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**The “Reign of Error” in Student-Athlete
Alcohol Use: A Multi-Site Study
at Institutions of Higher Education
in the United States**

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<http://alcohol.hws.edu>

Protocol for Data Collection

- Web Survey scheduled in computer labs with 2-3 teams represented during each 30 minute session
- Computers logged in using “generic” user account
- Common username / password provided publicly to each survey period.
- Usernames / Passwords time activated

Web-Based Survey for Athletes

Survey

1. Sample Demographics

	Total Sample (Range by School)
School Characteristics	
Number of Schools	13
Number of States	12 (CT, IL, MA, MD, MN, NJ, NY, OH, OR, TX, VA, WI)
School Size (mean)	3,730 (800 – 7,300)
Athlete Population at School (mean)	422 (180 – 606)
Respondent Characteristics	
Sample Size	3,576 (135 – 521)
Response Rate	76% (61% – 86%)
Males	56% (40% – 73%)
Under 21 years of age	74% (68% – 81%)
1 st Year Students	36% (26% – 44%)
2 nd Year Students	28% (20% – 42%)
3 rd Year Students	21% (14% – 28%)
4 th Year Students	15% (9% – 20%)

2. Student-Athlete Accuracy in Perceiving the Gender-Specific Norms for Frequency of Alcohol Consumption among School Athlete Peers by Gender of Perceiver

Males Perceiving Males

Actual School Norm (Male Median Frequency)	Accuracy in Perceiving the Drinking Frequency Norm				N of Respondents	N of Schools
	Underestimates (%)	Accurate Perceptions (%)	Overestimates (%)			
Twice Per Month	7.4	9.9	82.7	=100%	365	3
Once Per Week	9.4	24.9	65.7	=100%	1,363	9
Twice Per Week	27.7	66.7	5.6	=100%	213	1
All Schools	11.0	26.7	62.3	=100%	1,941	13

2. (continued)

Females Perceiving Females

Actual School Norm (Female Median Frequency)	Accuracy in Perceiving the Drinking Frequency Norm				N of Respondents	N of Schools
	Underestimates (%)	Accurate Perceptions (%)	Overestimates (%)			
Once Per Month	4.3	14.5	81.2	=100%	207	2
Twice Per Month	6.3	11.4	82.2	=100%	725	7
Once Per Week	10.3	32.2	57.5	=100%	590	4
All Schools	7.6	19.9	72.5	-100%	1,522	13

2. (continued)

Males Perceiving Females

Actual School Norm (Female Median Frequency)	Accuracy in Perceiving the Drinking Frequency Norm				N of Respondents	N of Schools
	Underestimates (%)	Accurate Perceptions (%)	Overestimates (%)			
Once Per Month	3.7	12.8	83.5	=100%	273	2
Twice Per Month	7.5	11.6	80.8	=100%	971	7
Once Per Week	6.9	33.9	59.2	=100%	691	4
All Schools	6.8	19.7	73.5	-100%	1,935	13

2. (continued)

Females Perceiving Males

Actual School Norm (Male Median Frequency)	Accuracy in Perceiving the Drinking Frequency Norm				N of Respondents	N of Schools
	Underestimates (%)	Accurate Perceptions (%)	Overestimates (%)			
Twice Per Month	7.5	12.3	80.2	=100%	253	3
Once Per Week	8.3	22.5	69.2	=100%	1,089	9
Twice Per Week	22.3	69.3	8.4	=100%	179	1
All Schools	9.8	26.3	63.9	-100%	1,521	13

3. Student-Athlete Accuracy in Perceiving the Gender-Specific Norms for Quantity of Alcohol Consumption among School Athlete Peers at Parties and Bars by Gender of Perceiver

Males Perceiving Males

Actual School Norm (Male Median Drinks)	Accuracy in Perceiving the Drinking Quantity Norm				N of Respondents	N of Schools
	Underestimates by 2 or More Drinks (%)	Accurate Estimates (within +/- 1 Drink) (%)	Overestimates by 2 or More Drinks (%)			
4	10.2	30.1	59.8	=100%	246	2
5	9.0	27.0	64.0	=100%	89	1
6	15.2	33.7	51.1	=100%	329	3
7	22.0	22.4	55.6	=100%	259	2
8	22.7	25.3	52.0	=100%	767	4
9	23.9	37.3	38.8	=100%	209	1
All Schools	19.2	28.4	52.4	=100%	1,899	13

3. (continued)

Females Perceiving Females

Actual School Norm (Female Median Drinks)	Accuracy in Perceiving the Drinking Quantity Norm				N of Respondents	N of Schools
	Underestimates by 2 or More Drinks (%)	Accurate Estimates (within +/- 1 Drink) (%)	Overestimates by 2 or More Drinks (%)			
2	2.9	36.3	60.8	=100%	102	1
3	3.2	41.6	55.2	=100%	346	4
4	4.2	57.8	38.0	=100%	313	2
5	12.9	54.6	32.6	=100%	731	6
All Schools	8.1	51.0	40.9	=100%	1,492	13

3. (continued)

Males Perceiving Females

Actual School Norm (Female Median Drinks)	Accuracy in Perceiving the Drinking Quantity Norm				N of Respondents	N of Schools
	Underestimates by 2 or More Drinks (%)	Accurate Estimates (within +/- 1 Drink) (%)	Overestimates by 2 or More Drinks (%)			
2	5.4	35.7	58.9	=100%	168	1
3	4.4	41.8	53.9	=100%	505	4
4	4.7	51.0	44.2	=100%	339	2
5	17.5	53.3	29.3	=100%	888	6
All Schools	10.6	48.3	41.1	=100%	1,900	13

3. (continued)

Females Perceiving Males

Actual School Norm (Male Median Drinks)	Accuracy in Perceiving the Drinking Quantity Norm				N of Respondents	N of Schools
	Underestimates by 2 or More Drinks (%)	Accurate Estimates (within +/- 1 Drink) (%)	Overestimates by 2 or More Drinks (%)			
4	4.8	29.3	65.9	=100%	167	2
5	2.3	15.9	81.8	=100%	44	1
6	16.7	39.7	43.6	=100%	312	3
7	19.7	34.0	46.3	=100%	147	2
8	29.3	29.0	41.8	=100%	649	4
9	25.7	42.9	31.4	=100%	175	1
All Schools	21.8	33.0	45.2	=100%	1,494	13

4. Correlation Matrix of Party/Bar Drinks Typically Consumed by Self, Perceived Norms, and Actual Norms by Gender

	Self: number of drinks typically consumed	Perceived norm: number of drinks by male athletes at one's school	Perceived norm: number of drinks by female athletes at one's school	Actual norm: median number of drinks by male athletes at one's school	Actual norm: median number of drinks by female athletes at one's school
Self: number of drinks typically consumed		.68	.45	.25	.22
Perceived norm: number of drinks by male athletes at one's school	.64		.64	.24	.21
Perceived norm: number of drinks by female athletes at one's school	.57	.76		.16	.19
Actual norm: median number of drinks by male athletes at one's school	.25	.19	.20		.74
Actual norm: median number of drinks by female athletes at one's school	.30	.23	.26	.77	

Note: All correlations are significant at the 0.01 level (two tailed).

 Females

 Males

5. Unstandardized (Standardized) Regression Coefficients Predicting Number of Drinks Student-Athletes Personally Consume at Parties and Bars

Independent Variables	Males		Females	
Perception of how many drinks are typically consumed by male student-athletes at one's school	.81	(.65)***	.39	(.48)***
Perception of how many drinks are typically consumed by female student-athletes at one's school	-.01	(-.00)	.20	(.16)***
Actual norm (median) for drinks typically consumed by male student-athletes at one's school	.22	(.07)**	.03	(.01)
Actual norm (median) for drinks typically consumed by female student-athletes at one's school	.17	(.03)	.42	(.14)***
Age 21 and over	-.34	(-.03)	.06	(.01)
Class year	.42	(.09)***	.13	(.05)
Personal Importance of collegiate athletics ^a	.21	(.03)	.09	(.02)
Number of collegiate athletes among five best friends	.18	(.05)**	.03	(.02)
R ²	.48		.45	

* Coefficient is significant at $p < .05$; ** $p < .01$; *** $p < .001$.

^a "Not very," "Somewhat," "Very," "Most" coded 1 through 4, respectively.