

Statewide Summary of Breath Alcohol Data For Year 2005

The following report summarizes the breath alcohol data obtained from BAC Datamaster breath test instruments in association with DUI arrests performed during the year 2005. Only breath alcohol results of 0.01 g/210L 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 transmission to the host computer.

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

Mean Breath Alcohol By Age Group

alc1			
AG	Mean	N	Std. Deviation
13 to 19	.10117	2363	.052496
20 to 29	.13617	13355	.048629
30 to 39	.14774	6542	.053095
40 to 49	.15218	5624	.057659
50 to 59	.15092	2560	.059228
60 to 69	.14317	677	.055260
70 and Over	.13159	188	.042362
Total	.14015	31309	.054181

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	607	2181	2788
		21.8%	78.2%	100.0%
	20 to 29	3388	13172	16560
		20.5%	79.5%	100.0%
	30 to 39	1913	7070	8983
		21.3%	78.7%	100.0%
	40 to 49	2088	5884	7972
		26.2%	73.8%	100.0%
	50 to 59	844	2763	3607
		23.4%	76.6%	100.0%
	60 to 69	158	780	938
		16.8%	83.2%	100.0%
	70 and Over	46	250	296
		15.5%	84.5%	100.0%
Total		9044	32100	41144
		22.0%	78.0%	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	.14230	6815	.054315
Male	.13959	24520	.054145
Total	.14018	31335	.054193

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

Frequency By Racial Group

	Frequency	Percent	Valid Percent	Cumulative Percent
Asian	1145	2.8	2.8	2.8
Black	2191	5.3	5.3	8.1
East Indian	15	.0	.0	8.2
Hispanic	1399	3.4	3.4	11.6
Native American	1284	3.1	3.1	14.7
Pacific Island	46	.1	.1	14.8
Uknown	496	1.2	1.2	16.0
White	34522	84.0	84.0	100.0
Total	41098	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	.12287	853	.045332
Black	.13089	1595	.051197
East Indian	.11933	9	.069161
Hispanic	.13988	1113	.050958
Native American	.15814	842	.058552
Pacific Island	.12378	40	.048153
Uknown	.13906	373	.056665
White	.14081	26435	.054378
Total	.14020	31260	.054214

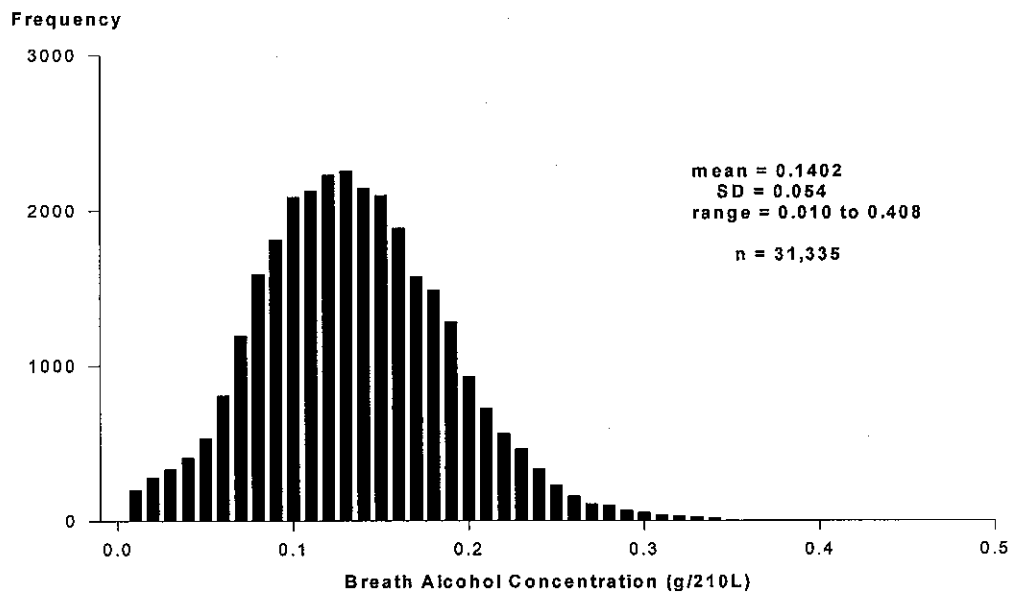
The following table shows the distribution of gender according to the different racial groups:

Race By Gender Crosstabulation

		Gender		Total
		Female	Male	
Race	Asian	259	886	1145
		22.6%	77.4%	100.0%
	Black	358	1833	2191
		16.3%	83.7%	100.0%
	East Indian	2	13	15
		13.3%	86.7%	100.0%
	Hispanic	88	1311	1399
		6.3%	93.7%	100.0%
	Native American	468	816	1284
		36.4%	63.6%	100.0%
	Pacific Island	10	36	46
		21.7%	78.3%	100.0%
	Unknown	40	456	496
		8.1%	91.9%	100.0%
	White	7816	26706	34522
		22.6%	77.4%	100.0%
Total		9041	32057	41098
		22.0%	78.0%	100.0%

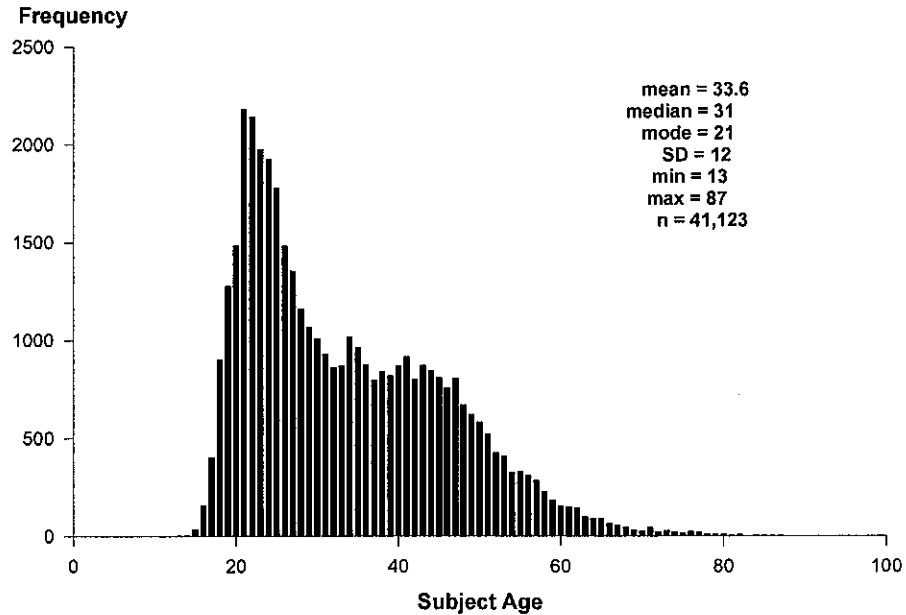
The following is the distribution of all breath alcohol results for all subjects arrested for DUI during 2005 who provided a breath sample. 85% of the subjects were 0.080 g/210L or greater.

Distribution of Breath Alcohol Concentration For The First Sample Statewide Data 2005

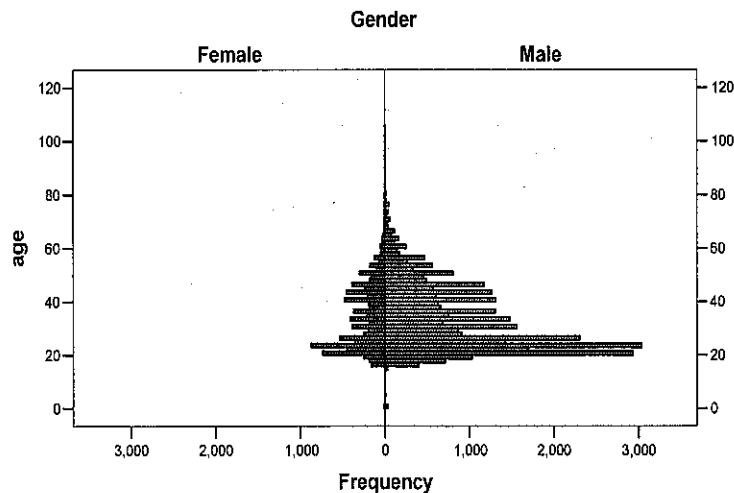


The following plot shows the distribution of subject age for statewide DUI arrests during 2005:

Distribution of Age for Subjects Arrested For DUI Statewide During 2005



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	.13277	14571	.051143
Seattle PD	.15018	910	.056681
King County SO	.14850	841	.051641
Spokane PD	.16213	487	.054674
Tacoma PD	.16222	257	.062667
Other Agencies	.14547	14269	.055902
Total	.14018	31335	.054193

The following table shows the refusal rates by gender:

Gender By Test Refusal Rates

		Test Refusal Status		Total
		Refused Test	Provided Sample	
Gender	Female	1261 13.9%	7796 86.1%	9057 100.0%
	Male	5401 16.8%	26742 83.2%	32143 100.0%
Total		6662 16.2%	34538 83.8%	41200 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	2523 14.0%	15504 86.0%	18027 100.0%
	Seattle PD	198 16.0%	1039 84.0%	1237 100.0%
	King County SO	240 19.9%	964 80.1%	1204 100.0%
	Spokane PD	181 25.7%	522 74.3%	703 100.0%
	Tacoma PD	97 25.7%	281 74.3%	378 100.0%
	Other Agencies	3423 17.4%	16229 82.6%	19652 100.0%
	Total	6662 16.2%	34539 83.8%	41201 100.0%

The following table shows refusal rates by racial group:

Racial Group By Refusal Rates

		Test Refusal Status		Total
		Refused Test	Provided Sample	
Racial Group	Asian	159 13.9%	986 86.1%	1145 100.0%
	Black	423 19.3%	1768 80.7%	2191 100.0%
	East Indian	3 20.0%	12 80.0%	15 100.0%
	Hispanic	205 14.7%	1194 85.3%	1399 100.0%
	Native American	312 24.3%	972 75.7%	1284 100.0%
	Pacific Island	5 10.9%	41 89.1%	46 100.0%
	Unknown	81 16.3%	415 83.7%	496 100.0%
	White	5455 15.8%	29067 84.2%	34522 100.0%
	Total	6643 16.2%	34455 83.8%	41098 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

		Test Refusal Status		Total
		Refused Test	Provided Sample	
District	1.00	300 13.3%	1964 86.7%	2264 100.0%
	2.00	469 14.8%	2697 85.2%	3166 100.0%
	3.00	261 15.7%	1398 84.3%	1659 100.0%
	4.00	267 12.2%	1914 87.8%	2181 100.0%
	5.00	227 13.3%	1486 86.7%	1713 100.0%
	6.00	114 11.2%	903 88.8%	1017 100.0%
	7.00	494 14.1%	2998 85.9%	3492 100.0%
	8.00	379 15.6%	2054 84.4%	2433 100.0%
Total	2511 14.0%	15414 86.0%	17925 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	.12989	1866	.051979
2.00	.12994	2567	.050174
3.00	.13174	1320	.052440
4.00	.13159	1830	.052628
5.00	.12512	1433	.060424
6.00	.12972	864	.055263
7.00	.13061	2895	.051461
8.00	.13628	1935	.055070
Total	.13079	14710	.053242

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 District

District	Accident		Total
	No Accident	Accident	
1.00	1827 80.7%	437 19.3%	2264 100.0%
2.00	2626 82.9%	540 17.1%	3166 100.0%
3.00	1524 91.9%	135 8.1%	1659 100.0%
4.00	1997 91.6%	184 8.4%	2181 100.0%
5.00	1477 86.2%	236 13.8%	1713 100.0%
6.00	933 91.7%	84 8.3%	1017 100.0%
7.00	3130 89.6%	362 10.4%	3492 100.0%
8.00	2139 87.9%	294 12.1%	2433 100.0%
Total	15653 87.3%	2272 12.7%	17925 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

		Accident Status		Total
		No Accident	Accident	
Agency	WSP	15749 87.4%	2278 12.6%	18027 100.0%
	Seattle PD	805 65.1%	432 34.9%	1237 100.0%
	King County SO	906 75.2%	298 24.8%	1204 100.0%
	Spokane PD	488 69.4%	215 30.6%	703 100.0%
	Tacoma PD	218 57.7%	160 42.3%	378 100.0%
	Other Agencies	16173 82.3%	3478 17.7%	19651 100.0%
	Total	34339 83.3%	6861 16.7%	41200 100.0%

Summarizing Figures:

2.8% of the first breath sample attempts results in "Invalid Sample"

20 (0.05%) of the first breath sample attempts resulted in "Interference Detected"

21.6% of the DUI arrests statewide were done in King County for 2005.

79% of the tests performed in 2005 had a generic code entered for the Liquor Board License Number (i.e., 9A000000). As a result, 21% 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.

The following shows the top twenty liquor licensed establishments which were identified most frequently in the breath test database:

Rank	Establishment	License Number	DUI Contacts
1	Frankies Sports Bar and Grill, Olympia	74156	84
2	Romeo Bar and Grill, Bremerton	351235	75
3	Lady Luck's Cowgril Up Steakhouse and Saloon, Tacoma	357687	66
4	Shotze's, Everett	77604	54
5	Muckelshoot Indian Casino, Auburn	79098	50
6	The Royal Inn, Bellingham	353649	49
7	Daverthumps Pub, Lynnwood	357903	49
8	Tulalip Casino, Marysville	85216	42
9	The End Zone, Port Orchard	360263	42
10	The Jungle, Richland	83448	40
11	Harborside Bar and Grill, Bremerton	86908	39
12	Bar Code, Olympia	85189	36
13	Trick Shot Dixie Outlaw Saloon and BBQ, Spokane	351438	36
14	The Shark, Kirkland	355289	36
15	Wayne's Inn, Puyallup	357372	36
16	The Corner Saloon, Lynnwood	351859	35
17	Mondo's Pub, Lynnwood	70094	33
18	Big E, Shelton	74489	33
19	Sports Keg Restaurant and Lounge, Burlington	351648	32
20	Horse and Cow Bar and Grill, Bremerton	353730	32

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Washington State Patrol 1/9/2006