



THE ASPEN INSTITUTE

PROJECT PLAY

COVID-19 Parenting Survey

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BACKGROUND

1.1 Commissioning of the study

The Aspen Institute's Sports & Society Program has been in existence since 2013 and its primary mission is to convene leaders, foster dialogue, and inspire solutions that help sport serve the public interest, with a focus on the development of healthy children and communities. The program has successfully provided a venue for thought leadership where knowledge can be deepened and breakthrough strategies explored on a range of issues.

To date, its signature initiative has been *Project Play*. The Sports & Society Program has issued State of Play reports on the issues affecting youth sports engagement in Baltimore, Harlem, Mobile, Southeast Michigan, Western New York, Seattle-King County, and Hawaii. In Spring 2020, the team (Tom Farrey, Jon Solomon, Jennifer Brown Lerner) commissioned a national study to assess the state of youth sport in the United States during the coronavirus pandemic. The project was completed in partnership with Dr. Travis Dorsch, associate professor and founding director of the Families in Sport Lab at Utah State University and Dr. Jordan Blazo, assistant professor of kinesiology at Louisiana Tech University.

Since March 2020, COVID-19 has had a profound impact on the communities, organizations, and families who engage in youth sports in the United States. The study described in this report utilized a nationally representative sample of 1103 youth sport parents whose children had participated regularly in one or more youth sports prior to COVID-19-related restrictions. The study builds on similar data collected in May (North Carolina State University) and June (Utah State University) and sought to address the behaviors and expectations of children, parents, and families in youth sport in the current context of COVID-19. In line with this aim, the study queried parents about the current state of youth sport amidst the pandemic, as well as their expectations for return-to-play protocols in various organizational, community, and societal contexts. In this report, parents are defined as the biological, adoptive, or otherwise regular caregivers of a child. This included mothers and fathers, step parents, aunts and uncles, godparents, foster parents, and grandparents who served as primary caregivers.

The survey, hosted and distributed by Qualtrics International, Inc. in Provo, Utah, was a study designed instrument built by the Aspen Institute Sports & Society Program, through scientific consultation with Drs. Dorsch and Blazo. Some questions were re-used from a recent Aspen Institute collaboration with North Carolina State University and the majority mirrored the June survey conducted by Utah State University. The initial section of the survey asked parents to answer sociodemographic items about themselves, their children, and their families. The second section asked parents to summarize the sport participation behaviors of their children in sport. The third section asked parents to identify barriers to their children's future participation when normal play resumes. The final survey section asked parents to disclose the outcomes they held most important prior to the COVID-19 pandemic and to speculate on the outcomes they would value most when normal play resumes. Data were collected online between September 1 and September 27, 2020.

This report extends knowledge on the state of youth sports in the United States during COVID-19-related restrictions on youth sport. The results presented herein will be used to guide Aspen’s Sports & Society programming, including the continued refinement of *Project Play’s* “Call for Leadership” for stakeholders that was released in parallel with the most recent Project Play Summit. Although wide-ranging, this report is not comprehensive; additional analyses are to be conducted by Drs. Dorsch and Blazo at the discretion of the Sports & Society Program. Multiple manuscripts outlining this study’s findings are also being prepared for submission to peer-reviewed journal outlets. For academic or media requests regarding the data herein, please contact [Jon Solomon](#), editorial director of the Sports & Society Program at the Aspen Institute.

Many thanks to members of *Project Play 2020* for making this research possible.

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THE NATIONAL SAMPLE

2.1 Parent demographics

SURVEY ITEM: *What is your age?*

<i>N</i>	<i>Mean</i>	<i>SD</i>	<i>Range</i>
1103	41.58	9.87	20-89

TAKE HOME: The national sample was comprised of 1103 parents ranging in age from 20 to 89 ($M = 41.58$).

SURVEY ITEM: *What is your sex?*

	<i>n</i>	<i>% of sample</i>
Male	552	50.0%
Female	548	49.7%
Non-binary	3	0.3%

TAKE HOME: Of the 1103 parents, 552 males and 548 females completed the survey. Three participants identified as non-binary.

SURVEY ITEM: *What is your race?*

	<i>n</i>	<i>% of sample</i>
American Indian or Alaskan Native	6	0.5%
Asian	62	5.6%
Black or African American	148	13.4%
Hispanic, Latino, or Spanish Origin	182	16.5%
Native Hawaiian or Pacific Islander	2	0.2%
White	688	62.4%
Multiracial	11	1.0%
Prefer not to say	2	0.2%
Other	2	0.2%

TAKE HOME: Though predominantly White (62.3%), the distribution of parent races aligns roughly with published national averages ([US Census Bureau, 2020](#)).

SURVEY ITEM: *What is your current relationship status?*

	<i>n</i>	<i>% of sample</i>
Married	815	73.8%
Single, never married	108	9.8%
Living with partner, not married	72	6.6%
Widowed	20	1.8%
Divorced	69	6.3%
Separated	19	1.7%
Other	0	0.0%

TAKE HOME: Though coming primarily from married relationships (73.8%), parents represented a range of relationship statuses.

SURVEY ITEM: *What is the highest degree or level of school you have achieved?*

	<i>n</i>	<i>% of sample</i>
Less than high school	2	0.2%
Some high school	5	0.5%
High school graduate or GED	132	12.0%
Some college	185	16.7%
Associate's degree	132	12.0%
Bachelor's degree	334	30.3%
Post-college / Graduate degree	313	28.3%

TAKE HOME: A majority (58.6%) of parents had attained a four-year degree (or higher), whereas 41.3% reported having attained less than a four-year college degree.

SURVEY ITEM: *What is your current employment status?*

	<i>n</i>	<i>% of sample</i>
Full-time	744	67.4%
Part-time	87	7.9%
Self-employed	45	4.1%
Out of work due to COVID-19	47	4.3%
Out of work, not due to COVID-19	14	1.3%
Homemaker	105	9.5%
Student	6	0.5%
Retired	29	2.6%
Unable to work	22	2.0%
Other	4	0.4%

TAKE HOME: Most parents (67.4%) were in full-time positions, but participants represented a range of employment statuses. Of note, 4.3% reported being out of work due to COVID-19 (down from 7.5% in the June survey).

2.2. Athlete demographics

SURVEY ITEM: *What is your oldest child's age?*

<i>N</i>	<i>Mean</i>	<i>SD</i>	<i>Range</i>
1103	12.46	3.20	6-18

TAKE HOME: Participating parents answered questions related to their oldest child ($N = 1103$) who was an active participant in youth sport prior to COVID-19-related restrictions. These athletes ranged in age from 6 to 18 years ($M = 12.46$ years).

SURVEY ITEM: *What is your oldest child's sex?*

	<i>n</i>	<i>% of sample</i>
Male	677	61.3%
Female	424	38.5%
Non-binary	2	0.2%

TAKE HOME: The 1103 athletes on whom parents reported were 677 males and 424 females. Just two children were identified by a parent participant as non-binary.

2.3 Household demographics

SURVEY ITEM: *In what state does your family currently reside?*

	<i>n</i>	<i>% of sample</i>
Alabama	14	1.3%
Alaska	5	0.5%
Arizona	24	2.2%
Arkansas	5	0.5%
California	99	9.0%
Colorado	16	1.4%
Connecticut	12	1.1%
Delaware	1	0.1%
Florida	89	8.1%
Georgia	47	4.3%
Hawaii	7	0.6%
Idaho	6	0.5%
Illinois	49	4.4%
Indiana	22	2.0%
Iowa	8	0.7%
Kansas	10	0.9%
Kentucky	9	0.8%
Louisiana	25	2.3%
Maine	4	0.4%
Maryland	29	2.6%
Massachusetts	27	2.4%
Michigan	23	2.1%
Minnesota	15	1.4%
Mississippi	6	0.5%
Missouri	21	1.9%
Montana	3	0.3%

	<i>n</i>	<i>% of sample</i>
Nebraska	3	0.3%
Nevada	9	0.8%
New Hampshire	3	0.3%
New Jersey	39	3.5%
New Mexico	4	0.4%
New York	89	8.1%
North Carolina	43	3.9%
North Dakota	3	0.3%
Ohio	52	4.7%
Oklahoma	11	1.0%
Oregon	11	1.0%
Pennsylvania	46	4.2%
Rhode Island	2	0.2%
South Carolina	10	0.9%
South Dakota	2	0.2%
Tennessee	25	2.3%
Texas	78	7.1%
Utah	10	0.9%
Vermont	1	0.1%
Virginia	45	4.1%
Washington	19	1.7%
West Virginia	6	0.5%
Wisconsin	10	0.9%
Wyoming	1	0.1%
Washington DC	5	0.5%

TAKE HOME: Families whose parents participated in the survey represented all 50 states and the District of Columbia. Respondents per state ranged from 1 (in Vermont) to 99 (California) ($M = 21.63$ respondents per state). The five most represented states (California, Florida, New York, Texas, Ohio) each had greater than 50 respondents and collectively represent 36.9% of the study sample.

COMPUTED VARIABLE: US region

	<i>n</i>	<i>% of sample</i>
Northeast	223	20.2%
Southeast	359	32.5%
Midwest	218	19.8%
Southwest	117	10.6%
West	186	16.9%

NOTE: Regions are based on the National Geographic Society's 2020 breakdown of [United States Regions](#): **Northeast:** Connecticut, Massachusetts, Maine, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont. **Southeast:** Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia, Washington DC. **Midwest:** Indiana, Illinois, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin. **Southwest:** Arizona, New Mexico, Oklahoma, Texas. **West:** Alaska, California, Colorado, Hawaii, Idaho, Oregon, Montana, Nevada, Utah, Washington, Wyoming

TAKE HOME: A plurality (32.5%) of families resided in the Southeast region of the United States. The four other regions were comprised of between 10.6% and 20.2% of the study population, respectively.

SURVEY ITEM: *Please describe your community/neighborhood.*

	<i>n</i>	<i>% of sample</i>
Urban	520	47.1%
Suburban	422	38.2%
Rural	161	14.6%

TAKE HOME: Families whose parents participated in the survey represented primarily urban (47.1%) and suburban (38.2%) households.

SURVEY ITEM: *What is your family's ANNUAL income (across all earners, before taxes)?*

<i>Mean</i>	<i>Median</i>	<i>SD</i>	<i>Range</i>
\$102,833.02	\$70,000.00	\$190,511.58	\$0-\$3,250,000

TAKE HOME: The 1103 parent respondents reported gross annual incomes ranging from \$0 to \$3,250,000 ($M = \$102,833.02$). Of note, the median income of households in the sample was \$70,000, which is a close approximation of the national average of \$68,703 ([US Census Bureau, 2020](#)).

SURVEY ITEM: *How many children aged 18 or younger are currently living in your household?*

<i>Mean</i>	<i>SD</i>	<i>Range</i>
1.94	1.12	1-10

TAKE HOME: Parents reported having from 1 to 10 children currently living in the household ($M = 1.94$).

SURVEY ITEM: *How many of these children regularly participated and/or competed in youth sports prior to COVID-19-related restrictions?*

<i>Mean</i>	<i>SD</i>	<i>Range</i>
1.61	1.09	1-10

NOTE: In line with past work conducted by the Aspen Institute Sports & Society Program, “regularly” was defined as a minimum of 35 practice, training, or competition days over a 12-month period.

TAKE HOME: Parents reported having from 1 to 10 children in the household who participated regularly in youth sports prior to the COVID-19 pandemic ($M = 1.61$).

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DESCRIPTIVE STATISTICS

3.1 Sport participation

SURVEY ITEM: *Please select the sport(s) in which your child regularly participated and/or competed prior to COVID-19-related restrictions.*

	<i>n</i>	<i>% of sample</i>
Baseball	317	28.7%
Basketball	459	41.6%
Bicycling	109	9.9%
Cross country	80	7.3%
Field hockey	58	5.3%
Flag football	198	18.0%
Tackle football	187	17.0%
Golf	100	9.1%
Gymnastics	112	10.2%
Ice hockey	49	4.4%
Lacrosse	37	3.4%
Martial arts	106	9.6%
Skateboarding	49	4.4%
Skiing/Snowboarding	33	3.0%
Soccer	335	30.4%
Softball	94	8.5%
Swimming	157	14.2%
Tennis	154	14.0%
Track & field	109	9.9%
Volleyball	106	9.6%
Wrestling	41	3.7%
Other	46	4.2%

NOTE: The total column N and the cumulative percentages are greater than 1103 and 100%, respectively, because the majority of children participated in more than one sport.

TAKE HOME: Parents reported that the most commonly participated in youth sports were basketball (41.6% of the sample), soccer (30.4%), and baseball (28.7%).

SURVEY ITEM: *Of the sports you just identified, which would you consider your child's PRIMARY sport?*

	<i>n</i>	<i>% of sample</i>
Baseball	142	12.9%
Basketball	262	23.8%
Bicycling (team or competitive)	22	2.0%
Cross country	20	1.8%
Field hockey	8	0.7%
Football (flag)	62	5.6%
Football (tackle)	88	8.0%
Golf	22	2.0%
Gymnastics	39	3.5%
Ice hockey	8	0.7%
Lacrosse	4	0.4%
Martial arts	36	3.3%
Skateboarding	4	0.4%
Skiing/snowboarding	4	0.4%
Soccer	167	15.1%
Softball	28	2.5%
Swimming (team)	47	4.3%
Tennis	39	3.5%
Track and field	27	2.4%
Volleyball (court or beach)	36	3.3%
Wrestling	7	0.6%
Other	31	2.8%

TAKE HOME: Parents reported that their children’s most common primary sports were basketball (23.8% of the sample), soccer (15.1%), and baseball (12.9%).

SURVEY ITEM: *Prior to COVID-19-related restrictions, how often did your child participate in scheduled/organized practices or competitions for their PRIMARY sport?*

	<i>n</i>	<i>% of sample</i>
1 day per week	90	8.2%
2 days per week	236	21.4%
3 days per week	290	26.3%
4 days per week	205	18.6%
5 days per week	189	17.1%
6 days per week	56	5.1%
7 days per week	37	3.3%

	<i>n</i>	<i>% of sample</i>
1-2 days per week	326	29.6%
3-5 days per week	684	62.0%
6-7 days per week	93	8.4%

<i>Mean</i>	<i>SD</i>	<i>Range</i>
3.44	1.49	1-7

TAKE HOME: The majority of parents (62.0%) reported that their children participated in a primary sport 3 to 5 days a week prior to COVID-19-related restrictions.

SURVEY ITEM: *How many hours a week did your child engage in the following before (and during) COVID-19 restrictions?*

	BEFORE COVID-19					DURING COVID-19				
	<i>Pickup/Free play</i>	<i>Virtual Training</i>	<i>Focused Practice or Drills</i>	<i>Games or Competition</i>	TOTAL	<i>Pickup/Free play</i>	<i>Virtual Training</i>	<i>Focused Practice or Drills</i>	<i>Games or Competition</i>	TOTAL
Baseball	2.91	1.68	4.35	4.11	13.05	1.98	1.82	2.87	2.34	9.00
Basketball	3.58	1.69	3.77	3.26	12.30	2.31	1.72	1.90	1.36	7.28
Bicycling	3.17	2.76	2.11	2.45	10.51	2.78	2.67	2.47	2.46	10.39
Cross country	1.70	0.70	5.65	1.65	9.70	2.10	0.80	4.05	0.90	7.85
Field hockey	2.50	2.38	3.63	4.38	12.88	1.25	3.38	2.00	2.88	9.50
Football (flag)	3.32	2.93	3.32	3.19	12.71	2.44	2.31	2.19	2.03	8.97
Football (tackle)	2.92	1.44	5.25	3.32	12.93	1.75	2.31	3.73	2.17	9.96
Golf	2.64	1.82	1.68	1.45	7.48	1.75	2.18	1.77	2.23	7.93
Gymnastics	2.03	0.74	4.36	1.95	9.08	0.97	1.56	1.18	0.67	4.38
Ice hockey	1.38	1.50	1.88	1.88	6.63	0.38	0.88	1.00	0.13	2.38
Lacrosse	0.75	3.00	3.00	0.75	7.50	4.00	0.25	1.50	0.00	5.75
Martial arts	2.08	0.36	3.50	1.97	7.92	0.94	0.39	1.08	0.39	2.81
Skateboarding	7.75	0.00	0.50	0.00	8.25	2.50	0.00	0.00	0.00	2.50
Skiing/Snowboarding	2.75	2.75	2.50	3.25	11.25	2.50	3.00	3.25	2.25	11.00
Soccer	2.97	1.08	3.57	3.14	10.73	2.21	1.26	1.66	1.21	6.34
Softball	2.50	0.89	4.00	3.96	11.36	1.11	0.50	1.79	1.04	4.43
Swimming	2.66	1.64	3.80	2.53	10.63	1.91	1.89	2.12	1.89	7.82
Tennis	3.24	1.47	2.96	3.31	10.89	1.87	1.56	1.51	1.36	6.31
Track & field	2.04	0.74	4.69	4.22	11.69	2.22	2.26	1.70	0.52	6.70
Volleyball	2.83	0.92	5.31	4.31	13.36	1.14	1.44	2.33	1.19	6.11
Wrestling	3.29	0.14	7.00	3.57	14.00	0.57	0.00	0.57	0.57	1.71
Other sports	1.68	0.55	4.35	2.39	8.97	1.29	0.45	1.97	0.23	3.94
TOTAL	2.95	1.46	3.93	3.18	11.51	1.96	1.63	2.13	1.49	7.21

	Pickup/Free play	Virtual Training	Focused Practice or Drills	Games or Competition	TOTAL
BEFORE COVID-19	2.95	1.46	3.93	3.18	11.51
DURING COVID-19	1.96	1.63	2.13	1.49	7.21
Change (hours)	-.99	.17	-1.80	-1.69	-4.30
Change (%)	-33.6%	11.6%	-45.8%	-53.1%	-37.4%

TAKE HOME: Average weekly sport participation was 11.51 hours/week prior to COVID-19-related restrictions. At the time of survey completion, average weekly sport participation had dropped to 7.21 hours per week. Apparent in the reporting is that weekly hours spent in pickup/free play (-33.6%), focused practice or drills (-45.8%), and games or competition (-53.1%) have dropped substantially while weekly hours spent in virtual training (+11.6%) has seen a marginal increase since COVID-19 restrictions were put in place. For breakdowns by US region, community type, race, child sex, household income, child age, primary sport, and state, see Chapter 5.

SURVEY ITEM: *In their PRIMARY sport, what context did your child participate in prior to COVID-19-related restrictions?*

	<i>n</i>	<i>% of sample</i>
Free play	208	27.7%
Community based	305	15.1%
Intramural sports at school	167	29.0%
Interscholastic school sports	320	9.3%
Travel/elite or club league sports	103	18.9%

TAKE HOME: Prior to COVID-19-related restrictions, more than three in four children (75.8%) participated primarily in recreation-focused sports (free play, community based, and intramural sports at school).

SURVEY ITEM: *Are free play opportunities presently available to your child?*

	<i>n</i>	<i>% of sub-sample</i>
Yes, at the same level as before	142	68.3%
Yes, but not at the same level	43	20.7%
No	23	11.0%

TAKE HOME: Of the 208 parents who reported that their children participated mostly in free play opportunities prior to COVID-19-related restrictions, more than two in three (68.3%) said that free play opportunities were presently available at the same level as before.

SURVEY ITEM: *Are community based sport opportunities presently available to your child?*

	<i>n</i>	<i>% of sub-sample</i>
Yes, at the same level as before	155	50.8%
Yes, but not at the same level	79	25.9%
No	71	23.3%

TAKE HOME: Of the 305 parents who reported that their children participated mostly in community based sport opportunities prior to COVID-19-related restrictions, just more than half (50.8%) said that community based sport opportunities were presently available at the same level as before.

SURVEY ITEM: *When school resumes, will intramural sport opportunities at school be available to your child?*

	<i>n</i>	<i>% of sub-sample</i>
Yes, at the same level as before	82	49.1%
Yes, but not at the same level	41	24.6%
No	10	6.0%
We don't know yet	34	20.3%

TAKE HOME: Of the 167 parents who reported that their children participated mostly in intramural sport opportunities prior to COVID-19-related restrictions, just under half (49.1%) said that intramural sport opportunities were presently available at the same level as before. More than one in five (20.3%) didn't yet know.

SURVEY ITEM: *When school resumes, will interscholastic sport opportunities at school be available to your child?*

	<i>n</i>	<i>% of sub-sample</i>
Yes, at the same level as before	117	36.6%
Yes, but not at the same level	82	25.6%
No	33	10.3%
We don't know yet	88	27.5%

TAKE HOME: Of the 320 parents who reported that their children participated mostly in interscholastic sport opportunities prior to COVID-19-related restrictions, less than four in ten (36.6%) said that interscholastic sport opportunities were presently available at the same level as before. More than one in four (27.5%) didn't yet know.

SURVEY ITEM: *Are travel/elite club sport opportunities presently available to your child?*

	<i>n</i>	<i>% of sub-sample</i>
Yes, at the same level as before	41	39.8%
Yes, but not at the same level	32	31.1%
No	30	29.1%

TAKE HOME: Of the 103 parents who reported that their children participated mostly in travel/elite club sport opportunities prior to COVID-19-related restrictions, just under four in ten (39.8%) said that travel/elite club sport opportunities were presently available at the same level as before.

3.2 COVID-19-related Barriers to Participation

SURVEY ITEM: Please indicate your level of agreement with the following statements about potential barriers to your child resuming sports when current restrictions due to COVID-19 are removed.

	Fear of illness (Child)	Fear of illness (Parent)	Schedule conflicts	Child not interested	Transport difficulty
Baseball	3.50	3.28	2.65	2.31	2.40
Basketball	3.76	3.55	3.13	2.48	2.86
Bicycling	3.82	3.82	3.32	3.23	3.59
Cross country	3.70	3.45	3.00	2.55	2.80
Field hockey	4.50	3.88	3.63	3.38	3.63
Flag football	3.82	3.71	3.52	3.08	3.47
Tackle football	3.80	3.53	2.91	2.33	2.47
Golf	3.77	3.59	3.68	3.41	3.55
Gymnastics	3.33	3.23	3.08	2.18	2.56
Ice hockey	3.13	2.75	2.25	1.75	1.88
Lacrosse	3.75	4.25	2.75	2.00	2.75
Martial arts	3.56	3.36	2.64	2.17	2.08
Skateboarding	3.50	3.00	3.25	2.50	2.25
Skiing/Snowboarding	3.00	3.25	2.50	2.75	3.25
Soccer	3.46	3.40	2.56	2.16	2.22
Softball	3.54	3.54	3.14	2.54	2.71
Swimming	3.89	3.79	3.38	2.81	2.89
Tennis	3.87	3.77	3.38	2.82	3.13
Track & field	3.33	3.19	2.67	2.15	2.44
Volleyball	3.61	3.53	2.94	2.08	2.44
Wrestling	3.57	3.86	3.00	2.14	2.43
Other sports	2.97	2.81	2.10	2.03	1.74
TOTAL	3.63	3.47	2.95	2.44	2.64

NOTE: Data were collected on a scale ranging from 1 (*strongly disagree*) to 5 (*strongly agree*)

	Strongly Disagree 1	Disagree 2	Neither Agree nor Disagree 3	Agree 4	Strongly Agree 5
Fear of illness (Child)	11.7%	11.1%	13.4%	30.4%	33.5%
	22.8%			63.9%	
Fear of illness (Parent)	10.7%	14.6%	15.4%	35.3%	24.0%
	25.3%			59.3%	
Schedule conflicts	20.9%	20.6%	18.4%	22.9%	17.1%
	41.5%			40.0%	
Child not interested	39.5%	19.0%	12.5%	16.0%	12.9%
	58.5%			28.9%	
Transport difficulty	31.0%	22.2%	14.5%	15.9%	16.4%
	53.2%			32.3%	

TAKE HOME: Parents reported a relatively consistent concern regarding a fear of illness for their child and for themselves ($M = 3.63$ and $M = 3.47$, respectively). These values are up slightly from 3.57 and 3.31 in June. Their children no longer being interested when sports return ($M = 2.44$) was parents' lowest rated concern. This value was, however, up from 2.24 in June. Overall, 63.9% of parents either "agreed" or "strongly agreed" that fear of illness for their child was a barrier to their child resuming sports when restrictions due to COVID-19 are removed (up from 60.6% in June). A majority (59.3%) also "agreed" or "strongly agreed" that fear of illness for themselves was a barrier to their child resuming sports when current restrictions due to COVID-19 are removed (up from 52.7% in June). For breakdowns by US region, community type, race, child sex, household income, child age, primary sport, and state, see Chapter 5.

3.3 Sport and physical activity outcomes

SURVEY ITEM: Please rate the importance of the following outcomes for your child in _____ BEFORE COVID-19-related restrictions.

	<i>Fun</i>	<i>Peer relationships</i>	<i>Social skills</i>	<i>Sport skills</i>	<i>Physical health</i>	<i>Mental health</i>	<i>Competition</i>
Baseball	4.46	4.32	4.44	4.30	4.56	4.53	4.13
Basketball	4.32	4.21	4.26	4.16	4.40	4.35	4.00
Bicycling	4.14	4.18	4.18	4.00	4.32	4.36	3.86
Cross country	4.55	4.25	4.25	4.10	4.45	4.55	4.05
Field hockey	4.25	3.88	4.38	4.63	4.38	4.25	4.25
Flag football	4.32	4.23	4.31	4.37	4.34	4.35	4.10
Tackle football	4.38	4.20	4.28	4.27	4.57	4.56	4.17
Golf	4.14	4.05	4.14	4.27	4.32	4.32	3.91
Gymnastics	4.51	4.36	4.41	4.15	4.49	4.59	3.67
Ice hockey	4.50	4.38	4.38	3.75	4.50	4.50	4.00
Lacrosse	4.50	4.38	4.38	3.75	4.50	4.50	4.00
Martial arts	3.25	4.25	4.25	4.25	4.25	4.50	3.50
Skateboarding	4.53	4.00	4.19	4.11	4.50	4.50	3.22
Skiing/Snowboarding	5.00	3.50	4.00	3.50	4.75	4.50	2.75
Soccer	3.75	3.50	3.50	3.75	3.75	4.00	3.50
Softball	4.44	4.22	4.31	4.02	4.51	4.51	3.84
Swimming	4.36	4.14	4.21	4.11	4.43	4.29	3.75
Tennis	4.19	3.91	4.00	3.96	4.19	4.17	3.85
Track & field	4.36	4.21	4.49	4.28	4.59	4.44	3.85
Volleyball	4.52	4.52	4.41	4.37	4.59	4.52	4.15
Wrestling	4.42	4.28	4.53	4.08	4.42	4.58	3.97
Other sports	4.57	4.14	4.29	4.29	4.29	4.29	4.29
TOTAL	4.37	4.20	4.3	4.16	4.45	4.44	3.94

NOTE: Data were collected on a scale ranging from 1 (*extremely unimportant*) to 5 (*extremely important*).

	<i>Strongly Disagree</i> 1	<i>Disagree</i> 2	<i>Neither Agree nor Disagree</i> 3	<i>Agree</i> 4	<i>Strongly Agree</i> 5
Fun	2.5%	2.3%	7.2%	31.4%	56.7%
	4.8%			88.1%	
Peer relationships	1.9%	3.4%	11.4%	39.3%	44.1%
	5.3%			83.4%	
Social skills	2.0%	2.0%	9.3%	37.4%	49.2%
	4.0%			86.6%	
Sport skills	1.5%	3.0%	13.0%	42.5%	40.0%
	4.5%			82.5%	
Physical health	1.9%	1.2%	6.4%	30.6%	59.9%
	3.1%			90.5%	
Mental health	1.6%	2.1%	6.4%	30.3%	59.6%
	3.7%			89.9%	
Competition	3.3%	5.1%	20.3%	37.3%	34.1%
	8.4%			71.4%	

TAKE HOME: Parents reported a relatively high desire for all sport outcomes prior to COVID-19-related restrictions. Notably, parents' desire for competition ($M = 3.94$) was lower than other outcomes, but higher than in June ($M = 3.70$).

SURVEY ITEM: Please rate the importance of the following outcomes for your child in _____ AFTER COVID-19-related restrictions are lifted.

	<i>Fun</i>	<i>Peer relationships</i>	<i>Social skills</i>	<i>Sport skills</i>	<i>Physical health</i>	<i>Mental health</i>	<i>Competition</i>
Baseball	4.56	4.43	4.43	4.35	4.56	4.60	4.18
Basketball	4.21	4.19	4.27	4.16	4.37	4.37	3.94
Bicycling	4.36	4.18	4.05	4.18	4.36	4.23	4.09
Cross country	4.40	4.20	4.00	4.05	4.45	4.50	3.95
Field hockey	4.13	4.25	4.75	4.88	4.25	4.63	3.38
Flag football	4.39	4.29	4.37	4.29	4.44	4.31	4.21
Tackle football	4.34	4.24	4.33	4.20	4.56	4.49	4.14
Golf	4.27	4.05	4.27	4.18	4.41	4.32	3.73
Gymnastics	4.64	4.38	4.46	4.26	4.62	4.59	3.77
Ice hockey	4.50	4.50	4.63	3.75	4.50	4.50	4.13
Lacrosse	3.75	4.00	4.25	3.75	4.00	4.25	4.25
Martial arts	4.53	4.28	4.36	4.11	4.53	4.56	3.53
Skateboarding	4.75	4.25	4.50	4.00	4.75	4.50	3.25
Skiing/Snowboarding	3.75	3.50	3.75	3.50	4.00	3.75	4.00
Soccer	4.34	4.15	4.24	4.01	4.44	4.46	3.69
Softball	4.14	4.18	4.32	4.00	4.43	4.46	3.82
Swimming	4.15	4.04	4.15	4.00	4.11	4.02	3.98
Tennis	4.33	4.31	4.59	4.28	4.59	4.59	4.18
Track & field	4.41	4.33	4.52	4.33	4.59	4.59	4.11
Volleyball	4.47	4.44	4.33	3.97	4.47	4.50	3.81
Wrestling	4.71	4.29	4.71	4.29	4.86	4.71	4.29
Other sports	4.32	4.19	4.32	4.03	4.52	4.55	3.42
TOTAL	4.35	4.24	4.32	4.16	4.45	4.44	3.93

NOTE: Data were collected on a scale ranging from 1 (*extremely unimportant*) to 5 (*extremely important*)

	<i>Strongly Disagree</i> 1	<i>Disagree</i> 2	<i>Neither Agree nor Disagree</i> 3	<i>Agree</i> 4	<i>Strongly Agree</i> 5
Fun	2.8%	2.5%	8.3%	29.8%	56.6%
	5.3%			86.4%	
Peer relationships	2.4%	2.8%	10.7%	36.4%	47.7%
	5.2%			84.1%	
Social skills	2.0%	2.4%	10.4%	31.6%	53.5%
	4.4%			85.1%	
Sport skills	2.2%	3.2%	13.2%	39.3%	42.1%
	5.4%			81.4%	
Physical health	2.0%	2.2%	7.0%	26.4%	62.5%
	4.2%			88.9%	
Mental health	2.2%	1.9%	7.0%	27.3%	61.7%
	4.1%			89.0%	
Competition	3.9%	5.7%	20.6%	32.9%	36.9%
	9.6%			69.8%	

TAKE HOME: Parents reported a continued high desire for all sport outcomes after COVID-19-related restrictions are lifted. Notably, parents' desire for competition ($M = 3.93$) was lower than all other outcomes, but consistent with pre-COVID-19 levels ($M = 3.94$) and higher than in June ($M = 3.68$).

SURVEY ITEM: *What will you do when current restrictions due to COVID-19 are removed?*

	<i>n</i>	<i>% of sample</i>
Resume participation at the SAME amount/level as before	554	50.2%
Resume participation at a LOWER amount/level as before	277	25.1%
Resume participation at a HIGHER amount/level as before	117	10.6%
I don't want my child participating in this sport anymore	28	2.5%
I haven't decided	126	11.4%

TAKE HOME: 60.8% of parents reported that they planned to have their children resume sport participation at the same or at a higher amount/level when COVID-19-related restrictions are removed (up from 53.0% in June). For breakdowns by US region, community type, race, child sex, household income, child age, primary sport, and state, see Chapter 5.

SURVEY ITEM: *What would be the most likely reason your child would discontinue playing when current restrictions due to COVID-19 are removed?*

	<i>n</i>	<i>% of sample</i>
Health Risks	512	46.4%
Developed other interests during the pandemic	270	24.5%
Family finances	176	16.0%
Aged out	101	9.2%
Other	43	3.9%

TAKE HOME: Parents identified health risks (46.4%) as the primary reason their children would discontinue playing a primary sport (slightly down from 47.6% in June).

SURVEY ITEM: *How is your child staying active during the COVID-19 pandemic?*

	<i>n</i>	<i>% of sample</i>
Taking walks	634	57.5%
Bike riding	572	51.9%
Free play in the house	628	56.9%
Free play in the yard	684	62.0%
Free play in the neighborhood	360	32.6%
Private or small group sports training	245	22.2%
Other	44	4.0%

TAKE HOME: Parents reported that their child had stayed active predominately through free play in their yard (62.0%) and taking walks (57.5%) (down from 68.4% and consistent with 57.2% in June, respectively).

SURVEY ITEM: *How many new sports or recreational activities has your child tried, in any form, since the onset of COVID-19-related restrictions?*

	<i>n</i>	<i>% of sample</i>
0	447	40.5%
1	249	22.6%
2	255	23.1%
3	83	7.5%
4	35	3.2%
5+	34	3.1%

<i>Mean</i>	<i>SD</i>	<i>Range</i>
1.19	1.30	0-5

TAKE HOME: 40.5% of parents reported that their child had not participated in new recreational activities during the COVID-19 pandemic (down from 50.6% in June). Of the parents whose children did try a new sport or recreational activity, 36.9% tried two or more (up from 27.2% in June). On average, parents reported that their children tried more than one new activity ($M = 1.19$).

SURVEY ITEM: *Do you anticipate your child continuing to play one or more of these new sports/activities once organized youth sports return?*

	<i>n</i>	<i>% of sample</i>
Yes	506	45.9%
Maybe	137	12.4%
No	13	1.2%

TAKE HOME: Only 45.9% of families in which the child had tried a new activity had parents who believed that the child would continue with that activity once organized youth sports return (down sharply from 60.1% in June).

SURVEY ITEM: *Please indicate how comfortable you would be with your child participating in the following types of sport activities when current restrictions due to COVID-19 are removed?*

	<i>M</i>	<i>SD</i>
Individual pickup sports	3.87	1.18
Neighborhood pickup games	3.63	1.21
Intramural sports at school	3.57	1.26
Interscholastic school sports	3.49	1.31
Community based sport	3.52	1.32
Travel/elite or club league sport	3.32	1.39

NOTE: Data were collected on a scale ranging from 1 (*extremely uncomfortable*) to 5 (*extremely comfortable*)

	<i>Extremely Uncomfortable</i> 1	<i>Uncomfortable</i> 2	<i>Neither Uncomfortable nor Comfortable</i> 3	<i>Comfortable</i> 4	<i>Extremely Comfortable</i> 5
Individual pickup sports	5.7%	9.4%	13.9%	33.7%	36.9%
	15.1%			70.6%	
Neighborhood pickup games	7.2%	13.0%	15.7%	37.0%	26.7%
	20.2%			63.7%	
Intramural sports at school	9.2%	12.0%	18.8%	32.4%	27.3%
	21.2%			59.7%	
Interscholastic school sports	10.1%	15.5%	17.0%	30.2%	26.9%
	25.6%			57.1%	
Community based sport	10.8%	12.9%	18.3%	29.0%	28.7%
	23.7%			57.7%	
Travel/elite or club league sport	15.4%	14.5%	17.6%	27.4%	24.7%
	29.9%			52.1%	

TAKE HOME: Parents reported feeling more comfortable with children participating in less-competitive forms of sport within their communities and less comfortable with children participating in more-competitive forms of sport away from their communities when COVID-19-related restrictions are lifted. For breakdowns by US region, community type, race, child sex, household income, child age, primary sport, and state, see Chapter 5.

SURVEY ITEM: *How comfortable will you feel allowing your child to return to organized sport AFTER the health and safety issues around COVID-19 are fully resolved?*

	<i>M</i>	<i>SD</i>
Pickup or Free Play	3.98	1.13
Focused Practice or Drills	3.99	1.09
Games or Competition	3.95	1.15

TAKE HOME: Parents reported that once health and safety concerns pertaining to COVID-19 are resolved they would feel “somewhat comfortable” ($M = 3.97$) participating in various forms of organized sport (up sharply from 3.50 in June).

SURVEY ITEM: *As a parent, what do you miss the MOST about your child's regular youth sport participation?*

	<i>n</i>	<i>% of sample</i>
Socializing with other parents	154	14.0%
Getting to spend time with my child	210	19.1%
Seeing my child compete	355	32.3%
Seeing my child improve	290	26.4%
Being outside	54	4.9%
Having time to myself while my child is in someone else's care	16	1.5%
Other	21	1.9%

TAKE HOME: When responding to what they miss MOST in the midst of COVID-19-related restrictions, parents highlighted seeing their child compete (32.3%) and seeing their child improve (26.4%). The order of these responses is reversed from June.

SURVEY ITEM: *What do you miss the LEAST about your child's regular youth sport participation?*

	<i>n</i>	<i>% of sample</i>
The travel (driving, flying, staying in hotels)	261	23.7%
The costs	325	29.5%
The time	156	14.2%
The extra responsibilities (volunteering, fundraising, carpooling, logistics, etc.)	195	17.7%
The unwanted social interactions (with other parents, coaches, or my child)	74	6.7%
The emotions I experience while they participate	64	5.8%
Other	25	2.3%

TAKE HOME: When responding to what they miss LEAST in the midst of COVID-19-related restrictions, 29.5% of parents identified the costs associated with their child's sport participation (down from 35.8% in June).

SURVEY ITEM: *How much have your children been engaging in sport, physical activity, and free play with each other during COVID-19-related restrictions?*

	<i>n</i>	<i>% of sample</i>
Much less than before	152	22.2%
Less than before	198	28.9%
About the same as before	143	20.8%
More than before	130	19.0%
Much more than before	63	9.2%

TAKE HOME: The majority of children (51.1%) are engaging less in sport, physical activity, and free play with their siblings than they were before COVID-19-related restrictions.

SURVEY ITEM: *I believe my relationship with my _____ has become _____ during the COVID-19-related school and sport-related restrictions.*

	<i>M</i>	<i>SD</i>
Spouse/partner	3.52	1.07
Child	3.74	1.01
Extended family	3.42	1.02

NOTE: Data were collected on a scale ranging from 1 (*much worse*) to 5 (*much better*)

	<i>Much Worse</i> 1	<i>Worse</i> 2	<i>About the same as before</i> 3	<i>Better</i> 4	<i>Much Better</i> 5
Spouse/partner	4.5%	8.3%	41.6%	22.3%	23.3%
	12.8%			45.6%	
Child	3.0%	6.2%	30.6%	34.0%	26.3%
	9.2%			60.3%	
Extended family	3.5%	10.4%	45.2%	22.0%	18.8%
	13.9%			40.8%	

TAKE HOME: Parents’ relationships with their spouse/partner and extended family have remained largely unchanged during COVID-19-related restrictions, whereas the majority of parents report a “better” or “much better” relationship with their children during COVID-19-related restrictions.

4

CORRELATIONS AMONG STUDY VARIABLES

4.1 Type of sport participation

	Age	Degree	Annual income	Number of children in household	Pickup or free play – Before	Pickup or free play – During	Virtual training – Before	Virtual training – During	Focused practice or drills – Before	Focused practice or drills – During	Games or competition – Before	Games or competition – During	Total – Before	Total – During
Age	-													
Degree	.00	-												
Annual income	.01	.23**	-											
Number of children in household	-.14**	-.03	-.02	-										
Pickup or free play – Before	-.09**	.08**	.00	.03	-									
Pickup or free play – During	-.16**	.14**	.04	.03	.52**	-								
Virtual training – Before	-.16**	.14**	.03	-.01	.38**	.36**	-							
Virtual training – During	-.13**	.16**	.01	-.01	.38**	.29**	.57**	-						
Focused practice or drills – Before	.08**	-.06	-.01	.06	.19**	.12**	.12**	.23**	-					
Focused practice or drills – During	-.01	.09**	.06*	.00	.23**	.28**	.34**	.33**	.44**	-				
Games or competition – Before	-.07*	-.03	-.01	.02	.28**	.22**	.32**	.36**	.46**	.32**	-			
Games or competition – During	-.13**	.13**	.04	-.01	.22**	.35**	.46**	.44**	.09**	.43**	.33**	-		
Total – Before	-.06*	.03	.00	.04	.65**	.42**	.58**	.53**	.72**	.49**	.77**	.37**	-	
Total – During	-.15**	.18**	.05	.00	.47**	.66**	.60**	.72**	.32**	.73**	.43**	.76**	.63**	-

NOTE: * $p < .05$; ** $p < .01$

4.2 Barriers to the resumption of sport activity

	Age	Degree	Annual income	Number of children in household	Fear of illness (Child)	Fear of illness (Parent)	Schedule conflicts	Child not interested	Transportation difficulty
Age	-								
Degree	.00	-							
Annual income	.01	.23**	-						
Number of children in household	-.14**	-.03	-.02	-					
Fear of illness (Child)	-.01	.02	.02	-.04	-				
Fear of illness (Parent)	.00	-.02	-.01	-.06	.79**	-			
Schedule conflicts	-.08**	.16**	.09**	-.04	.51**	.52**	-		
Child not interested	-.11**	.17**	.07*	-.03	.36**	.36**	.60**	-	
Transportation difficulty	-.13**	.18**	.07*	-.04	.43**	.43**	.72**	.72**	-

NOTE: * $p < .05$; ** $p < .01$

5

GROUP DIFFERENCES

5.1 Differences by US Region

SURVEY ITEM: *How many hours a week did your child engage in the following before (and during) COVID-19 restrictions?*

	BEFORE COVID-19					DURING COVID-19				
	Pickup/Free play	Virtual Training	Focused Practice or Drills	Games or Competition	TOTAL	Pickup/Free play	Virtual Training	Focused Practice or Drills	Games or Competition	TOTAL
Northeast	2.88	1.64 ^b	3.89	3.15 ^{ab}	11.52	2.09 ^{*ab}	1.58	1.95 ^{*ab}	1.42 ^{*ab}	7.04^{*ab}
Southeast	3.04	1.55 ^b	4.00	3.20 ^{ab}	11.78	2.23 ^{*b}	1.74	2.27 ^{*ab}	1.79 ^{*b}	8.02^{*b}
Midwest	2.87	1.10 ^a	3.90	3.18 ^{ab}	11.02	1.67 ^{*a}	1.51 [*]	2.47 ^{*b}	1.29 ^{*a}	6.94^{*ab}
Southwest	3.02	1.85 ^b	4.09	3.84 ^a	12.80	1.91 ^{*ab}	2.00	1.98 ^{*ab}	1.58 ^{*ab}	7.47^{*ab}
West	2.92	1.27 ^{ab}	3.79	2.78 ^b	10.76	1.64 ^{*a}	1.41	1.80 ^{*a}	1.16 ^{*a}	6.01^{*a}
TOTAL	2.95	1.46	3.93	3.18	11.51	1.96	1.63	2.13	1.49	7.21

NOTES: Significant differences across US regions are denoted by different superscripts. Significant before-to-during differences within regions are denoted by asterisk. Cells with matching superscripts are not significantly different from one another.

TAKE HOME: Small but statistically significant differences existed across US region in virtual training and games or competition prior to the COVID-19 pandemic. Statistically significant differences also existed across US region in pickup/free play, focused practice or drills, games or competition, and overall hours of participation during to the COVID-19 pandemic. Notably, large changes have occurred in children’s hours devoted to pickup/free play, focused practice or drills, games or competition, and overall hours of participation since COVID-19-related restrictions have been put in place, whereas weekly hours dedicated to virtual forms of training have only increased in the Midwest.

SURVEY ITEM: After youth sports resume, our family will likely spend _____ money than we used to on this child's youth sport participation.

	M
Northeast	3.02
Southeast	3.05
Midwest	3.09
Southwest	2.87
West	3.02

NOTE: Data were collected on a scale ranging from 1 (substantially less) to 5 (substantially more). No significant differences existed across regions.

	<i>Substantially Less</i> 1	<i>A Little Less</i> 2	<i>About the Same</i> 3	<i>A Little More</i> 4	<i>Substantially More</i> 5
Northeast	8.1%	19.7%	43.0%	20.6%	8.5%
	27.8%			29.1%	
Southeast	10.6%	17.0%	42.5%	16.2%	13.7%
	27.6%			29.9%	
Midwest	8.7%	13.3%	50.5%	15.6%	11.9%
	22.0%			27.5%	
Southwest	11.1%	22.2%	41.9%	17.9%	6.8%
	33.3%			24.7%	
West	9.1%	16.1%	47.8%	17.2%	9.7%
	25.2%			26.9%	

TAKE HOME: No statistically significant differences existed across US regions.

SURVEY ITEM: What will you do when current restrictions due to COVID-19 are removed?

	<i>Resume at SAME level</i>	<i>Resume at LOWER level</i>	<i>Resume at HIGHER level</i>	<i>Not participate</i>	<i>Haven't Decided</i>
Northeast	51.6%	24.2%	13.5%	0.9%	9.9%
Southeast	52.0%	23.5%	11.2%	2.8%	10.6%
Midwest	49.5%	28.0%	7.8%	2.8%	11.9%
Southwest	50.4%	27.4%	7.7%	4.3%	10.3%
West	46.2%	24.7%	11.3%	2.7%	15.1%

TAKE HOME: No meaningful differences were present across US regions.

SURVEY ITEM: Please indicate your level of agreement with the following statements about potential barriers to your child resuming sports when current restrictions due to COVID-19 are removed.

	<i>Fear of illness (Child)</i>	<i>Fear of illness (Parent)</i>	<i>Schedule conflicts</i>	<i>Child not interested</i>	<i>Transport difficulty</i>
Northeast	3.52 ^{bc}	3.35 ^c	2.89	2.30	2.59
Southeast	3.63 ^{abc}	3.43 ^{bc}	2.96	2.43	2.60
Midwest	3.77 ^{ab}	3.65 ^{ab}	2.94	2.45	2.67
Southwest	3.85 ^a	3.72 ^a	3.06	2.56	2.76
West	3.46 ^c	3.34 ^c	2.94	2.53	2.70
TOTAL	3.63	3.47	2.95	2.44	2.64

NOTES: Significant differences across regions are denoted by different superscripts. US regions with matching superscripts are not significantly different from one another.

Northeast

	<i>Strongly Disagree</i>		<i>Neither Agree nor Disagree</i>	<i>Strongly Agree</i>	
	<i>1</i>	<i>2</i>		<i>4</i>	<i>5</i>
Fear of illness (Child)	12.6%	11.2%	17.1%	30.0%	29.1%
	23.8%			59.1%	
Fear of illness (Parent)	12.1%	14.8%	17.9%	35.9%	19.3%
	26.9%			55.2%	
Schedule conflicts	23.3%	18.4%	17.4%	27.4%	13.5%
	41.7%			40.9%	
Child not interested	40.4%	23.8%	10.3%	17.0%	8.5%
	64.2%			25.5%	
Transport difficulty	31.8%	22.4%	16.3%	14.3%	15.2%
	54.2%			29.5%	

Southeast

	<i>Strongly Disagree</i>		<i>Neither Agree nor Disagree</i>	<i>Strongly Agree</i>	
	<i>1</i>	<i>2</i>		<i>4</i>	<i>5</i>
Fear of illness (Child)	9.7%	13.4%	14.8%	28.7%	33.4%
	23.1%			62.1%	
Fear of illness (Parent)	10.0%	16.2%	15.3%	37.6%	20.9%
	26.2%			58.5%	
Schedule conflicts	20.6%	21.2%	18.4%	21.4%	18.4%
	41.8%			39.8%	
Child not interested	40.1%	18.4%	12.8%	16.2%	12.5%
	59.5%			28.7%	
Transport difficulty	31.8%	22.6%	14.7%	15.9%	15.0%
	54.4%			30.9%	

Midwest	Strongly Disagree		Neither Agree nor Disagree	Strongly Agree	
	1	2		4	5
Fear of illness (Child)	10.1%	9.6%	10.2%	33.9%	36.2%
	19.7%			70.1%	
Fear of illness (Parent)	9.2%	12.4%	11.9%	37.6%	28.9%
	21.6%			56.5%	
Schedule conflicts	20.6%	21.1%	20.2%	20.2%	17.9%
	41.7%			38.1%	
Child not interested	39.0%	20.2%	10.5%	17.0%	13.3%
	59.2%			30.3%	
Transport difficulty	29.8%	24.8%	11.5%	16.5%	17.4%
	54.6%			33.9%	

Southwest	Strongly Disagree		Neither Agree nor Disagree	Strongly Agree	
	1	2		4	5
Fear of illness (Child)	8.5%	9.4%	12.0%	29.1%	41.0%
	17.9%			70.1%	
Fear of illness (Parent)	6.8%	12.0%	17.1%	30.8%	33.3%
	18.8%			64.1%	
Schedule conflicts	17.1%	22.2%	17.9%	23.1%	19.7%
	39.3%			42.8%	
Child not interested	38.5%	15.4%	13.7%	16.2%	16.2%
	53.9%			32.4%	
Transport difficulty	29.9%	18.8%	14.6%	18.8%	17.9%
	48.7%			36.7%	

West	Strongly Disagree		Neither Agree nor Disagree	Strongly Agree	
	1	2		4	5
Fear of illness (Child)	18.3%	9.1%	11.4%	30.6%	30.6%
	27.4%			61.2%	
Fear of illness (Parent)	14.5%	15.6%	15.6%	30.1%	24.2%
	30.1%			54.3%	
Schedule conflicts	21.5%	20.4%	17.7%	23.7%	16.7%
	41.9%			40.4%	
Child not interested	38.7%	15.6%	16.2%	13.4%	16.1%
	54.3%			29.5%	
Transport difficulty	30.6%	20.4%	15.6%	15.1%	18.3%
	51.0%			33.4%	

TAKE HOME: Statistically significant differences existed in parent reports of fear of illness (for child and parent) as a barrier to the resumption of play across US regions. There were no significant differences across regions for the other three barriers.

SURVEY ITEM: *How much have your children been engaging in sport, physical activity, and free play with each other during COVID-19-related restrictions.*

	<i>M</i>
Northeast	2.72
Southeast	2.72
Midwest	2.65
Southwest	2.39
West	2.56
TOTAL	2.64

	<i>Much less than before</i> 1	<i>Less than before</i> 2	<i>About the same as before</i> 3	<i>More than before</i> 4	<i>Much more than before</i> 5
Northeast	20.9%	27.3%	20.9%	20.9%	10.1%
Southeast	18.1%	30.2%	23.3%	18.1%	10.2%
Midwest	21.3%	29.4%	22.1%	17.6%	9.6%
Southwest	29.7%	32.4%	16.2%	12.2%	9.5%
West	27.0%	25.4%	18.0%	23.8%	5.7%

TAKE HOME: No meaningful differences emerged across US regions on parents' plans for their children's resumption of youth sport.

SURVEY ITEM: *I believe my relationship with my [Spouse/Partner, Child, Extended Family] has become _____ during COVID-19-related school and sport-related restrictions.*

	<i>Spouse/ Partner</i>	<i>Child</i>	<i>Extended Family</i>
Northeast	3.57	3.74 ^{ab}	3.47 ^{ac}
Southeast	3.58	3.83 ^a	3.54 ^a
Midwest	3.37	3.62 ^b	3.23 ^b
Southwest	3.60	3.91 ^a	3.42 ^{abc}
West	3.45	3.63 ^b	3.36 ^{bc}
TOTAL	3.52	3.74	3.42

<i>Spouse/Partner</i>	<i>Much Worse</i> 1	<i>Worse</i> 2	<i>About the same as before</i> 3	<i>Better</i> 4	<i>Much Better</i> 5
Northeast	4.5%	6.7%	40.8%	22.9%	25.1%
Southeast	3.1%	6.4%	44.6%	21.4%	24.5%
Midwest	5.5%	11.5%	42.7%	21.6%	18.8%
Southwest	6.0%	8.5%	33.3%	23.9%	28.2%
West	5.4%	9.7%	40.9%	23.1%	21.0%

Child	<i>Much Worse</i> 1	<i>Worse</i> 2	<i>About the same as before</i> 3	<i>Better</i> 4	<i>Much Better</i> 5
Northeast	4.9%	6.7%	28.3%	30.0%	30.0%
Southeast	1.9%	5.3%	29.2%	34.8%	28.7%
Midwest	3.2%	6.4%	35.8%	33.9%	20.6%
Southwest	2.6%	4.3%	24.8%	36.8%	31.6%
West	2.7%	8.1%	33.3%	35.5%	20.4%

Extended Family	<i>Much Worse</i> 1	<i>Worse</i> 2	<i>About the same as before</i> 3	<i>Better</i> 4	<i>Much Better</i> 5
Northeast	4.9%	8.5%	42.6%	22.9%	21.1%
Southeast	2.2%	8.9%	43.5%	23.4%	22.0%
Midwest	5.0%	14.7%	48.2%	16.5%	15.6%
Southwest	3.4%	12.0%	41.9%	24.8%	17.9%
West	2.7%	9.7%	50.5%	23.1%	14.0%

TAKE HOME: Across US regions, parents reported statistical differences regarding their relationships with their child and extended family but not on their relationships with their spouse/partner.

5.2 Differences by Community Type

SURVEY ITEM: *How many hours a week did your child engage in the following before (and during) COVID-19 restrictions?*

	BEFORE COVID-19					DURING COVID-19				
	Pickup/Free play	Virtual Training	Focused Practice or Drills	Games or Competition	TOTAL	Pickup/Free play	Virtual Training	Focused Practice or Drills	Games or Competition	TOTAL
Urban	3.33 ^a	2.12 ^a	3.59 ^a	3.24	12.27^a	2.34 ^{*a}	2.22 ^a	2.28 [*]	1.93 ^{*a}	8.76^{*a}
Suburban	2.79 ^b	0.85 ^b	4.28 ^b	3.13	11.04^{ab}	1.62 ^{*b}	1.18 ^{*b}	2.02 [*]	1.09 ^{*b}	5.91^{*b}
Rural	2.15 ^c	0.93 ^b	4.13 ^b	3.12	10.33^b	1.61 ^{*b}	0.93 ^b	1.97 [*]	1.08 ^{*b}	5.60^{*b}
TOTAL	2.95	1.46	3.93	3.18	11.51	1.96	1.63	2.13	1.49	7.21

NOTES: Significant differences across community types are denoted by different superscripts. Significant before-to-during differences within community types are denoted by asterisk. Cells with matching superscripts are not significantly different from one another.

TAKE HOME: A statistically significant difference existed across community types in pickup/free play, virtual training, focused practice or drills, and overall hours of participation prior to the COVID-19 pandemic. During the pandemic, there were differences across community types in pickup/free play, virtual training, games or competition, and overall hours of participation. Notably, large changes have occurred in children’s hours devoted to these forms of sport participation since COVID-19-related restrictions have been put in place. In all community types, children’s hours devoted to pickup/free play, focused practice or drills, games or competition, and total participation have gone down, whereas weekly hours dedicated to virtual forms of training have only risen in suburban communities.

SURVEY ITEM: After youth sports resume, our family will likely spend _____ money than we used to on this child's youth sport participation.

	<i>M</i>
Urban	3.19 ^a
Suburban	2.90 ^b
Rural	2.83 ^b
TOTAL	3.03

NOTES: Data were collected on a scale ranging from 1 (*substantially less*) to 5 (*substantially more*). Significant differences across community types are denoted by different superscripts. Cells with matching superscripts are not significantly different from one another.

	<i>Substantially Less</i> 1	<i>A Little Less</i> 2	<i>About the Same</i> 3	<i>A Little More</i> 4	<i>Substantially More</i> 5
Urban	11.2	16.7	31.5%	22.7	17.9
	27.9%			40.6%	
Suburban	7.8	16.9	57.2%	13.8	4.3
	24.7%			18.1%	
Rural	8.7	19.9	56.5%	9.3	5.6
	28.6%			14.9%	

TAKE HOME: Parents in urban communities reported being more likely to spend money on their children’s youth sports when COVID-19 restrictions are lifted.

SURVEY ITEM: What will you do when current restrictions due to COVID-19 are removed?

	<i>Resume at SAME level</i>	<i>Resume at LOWER level</i>	<i>Resume at HIGHER level</i>	<i>Not participate</i>	<i>Haven't Decided</i>
Urban	53.8%	22.9%	13.7%	1.3%	8.3%
Suburban	45.8%	28.3%	8.8%	3.3%	13.8%
Rural	50.3%	24.2%	5.6%	4.3%	15.5%

TAKE HOME: No meaningful differences were present across community types on parents’ plans for their children’s resumption of youth sport.

SURVEY ITEM: Please indicate your level of agreement with the following statements about potential barriers to your child resuming sports when current restrictions due to COVID-19 are removed.

	<i>Fear of illness (Child)</i>	<i>Fear of illness (Parent)</i>	<i>Schedule conflicts</i>	<i>Child not interested</i>	<i>Transport difficulty</i>
Urban	3.73 ^a	3.58 ^a	3.23 ^a	2.70 ^a	2.97 ^a
Suburban	3.57 ^{ab}	3.41 ^{ab}	2.79 ^c	2.24 ^b	2.36 ^b
Rural	3.46 ^b	3.29 ^b	2.45 ^b	2.10 ^b	2.34 ^b
TOTAL	3.63	3.47	2.95	2.44	2.64

NOTES: Significant differences across community types are denoted by different superscripts. Community types with matching superscripts are not significantly different from one another.

Urban

	<i>Strongly Disagree</i>		<i>Neither Agree nor Disagree</i>	<i>Strongly Agree</i>	
	<i>1</i>	<i>2</i>		<i>4</i>	<i>5</i>
Fear of illness (Child)	12.3%	9.0%	10.2%	30.4%	38.1%
	21.3%			68.5%	
Fear of illness (Parent)	9.4%	13.3%	12.7%	39.2%	25.4%
	22.7%			64.6%	
Schedule conflicts	16.7%	15.6%	18.5%	26.9%	22.3%
	32.3%			49.2%	
Child not interested	34.2%	17.1%	11.4%	18.8%	18.5%
	51.3%			37.3%	
Transport difficulty	24.4%	19.6%	13.3%	19.6%	23.1%
	44.0%			42.7%	

Suburban

	<i>Strongly Disagree</i>		<i>Neither Agree nor Disagree</i>	<i>Strongly Agree</i>	
	<i>1</i>	<i>2</i>		<i>4</i>	<i>5</i>
Fear of illness (Child)	10.0%	13.0%	15.7%	32.9%	28.4%
	23.0%			61.3%	
Fear of illness (Parent)	10.9%	14.7%	19.0%	32.9%	22.5%
	25.6%			55.4%	
Schedule conflicts	21.6%	25.6%	17.9%	21.6%	13.3%
	47.2%			34.9%	
Child not interested	44.1%	19.4%	13.7%	14.0%	8.8%
	63.5%			22.8%	
Transport difficulty	35.3%	25.8%	16.6%	12.3%	10.0%
	61.1%			22.3%	

Rural	Strongly Disagree		Neither Agree nor Disagree	Strongly Agree	
	1	2	3	4	5
Fear of illness (Child)	14.3%	12.4%	18.0%	23.6%	31.7%
	26.7%				
Fear of illness (Parent)	14.3%	18.6%	14.9%	28.6%	23.6%
	32.9%				
Schedule conflicts	32.9%	23.6%	19.2%	13.7%	10.6%
	56.5%				
Child not interested	44.7%	24.2%	13.1%	12.4%	5.6%
	68.9%				
Transport difficulty	41.0%	21.1%	13.1%	13.0%	11.8%
	62.1%				

TAKE HOME: Statistically significant differences existed in parent reports of barriers to the resumption of play across community types. Of note: the greater the population density, the more parents feared illness for them and their children. Parents in urban communities also rated schedule conflicts, their child not being interested, and transportation difficulties as more impactful barriers to their children’s resumption of participation.

SURVEY ITEM: *How much have your children been engaging in sport, physical activity, and free play with each other during COVID-19-related restrictions.*

	M
Urban	2.79 ^a
Suburban	2.49 ^b
Rural	2.51 ^{ab}
TOTAL	2.64

	Much less than before	Less than before	About the same as before	More than before	Much more than before
	1	2	3	4	5
Urban	18.2%	30.2%	19.4%	19.4%	12.9%
Suburban	24.7%	29.4%	22.4%	18.8%	4.7%
Rural	30.0%	22.2%	22.2%	17.8%	7.8%

TAKE HOME: Statistically significant differences emerged across community types on children’s engagement in sport, physical activity, and free play with their siblings during COVID-19-related restrictions. Specifically, parents in urban settings reported their children spending the most time with one another while parents in suburban settings reported their children spending less time together. Of note, across all communities, mean values suggest that children are spending slightly less time with one another than before COVID-19-related restrictions.

SURVEY ITEM: *I believe my relationship with my [Spouse/Partner, Child, Extended Family] has become _____ during COVID-19-related school and sport-related restrictions.*

	<i>Spouse/ Partner</i>	<i>Child</i>	<i>Extended Family</i>
Urban	3.77 ^a	3.98 ^a	3.70 ^a
Suburban	3.30 ^b	3.52 ^b	3.18 ^b
Rural	3.26 ^b	3.57 ^b	3.15 ^b
TOTAL	3.52	3.74	3.42

Spouse/Partner	<i>Much Worse 1</i>	<i>Worse 2</i>	<i>About the same as before 3</i>	<i>Better 4</i>	<i>Much Better 5</i>
Urban	5.4%	6.7%	28.5%	24.2%	35.2%
Suburban	4.3%	9.0%	53.1%	19.9%	13.7%
Rural	2.5%	11.2%	54.0%	22.4%	9.9%

Child	<i>Much Worse 1</i>	<i>Worse 2</i>	<i>About the same as before 3</i>	<i>Better 4</i>	<i>Much Better 5</i>
Urban	2.9%	5.2%	20.2%	34.6%	37.1%
Suburban	3.8%	6.6%	40.3%	32.2%	17.1%
Rural	1.2%	8.1%	38.5%	36.6%	15.5%

Extended Family	<i>Much Worse 1</i>	<i>Worse 2</i>	<i>About the same as before 3</i>	<i>Better 4</i>	<i>Much Better 5</i>
Urban	3.7%	8.5%	31.2%	28.1%	28.7%
Suburban	3.8%	10.7%	59.2%	15.9%	10.4%
Rural	2.5%	16.1%	54.0%	18.6%	8.7%

TAKE HOME: Statistical differences emerged across community types on parents' relationships with their spouse/partner, child, and extended families. In general, parents from urban communities reported more improvement of relationship quality with these individuals than parents in both suburban and rural communities.

5.3 Differences by Race

SURVEY ITEM: *How many hours a week did your child engage in the following before (and during) COVID-19 restrictions?*

	BEFORE COVID-19					DURING COVID-19				
	<i>Pickup/Free play</i>	<i>Virtual Training</i>	<i>Focused Practice or Drills</i>	<i>Games or Competition</i>	TOTAL	<i>Pickup/Free play</i>	<i>Virtual Training</i>	<i>Focused Practice or Drills</i>	<i>Games or Competition</i>	TOTAL
White	3.03	1.64 ^a	3.80	3.17	11.63	2.11 ^{*a}	1.78	2.25 [*]	1.78 ^{*a}	7.91^{*a}
Hispanic/Latino	2.98	1.08 ^b	4.08	3.16	11.31	1.86 ^{*a}	1.30	1.96 [*]	0.97 ^{*bc}	6.08^{*b}
Black	2.97	1.40 ^a	4.36	3.58	12.30	1.91 ^{*a}	1.77	1.89 [*]	1.09 ^{*bc}	6.66^{*ab}
Asian	2.38	0.90 ^b	3.84	2.37	9.45	0.94 ^{*b}	0.92	1.80 [*]	0.65 ^{*bc}	4.31^{*b}
Other	1.70	0.96 ^a	4.20	3.30	10.15	1.48 ^{*a}	1.09	2.57 [*]	1.70 ^{*abc}	6.83^{*ab}
TOTAL	2.95	1.46	3.93	3.18	11.51	1.96	1.63	2.13	1.49	7.21

NOTES: For the purpose of these analyses, the category “Other” collapses participants who identified as “American Indian or Alaskan Native”, “Native Hawaiian or Pacific Islander”, “Multiracial”, “Prefer not to say”, or “Other” ($n = 135$; 5.2%). Significant differences by race are denoted by different superscripts. Significant before-to-during differences within races are denoted by asterisk. Cells with matching superscripts are not significantly different from one another.

TAKE HOME: Small but statistically significant differences existed across race in virtual training prior to the COVID-19 pandemic. Statistically significant differences existed across race in pickup/free play, focused practice or drills, games or competition, and total hours of participation during the COVID-19 pandemic. Notably, large changes have occurred across all races in children’s hours devoted to pickup/free play, focused practice or drills, games or competition, and total hours of participation since COVID-19-related restrictions have been put in place, whereas weekly hours dedicated to virtual forms of training have stayed flat.

SURVEY ITEM: After youth sports resume, our family will likely spend _____ money than we used to on this child's youth sport participation.

	<i>M</i>
White	3.09 ^a
Hispanic/Latino	2.90 ^b
Black	3.02 ^{ab}
Asian	2.73 ^b
Other	3.17
TOTAL	3.03

NOTES: Data were collected on a scale ranging from 1 (*substantially less*) to 5 (*substantially more*). Significant differences between White and minority races are denoted by different superscripts. Cells with matching superscripts are not significantly different from one another.

	<i>Substantially Less</i> 1	<i>A Little Less</i> 2	<i>About the Same</i> 3	<i>A Little More</i> 4	<i>Substantially More</i> 5
White	8.6%	17.0%	44.3%	17.5%	12.7%
	25.6%			30.2%	
Hispanic/Latino	11.0%	18.7%	45.6%	18.7%	6.0%
	29.7%			24.7%	
Black	13.5%	14.9%	39.9%	19.6%	12.2%
	28.4%			31.8%	
Asian	6.5%	24.2%	61.3%	6.5%	1.6%
	30.7%			8.1%	
Other	8.7%	8.7%	52.2%	17.4%	13.0%
	17.4%			30.4%	

TAKE HOME: Asian parents reported being less likely to spend money on their children's youth sports when COVID-19 restrictions are lifted.

SURVEY ITEM: What will you do when current restrictions due to COVID-19 are removed?

	<i>Resume at SAME level</i>	<i>Resume at LOWER level</i>	<i>Resume at HIGHER level</i>	<i>Not participate</i>	<i>Haven't Decided</i>
White	55.6%	22.1%	11.5%	1.7%	9.0%
Hispanic/Latino	42.9%	29.1%	9.9%	3.3%	14.8%
Black	38.5%	31.1%	9.5%	5.4%	15.5%
Asian	40.3%	37.1%	4.8%	3.2%	14.5%
Other	52.2%	13.0%	13.0%	0%	21.7%

TAKE HOME: No meaningful differences were present across race on parents' plans for their children's resumption of youth sport.

SURVEY ITEM: Please indicate your level of agreement with the following statements about potential barriers to your child resuming sports when current restrictions due to COVID-19 are removed.

	<i>Fear of illness (Child)</i>	<i>Fear of illness (Parent)</i>	<i>Schedule conflicts</i>	<i>Child not interested</i>	<i>Transport difficulty</i>
White	3.51 ^a	3.37 ^a	2.92	2.49	2.71
Hispanic/Latino	3.89 ^b	3.65 ^b	2.91	2.25	2.47
Black	3.80 ^b	3.68 ^b	3.09	2.47	2.55
Asian	3.87 ^b	3.68 ^a	3.03	2.44	2.73
Other	3.35 ^a	3.22 ^a	2.74	2.17	2.52
TOTAL	3.63	3.47	2.95	2.44	2.64

NOTES: Significant differences across racial groups are denoted by different superscripts. Groups with matching superscripts are not significantly different from one another.

White	<i>Strongly Disagree</i>		<i>Neither Agree nor Disagree</i>	<i>Strongly Agree</i>	
	<i>1</i>	<i>2</i>		<i>4</i>	<i>5</i>
Fear of illness (Child)	12.9%	13.8%	13.2%	29.4%	30.7%
	26.7%			60.1%	
Fear of illness (Parent)	11.6%	17.9%	13.3%	36.0%	21.2%
	29.5%			57.2%	
Schedule conflicts	22.4%	20.9%	16.0%	23.3%	17.4%
	53.3%			40.7%	
Child not interested	38.1%	20.3%	9.4%	19.0%	13.2%
	58.4%			32.2%	
Transport difficulty	30.1%	22.5%	12.2%	16.9%	18.3%
	52.6%			35.2%	

Hispanic/Latino	<i>Strongly Disagree</i>		<i>Neither Agree nor Disagree</i>	<i>Strongly Agree</i>	
	<i>1</i>	<i>2</i>		<i>4</i>	<i>5</i>
Fear of illness (Child)	7.7%	6.0%	13.8%	34.6%	37.9%
	13.7%			72.5%	
Fear of illness (Parent)	7.7%	9.3%	22.6%	31.3%	29.1%
	17.0%			60.4%	
Schedule conflicts	19.8%	20.9%	22.5%	22.0%	14.8%
	40.7%			36.8%	
Child not interested	47.3%	17.6%	11.0%	11.5%	12.6%
	64.9%			24.1%	
Transport difficulty	34.1%	23.1%	17.6%	12.6%	12.6%
	57.2%			25.2%	

Black	Strongly Disagree		Neither Agree nor Disagree	Strongly Agree	
	1	2		4	5
Fear of illness (Child)	10.8%	7.4%	14.2%	26.4%	41.2%
	18.2%			67.6%	
Fear of illness (Parent)	8.8%	11.5%	16.2%	30.4%	33.1%
	20.3%			63.5%	
Schedule conflicts	19.6%	16.9%	18.9%	23.6%	20.9%
	36.5%			44.5%	
Child not interested	39.9%	12.2%	23.6%	10.1%	14.2%
	25.1%			24.3%	
Transport difficulty	35.1%	17.6%	18.2%	14.9%	14.2%
	52.7%			29.1%	

Asian	Strongly Disagree		Neither Agree nor Disagree	Strongly Agree	
	1	2		4	5
Fear of illness (Child)	8.1%	4.8%	9.7%	46.8%	30.6%
	12.9%			77.4%	
Fear of illness (Parent)	8.1%	3.2%	17.8%	54.8%	16.1%
	11.3%			70.9%	
Schedule conflicts	11.3%	24.2%	27.4%	24.2%	12.9%
	25.5%			37.1%	
Child not interested	30.6%	25.8%	21.0%	14.5%	8.1%
	56.4%			22.6%	
Transport difficulty	19.4%	27.4%	24.1%	19.4%	9.7%
	46.8%			29.1%	

Other	Strongly Disagree		Neither Agree nor Disagree	Strongly Agree	
	1	2		4	5
Fear of illness (Child)	21.7%	8.7%	21.8%	8.7%	39.1%
	30.4%			47.8%	
Fear of illness (Parent)	26.1%	8.7%	13.1%	21.7%	30.4%
	34.8%			52.1%	
Schedule conflicts	21.7%	21.7%	30.6%	13.0%	13.0%
	43.4%			26.0%	
Child not interested	43.5%	17.4%	26.1%	4.3%	8.7%
	60.9%			13.0%	
Transport difficulty	39.1%	21.7%	8.8%	8.7%	21.7%
	60.8%			30.4%	

TAKE HOME: Statistically significant differences across race existed in parent reports of barriers to the resumption of play. Of note: Black, Asian, and Hispanic parents were most fearful of child illness and Black and Hispanic parents were most fearful of parent illness.

SURVEY ITEM: *How much have your children been engaging in sport, physical activity, and free play with each other during COVID-19-related restrictions.*

	<i>M</i>
White	2.76 ^a
Hispanic/Latino	2.51 ^{ab}
Black	2.51 ^{ab}
Asian	2.08 ^b
Other	2.40 ^{ab}
TOTAL	2.64

	<i>Much less than before</i> 1	<i>Less than before</i> 2	<i>About the same as before</i> 3	<i>More than before</i> 4	<i>Much more than before</i> 5
White	21.4%	24.4%	21.8%	21.6%	10.8%
Hispanic/Latino	22.7%	33.6%	19.3%	18.5%	5.9%
Black	20.0%	37.8%	21.1%	13.3%	7.8%
Asian	33.3%	41.7%	11.1%	11.1%	2.8%
Other	26.7%	33.3%	26.7%	0.0%	13.3%

TAKE HOME: Statistically significant differences emerged across races on children’s engagement in sport, physical activity, and free play with their siblings during COVID-19-related restrictions. Of note, White parents reported that their children interacted most amongst the groups, while Asian families reported significantly less interaction between their children than prior to COVID-19-related restrictions.

SURVEY ITEM: *I believe my relationship with my [Spouse/Partner, Child, Extended Family] has become _____ during COVID-19-related school and sport-related restrictions.*

	<i>Spouse/ Partner</i>	<i>Child</i>	<i>Extended Family</i>
White	3.57	3.79	3.47
Hispanic/Latino	3.37	3.69	3.30
Black	3.53	3.70	3.42
Asian	3.31	3.45	3.23
Other	3.52	3.74	3.43
TOTAL	3.52	3.74	3.42

<i>Spouse/Partner</i>	<i>Much Worse</i> 1	<i>Worse</i> 2	<i>About the same as before</i> 3	<i>Better</i> 4	<i>Much Better</i> 5
White	4.7%	7.7%	39.7%	21.9%	26.0%
Hispanic/Latino	4.4%	13.2%	41.2%	23.1%	18.1%
Black	4.7%	6.8%	43.2%	21.6%	23.6%
Asian	3.2%	4.8%	58.1%	25.8%	8.1%
Other	4.3%	4.3%	47.8%	21.7%	21.7%

Child	<i>Much Worse</i> 1	<i>Worse</i> 2	<i>About the same as before</i> 3	<i>Better</i> 4	<i>Much Better</i> 5
White	3.5%	6.3%	27.2%	33.6%	29.5%
Hispanic/Latino	1.6%	6.6%	31.3%	41.8%	18.7%
Black	2.7%	6.1%	38.5%	23.6%	29.1%
Asian	1.6%	6.5%	45.2%	38.7%	8.1%
Other	4.3%	0.0%	34.8%	39.1%	21.7%

Extended Family	<i>Much Worse</i> 1	<i>Worse</i> 2	<i>About the same as before</i> 3	<i>Better</i> 4	<i>Much Better</i> 5
White	4.1%	9.9%	41.6%	23.8%	20.6%
Hispanic/Latino	3.3%	13.2%	47.8%	22.0%	13.7%
Black	2.7%	11.5%	48.0%	16.9%	20.9%
Asian	1.6%	3.2%	72.6%	16.1%	6.5%
Other	17.4%	0.0%	43.5%	17.4%	21.7%

TAKE HOME: No statistical differences emerged across race on parents' relationships with their spouse/partner, child, or extended family.

5.4 Differences by Child Sex

SURVEY ITEM: *How many hours a week did your child engage in the following before (and during) COVID-19 restrictions?*

	BEFORE COVID-19					DURING COVID-19				
	Pickup/Free play	Virtual Training	Focused Practice or Drills	Games or Competition	TOTAL	Pickup/Free play	Virtual Training	Focused Practice or Drills	Games or Competition	TOTAL
Male	3.09	1.52	4.03	3.22	11.84	2.09*	1.75*	2.40 ^{*a}	1.70 ^{*a}	7.93^{*a}
Female	2.74	1.31	3.77	3.12	10.94	1.75*	1.42	1.68 ^{*b}	1.15 ^{*b}	6.01^{*b}
TOTAL	2.95	1.44	3.93	3.18	11.49	1.96	1.63	2.12	1.49	7.19

NOTES: For the purposes of these analyses, parents ($n = 3$) and children ($n = 2$) who identified as non-binary were excluded because group means could not be established across the dependent variables with so few individuals in the non-binary sub-sample. Significant differences by child sex are denoted by different superscripts. Significant before-to-during differences within sexes are denoted by asterisk. Cells with matching superscripts are not significantly different from one another.

TAKE HOME: No statistically significant differences existed in any of the sport participation categories by child sex prior to COVID-19-related restrictions. During the pandemic, there were significant differences by child sex across focused practice or drills, games or competition, and overall hours of participation. For both sexes, children's hours devoted to pickup/free play, focused practice or drills, games or competition, and overall hours of participation have declined, whereas virtual training has increased only for male athletes.

SURVEY ITEM: After youth sports resume, our family will likely spend _____ money than we used to on this child's youth sport participation.

	<i>M</i>
Male	3.08
Female	2.95
TOTAL	3.03

NOTES: Data were collected on a scale ranging from 1 (*substantially less*) to 5 (*substantially more*). Significant differences between male and female children are denoted by different superscripts. Cells with matching superscripts are not significantly different from one another.

	<i>Substantially Less</i> 1	<i>A Little Less</i> 2	<i>About the Same</i> 3	<i>A Little More</i> 4	<i>Substantially More</i> 5
Male	8.6%	17.7%	43.4%	18.2%	12.1%
	26.3%			30.3%	
Female	11.1%	16.5%	47.5%	15.8%	9.0%
	27.6%			24.8%	

TAKE HOME: No statistically significant differences existed across child sex.

SURVEY ITEM: What will you do when current restrictions due to COVID-19 are removed?

	<i>Resume at SAME level</i>	<i>Resume at LOWER level</i>	<i>Resume at HIGHER level</i>	<i>Not participate</i>	<i>Haven't Decided</i>
Male	53.9%	24.5%	10.8%	1.9%	8.9%
Female	44.4%	26.2%	10.2%	3.5%	15.6%

TAKE HOME: No meaningful differences were present across child sex on parents' plans for their children's resumption of youth sport.

SURVEY ITEM: Please indicate your level of agreement with the following statements about potential barriers to your child resuming sports when current restrictions due to COVID-19 are removed.

	<i>Fear of illness (Child)</i>	<i>Fear of illness (Parent)</i>	<i>Schedule conflicts</i>	<i>Child not interested</i>	<i>Transport difficulty</i>
Male	3.61	3.40 ^b	2.89	2.42	2.61
Female	3.66	3.58 ^a	3.03	2.46	2.69
TOTAL	3.63	3.47	2.95	2.44	2.64

NOTES: Significant differences across child sex are denoted by different superscripts. Groups with matching superscripts are not significantly different from one another.

Male	Strongly Disagree		Neither Agree nor Disagree	Strongly Agree	
	1	2		4	5
Fear of illness (Child)	13.3%	10.3%	12.9%	29.2%	34.3%
	23.6%			63.5%	
Fear of illness (Parent)	12.0%	15.8%	14.0%	36.2%	22.0%
	27.8%			58.2%	
Schedule conflicts	22.9%	20.7%	17.0%	23.0%	16.4%
	43.6%			39.4%	
Child not interested	40.8%	18.6%	11.9%	15.1%	13.6%
	59.4%			28.7%	
Transport difficulty	32.9%	21.6%	12.8%	16.7%	16.0%
	54.5%			32.7%	

Female	Strongly Disagree		Neither Agree nor Disagree	Strongly Agree	
	1	2		4	5
Fear of illness (Child)	9.0%	12.3%	14.3%	32.3%	32.1%
	21.3%			64.4%	
Fear of illness (Parent)	8.7%	12.7%	17.7%	34.0%	26.9%
	21.4%			60.9%	
Schedule conflicts	17.7%	20.5%	20.7%	22.9%	18.2%
	38.2%			41.1%	
Child not interested	37.7%	19.6%	13.4%	17.5%	11.8%
	57.3%			29.3%	
Transport difficulty	28.1%	23.3%	17.0%	14.4%	17.2%
	51.4%			31.6%	

TAKE HOME: Statistically significant differences were found concerning parents' fear of illness. Specifically, parents of female athletes reported a higher concern of themselves becoming ill.

SURVEY ITEM: *How much have your children been engaging in sport, physical activity, and free play with each other during COVID-19-related restrictions.*

	M
Male	2.64
Female	2.64
TOTAL	2.64

	Much less than before	Less than before	About the same as before	More than before	Much more than before
	1	2	3	4	5
Male	22.4%	29.2%	19.3%	19.8%	9.2%
Female	21.8%	28.2%	23.3%	17.6%	9.2%

TAKE HOME: No statistically significant differences existed across child sex.

SURVEY ITEM: *I believe my relationship with my [Spouse/Partner, Child, Extended Family] has become _____ during COVID-19-related school and sport-related restrictions.*

	<i>Spouse/ Partner</i>	<i>Child</i>	<i>Extended Family</i>
Male	3.58 ^a	3.79 ^a	3.50 ^a
Female	3.42 ^b	3.67 ^b	3.30 ^b
TOTAL	3.52	3.74	3.42

Spouse/Partner	<i>Much Worse 1</i>	<i>Worse 2</i>	<i>About the same as before 3</i>	<i>Better 4</i>	<i>Much Better 5</i>
Male	4.3%	8.4%	38.1%	23.2%	26.0%
Female	4.7%	8.0%	47.4%	20.8%	19.1%

Child	<i>Much Worse 1</i>	<i>Worse 2</i>	<i>About the same as before 3</i>	<i>Better 4</i>	<i>Much Better 5</i>
Male	2.8%	5.9%	28.7%	34.3%	28.4%
Female	3.3%	6.6%	33.5%	33.5%	23.1%

Extended Family	<i>Much Worse 1</i>	<i>Worse 2</i>	<i>About the same as before 3</i>	<i>Better 4</i>	<i>Much Better 5</i>
Male	3.8%	9.2%	41.4%	24.8%	20.8%
Female	3.1%	12.3%	51.4%	17.7%	15.6%

TAKE HOME: Statistical differences emerged across child sex on changes in parents' relationship quality with their spouse/partner, child, and extended family. Specifically, parents of male children reported greater increase in relationship quality with these three (sets of) individuals than parents of female athletes.

5.5 Differences by Household Income

SURVEY ITEM: *How many hours a week did your child engage in the following before (and during) COVID-19 restrictions?*

	BEFORE COVID-19					DURING COVID-19				
	Pickup/Free play	Virtual Training	Focused Practice or Drills	Games or Competition	TOTAL	Pickup/Free play	Virtual Training	Focused Practice or Drills	Games or Competition	TOTAL
\$0 - \$49,999	2.90	1.26 ^b	3.62	3.22	10.99	1.69 ^{*b}	1.41 ^a	1.65 ^{*a}	1.40 [*]	6.16^{*a}
\$50,000 - \$99,999	3.08	1.35 ^b	4.26	3.18	11.87	1.81 ^{*b}	1.58 ^{ab}	2.39 ^{*b}	1.36 [*]	7.14^{*ab}
\$100,000+	2.88	1.78 ^a	3.91	3.14	11.67	2.39 ^{*a}	1.91 ^b	2.36 ^{*b}	1.70 [*]	8.36^{*b}
TOTAL	2.95	1.46	3.93	3.18	11.51	1.96	1.63	2.13	1.49	7.21

NOTES: Significant differences across household income brackets are denoted by different superscripts. Significant before-to-during differences within income brackets are denoted by asterisk. Cells with matching superscripts are not significantly different from one another.

TAKE HOME: Small but statistically significant differences existed in virtual training (families making more than \$100,000 were different than those making less) prior to the COVID-19 pandemic. During the pandemic, there were statistical differences across household income bracket for pickup/free play, virtual training, focused practice or drills, and overall hours of participation. Notably, large changes have occurred in children’s hours devoted to these forms of sport participation since COVID-19-related restrictions have been put in place. Across all income brackets, children’s hours devoted to pickup/free play, focused practice or drills, and games or competition have gone down, whereas virtual training has remained flat.

SURVEY ITEM: After youth sports resume, our family will likely spend _____ money than we used to on this child's youth sport participation.

	<i>M</i>
\$0 - \$49,999	2.87 ^b
\$50,000 - \$99,999	2.98 ^b
\$100,000+	3.24 ^a
TOTAL	3.03

NOTES: Data were collected on a scale ranging from 1 (*substantially less*) to 5 (*substantially more*). Significant differences across income brackets are denoted by different superscripts. Cells with matching superscripts are not significantly different from one another.

	<i>Substantially Less</i> 1	<i>A Little Less</i> 2	<i>About the Same</i> 3	<i>A Little More</i> 4	<i>Substantially More</i> 5
\$0 - \$49,999	11.4%	20.4%	45.8%	14.2%	8.2%
	31.8%			22.4%	
\$50,000 - \$99,999	8.5%	16.2%	51.3%	16.5%	7.4%
	24.7%			23.9%	
\$100,000+	8.6%	15.0%	37.6%	21.4%	17.3%
	23.6%			38.7%	

TAKE HOME: Parents who reported more than \$100,000 in annual income reported being more likely to spend more money on their children's youth sports when COVID-19 restrictions are lifted.

SURVEY ITEM: What will you do when current restrictions due to COVID-19 are removed?

	<i>Resume at SAME level</i>	<i>Resume at LOWER level</i>	<i>Resume at HIGHER level</i>	<i>Not participate</i>	<i>Haven't Decided</i>
\$0 - \$49,999	43.3%	26.7%	9.8%	3.5%	16.6%
\$50,000 - \$99,999	47.3%	26.1%	11.4%	2.1%	13.0%
\$100,000+	60.4%	22.6%	10.6%	1.9%	4.5%

TAKE HOME: No meaningful differences were present across regions on parents' plans for their children's resumption of youth sport.

SURVEY ITEM: Please indicate your level of agreement with the following statements about potential barriers to your child resuming sports when current restrictions due to COVID-19 are removed.

	<i>Fear of illness (Child)</i>	<i>Fear of illness (Parent)</i>	<i>Schedule conflicts</i>	<i>Child not interested</i>	<i>Transport difficulty</i>
\$0 - \$49,999	3.68	3.53	2.88 ^a	2.38 ^a	2.66 ^b
\$50,000 - \$99,999	3.58	3.43	2.84 ^a	2.31 ^a	2.44 ^a
\$100,000+	3.63	3.46	3.13 ^b	2.63 ^b	2.85 ^b
TOTAL	3.63	3.47	2.95	2.44	2.64

NOTES: Significant differences across income brackets are denoted by different superscripts. Brackets with matching superscripts are not significantly different from one another.

\$0-\$49,999

	<i>Strongly Disagree 1</i>	<i>Disagree 2</i>	<i>Neither Agree nor Disagree 3</i>	<i>Agree 4</i>	<i>Strongly Agree 5</i>
Fear of illness (Child)	11.4%	8.2%	16.3%	29.2%	34.9%
	19.6%			64.1%	
Fear of illness (Parent)	10.1%	12.8%	16.9%	34.6%	25.6%
	22.9%			60.2%	
Schedule conflicts	20.2%	23.2%	21.2%	19.1%	16.3%
	43.4%			35.4%	
Child not interested	38.4%	20.7%	16.1%	14.4%	10.4%
	59.1%			24.8%	
Transport difficulty	29.7%	22.6%	16.4%	15.0%	16.3%
	52.3%			31.3%	

\$50,000-\$99,999

	<i>Strongly Disagree 1</i>	<i>Disagree 2</i>	<i>Neither Agree nor Disagree 3</i>	<i>Agree 4</i>	<i>Strongly Agree 5</i>
Fear of illness (Child)	10.9%	13.5%	13.0%	31.8%	30.8%
	24.4%			61.6%	
Fear of illness (Parent)	11.1%	15.9%	15.4%	33.7%	23.9%
	27.0%			57.6%	
Schedule conflicts	23.6%	19.6%	20.0%	23.3%	13.5%
	53.2%			36.8%	
Child not interested	44.3%	18.0%	12.8%	12.2%	12.7%
	62.3%			24.9%	
Transport difficulty	35.0%	24.9%	13.0%	15.4%	11.7%
	59.9%			27.1%	

	\$100,000+				
	<i>Strongly Disagree</i> 1	<i>Disagree</i> 2	<i>Neither Agree nor Disagree</i> 3	<i>Agree</i> 4	<i>Strongly Agree</i> 5
Fear of illness (Child)	12.8%	11.4%	10.9%	30.1%	34.8%
	24.2%			64.9%	
Fear of illness (Parent)	10.9%	15.0%	13.9%	37.6%	22.6%
	25.9%			60.2%	
Schedule conflicts	18.9%	18.9%	14.0%	26.5%	21.7%
	37.8%			48.2%	
Child not interested	35.7%	18.4%	8.6%	21.7%	15.6%
	54.1%			38.3%	
Transport difficulty	28.1%	18.9%	14.3%	17.3%	21.4%
	47.0%			38.7%	

TAKE HOME: There were relatively minor (but statistically significant) differences across barriers to participation by family income bracket. Specifically, parents in families making more than \$100,000 rated schedule conflicts, child not interested, and transportation difficulty as larger barriers to the resumption of participation.

SURVEY ITEM: *How much have your children been engaging in sport, physical activity, and free play with each other during COVID-19-related restrictions.*

	<i>M</i>
\$0 - \$49,999	2.64 ^{ab}
\$50,000 - \$99,999	2.49 ^b
\$100,000+	2.78 ^a
TOTAL	2.64

	<i>Much less than before</i> 1	<i>Less than before</i> 2	<i>About the same as before</i> 3	<i>More than before</i> 4	<i>Much more than before</i> 5
\$0 - \$49,999	23.3%	26.5%	22.8%	17.8%	9.6%
\$50,000 - \$99,999	23.1%	32.9%	22.2%	15.1%	6.7%
\$100,000+	20.2%	27.3%	17.8%	23.6%	11.2%

TAKE HOME: Statistically significant differences emerged across family income on children’s engagement in sport, physical activity, and free play with their siblings during COVID-19-related restrictions. Specifically, families making \$100,000 or more reported their children interacting more than families making \$50,000-\$99,000, but not significantly more than families making less than \$50,000.

SURVEY ITEM: I believe my relationship with my [Spouse/Partner, Child, Extended Family] has become _____ during COVID-19-related school and sport-related restrictions.

	Spouse/ Partner	Child	Extended Family
\$0 - \$49,999	3.27 ^a	3.62 ^a	3.28 ^a
\$50,000 - \$99,999	3.46 ^b	3.68 ^a	3.32 ^a
\$100,000+	3.82 ^c	3.93 ^b	3.67 ^b
TOTAL	3.52	3.74	3.42

Spouse/Partner	Much Worse 1	Worse 2	About the same as before 3	Better 4	Much Better 5
\$0 - \$49,999	7.9%	10.6%	46.9%	16.1%	18.5%
\$50,000 - \$99,999	2.9%	9.0%	44.8%	25.2%	18.0%
\$100,000+	2.8%	5.0%	32.9%	25.6%	33.7%

Child	Much Worse 1	Worse 2	About the same as before 3	Better 4	Much Better 5
\$0 - \$49,999	4.6%	8.7%	30.2%	32.7%	23.7%
\$50,000 - \$99,999	2.9%	4.5%	36.6%	33.2%	22.8%
\$100,000+	1.4%	5.3%	24.5%	36.2%	32.6%

Extended Family	Much Worse 1	Worse 2	About the same as before 3	Better 4	Much Better 5
\$0 - \$49,999	5.2%	13.6%	47.1%	16.1%	18.0%
\$50,000 - \$99,999	3.2%	11.1%	49.6%	22.3%	13.8%
\$100,000+	2.2%	6.4%	38.7%	27.9%	24.8%

TAKE HOME: Statistical differences emerged across family income on parents' relationships with their spouse/partner, child, and extended family. In general, families making more money reported more enhanced relationship quality than families that made less money.

5.6 Differences by Child Age

	<i>n</i>	<i>% of sample</i>
6-10	327	29.6%
11-14	433	39.3%
15-18	343	31.1%

SURVEY ITEM: *How many hours a week did your child engage in the following before (and during) COVID-19 restrictions?*

	BEFORE COVID-19					DURING COVID-19				
	<i>Pickup/Free play</i>	<i>Virtual Training</i>	<i>Focused Practice or Drills</i>	<i>Games or Competition</i>	<i>TOTAL</i>	<i>Pickup/Free play</i>	<i>Virtual Training</i>	<i>Focused Practice or Drills</i>	<i>Games or Competition</i>	<i>TOTAL</i>
6-10	2.98	1.68	2.84 ^a	2.76 ^a	10.22^a	2.07 ^{*ab}	1.57	1.78 ^{*a}	1.73 [*]	7.16[*]
11-14	3.10	1.48	3.65 ^b	3.15 ^{ab}	11.37^a	2.14 ^{*a}	1.77 [*]	1.94 ^{*a}	1.46 [*]	7.32[*]
15-18	2.73	1.24	5.33 ^c	3.63 ^b	12.94^b	1.62 ^{*b}	1.51	2.71 ^{*b}	1.28 [*]	7.12[*]
TOTAL	2.95	1.46	3.93	3.18	11.51	1.96	1.63	2.13	1.49	7.21

NOTES: Significant differences across age brackets are denoted by different superscripts. Significant before-to-during differences within age brackets are denoted by asterisk. Cells with matching superscripts are not significantly different from one another.

TAKE HOME: Statistically significant differences existed across age groups in focused practice or drills, games or competitions, and overall hours of participation prior to the COVID-19 pandemic. Statistically significant differences also existed across age groups in pickup/free play and focused practice or drills during the COVID-19 pandemic. Notably, across all age groups, children’s hours devoted to pickup/free play, focused practice or drills, games or competition, and overall hours of participation have gone down, whereas weekly hours dedicated to virtual forms of training have only increased only for 11-14 year-olds.

SURVEY ITEM: After youth sports resume, our family will likely spend _____ money than we used to on this child's youth sport participation.

	M
6-10	3.03
11-14	3.08
15-18	2.96
TOTAL	3.03

NOTES: Data were collected on a scale ranging from 1 (*substantially less*) to 5 (*substantially more*). Significant differences across age groups are denoted by different superscripts. Cells with matching superscripts are not significantly different from one another.

	Substantially Less 1	A Little Less 2	About the Same 3	A Little More 4	Substantially More 5
6-10	11.0%	19.3%	36.8%	21.5%	11.3%
	29.3%			32.8%	
11-14	6.9%	17.8%	47.3%	15.9%	12.0%
	24.7%			27.9%	
15-18	11.4%	14.6%	49.9%	15.2%	9.0%
	26.0%			24.2%	

TAKE HOME: No significant differences existed across child age groups.

SURVEY ITEM: What will you do when current restrictions due to COVID-19 are removed?

	Resume at SAME level	Resume at LOWER level	Resume at HIGHER level	Not participate	Haven't Decided
6-10	50.9%	25.2%	13.2%	2.1%	8.6%
11-14	48.5%	26.8%	10.9%	2.1%	11.8%
15-18	51.9%	23.0%	7.9%	3.5%	13.7%

TAKE HOME: No meaningful differences were present across age groups on parents' plans for their children's resumption of youth sport.

SURVEY ITEM: Please indicate your level of agreement with the following statements about potential barriers to your child resuming sports when current restrictions due to COVID-19 are removed.

	<i>Fear of illness (Child)</i>	<i>Fear of illness (Parent)</i>	<i>Schedule conflicts</i>	<i>Child not interested</i>	<i>Transport difficulty</i>
6-10	3.65	3.46	3.06 ^a	2.66 ^a	2.80 ^a
11-14	3.63	3.51	3.02 ^a	2.38 ^b	2.70 ^a
15-18	3.62	3.44	2.75 ^b	2.29 ^b	2.43 ^b

NOTES: Significant differences across age groups are denoted by different superscripts. Regions with matching superscripts are not significantly different from one another.

6-10

	<i>Strongly Disagree</i> 1	<i>Disagree</i> 2	<i>Neither Agree nor Disagree</i> 3	<i>Agree</i> 4	<i>Strongly Agree</i> 5
Fear of illness (Child)	13.5%	9.8%	10.6%	30.9%	35.2%
	23.3%			66.1%	
Fear of illness (Parent)	10.7%	14.4%	14.0%	40.1%	20.8%
	25.1%			60.9%	
Schedule conflicts	18.7%	18.3%	21.4%	21.7%	19.9%
	37.0%			41.6%	
Child not interested	33.0%	21.1%	10.2%	18.3%	17.4%
	54.1%			35.7%	
Transport difficulty	27.5%	22.9%	12.6%	16.2%	20.8%
	50.4%			37.0%	

11-14

	<i>Strongly Disagree</i> 1	<i>Disagree</i> 2	<i>Neither Agree nor Disagree</i> 3	<i>Agree</i> 4	<i>Strongly Agree</i> 5
Fear of illness (Child)	11.8%	10.6%	14.8%	28.9%	33.9%
	22.4%			62.8%	
Fear of illness (Parent)	10.6%	12.9%	16.7%	34.4%	25.4%
	23.5%			59.8%	
Schedule conflicts	18.2%	21.5%	16.8%	26.6%	16.9%
	39.7%			43.5%	
Child not interested	39.7%	20.6%	12.7%	15.7%	11.3%
	60.3%			27.0%	
Transport difficulty	29.6%	20.8%	16.3%	16.9%	16.4%
	50.4%			33.3%	

15-18	Strongly Disagree		Neither Agree nor Disagree	Strongly Agree	
	1	2		4	5
Fear of illness (Child)	9.9%	12.8%	14.3%	31.8%	31.2%
	22.7%			63.0%	
Fear of illness (Parent)	10.8%	16.9%	15.1%	31.8%	25.4%
	27.7%			57.2%	
Schedule conflicts	26.5%	21.6%	17.5%	19.5%	14.9%
	48.1%			34.4%	
Child not interested	45.5%	15.2%	14.5%	14.3%	10.5%
	60.7%			24.8%	
Transport difficulty	36.2%	23.3%	14.0%	14.3%	12.2%
	59.5%			26.5%	

TAKE HOME: Statistically significant differences existed in parent reports of barriers to the resumption of play across the age groups. Of note: parents of older children reported the lowest concerns regarding schedule conflicts, child not interested, and transportation difficulty.

SURVEY ITEM: *How much have your children been engaging in sport, physical activity, and free play with each other during COVID-19-related restrictions.*

	M
6-10	2.77
11-14	2.66
15-18	2.50
TOTAL	2.64

	Much less than before	Less than before	About the same as before	More than before	Much more than before
	1	2	3	4	5
6-10	18.3%	29.4%	18.9%	23.3%	10.0%
11-14	19.6%	30.7%	22.3%	18.9%	8.4%
15-18	29.0%	25.7%	20.5%	15.2%	9.5%

TAKE HOME: No statistically significant differences emerged across child age groups.

SURVEY ITEM: *I believe my relationship with my [Spouse/Partner, Child, Extended Family] has become _____ during COVID-19-related school and sport-related restrictions.*

	<i>Spouse/ Partner</i>	<i>Child</i>	<i>Extended Family</i>
6-10	3.59	3.78	3.46
11-14	3.54	3.77	3.44
15-18	3.41	3.68	3.36
TOTAL	3.52	3.74	3.42

Spouse/Partner	<i>Much Worse 1</i>	<i>Worse 2</i>	<i>About the same as before 3</i>	<i>Better 4</i>	<i>Much Better 5</i>
6-10	5.2%	7.6%	38.5%	20.5%	28.1%
11-14	3.7%	8.1%	40.6%	25.4%	22.2%
15-18	5.0%	9.0%	45.8%	20.1%	20.1%

Child	<i>Much Worse 1</i>	<i>Worse 2</i>	<i>About the same as before 3</i>	<i>Better 4</i>	<i>Much Better 5</i>
6-10	2.1%	6.7%	31.2%	30.6%	29.4%
11-14	2.8%	5.8%	28.2%	38.3%	24.9%
15-18	4.1%	6.1%	32.9%	31.8%	25.1%

Extended Family	<i>Much Worse 1</i>	<i>Worse 2</i>	<i>About the same as before 3</i>	<i>Better 4</i>	<i>Much Better 5</i>
6-10	2.8%	11.3%	41.6%	26.0%	18.3%
11-14	3.9%	9.2%	46.7%	19.4%	20.8%
15-18	3.8%	11.1%	46.9%	21.6%	16.6%

TAKE HOME: No statistical differences emerged across child age on parents' relationships with their spouse/partner, child, or extended family.

5.7 Differences by Primary Sport

	<i>n</i>	<i>% of sample</i>
Baseball	142	12.9%
Basketball	262	23.8%
Tackle Football	88	8.0%
Soccer	167	15.1%
TOTAL	659	59.7%

SURVEY ITEM: *How many hours a week did your child engage in the following before (and during) COVID-19 restrictions?*

	BEFORE COVID-19					DURING COVID-19				
	<i>Pickup/Free play</i>	<i>Virtual Training</i>	<i>Focused Practice or Drills</i>	<i>Games or Competition</i>	TOTAL	<i>Pickup/Free play</i>	<i>Virtual Training</i>	<i>Focused Practice or Drills</i>	<i>Games or Competition</i>	TOTAL
Baseball	2.91	1.68	4.35 ^{ab}	4.11 ^a	13.05^a	1.98*	1.82 ^{ab}	2.87* ^a	2.34* ^a	9.00*^b
Basketball	3.58	1.69	3.77 ^b	3.26 ^b	12.30^{ab}	2.31*	1.72 ^{ab}	1.90* ^b	1.36* ^b	7.28*^{bc}
Tackle Football	2.92	1.44	5.25 ^a	3.32 ^{ab}	12.93^{ab}	1.75*	2.31* ^a	3.73* ^a	2.17* ^a	9.96*^{ab}
Soccer	2.97	1.08	3.57 ^b	3.14 ^b	10.73^b	2.21*	1.26 ^b	1.66* ^b	1.21* ^b	6.34*^c
TOTAL	3.19	1.50	4.04	3.42	12.15	2.14	1.70	2.29	1.64	7.77

NOTES: Significant differences across the most popular sports are denoted by different superscripts. Significant before-to-during differences within sports are denoted by asterisk. Cells with matching superscripts are not significantly different from one another.

TAKE HOME: Statistically significant differences existed across these sports in focused practice or drills, games or competition, and overall hours of sport participation prior to the COVID-19 pandemic. Statistically significant differences also existed across these sports in virtual training, focused practice or drills, games or competition, and overall hours of participation during the COVID-19 pandemic. Notably, changes have occurred in children’s hours devoted to these forms of sport participation since COVID-19-related restrictions have been put in place. Across all sports, children’s hours devoted to pickup/free play, focused practice or drills, games or competition, and overall hours of participation have gone down, whereas weekly hours dedicated to virtual forms of training have only gone up in tackle football.

SURVEY ITEM: After youth sports resume, our family will likely spend _____ money than we used to on this child's youth sport participation.

	<i>M</i>
Baseball	3.15
Basketball	3.07
Tackle Football	3.26
Soccer	2.96
TOTAL	3.09

NOTES: Data were collected on a scale ranging from 1 (*substantially less*) to 5 (*substantially more*). Significant differences across the most popular sports are denoted by different superscripts. Cells with matching superscripts are not significantly different from one another.

	<i>Substantially Less</i> 1	<i>A Little Less</i> 2	<i>About the Same</i> 3	<i>A Little More</i> 4	<i>Substantially More</i> 5
Baseball	6.3%	14.8%	48.6%	17.6%	12.7%
	21.1%			30.3%	
Basketball	9.2%	18.8%	42.1%	16.1%	13.8%
	28.0%			29.9%	
Tackle Football	6.8%	12.5%	43.2%	22.7%	14.8%
	19.3%			37.5%	
Soccer	7.2%	19.2%	47.9%	21.6%	4.2%
	26.4%			25.8%	

TAKE HOME: No significant differences existed across sports.

SURVEY ITEM: What will you do when current restrictions due to COVID-19 are removed?

	<i>Resume at SAME level</i>	<i>Resume at LOWER level</i>	<i>Resume at HIGHER level</i>	<i>Not participate</i>	<i>Haven't Decided</i>
Baseball	57.0%	20.4%	12.7%	0%	9.9%
Basketball	49.8%	27.6%	10.0%	3.1%	9.6%
Tackle Football	56.8%	15.9%	11.4%	5.7%	10.2%
Soccer	49.1%	28.1%	10.2%	1.2%	11.4%

TAKE HOME: No meaningful differences were present across regions on parents' plans for their children's resumption of youth sport.

SURVEY ITEM: Please indicate your level of agreement with the following statements about potential barriers to your child resuming sports when current restrictions due to COVID-19 are removed.

	<i>Fear of illness (Child)</i>	<i>Fear of illness (Parent)</i>	<i>Schedule conflicts</i>	<i>Child not interested</i>	<i>Transport difficulty</i>
Baseball	3.50	3.28	2.65 ^b	2.31	2.40 ^b
Basketball	3.76	3.55	3.13 ^a	2.48	2.86 ^a
Tackle Football	3.80	3.53	2.91 ^a	2.33	2.47 ^b
Soccer	3.46	3.40	2.56 ^b	2.16	2.22 ^b
TOTAL	3.63	3.45	2.85	2.34	2.55

NOTES: Significant differences across the most popular sports are denoted by different superscripts. Community types with matching superscripts are not significantly different from one another.

Baseball	<i>Strongly Disagree</i>		<i>Neither Agree nor Disagree</i>	<i>Strongly Agree</i>	
	<i>1</i>	<i>2</i>		<i>4</i>	<i>5</i>
Fear of illness (Child)	16.9%	13.4%	8.4%	25.4%	35.9%
	30.3%			61.3%	
Fear of illness (Parent)	14.1%	21.8%	9.9%	30.3%	23.9%
	35.9%			54.2%	
Schedule conflicts	29.6%	18.3%	21.8%	17.6%	12.7%
	47.9%			30.3%	
Child not interested	47.2%	14.8%	11.9%	12.0%	14.1%
	62.0%			26.1%	
Transport difficulty	40.8%	19.7%	12.0%	13.4%	14.1%
	60.5%			27.5%	

Basketball	<i>Strongly Disagree</i>		<i>Neither Agree nor Disagree</i>	<i>Strongly Agree</i>	
	<i>1</i>	<i>2</i>		<i>4</i>	<i>5</i>
Fear of illness (Child)	10.7%	8.8%	12.1%	30.2%	38.2%
	19.5%			68.4%	
Fear of illness (Parent)	9.2%	13.7%	14.5%	37.8%	24.8%
	22.9%			62.6%	
Schedule conflicts	19.5%	14.9%	16.8%	30.9%	17.9%
	34.4%			48.8%	
Child not interested	38.5%	19.5%	12.6%	14.5%	14.9%
	58.0%			29.4%	
Transport difficulty	26.0%	19.5%	16.7%	18.3%	19.5%
	45.5%			37.8%	

Tackle Football	<i>Strongly Disagree</i>		<i>Neither Agree nor Disagree</i>	<i>Strongly Agree</i>	
	1	2		4	5
Fear of illness (Child)	13.6%	9.1%	11.4%	15.9%	50.0%
	22.7%			65.9%	
Fear of illness (Parent)	14.8%	13.6%	7.9%	30.7%	33.0%
	28.4%			63.7%	
Schedule conflicts	22.7%	20.5%	18.1%	20.5%	18.2%
	43.2%			38.7%	
Child not interested	43.2%	19.3%	12.5%	11.4%	13.6%
	62.5%			25.0%	
Transport difficulty	37.5%	20.5%	13.6%	14.8%	13.6%
	58.0%			28.4%	

Soccer	<i>Strongly Disagree</i>		<i>Neither Agree nor Disagree</i>	<i>Strongly Agree</i>	
	1	2		4	5
Fear of illness (Child)	11.4%	12.6%	20.4%	30.5%	25.1%
	24.0%			55.6%	
Fear of illness (Parent)	11.4%	12.6%	22.7%	31.1%	22.2%
	34.0%			53.3%	
Schedule conflicts	23.4%	32.9%	17.9%	16.2%	9.6%
	56.3%			25.8%	
Child not interested	44.3%	24.0%	10.1%	14.4%	7.2%
	68.3%			21.6%	
Transport difficulty	37.1%	31.1%	11.4%	13.2%	7.2%
	68.2%			20.4%	

TAKE HOME: Statistically significant differences existed across sports on parent reports of schedule conflicts and transportation difficulty. Specifically, schedule conflicts were reported as less of a barrier in soccer and baseball than basketball and tackle football. Transportation difficulty was reported as more of a barrier in basketball than the other three sports.

SURVEY ITEM: *How much have your children been engaging in sport, physical activity, and free play with each other during COVID-19-related restrictions.*

	<i>M</i>
Baseball	2.84
Basketball	2.67
Tackle Football	2.39
Soccer	2.52
TOTAL	2.63

	<i>Much less than before</i> 1	<i>Less than before</i> 2	<i>About the same as before</i> 3	<i>More than before</i> 4	<i>Much more than before</i> 5
Baseball	17.6%	21.2%	28.2%	25.9%	7.1%
Basketball	19.8%	32.6%	19.2%	18.0%	10.5%
Tackle Football	38.6%	21.1%	15.8%	12.3%	12.3%
Soccer	24.0%	33.7%	17.3%	16.3%	8.7%

TAKE HOME: No statistically significant differences emerged across these four sports.

SURVEY ITEM: *I believe my relationship with my [Spouse/Partner, Child, Extended Family] has become _____ during COVID-19-related school and sport-related restrictions.*

	<i>Spouse/ Partner</i>	<i>Child</i>	<i>Extended Family</i>
Baseball	3.68	3.75	3.52
Basketball	3.65	3.79	3.47
Tackle Football	3.57	3.97	3.39
Soccer	3.39	3.65	3.32
TOTAL	3.58	3.77	3.43

Spouse/Partner	<i>Much Worse</i> 1	<i>Worse</i> 2	<i>About the same as before</i> 3	<i>Better</i> 4	<i>Much Better</i> 5
Baseball	4.2%	4.9%	37.3%	25.4%	28.2%
Basketball	3.8%	9.2%	34.7%	23.3%	29.0%
Tackle Football	8.0%	5.7%	35.2%	23.9%	27.3%
Soccer	4.2%	6.6%	52.7%	19.2%	17.4%

Child	<i>Much Worse</i> 1	<i>Worse</i> 2	<i>About the same as before</i> 3	<i>Better</i> 4	<i>Much Better</i> 5
Baseball	2.1%	4.9%	35.2%	31.7%	26.1%
Basketball	3.4%	5.7%	26.7%	36.6%	27.5%
Tackle Football	2.3%	4.5%	22.7%	35.2%	35.2%
Soccer	3.0%	6.0%	34.7%	35.3%	21.0%

Extended Family	<i>Much Worse 1</i>	<i>Worse 2</i>	<i>About the same as before 3</i>	<i>Better 4</i>	<i>Much Better 5</i>
Baseball	3.5%	9.2%	40.8%	24.6%	21.8%
Basketball	5.7%	8.4%	40.1%	24.8%	21.0%
Tackle Football	3.4%	15.9%	38.6%	22.7%	19.3%
Soccer	2.4%	10.2%	53.3%	21.0%	13.2%

TAKE HOME: No statistical differences emerged across these sports on parents' relationships with their spouse/partner, child, or extended family.

5.8 Differences by State

	<i>n</i>	<i>% of sample</i>
California	99	9.0%
Florida	89	8.1%
New York	89	8.1%
Texas	78	7.1%
TOTAL	355	32.2%

SURVEY ITEM: *How many hours a week did your child engage in the following before (and during) COVID-19 restrictions?*

	BEFORE COVID-19					DURING COVID-19				
	<i>Pickup/Free play</i>	<i>Virtual Training</i>	<i>Focused Practice or Drills</i>	<i>Games or Competition</i>	TOTAL	<i>Pickup/Free play</i>	<i>Virtual Training</i>	<i>Focused Practice or Drills</i>	<i>Games or Competition</i>	TOTAL
California	3.24	1.48	3.41	2.66 ^b	10.80	2.02*	1.78	1.79*	1.30*	6.89*
Florida	3.48	1.57	4.11	3.22 ^{ab}	12.39	2.06*	1.64	2.30*	2.04*	8.04*
New York	3.19	2.15	3.56	2.94 ^b	11.82	2.16*	2.02	2.18*	1.47*	7.83*
Texas	3.15	1.88	4.18	4.26 ^a	13.47	1.95*	2.29	1.94*	1.63*	7.81*
TOTAL	3.27	1.76	3.79	3.22	12.04	2.05	1.92	2.05	1.60	7.62

NOTES: Significant differences by the most populous states are denoted by different superscripts. Significant before-to-during differences within states are denoted by asterisk. Cells with matching superscripts are not significantly different from one another.

TAKE HOME: Statistically significant differences existed across these states in games or competition prior to the COVID-19 pandemic. No statistical differences existed across these states during the COVID-19 pandemic. Notably, however, across these four states, children’s hours devoted to pickup/free play, focused practice or drills, games or competition, and overall hours have gone down, whereas weekly hours dedicated to virtual forms of training have remained flat.

SURVEY ITEM: After youth sports resume, our family will likely spend _____ money than we used to on this child's youth sport participation.

	<i>M</i>
California	3.04
Florida	3.18
New York	3.27
Texas	2.86
TOTAL	3.09

NOTES: Data were collected on a scale ranging from 1 (*substantially less*) to 5 (*substantially more*). Significant differences between the most populous states are denoted by different superscripts. Cells with matching superscripts are not significantly different from one another.

	<i>Substantially Less</i> 1	<i>A Little Less</i> 2	<i>About the Same</i> 3	<i>A Little More</i> 4	<i>Substantially More</i> 5
California	9.1%	17.2%	43.4%	21.2%	9.1%
	26.3%			30.3%	
Florida	10.1%	13.5%	38.2%	24.7%	13.5%
	23.6%			38.2%	
New York	5.6%	16.9%	33.7%	32.6%	11.2%
	22.5%			43.8%	
Texas	11.5%	21.8%	42.3%	17.9%	6.4%
	23.3%			24.3%	

TAKE HOME: No statistically significant differences exist across these four states.

SURVEY ITEM: What will you do when current restrictions due to COVID-19 are removed?

	<i>Resume at SAME level</i>	<i>Resume at LOWER level</i>	<i>Resume at HIGHER level</i>	<i>Not participate</i>	<i>Haven't Decided</i>
California	42.4%	24.2%	13.1%	5.1%	15.2%
Florida	52.8%	20.2%	9.0%	3.4%	14.6%
New York	50.6%	22.5%	19.1%	1.1%	6.7%
Texas	52.6%	29.5%	5.1%	3.8%	9.0%

TAKE HOME: No meaningful differences were present across these states on parents' plans for their children's resumption of youth sport.

SURVEY ITEM: Please indicate your level of agreement with the following statements about potential barriers to your child resuming sports when current restrictions due to COVID-19 are removed.

	<i>Fear of illness (Child)</i>	<i>Fear of illness (Parent)</i>	<i>Schedule conflicts</i>	<i>Child not interested</i>	<i>Transport difficulty</i>
California	3.62	3.43	3.06	2.64	2.77
Florida	3.61	3.38	2.96	2.44	2.58
New York	3.54	3.28	2.96	2.25	2.61
Texas	3.88	3.67	3.08	2.50	2.71
TOTAL	3.65	3.43	3.01	2.46	2.67

NOTES: Significant differences across the most populous states are denoted by different superscripts. Groups with matching superscripts are not significantly different from one another.

California

	<i>Strongly Disagree 1</i>	<i>Disagree 2</i>	<i>Neither Agree nor Disagree 3</i>	<i>Agree 4</i>	<i>Strongly Agree 5</i>
Fear of illness (Child)	17.2%	3.0%	14.2%	32.3%	33.3%
	20.2%			65.6%	
Fear of illness (Parent)	12.1%	14.1%	18.2%	29.3%	26.3%
	36.2%			55.6%	
Schedule conflicts	20.2%	16.2%	18.1%	28.3%	17.2%
	36.4%			45.5%	
Child not interested	34.3%	18.2%	15.2%	14.1%	18.2%
	52.5%			32.3%	
Transport difficulty	31.3%	16.2%	16.1%	17.2%	19.2%
	47.5%			36.4%	

Florida

	<i>Strongly Disagree 1</i>	<i>Disagree 2</i>	<i>Neither Agree nor Disagree 3</i>	<i>Agree 4</i>	<i>Strongly Agree 5</i>
Fear of illness (Child)	10.1%	15.7%	12.4%	27.0%	34.8%
	25.8%			61.8%	
Fear of illness (Parent)	12.4%	16.9%	13.4%	34.8%	22.5%
	29.3%			57.3%	
Schedule conflicts	20.2%	19.1%	21.4%	23.6%	15.7%
	39.3%			39.3%	
Child not interested	37.1%	22.5%	13.4%	13.5%	13.5%
	59.6%			27.0%	
Transport difficulty	32.6%	23.6%	12.4%	15.7%	15.7%
	56.2%			31.4%	

New York	Strongly Disagree		Neither Agree nor Disagree	Strongly Agree	
	1	2		4	5
Fear of illness (Child)	13.5%	7.9%	15.7%	37.1%	25.8%
	21.4%			62.9%	
Fear of illness (Parent)	13.5%	10.1%	24.7%	38.2%	13.5%
	23.6%			51.7%	
Schedule conflicts	21.3%	14.6%	22.6%	30.3%	11.2%
	35.9%			41.5%	
Child not interested	39.3%	29.2%	9.0%	12.4%	10.1%
	68.5%			22.5%	
Transport difficulty	29.2%	23.6%	19.1%	13.5%	14.6%
	52.8%			28.1%	

Texas	Strongly Disagree		Neither Agree nor Disagree	Strongly Agree	
	1	2		4	5
Fear of illness (Child)	9.0%	16.8%	27.0%	32.2%	41.0%
	25.8%			73.2%	
Fear of illness (Parent)	7.7%	12.8%	18.0%	28.2%	33.3%
	20.5%			61.5%	
Schedule conflicts	16.7%	23.1%	15.4%	25.6%	19.2%
	39.8%			44.8%	
Child not interested	41.0%	15.4%	11.5%	16.7%	15.4%
	56.4%			32.1%	
Transport difficulty	34.6%	15.4%	14.1%	16.7%	19.2%
	50.0%			35.9%	

TAKE HOME: No statistically significant differences existed in parent reports of barriers to the resumption of play across states.

SURVEY ITEM: *How much have your children been engaging in sport, physical activity, and free play with each other during COVID-19-related restrictions.*

	<i>M</i>
California	2.53 ^b
Florida	2.59 ^b
New York	3.10 ^a
Texas	2.52 ^b

	Much less than before	Less than before	About the same as before	More than before	Much more than before
	1	2	3	4	5
California	24.3%	31.4%	17.1%	21.4%	5.7%
Florida	21.4%	30.4%	26.8%	10.7%	10.7%
New York	14.5%	21.0%	21.0%	27.4%	16.1%
Texas	22.9%	37.5%	16.7%	10.4%	12.5%

TAKE HOME: Statistically significant differences emerged across states on children’s engagement in sport, physical activity, and free play with their siblings during COVID-19-related restrictions. Specifically, families from New York reported significantly higher interaction between siblings than those from the other three states.

SURVEY ITEM: *I believe my relationship with my [Spouse/Partner or Child or Extended Family] has become _____ during COVID-19-related school and sport-related restrictions.*

	<i>Spouse/ Partner</i>	<i>Child</i>	<i>Extended Family</i>
California	3.43	3.56	3.33 ^a
Florida	3.70	3.88	3.75 ^b
New York	3.67	3.91	3.61 ^{ab}
Texas	3.63	3.86	3.45 ^{ab}
TOTAL	3.60	3.79	3.53

Spouse/Partner	<i>Much Worse 1</i>	<i>Worse 2</i>	<i>About the same as before 3</i>	<i>Better 4</i>	<i>Much Better 5</i>
California	4.0%	11.1%	43.4%	20.2%	21.2%
Florida	3.4%	5.6%	41.6%	16.9%	32.6%
New York	4.5%	10.1%	29.2%	25.8%	30.3%
Texas	5.1%	9.0%	33.3%	23.1%	29.5%

Child	<i>Much Worse 1</i>	<i>Worse 2</i>	<i>About the same as before 3</i>	<i>Better 4</i>	<i>Much Better 5</i>
California	3.0%	8.1%	35.4%	37.4%	16.2%
Florida	2.2%	4.5%	28.1%	33.7%	31.5%
New York	6.7%	5.6%	20.2%	24.7%	42.7%
Texas	2.6%	5.1%	26.9%	34.6%	30.8%

Extended Family	<i>Much Worse 1</i>	<i>Worse 2</i>	<i>About the same as before 3</i>	<i>Better 4</i>	<i>Much Better 5</i>
California	2.0%	15.2%	43.4%	26.3%	13.1%
Florida	3.4%	4.5%	36.0%	25.8%	30.3%
New York	4.5%	7.9%	33.7%	30.3%	23.6%
Texas	3.8%	11.5%	42.3%	20.5%	21.8%

TAKE HOME: Small but statistically significant differences emerged across states on parents’ relationships with their extended families. Specifically, Florida respondents reported most favorably regarding their relationship with their extended families, whereas California reported least favorably.