

Retrograde Alcohol Extrapolation Report

Organization: BAC Tracker International, Inc.
Reference ID# 0000-0000

Report Generated 1/26/2013

Subject Information

Name: Doe, John	Weight (lb): 192
Age: 37	Height (in): 72
Gender: Male	

Drink Consumption Information

Time of Interest (24hrs)	BAC (g/dl)	Range (+/-)
2240	0.086	0.018

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

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

<u>Formula</u>	<u>Volume</u>	<u>+/-</u>
Pos.-Moz.	3.824	1.140
Watson	3.565	1.063
Seidl	4.071	1.214
Widmark	3.725	1.110
Forrest	3.845	1.146
Ulrich	3.916	1.168

Standard Drink Information

<u>Formula</u>	<u>Standard Drinks</u>	<u>+/-</u>
Pos.-Moz.	6.373	1.900
Watson	5.942	1.772
Seidl	6.786	2.023
Widmark	6.208	1.851
Forrest	6.409	1.911
Ulrich	6.527	1.946

Volume Distribution

Widmark: **0.680**
 Watson: **0.651**
 Forrest: **0.702**
 Seidl: **0.743**
 Ulrich: **0.715**
 Pos.-Moz.: **0.698**

Peak Alcohol Concentration

Peak BAC (g/dl): 0.091
 Range: 0.021
 Peak Time(24hr): 2211

Known Case Data Information

Time of First Drink (24hrs):	1915
Time of Last Drink (24hrs):	2150
Time of Known BAC (24hrs):	2345
Known BAC (g/dl):	0.068
Analytical Method QA/QC Range (+/-):	0.01

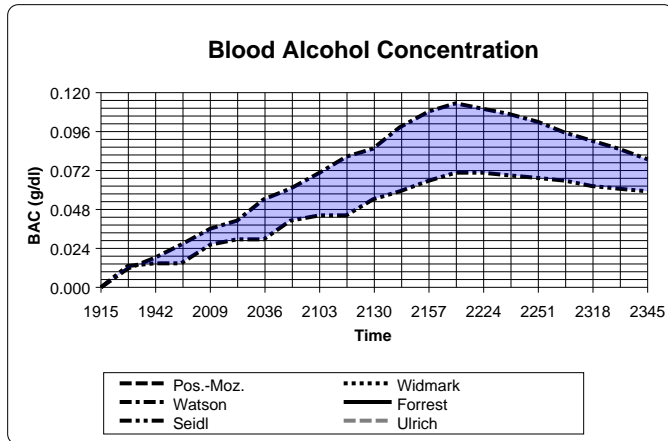
One drink is equivalent to 0.6 oz of ethanol (100% alc/vol)

BAC (g/dl) at Time of Interest: 0.086

Male

<u>Time (24 hr)</u>	<u>BAC (g/dl)</u>	<u>+/-</u>
1915	0.000	+/- 0.000
1929	0.011	+/- 0.001
1942	0.012	+/- 0.001
1956	0.024	+/- 0.005
2009	0.027	+/- 0.005
2023	0.037	+/- 0.006
2036	0.041	+/- 0.012
2050	0.048	+/- 0.014
2103	0.056	+/- 0.013
2117	0.062	+/- 0.014
2130	0.069	+/- 0.016
2144	0.075	+/- 0.019
2157	0.086	+/- 0.022
2211	0.091	+/- 0.021
2224	0.090	+/- 0.020
2238	0.087	+/- 0.019
2251	0.084	+/- 0.017
2305	0.080	+/- 0.015
2318	0.076	+/- 0.014
2332	0.072	+/- 0.012
2345	0.068	+/- 0.010

Extrapolation Information



Absorption Rate Constant "k" (Uemura et al 2005)

Slow Absorption Rate
2.5

Fast Absorption Rate
6.5

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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>	
0.086		0.086		0.086	
<u>Pos.-Moz.</u>	<u>Male</u>	<u>Watson</u>	<u>Male</u>	<u>Seidl</u>	<u>Male</u>
<u>Time (24 hr)</u>	<u>Doe, John</u>	<u>Time (24 hr)</u>	<u>Doe, John</u>	<u>Time (24 hr)</u>	<u>Doe, John</u>
	<u>BAC (g/dl)</u>		<u>BAC (g/dl)</u>		<u>BAC (g/dl)</u>
1915	0.000	1915	0.000	1915	0.000
1929	0.011	1929	0.012	1929	0.010
1942	0.016	1942	0.017	1942	0.015
1956	0.019	1956	0.021	1956	0.018
2009	0.030	2009	0.029	2009	0.029
2023	0.036	2023	0.036	2023	0.036
2036	0.041	2036	0.043	2036	0.039
2050	0.049	2050	0.046	2050	0.050
2103	0.057	2103	0.057	2103	0.057
2117	0.063	2117	0.065	2117	0.061
2130	0.067	2130	0.068	2130	0.070
2144	0.076	2144	0.075	2144	0.078
2157	0.087	2157	0.086	2157	0.086
2211	0.091	2211	0.091	2211	0.091
2224	0.090	2224	0.090	2224	0.090
2238	0.087	2238	0.087	2238	0.087
2251	0.084	2251	0.084	2251	0.084
2305	0.080	2305	0.080	2305	0.080
2318	0.076	2318	0.076	2318	0.076
2332	0.072	2332	0.072	2332	0.072
2345	0.068	2345	0.068	2345	0.068

<u>BAC at Time of Interest:</u>		<u>BAC at Time of Interest:</u>		<u>BAC at Time of Interest:</u>	
0.086		0.086		0.086	
<u>Widmark</u>	<u>Male</u>	<u>Forrest</u>	<u>Male</u>	<u>Ulrich</u>	<u>Male</u>
<u>Time (24 hr)</u>	<u>Doe, John</u>	<u>Time (24 hr)</u>	<u>Doe, John</u>	<u>Time (24 hr)</u>	<u>Doe, John</u>
	<u>BAC (g/dl)</u>		<u>BAC (g/dl)</u>		<u>BAC (g/dl)</u>
1915	0.000	1915	0.000	1915	0.000
1929	0.011	1929	0.011	1929	0.011
1942	0.016	1942	0.016	1942	0.016
1956	0.020	1956	0.019	1956	0.018
2009	0.030	2009	0.030	2009	0.030
2023	0.036	2023	0.037	2023	0.037
2036	0.042	2036	0.041	2036	0.040
2050	0.048	2050	0.050	2050	0.050
2103	0.056	2103	0.056	2103	0.057
2117	0.063	2117	0.062	2117	0.061
2130	0.067	2130	0.068	2130	0.070
2144	0.077	2144	0.077	2144	0.078
2157	0.087	2157	0.087	2157	0.087
2211	0.091	2211	0.091	2211	0.091
2224	0.090	2224	0.090	2224	0.090
2238	0.087	2238	0.087	2238	0.087
2251	0.084	2251	0.084	2251	0.084
2305	0.080	2305	0.080	2305	0.080
2318	0.076	2318	0.076	2318	0.076
2332	0.072	2332	0.072	2332	0.072
2345	0.068	2345	0.068	2345	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.

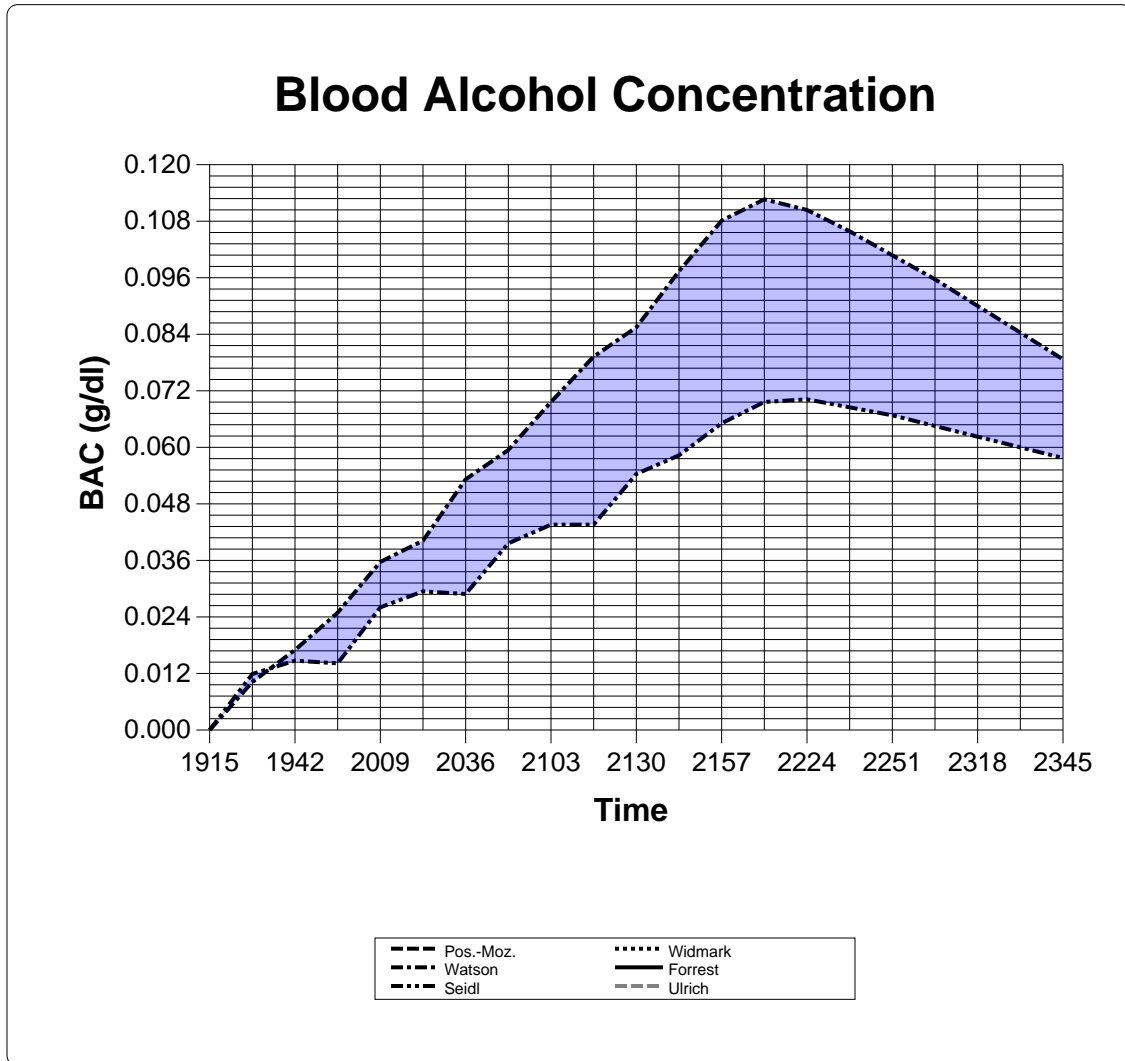
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Chart Generated

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