

# Retrograde Alcohol Extrapolation Report

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

**Report Generated** 1/26/2013

## Subject Information

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

## Drink Consumption Information

Time of Interest (24hrs)	BAC (g/dl)	Range (+/-)
2240	0.085	0.012

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

### Volume Distribution

Widmark:	<b>0.680</b>
Watson:	<b>0.651</b>
Forrest:	<b>0.702</b>
Seidl:	<b>0.743</b>
Ulrich:	<b>0.715</b>
Pos.-Moz.:	<b>0.698</b>

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

<u>Formula</u>	<u>Volume</u>	<u>+/-</u>
Pos.-Moz.	3.824	0.261
Watson	3.565	0.243
Seidl	4.071	0.277
Widmark	3.725	0.254
Forrest	3.845	0.262
Ulrich	3.916	0.267

### Standard Drink Information

<u>Formula</u>	<u>Standard Drinks</u>	<u>+/-</u>
Pos.-Moz.	6.373	0.434
Watson	5.942	0.405
Seidl	6.786	0.462
Widmark	6.208	0.423
Forrest	6.409	0.437
Ulrich	6.527	0.445

### Peak Alcohol Concentration

Peak BAC (g/dl):	0.088
Range:	0.015
Peak Time(24hr):	2211

### Known Case Data Information

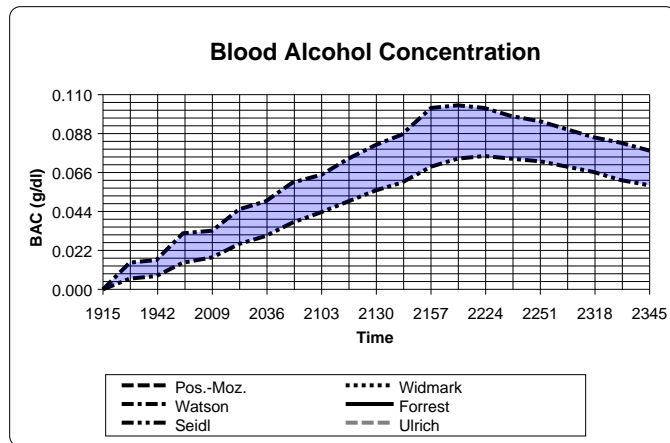
Time of First Drink (24hrs):	1915
Time of Last Drink (24hrs):	2150
Time of Known BAC (24hrs):	2345
Known BAC (g/dl):	0.068
Analytical Method QA/QC Range (+/-):	0.01

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

**BAC (g/dl) at Time of Interest:** 0.085

Male		
<u>Time (24 hr)</u>	<u>BAC (g/dl)</u>	<u>+/-</u>
1915	0.000	+/- 0.000
1929	0.010	+/- 0.005
1942	0.011	+/- 0.004
1956	0.022	+/- 0.008
2009	0.025	+/- 0.007
2023	0.035	+/- 0.011
2036	0.039	+/- 0.009
2050	0.047	+/- 0.011
2103	0.054	+/- 0.011
2117	0.061	+/- 0.012
2130	0.068	+/- 0.013
2144	0.074	+/- 0.014
2157	0.083	+/- 0.016
2211	0.088	+/- 0.015
2224	0.087	+/- 0.013
2238	0.085	+/- 0.012
2251	0.082	+/- 0.011
2305	0.079	+/- 0.011
2318	0.075	+/- 0.010
2332	0.072	+/- 0.010
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> 0.085		<u>BAC at Time of Interest:</u> 0.085		<u>BAC at Time of Interest:</u> 0.085	
<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>	
1915	0.000	1915	0.000	1915	0.000
1929	0.010	1929	0.011	1929	0.009
1942	0.011	1942	0.012	1942	0.012
1956	0.022	1956	0.022	1956	0.021
2009	0.025	2009	0.026	2009	0.026
2023	0.034	2023	0.034	2023	0.034
2036	0.039	2036	0.040	2036	0.041
2050	0.047	2050	0.048	2050	0.047
2103	0.052	2103	0.053	2103	0.055
2117	0.061	2117	0.062	2117	0.060
2130	0.067	2130	0.066	2130	0.069
2144	0.075	2144	0.074	2144	0.072
2157	0.083	2157	0.085	2157	0.085
2211	0.088	2211	0.089	2211	0.089
2224	0.088	2224	0.088	2224	0.088
2238	0.085	2238	0.086	2238	0.086
2251	0.083	2251	0.083	2251	0.083
2305	0.079	2305	0.079	2305	0.079
2318	0.075	2318	0.075	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> 0.085		<u>BAC at Time of Interest:</u> 0.085		<u>BAC at Time of Interest:</u> 0.085	
<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>	
1915	0.000	1915	0.000	1915	0.000
1929	0.010	1929	0.010	1929	0.010
1942	0.011	1942	0.011	1942	0.012
1956	0.022	1956	0.022	1956	0.022
2009	0.025	2009	0.025	2009	0.026
2023	0.034	2023	0.034	2023	0.034
2036	0.039	2036	0.039	2036	0.040
2050	0.047	2050	0.047	2050	0.047
2103	0.052	2103	0.053	2103	0.054
2117	0.062	2117	0.060	2117	0.060
2130	0.065	2130	0.066	2130	0.068
2144	0.076	2144	0.075	2144	0.074
2157	0.084	2157	0.083	2157	0.083
2211	0.088	2211	0.088	2211	0.088
2224	0.088	2224	0.088	2224	0.088
2238	0.085	2238	0.085	2238	0.085
2251	0.083	2251	0.082	2251	0.083
2305	0.079	2305	0.079	2305	0.079
2318	0.075	2318	0.075	2318	0.075
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.*

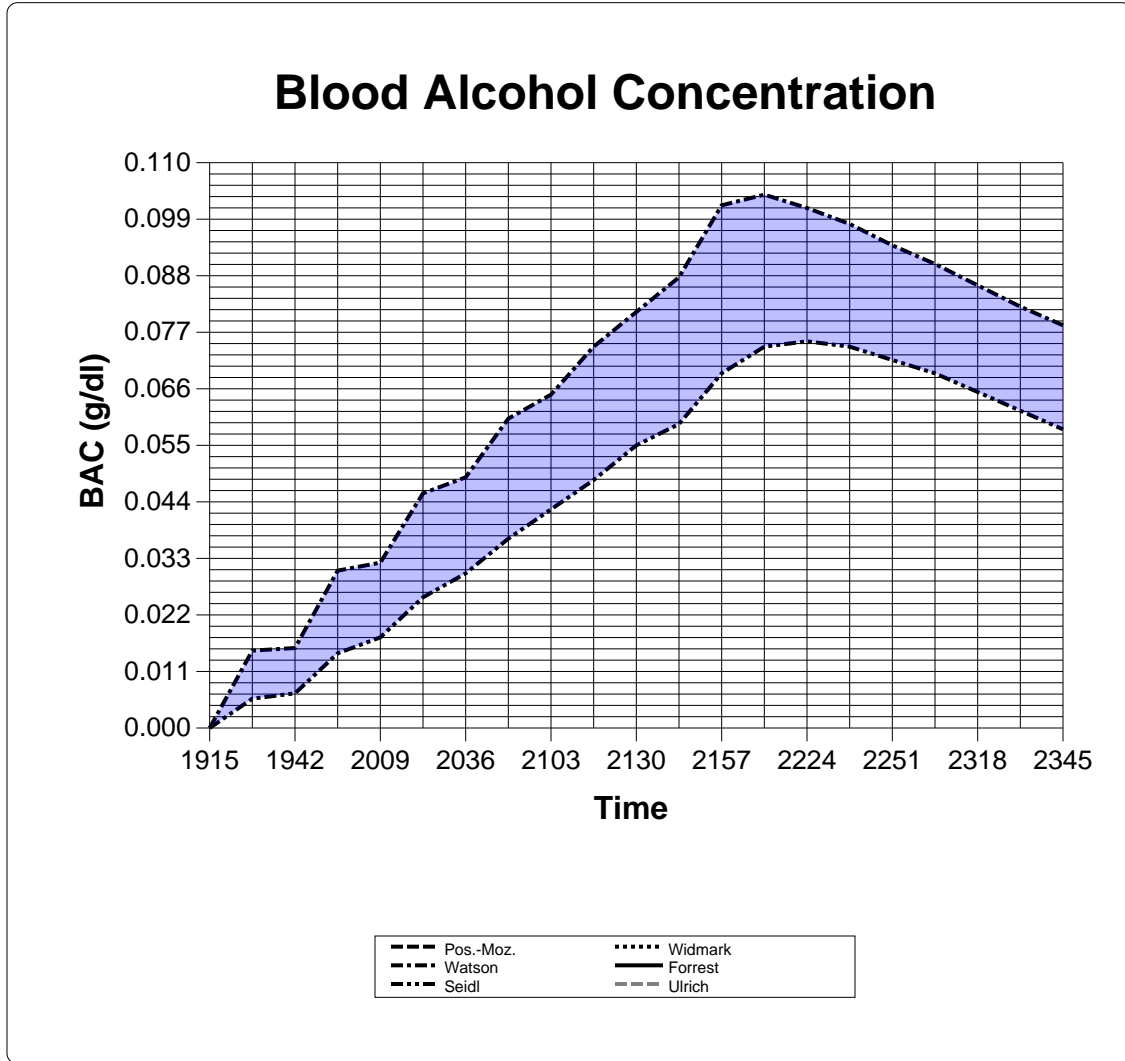
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Chart Generated

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