



University of  
Massachusetts  
Lowell

Center for Public Opinion

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<http://www.uml.edu/polls>

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## **Citizen Attitudes about Sports, Concussions and CTE**

**Survey Conducted by YouGov**  
5/31/16-6/6/16

N=1,000 American Adults  
Credibility Interval: +/-4.24% (adjusted for weights)  
National Internet Panel Survey matched to 2010 ACS

**Survey Design by Dr. Joshua J. Dyck and Dr. Jeffrey Gerson**

**Survey Analysis by Dr. Joshua J. Dyck**

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### **Methodology**

This poll was independently funded by the University of Massachusetts Lowell, designed and analyzed by the Center for Public Opinion and fielded by YouGov. Data was collected online using YouGov's convenience sample. YouGov interviewed 1152 respondents who were then matched down to a sample of 1000 to produce the final dataset. The respondents were matched to a sampling frame on gender, age, race, education, party identification, ideology, and political interest. The frame was constructed by stratified sampling from the full 2010 American Community Survey (ACS) sample with selection within strata by weighted sampling with replacements (using the person weights on the public use file). Data on voter registration status and turnout were matched to this frame using the November 2010 Current Population Survey. Data on interest in politics and party identification were then matched to this frame from the 2007 Pew Religious Life Survey. The matched cases were weighted to the sampling frame using propensity scores. The matched cases and the frame were combined and a logistic regression was estimated for inclusion in the frame. The propensity score function included age, gender, race/ethnicity, years of education, and ideology. The propensity scores were grouped into deciles of the estimated propensity score in the frame and post-stratified according to these deciles. The sample is representative of the US population with a credibility interval of +/-4.24% when adjusted for weighting.

[Q601]

**Generally speaking, how often would you say that you watch either sports or sports news on television?**

- 11% Every day
- 18 Most days (more than once a week)
- 15 Once a week
- 11 Once every few weeks
- 4 Once a month
- 4 Once a year
- 19 Almost never
- 18 Never

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Every day/Most days</b>	40	19	27	35	34	25
<b>Once a week – Once a month</b>	31	29	28	37	29	40
<b>Once a year – Never</b>	29	52	45	28	36	35

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Every day/Most days</b>	19	33	36	33	23	32	41	25
<b>Once a week – Once a month</b>	33	25	33	32	30	29	27	37
<b>Once a year – Never</b>	47	42	30	35	47	39	32	38

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Every day/Most days</b>	16	22	30	40	32	23	31
<b>Once a week – Once a month</b>	37	30	32	26	28	35	29
<b>Once a year – Never</b>	47	48	38	34	40	42	41

[Q602]

**And what professional or college sport would you say you watch most frequently?**

- 12 Baseball
- 11 Basketball
- 31 Football
- 2 Hockey
- 6 Soccer
- 3 Mixed Martial Arts/Ultimate Fighting
- 1 Tennis
- 5 Something else
- 28 I don't watch sports

[Q603-Q609]

Which of the following sports do you personally approve of children (under 18) participating in?

	Tackle Football	Basketball	Ice Hockey	Soccer	Baseball	Wrestling	Flag Football
<b>Approve</b>	50	87	60	84	87	60	77
<b>Disapprove</b>	33	5	25	7	5	23	8
<b>Don't Know</b>	17	8	16	9	8	17	14

**Tackle Football**

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Approve</b>	59	41	52	34	47	50
<b>Disapprove</b>	27	38	33	42	23	33
<b>Don't Know</b>	14	21	14	24	30	17

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Approve</b>	43	56	53	48	50	56	47	31
<b>Disapprove</b>	31	29	37	36	32	29	34	52
<b>Don't Know</b>	26	15	10	17	19	15	18	17

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Approve</b>	55	46	59	52	39	51	50
<b>Disapprove</b>	28	30	28	31	46	36	33
<b>Don't Know</b>	17	24	12	17	15	13	17

**Basketball**

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Approve</b>	88	86	89	78	87	86
<b>Disapprove</b>	6	4	5	5	5	7
<b>Don't Know</b>	6	10	6	18	8	7

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Approve</b>	82	88	92	95	85	89	86	93
<b>Disapprove</b>	6	7	3	2	5	4	7	0
<b>Don't Know</b>	12	589	5	3	10	7	7	7

**Basketball (continued)**

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Approve</b>	84	87	84	89	90	90	87
<b>Disapprove</b>	7	6	7	2	4	5	5
<b>Don't Know</b>	10	8	8	9	6	6	9

**Ice Hockey**

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Approve</b>	66	54	63	38	57	70
<b>Disapprove</b>	22	27	23	37	21	23
<b>Don't Know</b>	12	19	14	25	21	7

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Approve</b>	51	59	69	67	54	65	68	50
<b>Disapprove</b>	28	28	18	22	28	20	20	33
<b>Don't Know</b>	21	13	13	11	18	14	12	17

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Approve</b>	64	60	59	60	54	59	60
<b>Disapprove</b>	20	22	24	26	31	27	24
<b>Don't Know</b>	16	18	17	14	15	14	16

**Soccer**

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Approve</b>	86	82	85	66	88	88
<b>Disapprove</b>	8	7	6	16	6	6
<b>Don't Know</b>	6	12	8	18	7	5

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Approve</b>	77	86	89	90	80	86	85	90
<b>Disapprove</b>	11	5	5	6	10	5	6	2
<b>Don't Know</b>	12	8	5	4	10	8	9	8

**Soccer (continued)**

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Approve</b>	83	83	85	84	83	84	84
<b>Disapprove</b>	9	8	6	5	8	10	6
<b>Don't Know</b>	8	8	8	10	9	5	10

**Baseball**

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Approve</b>	89	85	88	76	89	87
<b>Disapprove</b>	6	4	5	7	3	7
<b>Don't Know</b>	5	11	7	17	8	6

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Approve</b>	82	87	92	95	85	87	90	91
<b>Disapprove</b>	7	7	3	1	6	5	5	2
<b>Don't Know</b>	11	6	4	4	10	8	5	6

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Approve</b>	81	90	88	87	89	87	87
<b>Disapprove</b>	11	3	4	4	3	7	4
<b>Don't Know</b>	9	7	8	9	7	6	8

**Wrestling**

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Approve</b>	69	52	63	42	59	68
<b>Disapprove</b>	19	27	24	29	15	18
<b>Don't Know</b>	12	21	13	28	27	14

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Approve</b>	50	60	71	70	51	70	64	62
<b>Disapprove</b>	27	24	20	19	28	19	21	19
<b>Don't Know</b>	23	16	10	11	22	11	15	18

**Wrestling (continued)**

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Approve</b>	57	56	65	66	54	59	61
<b>Disapprove</b>	23	25	21	19	28	28	21
<b>Don't Know</b>	20	19	14	14	18	13	18

**Flag Football**

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Approve</b>	83	72	80	67	72	83
<b>Disapprove</b>	7	9	8	13	6	10
<b>Don't Know</b>	10	19	12	20	22	8

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Approve</b>	65	83	86	86	69	84	81	89
<b>Disapprove</b>	13	6	6	3	11	6	6	5
<b>Don't Know</b>	22	11	8	11	19	10	14	7

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Approve</b>	73	79	82	81	75	79	77
<b>Disapprove</b>	13	9	6	5	8	11	7
<b>Don't Know</b>	13	16	12	14	16	10	16

[Q610-Q616]

**Would you approve or disapprove of your own child/children (under 18) participating in the following sports? (N=304)**

	Tackle Football	Basketball	Ice Hockey	Soccer	Baseball	Wrestling	Flag Football
<b>Approve</b>	43	88	51	83	85	51	69
<b>Disapprove</b>	44	5	36	10	9	37	21
<b>Don't Know</b>	13	7	14	7	6	12	10

*As you know, there has been a lot of talk about concussions and head injuries in sports as of late. We want to know what you think.*

[Q617]

**Generally speaking, how big of a problem to you think that concussions or head injuries are in sports? Are they...**

- 65% A major problem
- 29 A minor problem
- 4 Not much of a problem
- 2 Not a problem at all

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>A major problem</b>	58	72	65	76	66	59
<b>A minor problem</b>	36	22	33	13	28	17
<b>Not much of a problem</b>	5	4	2	5	5	23
<b>Not a problem at all</b>	1	2	1	6	1	1

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>A major problem</b>	64	62	64	74	66	61	62	83
<b>A minor problem</b>	27	32	31	22	27	32	35	17
<b>Not much of a problem</b>	5	6	4	4	6	5	2	0
<b>Not a problem at all</b>	4	1	1	0	2	2	*	0

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>A major problem</b>	60	62	55	66	80	63	66
<b>A minor problem</b>	32	32	37	30	16	30	29
<b>Not much of a problem</b>	6	4	7	3	3	7	4
<b>Not a problem at all</b>	2	3	2	1	*	1	2

	Watch Sports?		
	Frequently	Moderately	Rarely
<b>A major problem</b>	66	57	70
<b>A minor problem</b>	27	37	24
<b>Not much of a problem</b>	6	4	4
<b>Not a problem at all</b>	2	2	2

For the following statement, please indicate, to the best of your own knowledge whether they are certainly true, probably true, probably false or certainly false.

[Q618]

Version a (asked to ½ sample): **There is a settled science that playing football can cause a progressive degenerative brain disease called Chronic Traumatic Encephalopathy or “CTE”**

Version b (asked to ½ sample): **There is a settled science that playing football causes brain injuries**

	Version		
	a	b	Combined
<b>Certainly True</b>	31	32	32
<b>Probably True</b>	54	49	51
<b>Probably False</b>	13	18	15
<b>Certainly False</b>	3	1	2

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Certainly True</b>	32	31	32	37	23	37
<b>Probably True</b>	52	50	51	46	56	47
<b>Probably False</b>	14	16	15	15	15	15
<b>Certainly False</b>	2	2	2	1	6	1

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Certainly True</b>	31	27	30	38	33	28	30	44
<b>Probably True</b>	55	53	50	48	52	54	49	43
<b>Probably False</b>	13	16	18	12	14	15	20	11
<b>Certainly False</b>	1	3	2	1	2	3	2	2

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Certainly True</b>	35	25	33	36	27	30	32
<b>Probably True</b>	49	59	45	48	56	47	53
<b>Probably False</b>	14	12	19	15	15	19	14
<b>Certainly False</b>	2	3	4	2	1	4	2

	Watch Sports?		
	Frequently	Moderately	Rarely
<b>Certainly True</b>	32	31	32
<b>Probably True</b>	55	53	47
<b>Probably False</b>	10	16	17
<b>Certainly False</b>	2	*	4



[Q619]

**Repeated brain trauma that results in Chronic Traumatic Encephalopathy (CTE) is a serious public health issue**

36% Certainly True  
 51 Probably True  
 10 Probably False  
 3 Certainly False

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Certainly True</b>	29	42	36	53	22	40
<b>Probably True</b>	57	46	52	42	64	37
<b>Probably False</b>	11	9	11	2	7	17
<b>Certainly False</b>	3	3	2	3	7	6

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Certainly True</b>	35	27	39	46	37	31	36	45
<b>Probably True</b>	52	60	50	39	51	57	44	46
<b>Probably False</b>	11	8	9	12	9	8	18	7
<b>Certainly False</b>	2	5	2	3	3	4	2	2

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Certainly True</b>	30	36	29	34	49	35	36
<b>Probably True</b>	61	49	50	54	42	50	52
<b>Probably False</b>	8	8	18	10	7	12	9
<b>Certainly False</b>	1	7	3	3	2	3	3

	Watch Sports?		
	Frequently	Moderately	Rarely
<b>Certainly True</b>	35	38	35
<b>Probably True</b>	52	50	51
<b>Probably False</b>	9	10	10
<b>Certainly False</b>	3	2	4

[Q620]

**Heading the ball in soccer is safe for children before they reach high school**

6% Certainly True  
 34 Probably True  
 46 Probably False  
 14 Certainly False

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Certainly True</b>	8	4	4	12	9	7
<b>Probably True</b>	35	33	28	41	52	42
<b>Probably False</b>	45	46	52	27	35	44
<b>Certainly False</b>	12	16	16	20	5	7

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Certainly True</b>	4	5	8	9	7	6	3	6
<b>Probably True</b>	43	33	26	33	37	37	31	15
<b>Probably False</b>	40	51	53	39	40	44	57	60
<b>Certainly False</b>	13	11	14	19	16	13	9	20

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Certainly True</b>	6	9	10	4	2	7	6
<b>Probably True</b>	42	40	44	28	22	43	31
<b>Probably False</b>	43	42	38	52	49	40	48
<b>Certainly False</b>	8	9	8	16	27	10	15

	Watch Sports?		
	Frequently	Moderately	Rarely
<b>Certainly True</b>	8	6	5
<b>Probably True</b>	32	36	33
<b>Probably False</b>	46	45	47
<b>Certainly False</b>	14	13	15

[Q621]

**Tackle football is a safe activity for children before they reach high school**

6% Certainly True  
 31 Probably True  
 40 Probably False  
 23 Certainly False

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Certainly True</b>	8	4	5	11	7	8
<b>Probably True</b>	33	28	28	23	44	44
<b>Probably False</b>	39	42	42	41	38	26
<b>Certainly False</b>	20	26	26	25	11	22

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Certainly True</b>	8	5	5	5	8	5	1	4
<b>Probably True</b>	34	33	28	27	32	34	29	12
<b>Probably False</b>	37	42	43	38	36	40	48	48
<b>Certainly False</b>	20	21	24	30	23	20	22	36

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Certainly True</b>	7	12	8	3	2	12	4
<b>Probably True</b>	34	31	33	31	25	31	30
<b>Probably False</b>	40	39	40	43	39	37	42
<b>Certainly False</b>	19	18	19	24	34	20	24

	Watch Sports?		
	Frequently	Moderately	Rarely
<b>Certainly True</b>	7	7	4
<b>Probably True</b>	35	32	26
<b>Probably False</b>	37	41	41
<b>Certainly False</b>	20	20	29

[Q622]

**Tackle football is a safe activity for children during high school**

7% Certainly True  
 45 Probably True  
 32 Probably False  
 16 Certainly False

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Certainly True</b>	10	5	7	7	8	11
<b>Probably True</b>	48	42	43	42	50	52
<b>Probably False</b>	28	34	34	27	29	21
<b>Certainly False</b>	14	19	16	24	13	16

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Certainly True</b>	7	9	8	7	7	11	3	5
<b>Probably True</b>	47	51	42	34	49	43	45	27
<b>Probably False</b>	30	26	34	41	28	31	35	45
<b>Certainly False</b>	16	14	17	17	16	15	17	24

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Certainly True</b>	10	10	11	4	5	10	6
<b>Probably True</b>	47	47	44	46	39	46	45
<b>Probably False</b>	33	28	27	32	37	30	32
<b>Certainly False</b>	10	16	17	19	19	15	17

	Watch Sports?		
	Frequently	Moderately	Rarely
<b>Certainly True</b>	9	7	7
<b>Probably True</b>	48	48	41
<b>Probably False</b>	29	32	32
<b>Certainly False</b>	14	14	20

[Q624]

**At what age do you think it is appropriate to introduce tackling into football?**

- 9% At all ages
- 13 10 years and up
- 35 14 and up
- 23 18 and up
- 20 Never

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>At all ages</b>	12	6	8	8	11	10
<b>10 years and up</b>	16	10	12	14	17	7
<b>14 and up</b>	36	35	36	26	35	49
<b>18 and up</b>	21	24	22	32	19	23
<b>Never</b>	15	25	22	20	18	12

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>At all ages</b>	11	6	8	6	9	10	5	6
<b>10 years and up</b>	14	12	15	13	13	15	12	5
<b>14 and up</b>	31	41	37	33	36	37	33	31
<b>18 and up</b>	26	20	20	27	22	20	28	26
<b>Never</b>	19	21	19	21	19	18	21	32

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>At all ages</b>	13	11	10	6	5	10	8
<b>10 years and up</b>	13	14	14	16	7	21	10
<b>14 and up</b>	42	31	33	36	34	30	38
<b>18 and up</b>	22	24	28	19	25	20	24
<b>Never</b>	10	20	15	24	30	19	20

	Watch Sports?		
	Frequently	Moderately	Rarely
<b>At all ages</b>	8	8	10
<b>10 years and up</b>	17	15	9
<b>14 and up</b>	34	39	33
<b>18 and up</b>	20	25	23
<b>Never</b>	20	13	26

[Q625-Q631]

Consider the following organizations. For each, please indicate if you think that they have made appropriate changes, have not done enough, or have done too much in response to new evidence about concussions and brain injuries in sports?

ALL RESPONDENTS

	NFL	NCAA	NHL
<b>Appropriate Changes</b>	22	19	15
<b>Not Enough</b>	43	38	36
<b>Done Too Much</b>	4	2	3
<b>Don't Know</b>	31	41	46

	Local School or School District	Pop Warner Football	USA Hockey	US Soccer Federation
<b>Appropriate Changes</b>	16	11	12	14
<b>Not Enough</b>	30	25	30	27
<b>Too Much</b>	3	4	4	4
<b>Don't Know</b>	51	60	55	55

WITHOUT DON'T KNOWS

	NFL <sup>1</sup>	NCAA <sup>2</sup>	NHL <sup>3</sup>
<b>Appropriate Changes</b>	32	31	28
<b>Not Enough</b>	62	65	66
<b>Done Too Much</b>	5	4	6

1. n=696

2. n=601

3. n=555

	Local School or School District <sup>4</sup>	Pop Warner Football <sup>5</sup>	USA Hockey <sup>6</sup>	US Soccer Federation <sup>7</sup>
<b>Appropriate Changes</b>	33	28	26	31
<b>Not Enough</b>	61	62	66	61
<b>Too Much</b>	5	9	8	9

4. n=499

5. n=414

6. n=452

7. n=461

[Q625]

**The National Football League (NFL)**

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Appropriate Changes</b>	28	17	19	31	25	33
<b>Not Enough</b>	46	39	49	38	26	22
<b>Too Much</b>	5	3	4	1	5	6
<b>Don't Know</b>	21	42	28	30	44	39

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Appropriate Changes</b>	24	25	22	20	27	20	20	10
<b>Not Enough</b>	32	42	49	57	35	40	50	76
<b>Too Much</b>	3	4	7	1	2	4	6	3
<b>Don't Know</b>	42	30	21	22	35	35	24	11

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Appropriate Changes</b>	22	24	24	23	17	29	20
<b>Not Enough</b>	34	30	38	49	58	31	47
<b>Too Much</b>	6	7	2	2	2	4	3
<b>Don't Know</b>	38	39	36	26	23	36	30

	Watch Sports?		
	Frequently	Moderately	Rarely
<b>Appropriate Changes</b>	38	32	12
<b>Not Enough</b>	52	44	34
<b>Too Much</b>	4	4	3
<b>Don't Know</b>	16	20	51

[Q626]

**The National Collegiate Athletic Association (NCAA)**

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Appropriate Changes</b>	24	13	17	22	19	23
<b>Not Enough</b>	44	33	42	44	24	25
<b>Too Much</b>	1	3	2	1	6	3
<b>Don't Know</b>	31	51	39	33	51	49

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Appropriate Changes</b>	18	21	21	19	21	15	22	12
<b>Not Enough</b>	28	37	46	47	32	36	41	71
<b>Too Much</b>	1	4	3	1	2	4	2	1
<b>Don't Know</b>	52	39	30	33	44	46	35	17

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Appropriate Changes</b>	20	15	20	21	15	21	18
<b>Not Enough</b>	27	33	33	43	52	33	40
<b>Too Much</b>	1	5	3	2	*	3	2
<b>Don't Know</b>	52	47	43	33	33	43	40

	Watch Sports?		
	Frequently	Moderately	Rarely
<b>Appropriate Changes</b>	27	26	8
<b>Not Enough</b>	48	40	29
<b>Too Much</b>	1	4	3
<b>Don't Know</b>	25	31	61



[Q627]

**The National Hockey League (NHL)**

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Appropriate Changes</b>	20	10	14	20	17	9
<b>Not Enough</b>	38	34	39	37	24	32
<b>Too Much</b>	4	2	3	5	5	3
<b>Don't Know</b>	38	53	44	38	53	56

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Appropriate Changes</b>	13	16	19	16	17	12	19	7
<b>Not Enough</b>	26	32	44	46	32	35	34	63
<b>Too Much</b>	5	5	3	1	4	3	5	0
<b>Don't Know</b>	56	48	35	37	47	50	42	30

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Appropriate Changes</b>	11	19	21	14	14	22	13
<b>Not Enough</b>	28	25	27	44	50	29	38
<b>Too Much</b>	6	5	4	2	1	4	3
<b>Don't Know</b>	56	52	48	41	35	45	46

	Watch Sports?		
	Frequently	Moderately	Rarely
<b>Appropriate Changes</b>	21	21	7
<b>Not Enough</b>	45	35	29
<b>Too Much</b>	3	5	2
<b>Don't Know</b>	31	39	62

[Q628]

Your local school or school district

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Appropriate Changes</b>	19	13	16	21	14	17
<b>Not Enough</b>	33	27	33	28	20	24
<b>Too Much</b>	3	2	2	2	4	6
<b>Don't Know</b>	45	58	50	49	61	54

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Appropriate Changes</b>	13	17	23	14	16	16	19	11
<b>Not Enough</b>	21	28	35	38	30	27	24	54
<b>Too Much</b>	3	5	2	1	2	4	4	1
<b>Don't Know</b>	63	49	40	48	52	54	54	35

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Appropriate Changes</b>	17	17	18	16	14	25	13
<b>Not Enough</b>	18	24	26	38	40	27	31
<b>Too Much</b>	3	3	4	2	1	3	2
<b>Don't Know</b>	62	56	52	45	45	46	54

	Watch Sports?		
	Frequently	Moderately	Rarely
<b>Appropriate Changes</b>	24	18	9
<b>Not Enough</b>	35	30	25
<b>Too Much</b>	3	2	3
<b>Don't Know</b>	38	50	63

[Q629]

**Pop Warner Football**

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Appropriate Changes</b>	14	9	11	14	13	9
<b>Not Enough</b>	30	21	26	28	17	27
<b>Too Much</b>	4	4	3	8	6	1
<b>Don't Know</b>	52	67	60	50	64	64

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Appropriate Changes</b>	10	13	15	11	13	10	10	8
<b>Not Enough</b>	19	23	31	26	24	23	23	42
<b>Too Much</b>	5	5	3	3	4	5	4	0
<b>Don't Know</b>	66	58	52	60	59	62	63	50

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Appropriate Changes</b>	8	15	15	9	11	20	8
<b>Not Enough</b>	17	18	23	32	31	22	26
<b>Too Much</b>	6	4	5	3	1	6	3
<b>Don't Know</b>	69	63	57	56	56	52	63

	Watch Sports?		
	Frequently	Moderately	Rarely
<b>Appropriate Changes</b>	18	12	6
<b>Not Enough</b>	32	25	19
<b>Too Much</b>	4	7	2
<b>Don't Know</b>	46	56	73

[Q630]

**USA Hockey**

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Appropriate Changes</b>	15	8	11	19	13	6
<b>Not Enough</b>	33	27	31	39	20	23
<b>Too Much</b>	6	2	3	3	7	8
<b>Don't Know</b>	46	63	55	39	61	63

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Appropriate Changes</b>	11	13	14	10	13	12	12	5
<b>Not Enough</b>	25	26	37	32	30	27	24	51
<b>Too Much</b>	5	6	1	2	4	3	5	0
<b>Don't Know</b>	59	55	47	55	52	58	59	44

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Appropriate Changes</b>	7	16	16	11	11	16	10
<b>Not Enough</b>	24	21	24	36	40	29	30
<b>Too Much</b>	8	4	4	2	1	4	4
<b>Don't Know</b>	61	60	57	51	47	51	57

	Watch Sports?		
	Frequently	Moderately	Rarely
<b>Appropriate Changes</b>	16	16	6
<b>Not Enough</b>	40	29	23
<b>Too Much</b>	4	4	4
<b>Don't Know</b>	41	51	68

[Q631]

**U.S. Soccer Federation**

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
<b>Appropriate Changes</b>	18	10	14	15	16	6
<b>Not Enough</b>	29	26	28	30	22	31
<b>Too Much</b>	5	3	3	6	7	6
<b>Don't Know</b>	47	62	55	50	55	57

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
<b>Appropriate Changes</b>	10	14	20	15	15	13	12	11
<b>Not Enough</b>	21	25	32	34	26	26	23	49
<b>Too Much</b>	6	7	1	1	4	5	5	0
<b>Don't Know</b>	63	54	46	50	55	56	60	40

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
<b>Appropriate Changes</b>	8	16	15	16	13	21	11
<b>Not Enough</b>	19	18	24	33	40	25	28
<b>Too Much</b>	8	5	4	1	1	3	4
<b>Don't Know</b>	64	61	57	49	45	51	56

	Watch Sports?		
	Frequently	Moderately	Rarely
<b>Appropriate Changes</b>	20	16	8
<b>Not Enough</b>	35	28	21
<b>Too Much</b>	3	6	3
<b>Don't Know</b>	42	50	68

[Q632]

**Do you personally know anyone who has been diagnosed with Post-Concussion Syndrome?**

- 6% Yes
- 85 No
- 9 Don't know/Unsure