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Gender differences in the prevalence and patterns of alcohol use among 9th-12th graders in a St. Louis suburban high school

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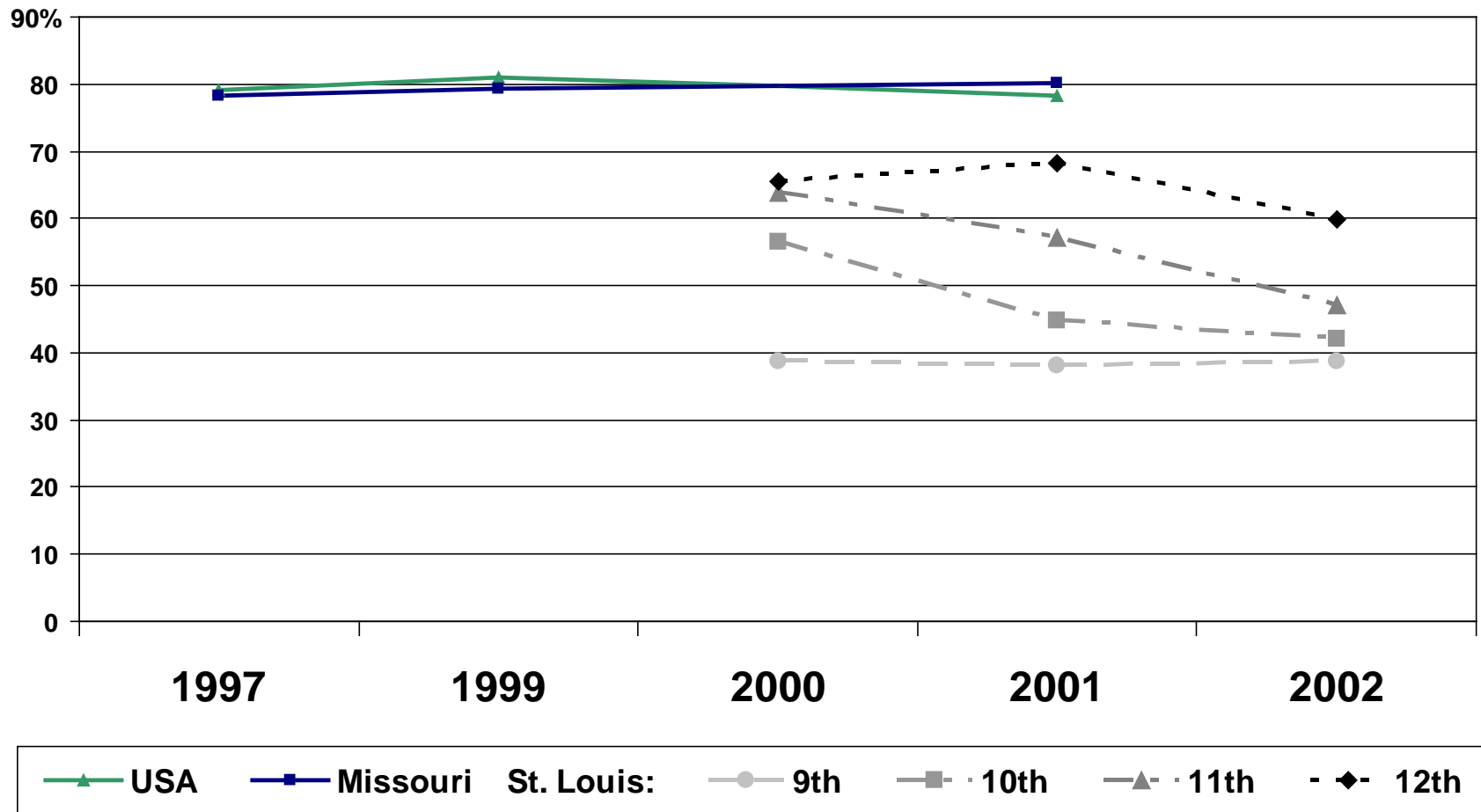
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Gender Differences in the Prevalence and Patterns of Alcohol Use Among 9th-12th Graders in a St. Louis Suburban High School

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Percent of High School Students Reporting Lifetime Use of Alcoholic Beverages in the USA[†], Missouri[†], and a Local St. Louis County High School (by Grade)

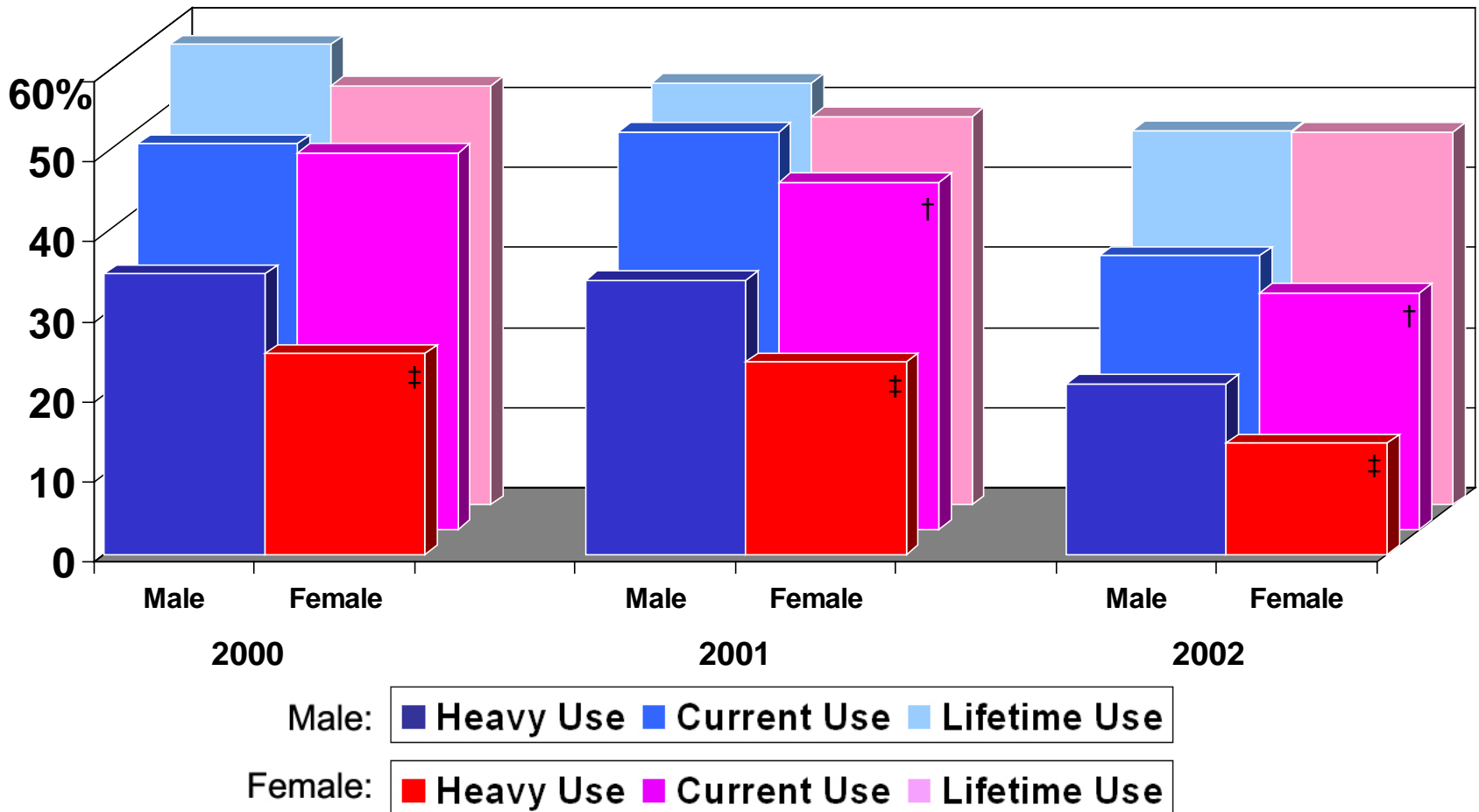


[†] Source: Youth Risk Behavior Surveillance System - The Center for Disease Control & Prevention – USA: 1991 – 2001.

Characteristics of the High School Sample Participants Over the Entire Survey Period, 2000-2002

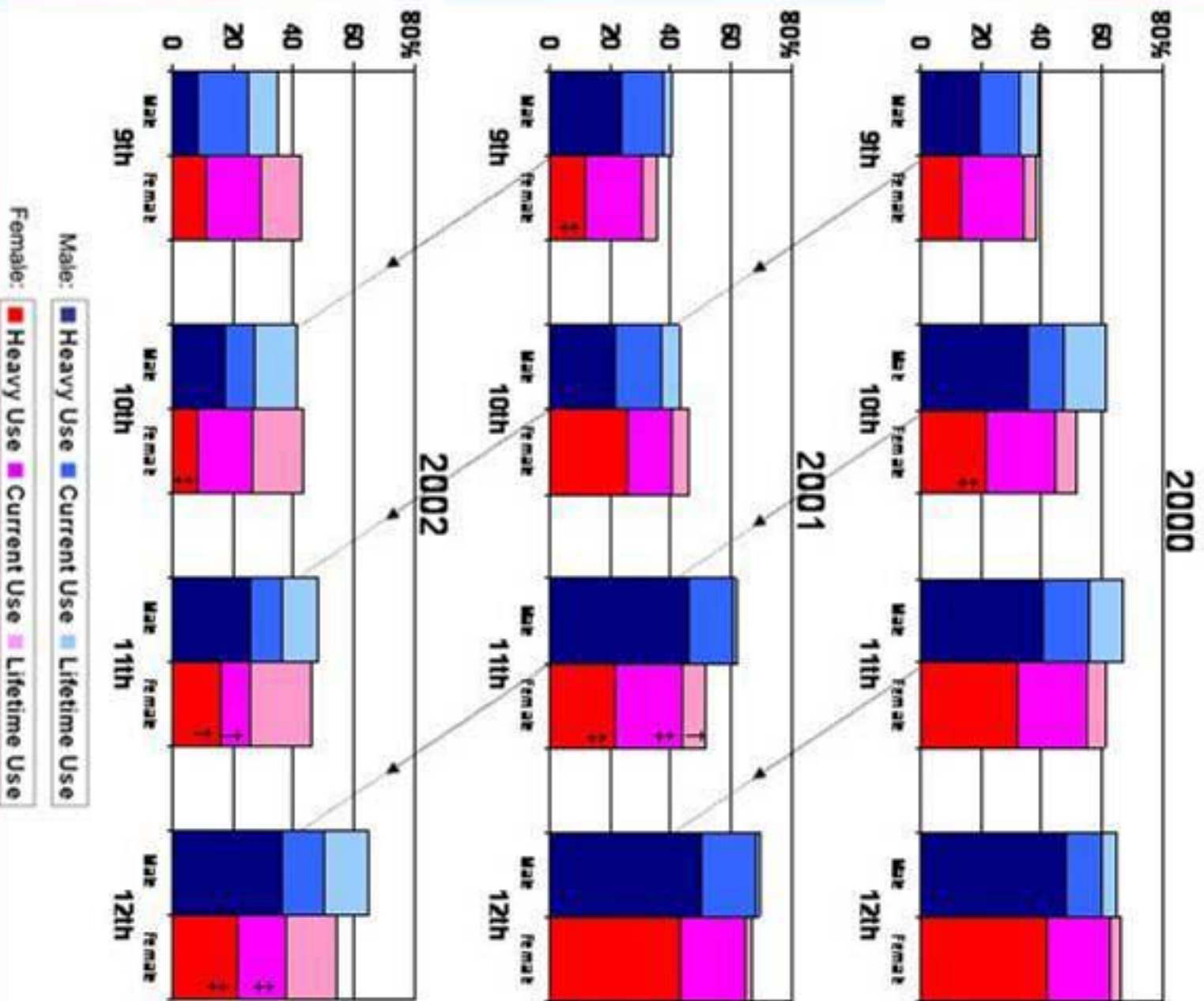
	Mean	%
Total School Population	1671	
Response Rate		80.0%
Rejection Rate (for Incompletion/Unusable)		4.0%
Gender		
Male		48.9%
Race		
White		75.1%
Black		23.8%
Other		1.2%
Grade		
9 th		27.0%
10 th		28.0%
11 th		24.0%
12 th		21.0%

Patterns of Alcohol Use Among 9th through 12th Graders in a St. Louis County High School by Gender, 2000-2002



[†]Statistically significant at $p < 0.05$ [‡]Statistically significant at $p < 0.01$

Patterns of Alcohol Use Among 9th Through 12th Graders
 in a St. Louis County High School by Year, Grade, and Gender, 2000-2002



†Statistically significant at $p < 0.05$ ‡Statistically significant at $p < 0.01$

Mean Number of Alcoholic Beverages Consumed 7 Days Prior to the Survey Among 9th Through 12th Graders Current Drinkers in a St. Louis County High School by Year, Grade, and Gender

	2000			2001			2002		
	N	Mean	Diff.	N	Mean	Diff.	N	Mean	Diff.
9th Grade									
Male	51	15.5		75	15.0		39	5.9	
Female	66	7.2	8.3*	58	10.8	4.2	46	5.5	0.4
10th Grade									
Male	85	17.6		59	16.6		54	10.2	
Female	80	10.7	6.9*	80	9.9	6.8*	51	5.7	4.5*
11th Grade									
Male	78	16.8		106	20.5		51	17.4	
Female	78	14.9	1.9	76	11.7	8.8*	46	9.4	8.0*
12th Grade									
Male	75	21.4		90	20.9		78	14.8	
Female	71	18.1	3.3	84	17.7	3.2	57	8.6	6.2*

*Statistically significant at $p < 0.05$

Summary of ANOVAs* for the Mean Number of Alcohol Beverages Consumed by 9th Through 12th Graders in a St. Louis County High School, 2000-2002

Source	df	Sum of Squares	Mean Squares	F Value	R ²
Main Effects					
Gender	1	8056.2	8056.2	50.4 [‡]	0.012
Grade Level	3	22702.0	7567.3	47.3 [‡]	0.034
Survey Year	2	16584.3	8292.1	51.9 [‡]	0.025
Interaction w/ Year					
Gender*Survey Year	2	410.7	205.3	1.28	0.000
Grade*Survey Year	2	2832.3	472.1	2.95 [‡]	0.004
Within Groups	3890	621832.9	159.9		
Total	3904	672418.3			

[‡] Statistically significant at $p < 0.01$

* Because we were unable to block by subject due to anonymity, these results are conservative.

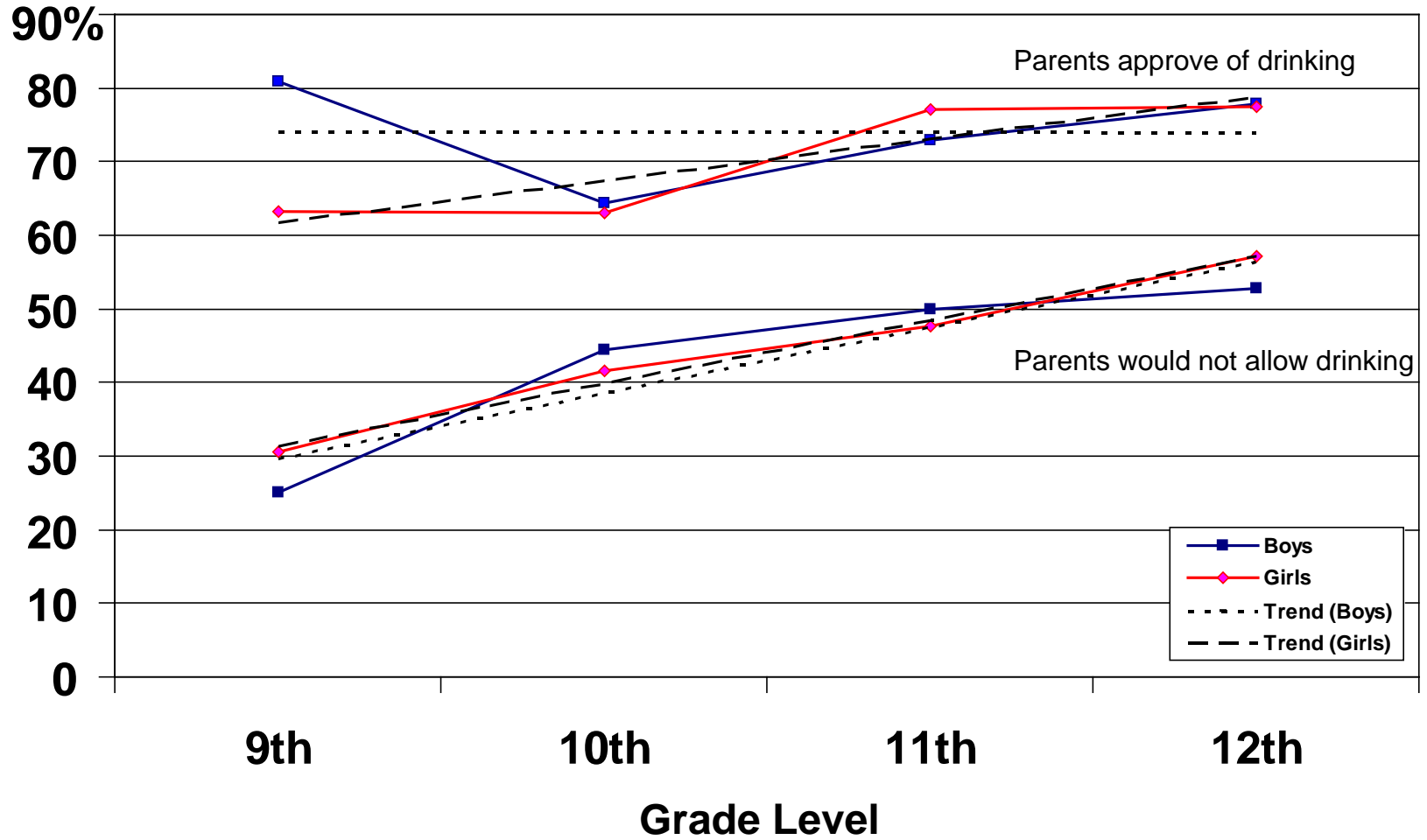
Negative Binomial Regression Model of the Number of
Drinks Past 7 Days Among 9th Through 12th
Grade Cohorts in a St. Louis County High School,
2000 - 2002

Parameter	Grade Cohorts							
	9 th		10 th		11 th		12 th	
	Estimate / T-Value	Estimate / T-Value	Estimate / T-Value	Estimate / T-Value	Estimate / T-Value	Estimate / T-Value	Estimate / T-Value	
Intercept	1.63	5.50	2.27	9.66	2.42	10.56	2.98	13.88
Male	0.48	2.60	0.50	3.12	0.72	4.62	0.38	2.68
Year	-0.37	-2.79	-0.56	-5.45	-0.44	-4.20	-0.46	-4.83
Grade								
Alpha	8.51	14.86	6.84	16.21	5.44	16.79	3.89	16.83
log Likelihood	-1713		-2137		-2268		-2314	
N	1049		1106		944		806	

Note: all estimates were statistically significant at $p < 0.05$

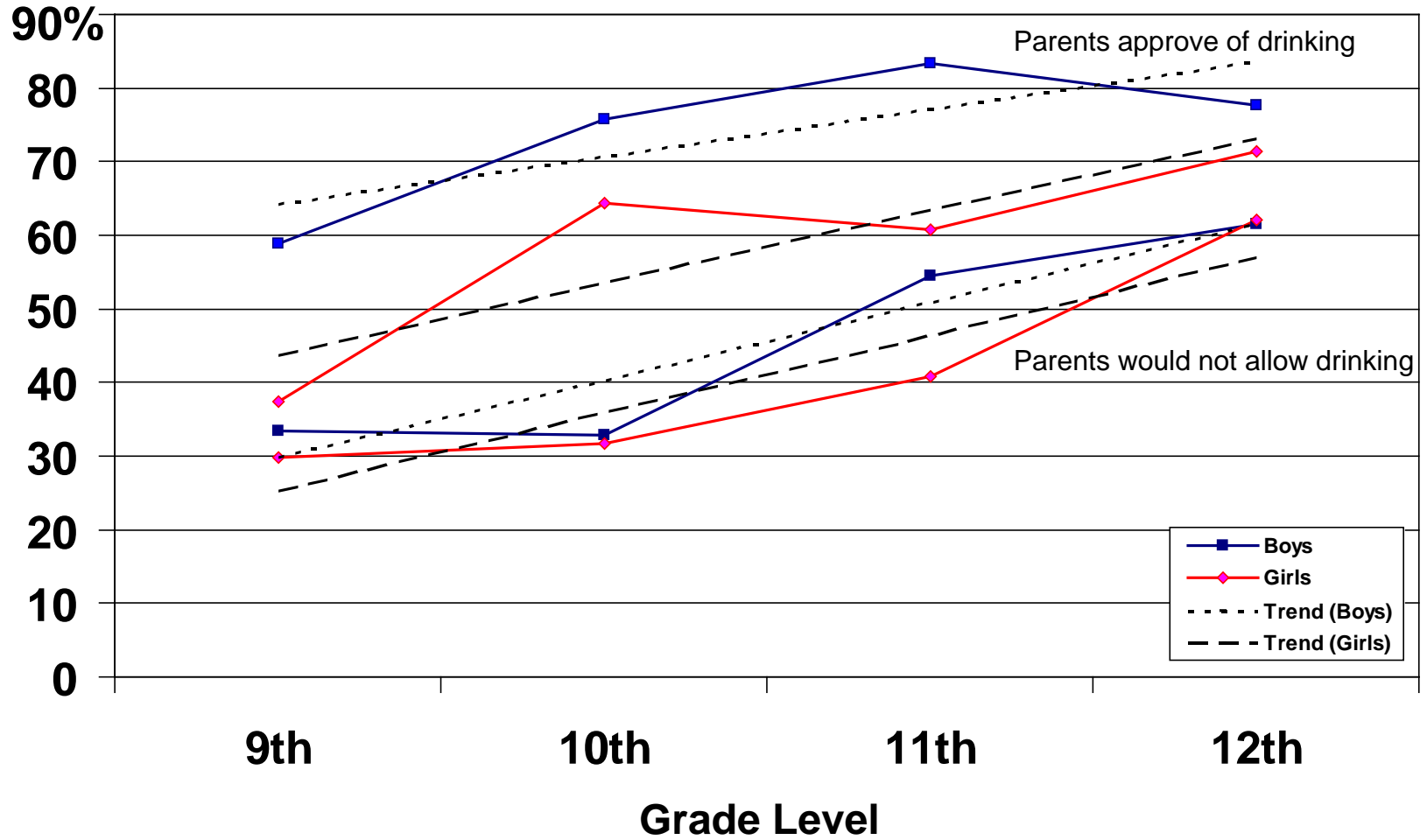
Proportion Who Drink by Parental Leniency Status

2000



Proportion Who Drink by Parental Leniency Status

2001



Proportion Who Drink by Parental Leniency Status

2002

