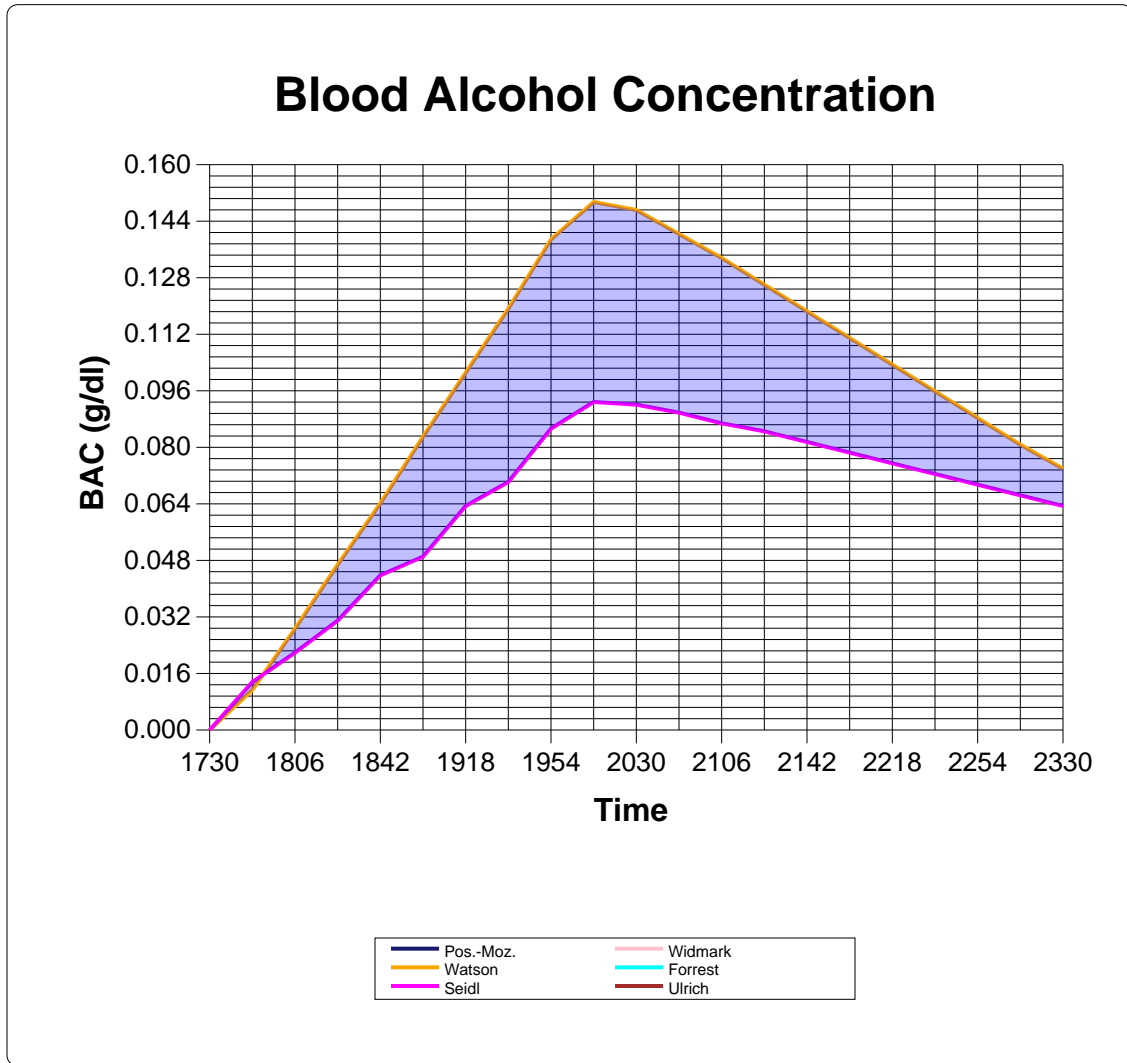
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Chart Generated

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