Statewide Summary of Breath Alcohol Data For Year 2004

The following report summarizes the breath alcohol data obtained from BAC Datamaster breath test instruments in association with DUI arrests performed during the year 2003. 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

Age Group	Mean	N	Std. Deviation
13 to 19	.10173	2466	.052231
20 to 29	.13512	13121	.049167
30 to 39	.14665	7181	.053565
40 to 49	.15010	5881	.057428
50 to 59	.14939	2628	.059520
60 to 69	.14244	728	.053139
70 and Over	.12928	200	.050371
Total	.13916	32205	.054421

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

Age by Gender Crosstabulation

			Gender		
			Female	Male	Total
Age	13 to 19	Count	585	2213	2798
		% within AG	20.9%	79.1%	100.0%
	20 to 29	Count	3185	12587	15772
		% within AG	20.2%	79.8%	100.0%
	30 to 39	Count	2106	7479	9585
		% within AG	22.0%	78.0%	100.0%
	40 to 49	Count	2056	6136	8192
		% within AG	25.1%	74.9%	100.0%
	50 to 59	Count	732	2805	3537
		% within AG	20.7%	79.3%	100.0%
	60 to 69	Count	164	833	997
		% within AG	16.4%	83.6%	100.0%
	70 and Over	Count	34	251	285
		% within AG	11.9%	88.1%	100.0%
Total		Count	8862	32304	41166
		% within AG	21.5%	78.5%	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	.14050	6923	.055224
Male	.13884	25333	.054251
Total	.13920	32256	.054465

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

Frequency By Racial Group

	Frequency	Percent	Valid Percent	Cumulative Percent
Asian	1117	2.7	2.7	2.7
Black	2096	5.1	5.1	7.8
Native American	1066	2.6	2.6	10.4
Uknown	696	1.7	1.7	12.1
White	36290	87.9	87.9	100.0
Total	41265	100.0	100.0	

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

Mean Breath Alcohol by Racial Group

ALC1

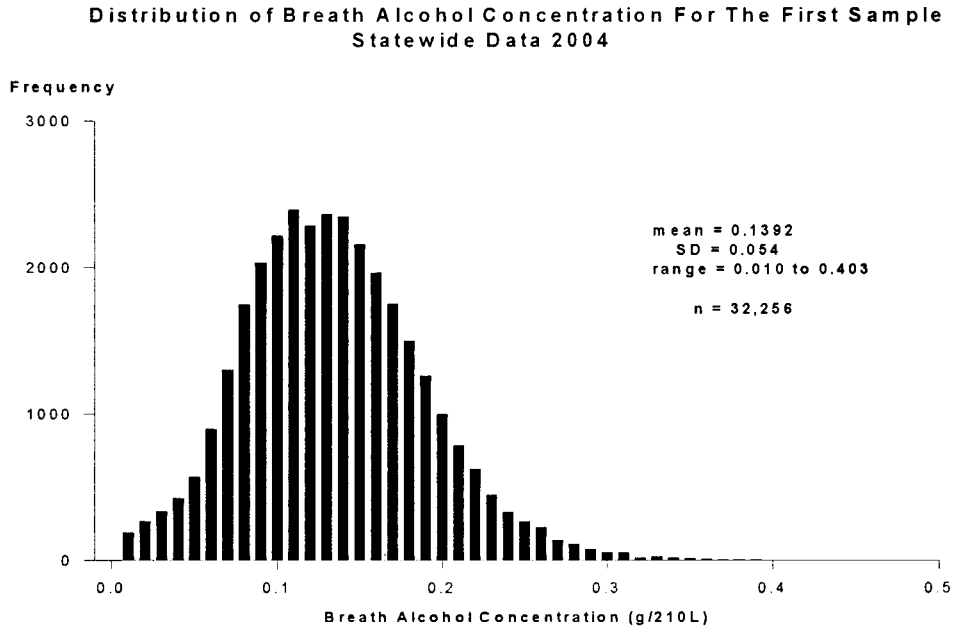
Racial Group	Mean	N	Std. Deviation
Asian	.12422	859	.046968
Black	.13112	1529	.051765
Native American	.15735	705	.056927
Uknown	.13847	528	.054116
White	.13964	28635	.054592
Total	.13920	32256	.054465

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

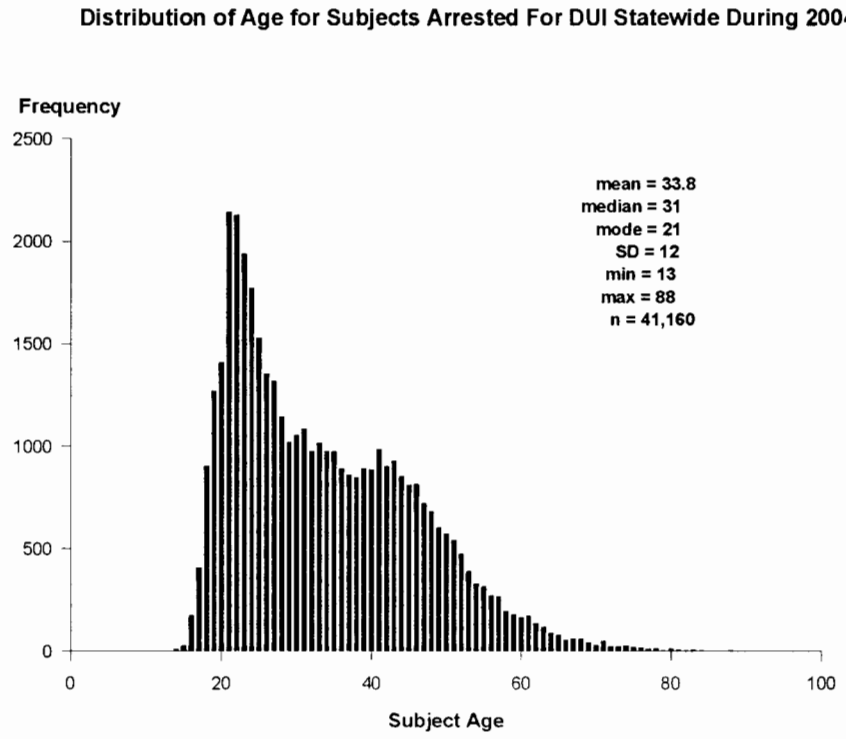
Race By Gender Crosstabulation

		Gender		
		Female	Male	Total
Racial Group	Asian	227	890	1117
		20.3%	79.7%	100.0%
	Black	296	1800	2096
		14.1%	85.9%	100.0%
	Native American	363	703	1066
		34.1%	65.9%	100.0%
	Uknown	59	637	696
		8.5%	91.5%	100.0%
	White	7926	28364	36290
		21.8%	78.2%	100.0%
Total		8871	32394	41265
		21.5%	78.5%	100.0%

The following is the distribution of all breath alcohol results for all subjects arrested for DUI during 2004 who provided a breath sample. 87.6% of the subjects were 0.080 g/210L or greater.



The following plot shows the distribution of subject age for statewide DUI arrests during 2004:



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	.13136	16153	.050784
Seattle PD	.14809	1010	.055165
King County SO	.14609	944	.056250
Spokane PD	.15778	349	.051500
Tacoma PD	.16315	273	.059699
Other Agencies	.14645	13527	.057018
Total	.13920	32256	.054465

The following table shows the refusal rates by gender:

Gender By Test Refusal Rates

		Test Refusal Status		
		Refused Test	Provided Sample	Total
Gender	Female	1416	7455	8871
		16.0%	84.0%	100.0%
	Male	6055	26339	32394
		18.7%	81.3%	100.0%
Total		7471	33794	41265
		18.1%	81.9%	100.0%

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

Agency By Refusal Rate

		Test Refusal Status		
		Refused Test	Provided Sample	Total
Agency	WSP	2986	16708	19694
		15.2%	84.8%	100.0%
	Seattle PD	240	1049	1289
		18.6%	81.4%	100.0%
	King County SO	269	1016	1285
		20.9%	79.1%	100.0%
	Spokane PD	232	409	641
		36.2%	63.8%	100.0%
	Tacoma PD	102	287	389
		26.2%	73.8%	100.0%
	Other Agencies	3642	14325	17967
		20.3%	79.7%	100.0%
Total		7471	33794	41265
		18.1%	81.9%	100.0%

The following table shows refusal rates by racial group:

Racial Group by Refusal Rates

		Test Refused Status		
		Refused Test	Provided Sample	Total
Racial Group	Asian	182	935	1117
		16.3%	83.7%	100.0%
	Black	464	1632	2096
		22.1%	77.9%	100.0%
	Native American	319	747	1066
		29.9%	70.1%	100.0%
	Uknown	140	556	696
		20.1%	79.9%	100.0%
	White	6366	29924	36290
		17.5%	82.5%	100.0%
Total		7471	33794	41265
		18.1%	81.9%	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		
		Refused Test	Provided Sample	Total
District	1.00	407	2042	2449
		16.6%	83.4%	100.0%
	2.00	597	3038	3635
		16.4%	83.6%	100.0%
	3.00	280	1458	1738
		16.1%	83.9%	100.0%
	4.00	307	1924	2231
		13.8%	86.2%	100.0%
	5.00	289	1786	2075
		13.9%	86.1%	100.0%
	6.00	183	1044	1227
		14.9%	85.1%	100.0%
	7.00	508	3436	3944
		12.9%	87.1%	100.0%
	8.00	395	1862	2257
		17.5%	82.5%	100.0%
Total		2966	16590	19556
		15.2%	84.8%	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	.13094	1987	.050386
2.00	.12851	2942	.046522
3.00	.13271	1411	.049602
4.00	.13221	1834	.054415
5.00	.12792	1740	.052242
6.00	.13392	1012	.053486
7.00	.13093	3337	.049441
8.00	.13722	1777	.053739
Total	.13135	16040	.050770

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

		ACCIDENT		
		No Accident	Accident	Total
DIST	1.00	2022	427	2449
		82.6%	17.4%	100.0%
	2.00	3190	445	3635
		87.8%	12.2%	100.0%
	3.00	1596	142	1738
		91.8%	8.2%	100.0%
	4.00	2058	173	2231
		92.2%	7.8%	100.0%
	5.00	1862	213	2075
		89.7%	10.3%	100.0%
	6.00	1125	102	1227
		91.7%	8.3%	100.0%
	7.00	3603	341	3944
		91.4%	8.6%	100.0%
	8.00	2000	257	2257
		88.6%	11.4%	100.0%
Total		17456	2100	19556
		89.3%	10.7%	100.0%

22.4% of the DUI arrests statewide were done in King County for 2004. 80% of the tests performed in 2004 had a generic code entered for the Liquor Board License Number (i.e., 9A000000). This means that 20% had an actual Liquor Board License Number entered as the place where the subject was last drinking.

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

Establishment	License Number	DUI Contacts
Daverthumps Pub and Galley, Lynnwood	357903	75
Charlies Bar and Grill, Vancouver	76348	59
Frankies, Olympia	74156	53
The Royal Inn, Bellingham	353649	52
Muckleshoot Casino, Auburn	79098	50
Cascade Restaurant and Pizza Inn, Mt Vernon	367294	48
Wayne's Inn, Puyallup	357372	47
Romeo Bar and Grill, Bremerton	351235	43
Clearwater Steakhouse and Saloon, East Wenatchee	353571	42
Safeco Field, Seattle	356942	40
Shotzes, Everett	77604	38
Seven Cedars Casino, Sequim	78675	38
Max Dales, Mt Vernon	350801	38
The Shark, Kirkland	355289	38
Rocker Bar and Grill, Bothell	76013	37
Jokers Casino Sports Bar, Richland	357267	37
GK's Sports Grill and Bar, Vancouver	367860	37
Mugs and Jugs, Puyallup	81138	35
O'Finnigans Pub and Grill, Everett	351609	35
Rumors Cabaret, Bellingham	80743	34

Sgt. R. G. Gullberg
Washington State Patrol 1/7/2005