

2021 Data Dive

PDA DAY PRESENTATION, FEBRUARY 11, 2021

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What is this Data Dive all about?

Session Goals

- ❖ Introduce you to tools and information resources available for your own research, while looking over a challenge SRJC is currently facing
- ❖ Review SRJC's most recent 2020 Emergency Response Survey data
- ❖ Give you access to the tools to do your own exploration with the data

Question:

What is going on with SRJC's Spring 2021 Headcount?

Using data & Visualizations from:

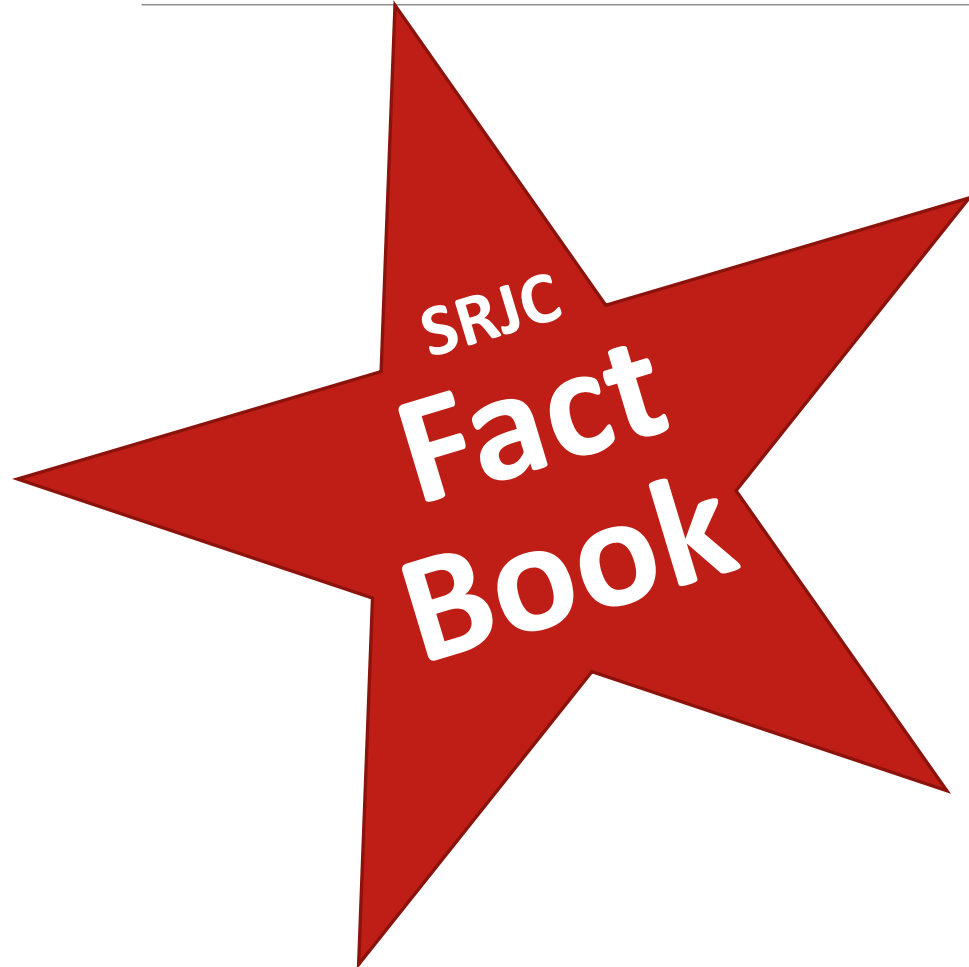
SRJC Fact Book

US Census Data

Sonoma County Data

California Ed-Data

Data Asset



Created by Greg Drukala

<https://fact-book.santarosa.edu/>

Public Data Visualizations include:

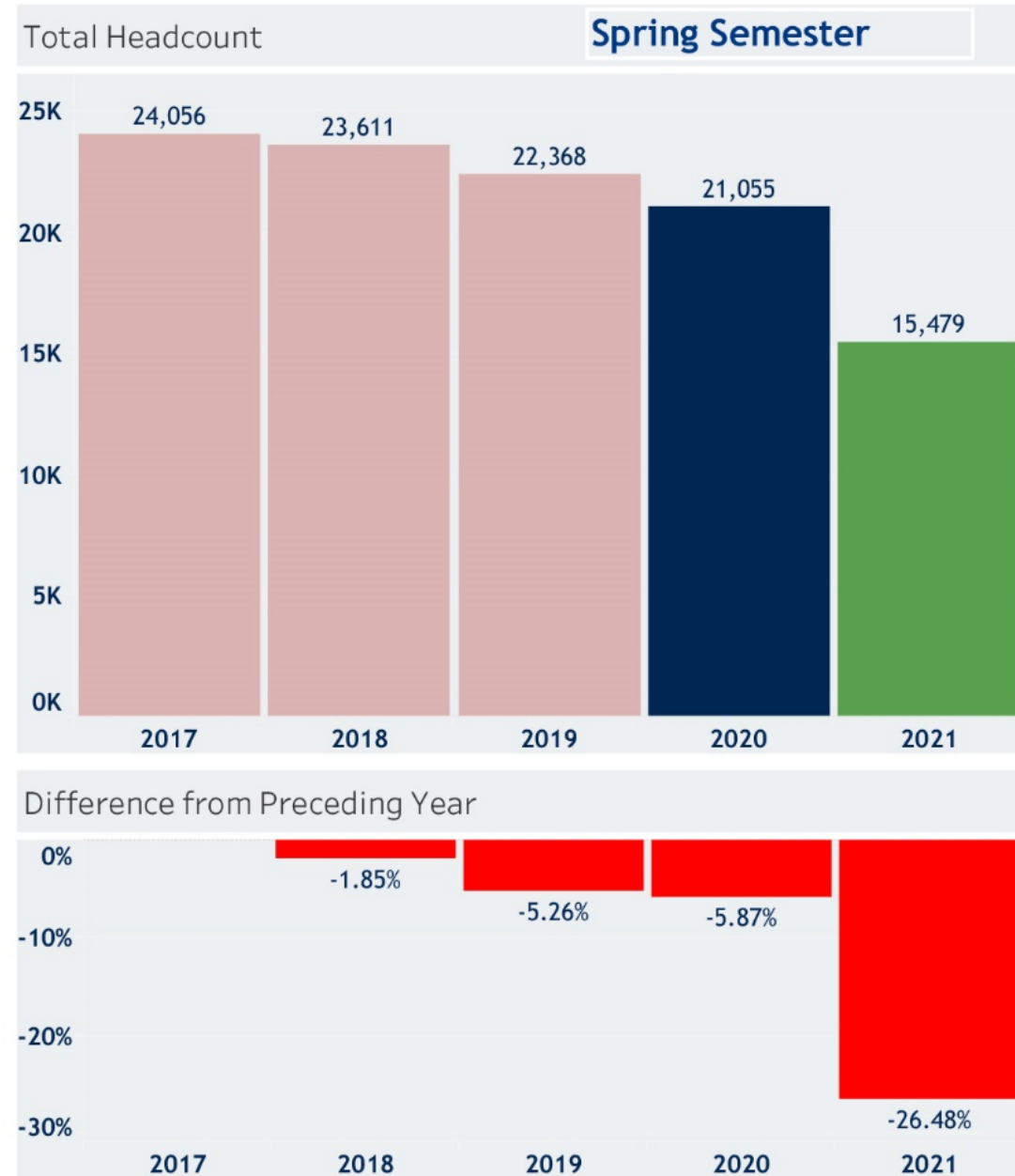
- Historical Enrollments by Semester
- Student Headcount Comparison - Current Semester
- Grade Distribution in Credit Courses
- Non-credit Course Enrollments and Headcounts
- Credit Courses Enrollments and Headcounts
- And many more

Spring 2021 Headcount Numbers

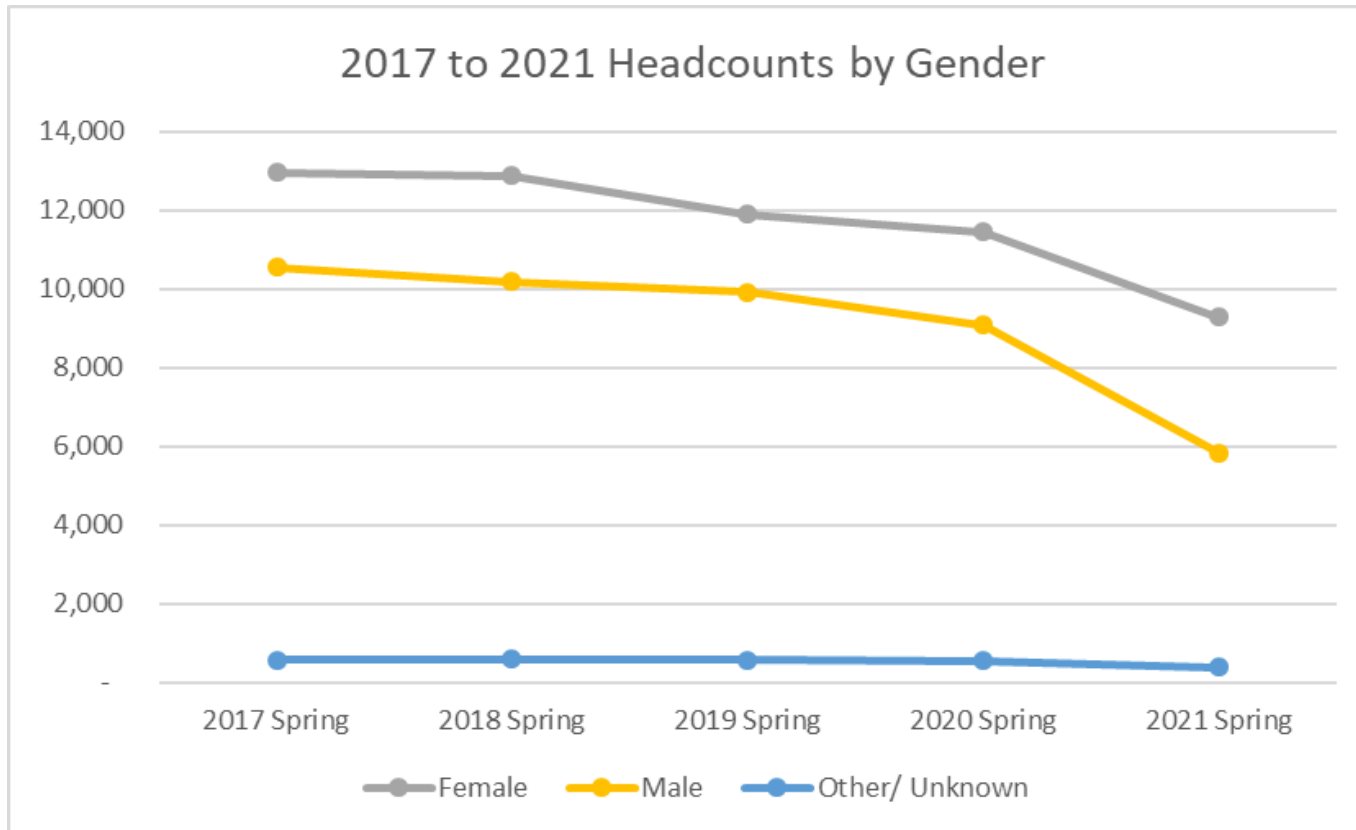
SRJC headcount has declined 26.5% from Spring 2020

SRJC headcount has declined 35.7% since 2017

Student Headcounts Comparison



2021 Spring Headcounts

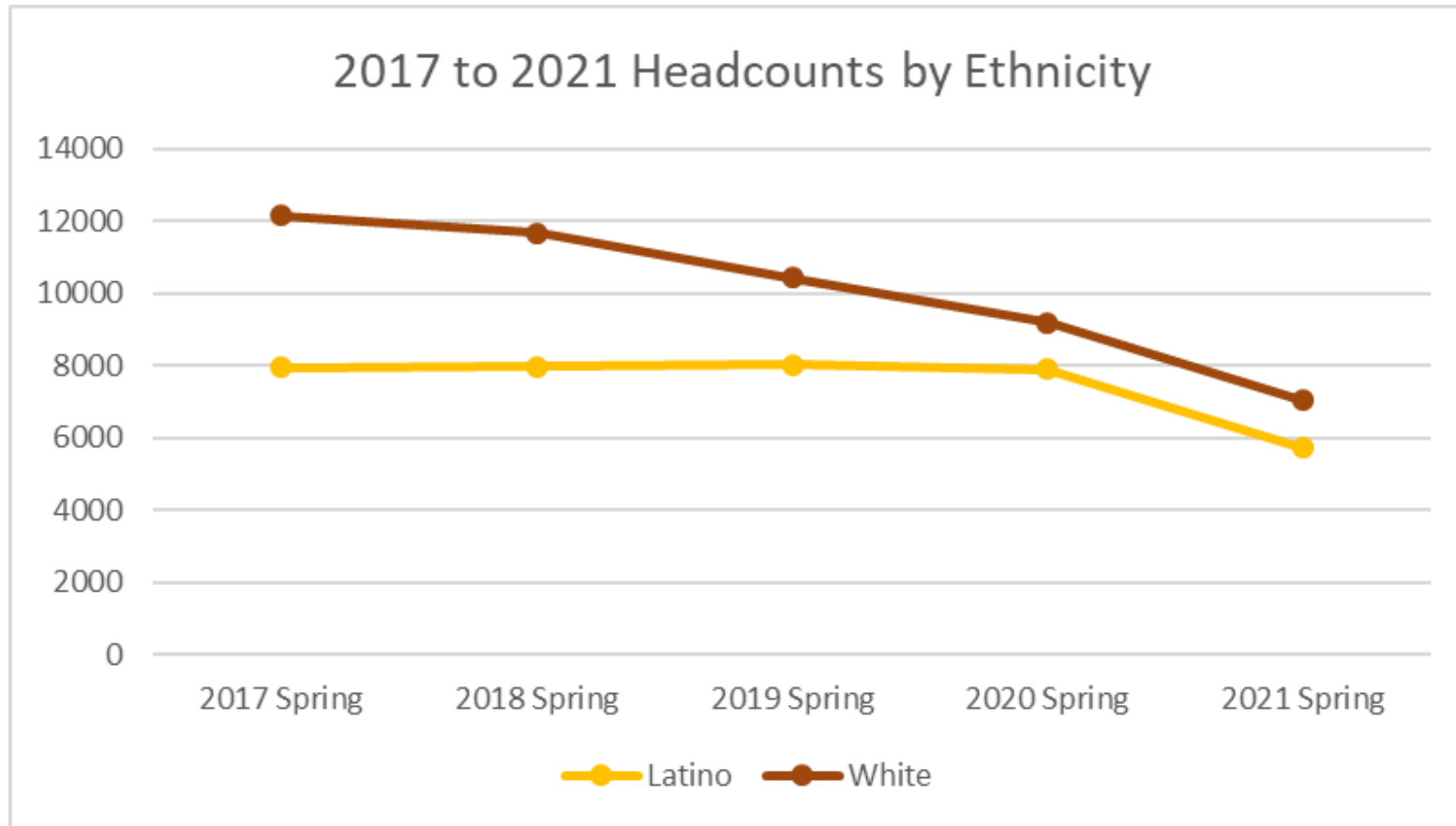


Semester	Female	Male	Other/ Unknown
2017 Spring	12,947	10,546	563
2018 Spring	12,866	10,171	574
2019 Spring	11,894	9,907	567
2020 Spring	11,444	9,072	539
2021 Spring	9,280	5,829	370

% Difference from 2020 to 2021	-18.9%	-35.7%	-31.4%
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% Difference from 2017 to 2021	-28.3%	-44.7%	-34.3%
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2021 Spring Headcounts

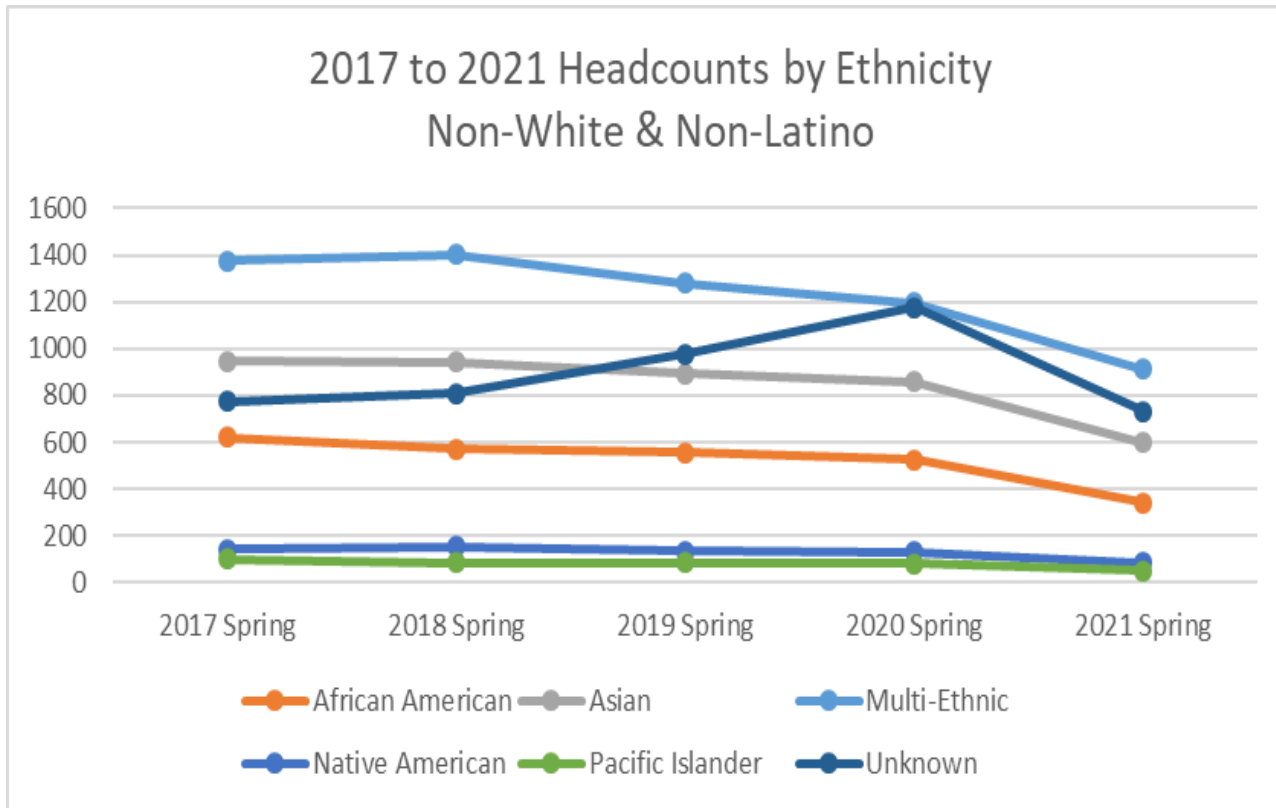


Semester	Latino	White
2017 Spring	7,954	12,137
2018 Spring	7,978	11,669
2019 Spring	8,010	10,427
2020 Spring	7,897	9,186
2021 Spring	5,717	7,040

% Difference from 2020 to 2021	-27.6%	-23.4%
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% Difference from 2017 to 2021	-28.1%	-42.0%
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2021 Spring Headcounts



Semester	African American	Asian	Multi-Ethnic	Native American	Pacific Islander	Unknown
2017 Spring	622	946	1,376	143	102	776
2018 Spring	570	944	1,401	154	86	809
2019 Spring	558	894	1,281	136	86	976
2020 Spring	526	860	1,197	132	82	1,175
2021 Spring	341	598	913	87	51	732

% Difference from 2020 to 2021	African American	Asian	Multi-Ethnic	Native American	Pacific Islander	Unknown
% Difference from 2020 to 2021	-35.2%	-30.5%	-23.7%	-34.1%	-37.8%	-37.7%

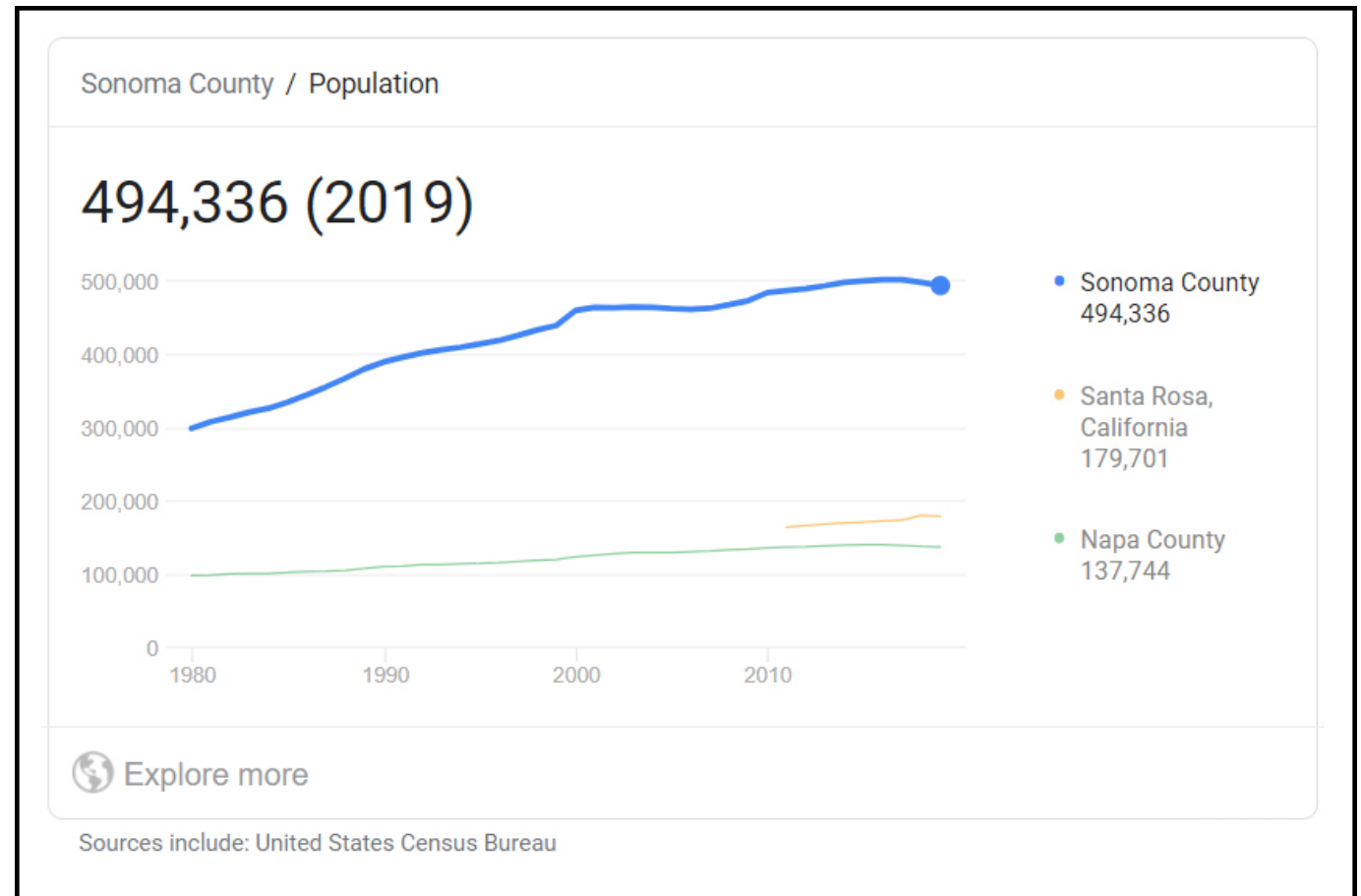
% Difference from 2017 to 2021	African American	Asian	Multi-Ethnic	Native American	Pacific Islander	Unknown
% Difference from 2017 to 2021	-45.2%	-36.8%	-33.6%	-39.2%	-50.0%	-5.7%

Why is this happening?

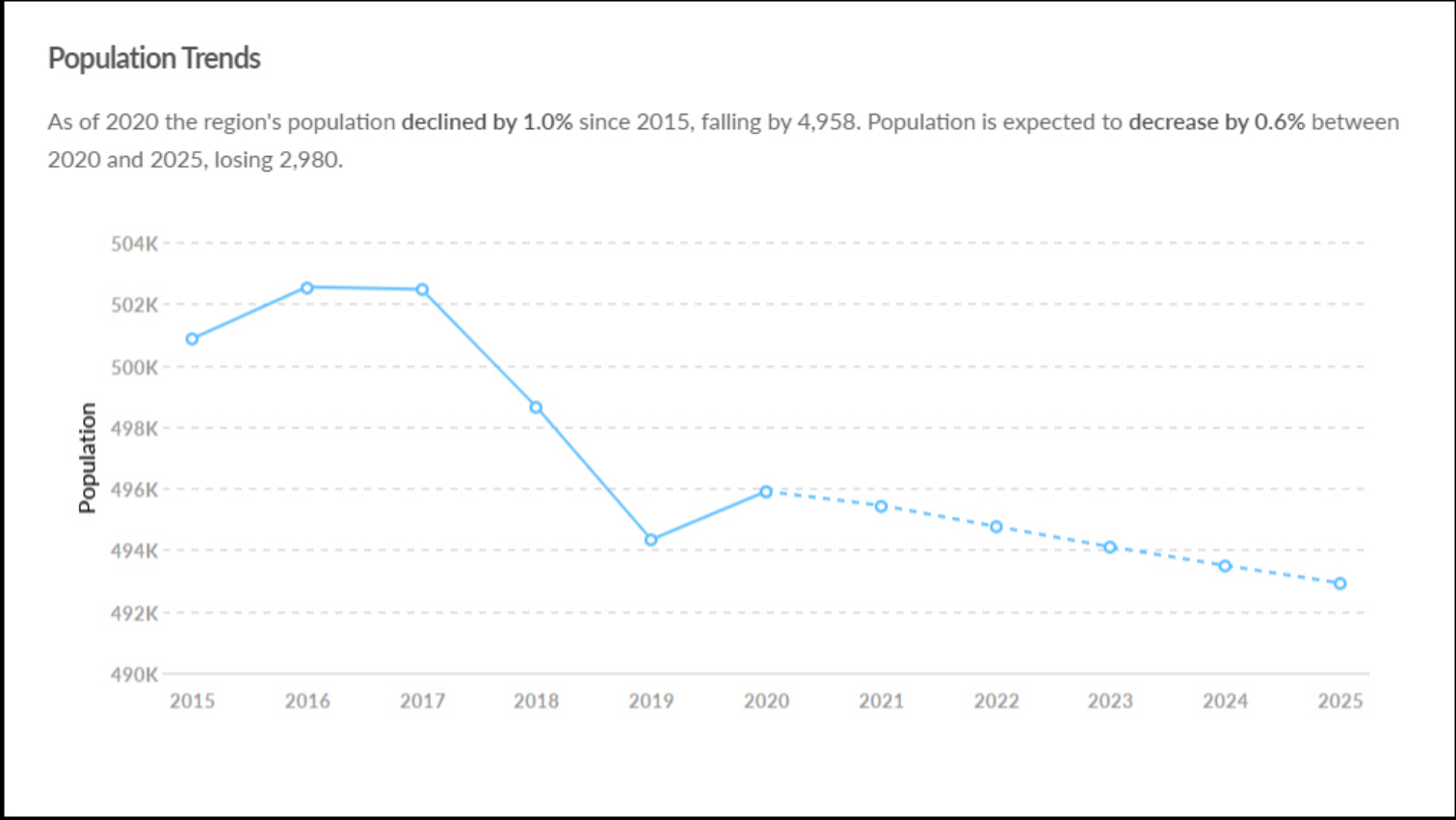
Hypothesis #1

Sonoma
County
population is
decreasing.

According to US Census data, Sonoma County population has steadily increased for decades.



Sonoma County Population Trends



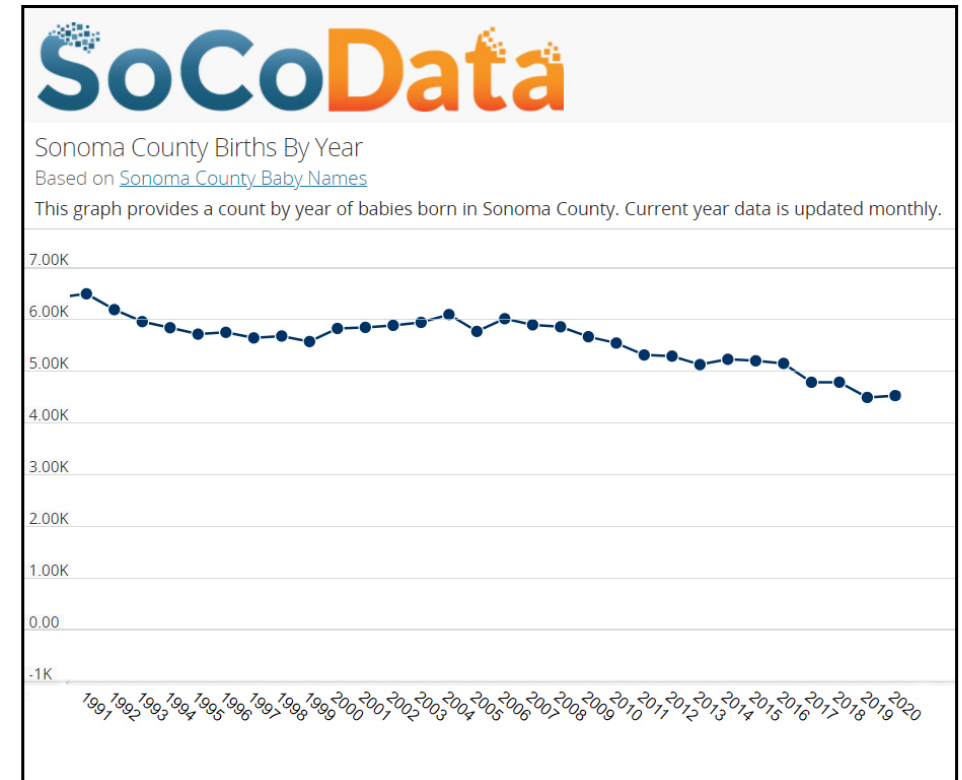
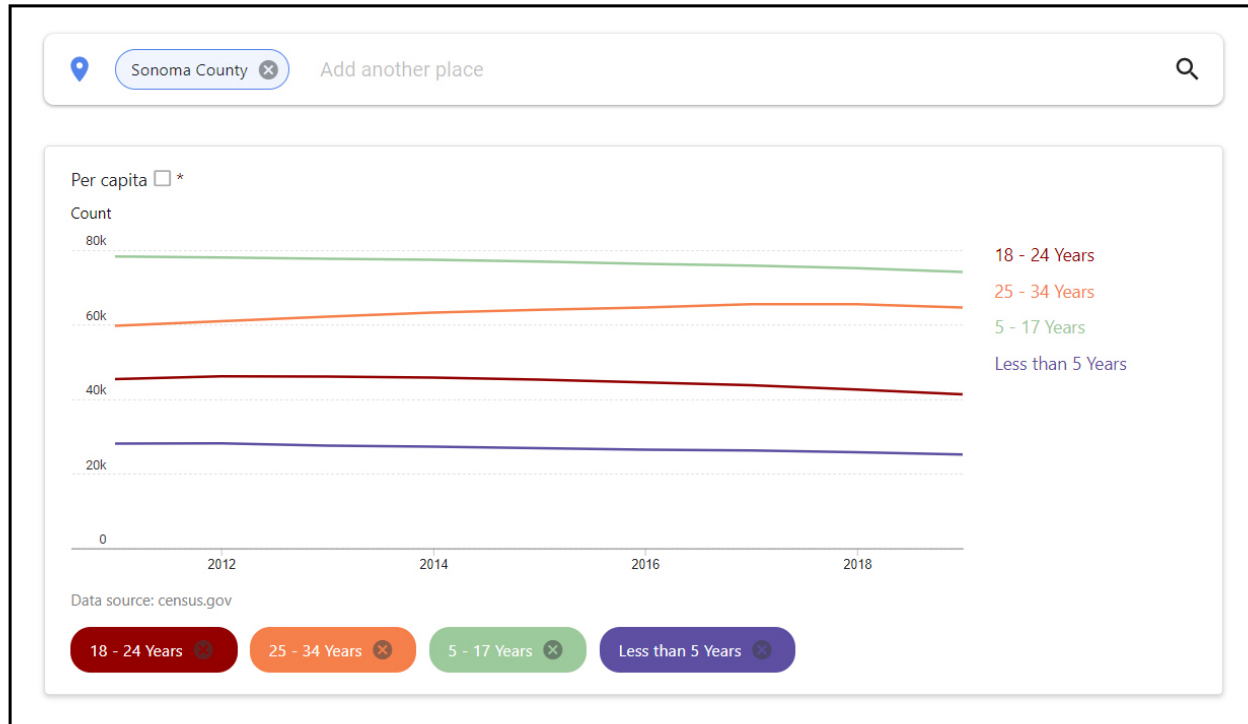
Hypothesis #2

Sonoma
County's
population is
aging.

According to US Census data, you can see the largest population growth is in the 65-74 age range in Sonoma County...



... and younger age-ranges are flat or on the decline, and birth rates in Sonoma County have been decreasing...



High school numbers in the county have not decreased as swiftly as SRJC's recent numbers.

High School Grade	2016-17	2017-18	2018-19	2019-20
Grade 12	5,320	5,357	5,496	5,506
Grade 11	5,342	5,356	5,390	5,325
Grade 10	5,443	5,459	5,456	5,511
Grade 9	5,465	5,460	5,487	5,324
All	21,570	21,632	21,829	21,666

Difference from 2018/19 to 2019/20	
10	0.2%
-65	-1.2%
55	1.0%
-163	-3.0%
-163	-0.7%

Difference from 2016-17 to 2019/20	
186	3.5%
-17	-0.3%
68	1.2%
-141	-2.6%
96	0.4%

So while an aging population may be part of the challenge, it is likely to be more of an issue down the road rather than playing a big part of what we're seeing here.

Hypothesis #3

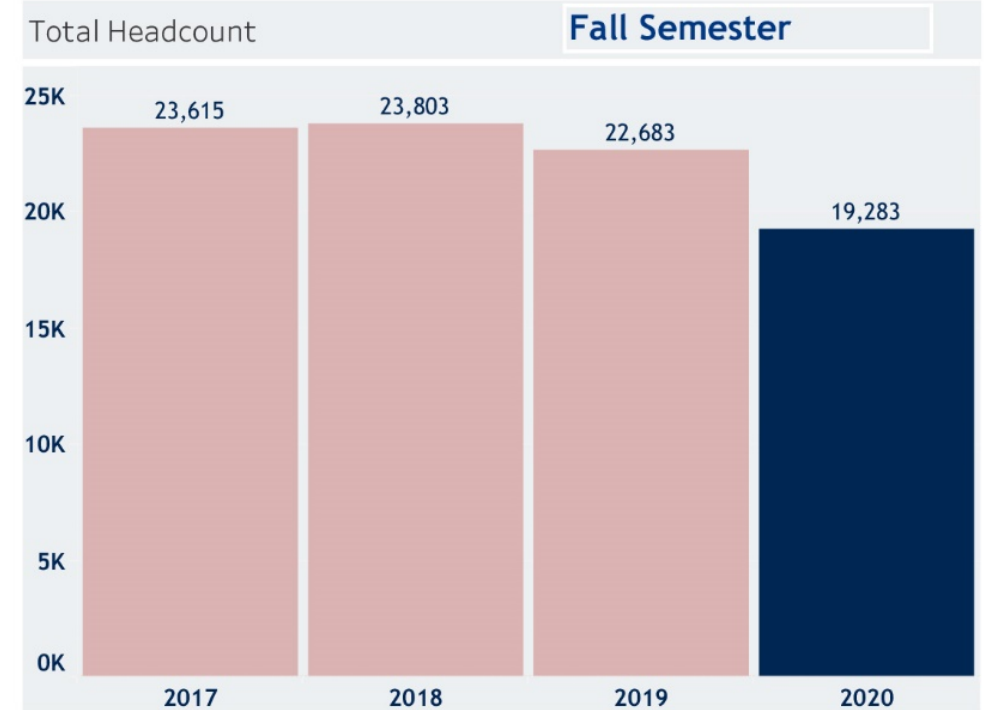
Students don't like online classes

If this were the case, then wouldn't we see a bigger drop from Fall 2019 to Fall 2020?

-14.99% drop from Fall 2019 to Fall 2020 (26.5% in Spring)

-18.34% drop from Fall 2017 to Fall 2020 (35.7% in Spring)

Student Headcounts Comparison



Strange times we live in

Generally, when the economy declines and jobs are lost, people go back to school.

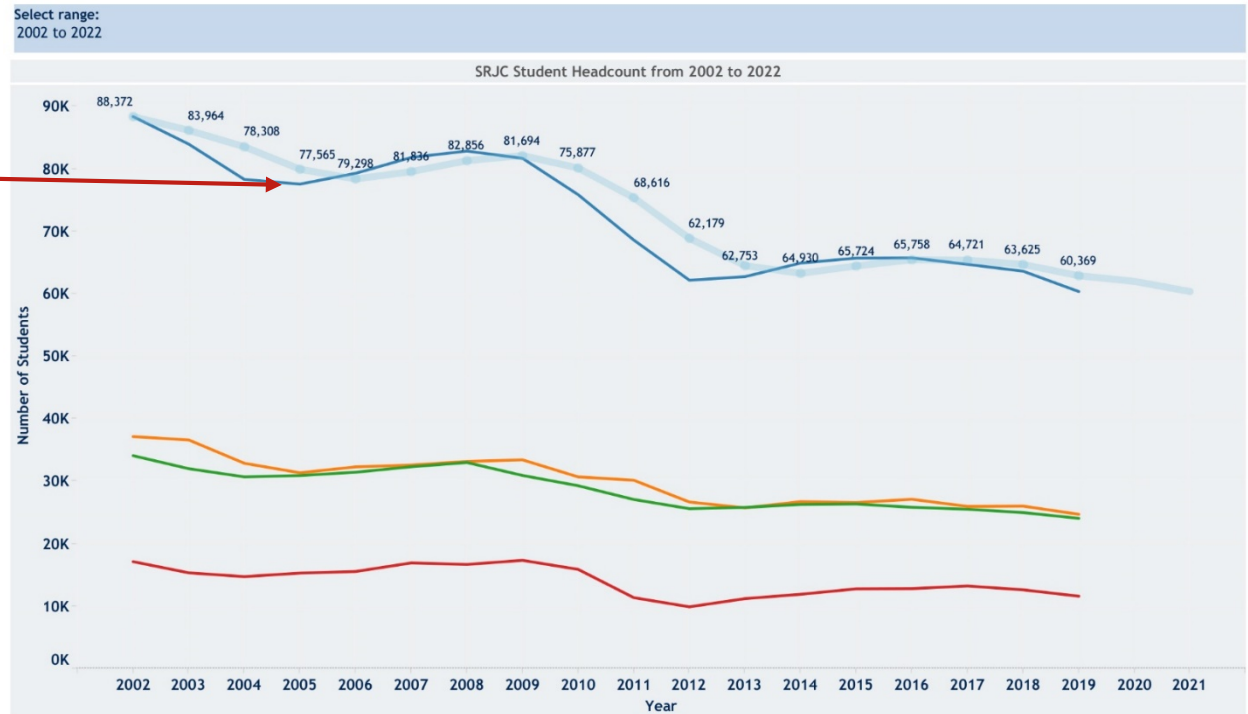
You can see that here

2005/2006 saw the housing bubble burst

2007/2008 was the following financial market crash

SRJC headcount increased by 3,765 students from 2005 to 2008, a 4.9% increase.

Historical Student Headcount at SRJC



Colors:
■ Fall, Spring and Summer Together
■ Moving Three Year Average
■ Spring
■ Summer
■ Fall

Last Updated: 3/31/2020

I have no answers

But I did just show you four different data sources at your fingertips that you can use to dive into the data and start creating your own hypotheses and potential solutions.

- ❖ SRJC Fact Book Data Visualizations
- ❖ US Census Data
- ❖ Sonoma County Data
- ❖ California Ed-Data

Links to these will be available at the end of the presentation or can be found in the Data Assets section of the OIR Research website

But I do have Survey
Results

2020 Emergency Response Survey

Proposed by Student Services 10/2020 to better understand the experiences of SRJC students with the different crises of 2020, how they experienced SRJC's response to those crises, and what challenges they are now experiencing.

- Pandemic
 - Fires
 - Racial Justice Movement
 - National Elections
 - Moving Classes & Services Online
-
- Conducted by OIR in December 2020. Distributed by email, with weekly reminders from 12/7/2020 to 1/3/2021
-
- Survey Groups: Sent to 32,165 students from three groups
 - Fall 2020 Currently Enrolled Students
 - Fall 2020 Fully Dropped Students
 - Spring '20 Students who did not persist to Fall '20

Response Rates

5,138 Total Responses (16% Response Rate from full 32,165 Cohort)

❖ By Survey Group:

Survey Group	Survey Response Rate
Fall 2020 Currently Enrolled	82.2%
Fall 2020 Fully Dropped	6.9%
Spring '20 to Fall '20 who did not persist	10.9%

Results merged with SIS demographic data in January 2021 for analysis

❖ Gender:

Gender	Survey Response Rate	Actual SRJC Headcount
Male	27.7%	40.0%
Female	66.3%	57.7%
Unknown	2.8%	2.3%

Demographics

Ethnicity:

Ethnicity	Survey Response Rate	Actual SRJC Headcount
White	42.8%	44.8%
Latino	36.2%	37.2%
African American	2.5%	2.4%
Asian	5.3%	4.1%
Native American	0.7%	0.7%
Pacific Islander	0.2%	0.4%
Multi-Ethnicity	4.6%	5.8%
Other	4.7%	4.6%

Demographics

Age:

Age	Survey Response Rate	Actual SRJC Headcount
19 Or Less	21.5%	28.4%
20 to 24	24.9%	21.4%
25 to 29	10.9%	14.6%
30 to 39	15.4%	14.3%
40 or more	27.3%	21.3%

Demographics

Part Time	Full Time
60.1%	22.7%

Credit	Non-Credit
82.8%	17.2%

First Gen **1,314** **23.3%**

Veteran **114** **2.0%**

Foster Youth **8** **0.1%**

DSPS **764** **13.5%**

Homeless **39** **0.7%**

LGBTQ **251** **4.4%**

Low Income **1,397** **24.7%**

Limitations of the Survey

- ❖ Self-reported data
- ❖ Gender & Age Demographics
- ❖ Online survey – doesn't reach many audiences, especially those with computer or internet challenges

While the data has limitations, it also provides a glimpse into the experiences of SRJC students in this day and age.

How would you rate SRJC's overall response to the crises of 2020?

71%

of participants rated SRJC's overall response to the crises of 2020 as

Good or Excellent

Ethnicity	Rated SRJC Response 'Good' or 'Great'
White	74%
Latino	68%
African American	70%
Asian	76%
Native American	62%
Pacific Islander	70%
Multi-Ethnicity	67%
Other	71%

Impact of Events of 2020

Q3 Tell us about the level of impact the following events of 2020 on your life so far.

2020 Event	% Impacted	% Highly Impacted
California Wildfires	94%	28%
COVID-19 Pandemic	98%	66%
Racial Justice Movement	81%	17%
Political Elections	88%	33%
Moving most SRJC classes online	90%	51%
Moving most SRJC services online	84%	40%

Students
'Highly
Affected' by
the Racial
Justice
Movement

55% African American

30% Multi-Ethnicity

22% Pacific Islander

20% Latinx

19% Native American

Moving Classes/Services Online by Survey Group

Q3 Tell us about the level of impact the following events of 2020 on your life so far.

All Participants

Moving Classes Online

51% Highly Impacted

Moving Services Online

40% Highly Impacted

Selected Participants

**Fall 2020 Drop/Non-Persist Students of
Non-White Ethnicities**

Moving Classes Online

64% Highly Impacted

Moving Services Online

56% Highly Impacted

Effects of 2020 Wildfires

Q4 What effects did you experience during the 2020 wildfires?

Wildfire Impacts	#	%
Stress caused by red flag warnings	3,151	68%
Mental health challenges	2,457	53%
PSPS power outages	2,134	46%
Evacuations	1,890	41%
Financial loss	1,612	35%
Physical health challenges	1,398	30%
Housing challenges	824	18%
Loss of school supplies/computer	373	8%
Home loss	84	2%

Effects of 2020 Pandemic

Q5 What effects have you experienced from the COVID-19 Pandemic?

Pandemic Impacts	#	%
I miss seeing my family and/or friends	3,294	69%
I am struggling with feelings of isolation	2,269	47%
I am struggling with my mental health due to the pandemic	2,145	45%
Family or friends have been ill with the virus	2,018	42%
I am now struggling financially	1,488	31%
I lost hours at my job due to the pandemic	1,446	30%
I lost my job due to the pandemic	1,096	23%
I lost family or friends due to the virus	589	12%
I am now homeschooling my children/lost childcare	573	12%
I gained more hours at my job due to the pandemic	464	10%

SRJC's Response to 2020 Events

Q6 How would you rate SRJC's responses to the following events of 2020?

2020 Event	Very Good	Good	Poor	Very Poor
California Wildfires	41%	51%	6%	2%
COVID-19 Pandemic	36%	50%	10%	4%
Racial Justice Movement	27%	58%	11%	4%
Political Elections	23%	62%	12%	3%
Moving most SRJC classes online	33%	48%	13%	6%
Moving most SRJC services online	30%	52%	13%	6%
Average %:	32%	54%	11%	4%

Racial Justice Movement by Ethnicity: Significantly higher than average number of African American and Multi-Ethnic students rate SRJC's response as poor or very poor:

African American –	18% Poor	6% Very Poor
Multi-Ethnicity –	19% Poor	4% Very Poor

79%

Feel that, with respect to the decision to close campus and move to online instruction and remote services,

SRJC's decisions were made in a timely and prudent manner

76%

agree that SRJC has communicated information effectively

regarding changes due to the pandemic and other crises

Remote Learning

Q9 Overall, how has the SRJC remote experience been for you?

55%

Good/Great

24%

Not Good/
Terrible

Ethnicity	% Not good or Terrible
Latino	22.8%
African American	30.0%
Asian	15.8%
Native American	37.5%
Pacific Islander	12.5%
Multi-Ethnicity	26.3%
Other	29.2%

Barriers to Education

Q11 Have any of these challenges outside SRJC had an impact on your ability to stay in college in the past year?

Challenges	2020 Survey		2019 Student Survey	
	#	%	%	Place
Distractions or conflicts at home (hard to study)	1,953	45%	21.8	7th
Difficulty engaging in online education	1,742	40%	n/a	n/a
Mental health	1,695	39%	21.9	6th
Financial problems	1,553	36%	28.1	3rd
Family pressure or responsibilities	1,526	35%	19.3	8th
Lack of motivation & interest in attending college	1,451	33%	16.5	11th
Lack of self-discipline to study or go to classes	1,360	31%	16.9	10th
Personal problems	1,356	31%	22.6	4th
Overall time pressure	1,345	31%	22.4	5th
Job pressures (time schedule conflicts)	1,273	29%	29.0	2nd

Barriers to Education

Over half of non-white students who did not persist from Spring to Fall 2020 or who fully dropped in Fall 2020 reported Difficulty engaging in online education, Financial problems, and Distractions or conflicts at home.

Non-White, Fully Dropped or Non-Persist	
Challenges	%
Difficulty engaging in online education	53%
Financial problems	52%
Distractions or conflicts at home (hard to study)	51%
Family pressure or responsibilities	43%
Lack of motivation & interest in attending college	40%
Job pressures (time schedule conflicts)	39%
Mental health	36%
Lack of self-discipline to study or go to classes	32%
Personal problems	30%
Overall time pressure	29%

All Participants	
%	Place
40%	2nd
36%	4th
45%	1st
35%	5th
33%	6th
29%	10th
39%	3rd
31%	7th
31%	8th
31%	9th

Computer/Internet Issues

Q13 Please tell us more about your computer/internet access concerns.

Computer/Internet Issue	# Responses	% Responses
My internet is too slow	515	67%
My computer can't handle the software required for my classes	181	24%
I don't have my own computer	125	16%
I don't have the technology to participate in video conferencing (e.g. Web Cam, Microphone)	124	16%
I don't have internet access	62	8%

Latinx students were 2x more likely than white students to state they did not have their own computer.

Mental Health Factors

Q14 Have any of the following factors impacted your mental health in the past 6 months?

Mental Health Factors	# Responses	% Responses
COVID-19 stressors	3,165	73%
Loss of social connection with family/friends	2,567	59%
National politics	2,101	49%
Wildfires and associated challenges/effects	2,009	47%
Other financial challenges	1,577	37%
Racial justice issues	1,440	33%
Loss of employment	1,031	24%
Being an essential worker	965	22%
Basic needs (food, housing, transportation)	659	12%
No mental health impact	311	6%

Mental Health Experience

Q15 Which of the following mental health issues have you experienced in the past 6 months?

Mental Health Issues Experienced	# Responses	% Responses
Overwhelming emotions	2,460	61%
Overwhelming anxiety	2,549	64%
Felt so depressed it was difficult to function	1,571	39%
Seriously considered suicide	300	7%
Intentionally cut self	106	3%
Attempted suicide	36	1%

Access to Student Services

Q16 Which of the following SRJC student support services have been challenging to access since the transition to online learning?

Student Service	# Responses	% Responses
Academic Counseling	1,043	24%
Financial Aid	873	20%
Bookstore	663	16%
Library	654	15%
Tutoring	589	14%
Admission and Records assistance	511	12%
Mental health services	323	8%
Basic needs resources	323	8%
Peer support/Success Coaches	319	7%
Tech Support	280	7%
Student Health	265	6%

For ethnicities other than white, 17% stated that tutoring services were challenging to access since the transition to online learning.

Financial Aid

Q17 How would you rate your need for financial assistance?

Level of Financial Assistance Need	#	%
High need	1,201	29.2%
Average need	1,399	34.1%
Low need	620	15.1%
Not applicable	888	21.6%
Total	4,108	100%

High need for financial assistance, by ethnicity:

Ethnicity	Stating High Need
Latino	36.0%
African American	49.5%
Asian	25.1%
Native American	38.7%
Pacific Islander	37.5%
Multi-Ethnicity	27.4%
Other	19.8%

Financial Aid

Q18 Are you aware of the SRJC Student Emergency Grant made possible by the CARES Act?

Awareness of Student Emergency Grant	%
Yes - I applied and got an emergency grant	12%
Yes - I applied and did not get an emergency grant	9%
Yes - But I did not apply	29%
No - I have never heard of this grant and am interested in applying	27%
No - I have never heard of this grant and am not interested in applying	19%
Other	3%
Total	100%

32.1%

Latinx students
have never heard
of this grant and
are interested in
applying

Class Format

Q20 What is your preferred format for online classes?

Class Format	%
Synchronous	23%
Asynchronous	28%
Combination	47%
Other	3%

Q22 When SRJC can safely open campus back up to in-person meetings, which class format will you most prefer?

Class Format	%
In-person classes on campus	40%
Online class meetings	19%
Combination of in-person and online	40%
Other	1%

Q23.1 Welcome/Connect/Engage

I feel a sense of belonging and part of the SRJC community

Year Surveyed	Percent				
	Strongly Agree	Agree	Disagree	Strongly Disagree	Total
2019	22.1	57.2	12.3	2.5	100
2020	18	51	22	10	100

% Difference from 2019 to 2020	-19.9%	-11.4%	75.6%	294.2%
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* Previous years' data from SRJC's triannual student survey

Q23.2 Welcome/Connect/Engage

I have been introduced to campus activities, support services, and academic programs

	Percent				
Year Surveyed	Strongly Agree	Agree	Disagree	Strongly Disagree	Total
2019	19.5	48.4	20.4	3.7	100
2020	15	49	25	11	100

% Difference from 2019 to 2020	-24.6%	2.3%	21.5%	195.8%
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* Previous years' data from SRJC's triannual student survey

Q23.3 Welcome/Connect/Engage

SRJC cares about me as an individual

Year Surveyed	Percent				Total
	Strongly Agree	Agree	Disagree	Strongly Disagree	
2007	15.7	55.9	23.4	5	100
2010	17.7	55.1	22.6	4.6	100
2013	18.4	49.6	18.3	3.3	99.9
2016	22.7	51.7	13.6	3.3	100
2019	18.5	51.1	16.6	4.2	100
2020	19	57	17	7	100

% Difference from 2019 to 2020	5.0%	10.8%	4.6%	56.3%
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* Previous years' data from SRJC's triannual student survey

Q23.5 Welcome/Connect/Engage

My skills, talents, abilities, and experiences are recognized at the college

Year Surveyed	Percent				Total
	Strongly Agree	Agree	Disagree	Strongly Disagree	
2019	20.2	47.1	19.7	3.6	100
2020	18	53	22	7	100

% Difference from 2019 to 2020	-12.0%	11.8%	13.8%	98.2%
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* Previous years' data from SRJC's triannual student survey

Q23.6 Welcome/Connect/Engage

I have opportunities to contribute at SRJC and my contributions are appreciated

Year Surveyed	Percent				Total
	Strongly Agree	Agree	Disagree	Strongly Disagree	
2019	17.9	41.3	19.1	2.5	100
2020	16	51	25	9	100

% Difference from 2019 to 2020	-13.5%	23.1%	31.7%	238.0%
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* Previous years' data from SRJC's triannual student survey

Q23.7 Welcome/Connect/Engage

Through course information and activities, my understanding of people with backgrounds different from mine has increased

Year Surveyed	Percent				Total
	Strongly Agree	Agree	Disagree	Strongly Disagree	
2007	21.8	56.9	18.4	2.9	100
2010	26	55.4	15.6	3	100
2013	26.2	46.3	12.4	2	100
2016	33.3	43.9	9.9	1.5	100
2019	28.9	47.7	9.4	1.4	100
2020	28	56	11	4	100

% Difference from 2019 to 2020	-3.7%	18.2%	20.7%	216.4%
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* Previous years' data from SRJC's triannual student survey

Q23.8 Welcome/Connect/Engage

Due to counselors, staff, and instructors, I have a goal and know how to achieve it

Year Surveyed	Percent				Total
	Strongly Agree	Agree	Disagree	Strongly Disagree	
2019	27.5	42.4	17.0	4.2	100
2020	21	52	19	8	100

% Difference from 2019 to 2020	-22.0%	22.8%	11.9%	78.3%
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* Previous years' data from SRJC's triannual student survey

Q23.9 Welcome/Connect/Engage

Thanks to the efforts of SRJC I am staying on track for my education

Year Surveyed	Percent				Total
	Strongly Agree	Agree	Disagree	Strongly Disagree	
2019	26.0	47.9	15.2	2.9	100
2020	22	50	19	9	100

% Difference from 2019 to 2020	-15.7%	3.9%	27.0%	206.6%
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* Previous years' data from SRJC's triannual student survey

Q23.10 Welcome/Connect/Engage

I feel supported at SRJC

	Percent				
Year Surveyed	Strongly Agree	Agree	Disagree	Strongly Disagree	Total
2020	22	57	15	6	100

* Previous years' data from SRJC's triannual student survey

Q23.11 Welcome/Connect/Engage

I feel I have been as successful as I could be at SRJC

Year Surveyed	Percent				Total
	Strongly Agree	Agree	Disagree	Strongly Disagree	
2010	27	48.1	21.1	3.7	99.9
2013	27.4	46.3	19	3.7	100
2016	27.7	44.8	20.4	3.9	100
2019	23.2	46.1	22.0	4.9	100
2020	21	47	22	9	100

% Difference from 2019 to 2020	-8.9%	2.7%	1.2%	89.3%
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* Previous years' data from SRJC's triannual student survey

Q23.12 Welcome/Connect/Engage

I actively contribute to the college community

Year Surveyed	Percent				Total
	Strongly Agree	Agree	Disagree	Strongly Disagree	
2019	10.3	27.2	36.5	9.0	100
2020	11	37	41	11	100

% Difference from 2019 to 2020	7.2%	36.3%	11.5%	24.8%
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* Previous years' data from SRJC's triannual student survey

Q23.12 Welcome/Connect/Engage

I am reflected and represented in the campus culture

Year Surveyed	Percent				Total
	Strongly Agree	Agree	Disagree	Strongly Disagree	
2019	14.1	41.7	21.6	5.0	100
2020	14	53	24	8	100

% Difference from 2019 to 2020	1.9%	28.0%	11.6%	63.4%
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* Previous years' data from SRJC's triannual student survey

Q23.13 Welcome/Connect/Engage

I actively participate in my learning and classes

Year Surveyed	Percent				Total
	Strongly Agree	Agree	Disagree	Strongly Disagree	
2019	34.7	54.0	7.3	1.1	100
2020	34	56	8	3	100

% Difference from 2019 to 2020	-3.2%	3.0%	11.0%	140.2%
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* Previous years' data from SRJC's triannual student survey

Q23.14 Welcome/Connect/Engage

I have a supportive relationship with at least one SRJC staff or faculty member

Year Surveyed	Percent				Total
	Strongly Agree	Agree	Disagree	Strongly Disagree	
2019	28.1	39.7	17.4	4.7	100
2020	27	44	21	9	100

% Difference from 2019 to 2020	-5.3%	11.0%	18.4%	85.6%
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* Previous years' data from SRJC's triannual student survey

Q23.15 Welcome/Connect/Engage

SRJC helps me meet my basic needs

Year Surveyed	Percent				Total
	Strongly Agree	Agree	Disagree	Strongly Disagree	
2019	23.4	50.4	10.0	2.7	100
2020	20	58	16	6	100

% Difference from 2019 to 2020	-13.5%	15.7%	58.9%	102.6%
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* Previous years' data from SRJC's triannual student survey

Now it's Your Turn



**Data
Assets**

Emergency Response Survey [Visualization](#)

Created by Blair Lamb

SRJC Fact Book

<https://fact-book.santarosa.edu/public>

Created by Greg Drukala

Research Website, Data Assets Page

<https://research.santarosa.edu/citizen-researcher-campaign>

Questions/Thoughts/Ideas
