

Statewide Summary of Breath Alcohol Data For Year 2007

The following report summarizes the breath alcohol data obtained from BAC Datamaster breath test instruments in association with DUI arrests performed during the year 2007. Only breath alcohol results of 0.01 g/210L or greater are included in this summary. This summary should be considered an approximation since the accuracy, in several respects, depends on the reliability of the data entered and the successful collection by the host computer.

The following table shows the average breath alcohol concentration for each age group

Mean Breath Alcohol Concentration by Age Group

alc1

Age Group	Mean	N	Std. Deviation
13 to 19	.10029	2559	.051838
20 to 29	.13513	13718	.049006
30 to 39	.14651	6655	.053977
40 to 49	.15271	5233	.058706
50 to 59	.14862	2682	.059705
60 to 69	.14722	699	.054057
70 and Over	.13077	179	.051553
Total	.13899	31725	.054725

The following table shows the percent of male and female found within each age category

Age by Gender Crosstabulation

		Gender		Total
		Female	Male	
Age	13 to 19	639	2201	2840
		22.5%	77.5%	100.0%
	20 to 29	3464	12848	16312
		21.2%	78.8%	100.0%
	30 to 39	1873	6737	8610
		21.8%	78.2%	100.0%
	40 to 49	1832	5169	7001
		26.2%	73.8%	100.0%
	50 to 59	690	2748	3438
		20.1%	79.9%	100.0%
	60 to 69	155	730	885
		17.5%	82.5%	100.0%
	70 and Over	42	208	250
		16.8%	83.2%	100.0%
Total		8695	30641	39336
		22.1%	77.9%	100.0%

The following table shows the mean breath alcohol concentrations for males and females:

Mean Breath Alcohol by Gender

alc1

Gender	Mean	N	Std. Deviation
Female	.14019	7184	.056248
Male	.13866	24571	.054280
Total	.13900	31755	.054734

The following table shows the distribution of those arrested for DUI by race:

Frequency by Racial Group

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Asian	1193	3.1	3.1	3.1
Black	2182	5.6	5.6	8.6
East Indian	33	.1	.1	8.7
Hispanic	3016	7.7	7.7	16.4
Native American	1108	2.8	2.8	19.3
Pacific Island	82	.2	.2	19.5
Unknown	534	1.4	1.4	20.8
White	30938	79.2	79.2	100.0
Total	39086	100.0	100.0	

The following table shows the mean alcohol concentrations by racial category:

Mean Breath Alcohol by Racial Group

alc1

Racial Group	Mean	N	Std. Deviation
Asian	.12549	984	.047346
Black	.13226	1638	.053918
East Indian	.11696	26	.055723
Hispanic	.14012	2493	.050718
Native American	.15268	795	.058201
Pacific Island	.12326	62	.046381
Unknown	.13652	423	.052522
White	.13956	25108	.055247
Total	.13903	31529	.054752

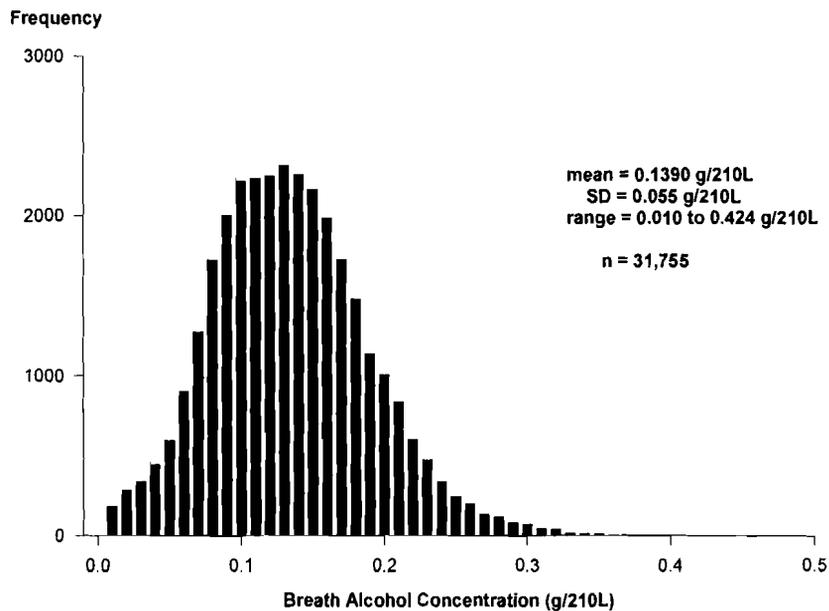
The following table shows the distribution of gender according to the different racial groups:

Race by Gender Crosstabulation

		Gender		Total
		Female	Male	
Race	Asian	295	898	1193
		24.7%	75.3%	100.0%
	Black	398	1784	2182
		18.2%	81.8%	100.0%
	East Indian	3	30	33
		9.1%	90.9%	100.0%
	Hispanic	207	2809	3016
		6.9%	93.1%	100.0%
	Native American	372	736	1108
		33.6%	66.4%	100.0%
	Pacific Island	13	69	82
		15.9%	84.1%	100.0%
	Uknown	62	472	534
		11.6%	88.4%	100.0%
	White	7309	23629	30938
		23.6%	76.4%	100.0%
Total		8659	30427	39086
		22.2%	77.8%	100.0%

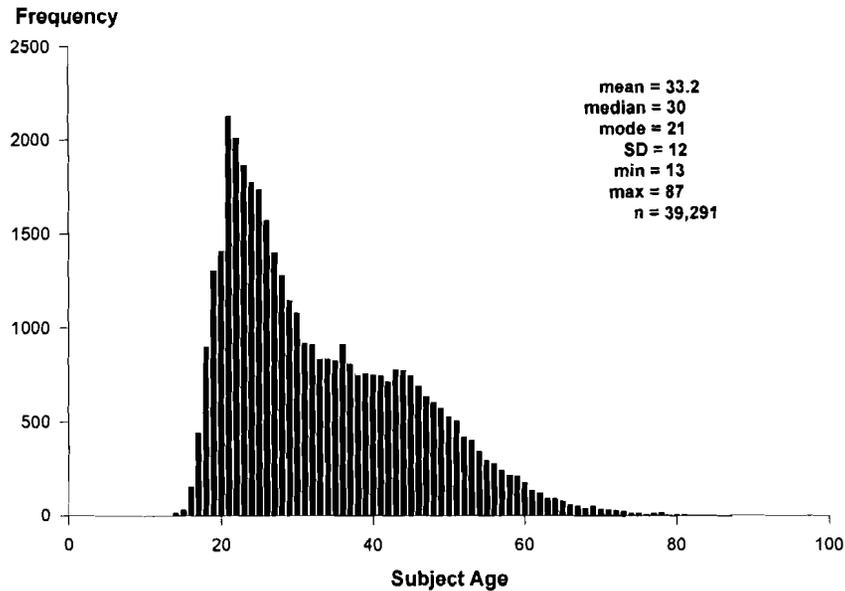
The following is the distribution of all breath alcohol results for all subjects arrested for DUI during 2007 who provided a breath sample. 87% of the subjects were 0.080 g/210L or greater.

**Distribution of Breath Alcohol Concentration For The First Sample
Statewide Data 2007**

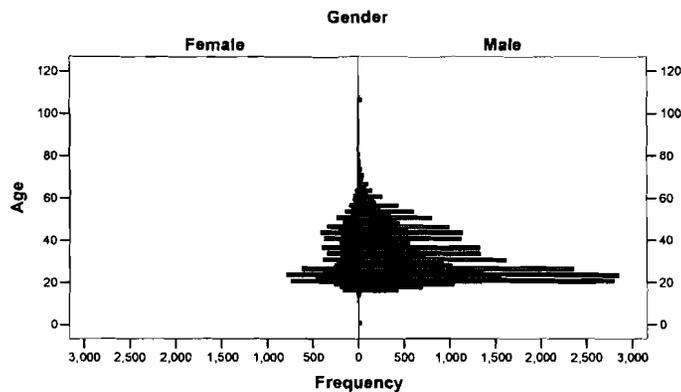


The following plot shows the distribution of subject age for statewide DUI arrests during 2007:

Distribution of Age for Subjects Arrested For DUI Statewide During 2007



The following shows a population pyramid which compares the age distribution for females and males side by side. From this the two distributions can be better compared. We see for the males there are more subjects at the higher ages than for females. Also, there appears to be a larger proportion of males in the 20 to 30 year age group compared to the females. The large majority of males compared to females are clearly seen in comparing the two figures.



The following table shows the mean alcohol concentration for subjects arrested by the Washington State Patrol (WSP) compared to other agencies:

Mean Breath Alcohol by Agency

alc1

Agency	Mean	N	Std. Deviation
WSP	.13033	15668	.051082
Seattle PD	.15723	825	.057635
King County SO	.14840	865	.057113
Spokane PD	.16708	353	.057954
Tacoma PD	.16317	247	.057573
Other Agencies	.14602	13797	.056516
Total	.13900	31755	.054734

The following table shows the refusal rates by gender:

Gender by Test Refusal Rates

		Test Refusal Status		Total
		Refused Test	Provided Sample	
Gender	Female	1272 14.6%	7430 85.4%	8702 100.0%
	Male	5543 18.1%	25127 81.9%	30670 100.0%
Total		6815 17.3%	32557 82.7%	39372 100.0%

The following table shows the refusal rate for WSP compared to Other Agencies:

Agency by Refusal Rate

		Test Refusal Status		Total
		Refused Test	Provided Sample	
Agency	WSP	2733 14.7%	15906 85.3%	18639 100.0%
	Seattle PD	206 19.5%	848 80.5%	1054 100.0%
	King County SO	217 19.6%	892 80.4%	1109 100.0%
	Spokane PD	140 27.9%	361 72.1%	501 100.0%
	Tacoma PD	80 24.1%	252 75.9%	332 100.0%
	Other Agencies	3439 19.4%	14298 80.6%	17737 100.0%
Total		6815 17.3%	32557 82.7%	39372 100.0%

The following table shows refusal rates by racial group:

Refusal Rates by Racial Group

		Test Refusal Status		Total
		Refused Test	Provided Sample	
Race	Asian	182 15.3%	1011 84.7%	1193 100.0%
	Black	494 22.6%	1688 77.4%	2182 100.0%
	East Indian	5 15.2%	28 84.8%	33 100.0%
	Hispanic	468 15.5%	2548 84.5%	3016 100.0%
	Native American	287 25.9%	821 74.1%	1108 100.0%
	Pacific Island	18 22.0%	64 78.0%	82 100.0%
	Uknown	90 16.9%	444 83.1%	534 100.0%
	White	5214 16.9%	25724 83.1%	30938 100.0%
Total		6758 17.3%	32328 82.7%	39086 100.0%

The following table illustrates the breath test refusal rates by age group.

Refusal Rate by Age Group

		Test Refusal Status		Total
		Refused Test	Provided Sample	
Age Group	13 to 19	249 8.8%	2591 91.2%	2840 100.0%
	20 to 29	2308 14.1%	14004 85.9%	16312 100.0%
	30 to 39	1779 20.7%	6831 79.3%	8610 100.0%
	40 to 49	1605 22.9%	5396 77.1%	7001 100.0%
	50 to 59	663 19.3%	2775 80.7%	3438 100.0%
	60 to 69	149 16.8%	736 83.2%	885 100.0%
	70 and Over	57 22.8%	193 77.2%	250 100.0%
Total		6810 17.3%	32526 82.7%	39336 100.0%

The following table illustrates the breath test refusal rates by each of the Washington State Patrol Districts:

Breath Test Refusal Rates by WSP District

District	Test Refusal Status		Total
	Refused Test	Provided Sample	
1.00	334 14.8%	1921 85.2%	2255 100.0%
2.00	579 14.8%	3321 85.2%	3900 100.0%
3.00	223 14.7%	1293 85.3%	1516 100.0%
4.00	189 14.2%	1143 85.8%	1332 100.0%
5.00	294 14.7%	1711 85.3%	2005 100.0%
6.00	128 14.2%	775 85.8%	903 100.0%
7.00	685 14.0%	4203 86.0%	4888 100.0%
8.00	283 16.2%	1469 83.8%	1752 100.0%
Total	2715 14.6%	15836 85.4%	18551 100.0%

The following table illustrates the mean breath alcohol concentration obtained in Washington State Patrol DUI arrests by District:

Mean Breath Alcohol Concentration by WSP District

alc1

District	Mean	N	Std. Deviation
1.00	.13455	1905	.052114
2.00	.12709	3270	.049423
3.00	.13082	1269	.051378
4.00	.13579	1121	.051985
5.00	.12877	1692	.051351
6.00	.13281	767	.055544
7.00	.12972	4145	.049877
8.00	.12991	1430	.052733
Total	.13035	15599	.051111

The following table illustrates the number and percent of Washington State Patrol DUI arrests coming from accident investigations within each District:

Percent of DUI Arrests Coming From Accidents by WSP District

District	Accident		Total
	No Accident	Accident	
1.00	1808 80.2%	447 19.8%	2255 100.0%
2.00	3371 86.4%	529 13.6%	3900 100.0%
3.00	1393 91.9%	123 8.1%	1516 100.0%
4.00	1153 86.6%	179 13.4%	1332 100.0%
5.00	1758 87.7%	247 12.3%	2005 100.0%
6.00	807 89.4%	96 10.6%	903 100.0%
7.00	4488 91.8%	400 8.2%	4888 100.0%
8.00	1531 87.4%	221 12.6%	1752 100.0%
Total	16309 87.9%	2242 12.1%	18551 100.0%

The following table illustrates the number and percent of DUI arrests coming from accident investigations for different agencies within the state:

Percent of DUI Arrests Coming From Accidents for Different Agencies

Agency	Accident Status		Total
	No Accident	Accident	
WSP	16381 87.9%	2258 12.1%	18639 100.0%
Seattle PD	672 63.8%	382 36.2%	1054 100.0%
King County SO	828 74.7%	281 25.3%	1109 100.0%
Spokane PD	304 60.7%	197 39.3%	501 100.0%
Tacoma PD	190 57.2%	142 42.8%	332 100.0%
Other Agencies	14448 81.5%	3289 18.5%	17737 100.0%
Total	32823 83.4%	6549 16.6%	39372 100.0%

Summarizing Figures:

2.5% of the first breath sample attempts results in "Invalid Sample"

79 (0.2%) of the first breath sample attempts resulted in "Interference Detected"

22.2% of the DUI arrests statewide were done in King County for 2007.

78% of the tests performed in 2007 had a generic code entered for the Liquor Board License Number. As a result, 22% had an actual Liquor Board License Number entered as the place where the subject was last drinking.

54% of the subjects were administered PBT tests.

99.3% of the duplicate breath tests agreed within the required $\pm 10\%$ of the mean.

The following shows the top twenty-five liquor licensed establishments identified most frequently in the breath test database during 2007:

Rank	Name	Location	License Number	DUI Contacts
1	Shotze's 9602 Evergreen	Everett	77604	84
2	Tulalip Casino	Marysville	85216	67
3	Lady Luck Cowgirl Up Steakhouse	Tacoma	357687	67
4	Foxy's Spirits & Ale	Everett	79412	65
5	J.R.s	Marysville	359777	54
6	Mako's Bar & Grill	Port Orchard	362067	48
7	Club Zoo B&G	Vancouver	364096	48
8	Mondo's Beach Club	Lynnwood	70094	46
9	Mukelshoot Indian Casino	Auburn	79098	43
10	Charley's Steak & Ale	Fircrest	357678	42
11	Oscar's B&G	Vancouver	368430	41
12	The Vault	Olympia	81860	40
13	McCloud's	Bremerton	86908	39
14	Magana's Golden Nugget	Pasco	81946	38
15	The Shark	Kirkland	355289	38
16	Charley's B&G	Olympia	354881	37
17	Wayne's Inn	Puyallup	357372	37
18	Time Out	Kirkland	351434	36
19	7 Cedars Casino	Sequim	78675	35
20	Sports Page B&G	Kennewick	355927	35
21	Pint & Quarters Ale House	Lacey	71452	34
22	Draft Pic's B&G	Mt. Vernon	357983	34
23	Charlie's B&G	Vancouver	76348	33
24	Emerald Queen Casino	Fife	366407	32
25	Sports Keg Rest. & Lounge	Burlington	351648	31