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DTS 350

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Case Study 1

1. Senior Citizens Face Mental and Financial Stress, Especially Women

- a. This past year, COVID has hit senior citizens harder than any other grouping.

This is due to the social isolation, high mortality rates from COVID and the financial devastation around the world. When posed with the question “Do you feel Mentally healthy”, 10.7% of senior citizens said that they do not feel mentally healthy. Lucky for us, that percentage went down when asked again in April. However, when asked for their gender, we are able to see that women are twice as likely to report not feeling mentally healthy. I think it is important that this study broke it down further and wanted to see where the divide in mental health is and since it adds “extra value” to this study I would consider it uniquely good. One issue I found with this study, is that they asked how the senior citizens were feeling within the first four months in 2021. They showed a graphic showing that men are more likely to report feeling content instead of women. I find this graphic to be useless and does not add anything to the research since we already know women will not be feeling content if they are reported to feel more stressed. One uniquely good graphic I found is a free text responses to what the biggest stressor is. Each one of the responses adds a benefiting factor to the research.

- b. Graphics

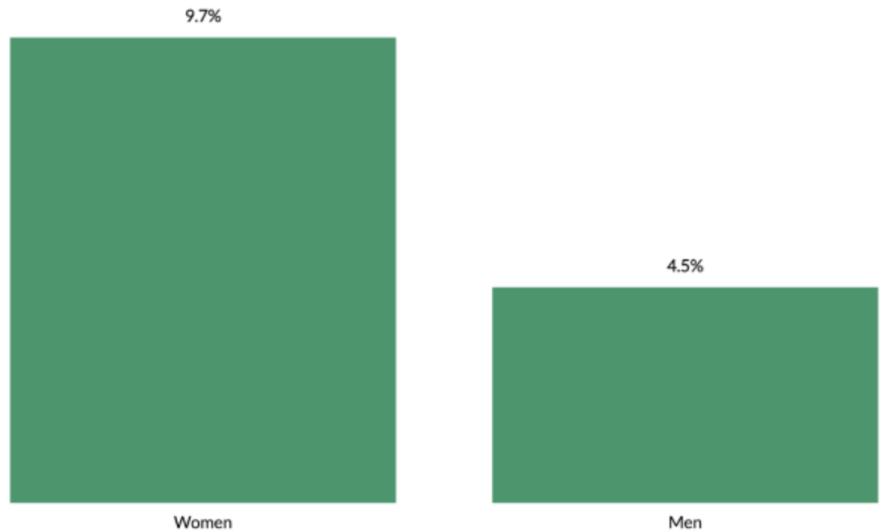
Seniors Continue to Report Feeling Mentally Healthy

Question 10: Do you feel mentally healthy?

Answer	Jan	Feb	Mar	April
No	10.7%	9.3%	10.1%	8.0%
No opinion	8.4%	5.8%	7.5%	7.2%
Yes	80.9%	85.0%	82.4%	84.8%

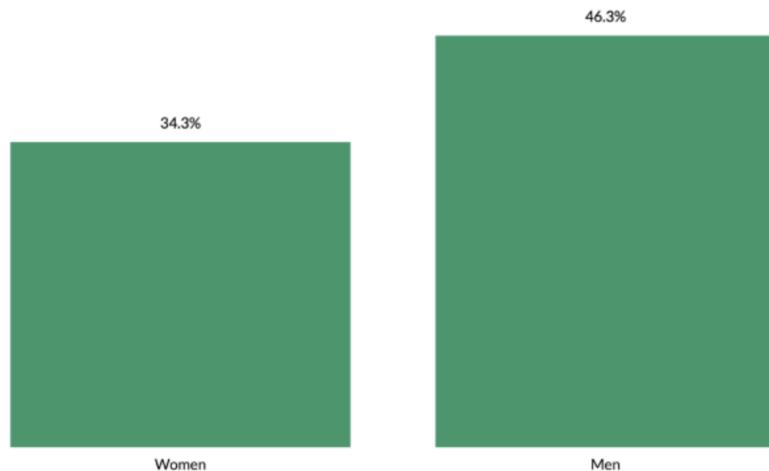
Women Are Twice as Likely to Report Not Feeling Mentally Healthy

Question 10: Do you feel mentally healthy?



Men are More Likely to Report Feeling Content

Question 11: Which emotion have you felt the most in the past week?



The Biggest Stressors Facing Senior Citizens

Selection of free text responses to question on biggest stressors

Downer mentality that I come in contact with. Those not in control of their lives and complainers.
All the horrible things going on in our country - shootings, racial issues, etc.
Biden
Can't ride my dirt bike in the desert.
Caring for my husband who has dementia
Chauvin trial
Covid-19 Restrictions - there is a virus, like there is the flu. I consider the pandemic about control and a scam.
Daughter's wedding
Desire to get out and do more - make new friends, volunteer, etc. Still avoiding larger groups and crowds
Finding a place to live
Food service where i live
Getting the vaccine
Government decisions on economy, more support for minorites (should be less)
Husbands condition (Alzheimers) worsening.
Loneliness
Mental health
My wife has cancer
Pending divorce
Physical health
The economy
Threats by ex husband
We are moving
We're very concerned of the wrong direction Biden and his socialist gang are taking are country.

2. [The Places with the Best \(and Worst\) Nursing Homes in America](#)

a. Within the last year, there has been a spotlight on Nursing Homes in America due to the Coronavirus. Tens of thousands of patients passed away from the disease which spread like wildfire throughout the homes. In a graphic showing the States with the best and worst nursing homes, we are given lot of data at once so it is hard to decipher. I would say that is the largest issue in this research. Later on in the study we are given two graphics, one of the best cities with nursing homes and the worst cities for nursing homes. This data is a lot easier to understand and create something useful from it. Both of those graphics are uniquely good.

The States with the Best and Worst Nursing Homes

Average online review score of nursing homes in state (1-5 stars)

Rank	State Name	Average Review		Rank	State Name	Average Review	
1	Vermont	4.42		27	West Virginia	3.58	
2	Alaska	4.28		28	Michigan	3.57	
3	Hawaii	4.24		29	Pennsylvania	3.51	
4	North Dakota	4.16		30	Wisconsin	3.48	
5	New Hampshire	4.04		31	New York	3.48	
6	Utah	3.99		32	Louisiana	3.45	
7	Kansas	3.95		33	Washington	3.44	
8	Iowa	3.94		34	California	3.44	
9	Kentucky	3.90		35	Illinois	3.44	
10	Maine	3.85		36	South Carolina	3.44	
11	Idaho	3.85		37	Arkansas	3.44	
12	Nebraska	3.81		38	Florida	3.43	
13	Wyoming	3.74		39	North Carolina	3.43	
14	New Jersey	3.72		40	Missouri	3.43	
15	Indiana	3.72		41	Mississippi	3.39	
16	Rhode Island	3.68		42	Massachusetts	3.39	
17	Arizona	3.64		43	Maryland	3.38	
18	Virginia	3.64		44	New Mexico	3.32	
19	Tennessee	3.64		45	Alabama	3.32	
20	Colorado	3.63		46	Oklahoma	3.28	
21	Minnesota	3.63		47	Montana	3.26	
22	Texas	3.62		48	District of Columbia	3.23	
23	Delaware	3.62		49	Oregon	3.22	
24	Ohio	3.61		50	Georgia	3.20	
25	Connecticut	3.61		51	Nevada	3.16	
26	South Dakota	3.61					

Top 50 Cities with the Best Nursing Homes

Average online review score of nursing homes in city (1-5 stars)

Rank	City	Average Rating	
1	Arlington Heights, IL	4.18	
2	Salt Lake City, UT	4.05	
3	Ocala, FL	4.05	
4	Oakland, CA	4.04	
5	Homestead, FL	4.00	
6	Gardena, CA	3.97	
7	El Paso, TX	3.94	
8	Virginia Beach, VA	3.93	
9	Mesa, AZ	3.92	
10	Overland Park, KS	3.91	
11	Peoria, AZ	3.90	
12	Scottsdale, AZ	3.79	
13	Boca Raton, FL	3.78	
14	Greenville, SC	3.78	
15	San Diego, CA	3.77	
16	Englewood, NJ	3.75	
17	Wayne, NJ	3.74	
18	Daytona Beach, FL	3.74	
19	Chula Vista, CA	3.73	
20	Richmond, VA	3.71	
21	Fayetteville, NC	3.70	
22	Jamaica, NY	3.70	
23	Woodbury, NJ	3.70	
24	Long Beach, CA	3.69	
25	Aurora, CO	3.68	
26	Phoenix, AZ	3.67	
27	Louisville, KY	3.66	
28	Omaha, NE	3.66	
29	St Charles, MO	3.65	
30	Colorado Springs, CO	3.65	
31	Tucson, AZ	3.64	
32	Wilmington, DE	3.62	
33	San Antonio, TX	3.61	
34	Pueblo, CO	3.61	
35	Miami, FL	3.58	
36	St. Petersburg, FL	3.58	
37	New York, NY	3.58	
38	Rockville, MD	3.58	
39	Queens, NY	3.57	
40	Brooklyn, NY	3.57	
41	Minneapolis, MN	3.56	
42	The Bronx, NY	3.55	
43	Chandler, AZ	3.55	
44	Clearwater, FL	3.54	
45	El Cajon, CA	3.54	
46	Katy, TX	3.54	
47	Cincinnati, OH	3.51	
48	Fort Wayne, IN	3.50	
49	Melbourne, FL	3.49	
50	Springfield, MO	3.48	

Top 50 Cities with the Worst Nursing Homes

Average online review score of nursing homes in city (1-5 stars)

Rank	City	Average Rating		Rank	City	Average Rating	
1	Warren, MI	2.72		26	Riverside, CA	3.22	
2	Detroit, MI	2.89		27	Washington, DC	3.23	
3	Knoxville, TN	2.91		28	Memphis, TN	3.23	
4	Atlanta, GA	2.94		29	Las Vegas, NV	3.24	
5	Torrance, CA	2.99		30	Glendale, AZ	3.26	
6	Raleigh, NC	3.01		31	Kansas City, MO	3.27	
7	Corpus Christi, TX	3.01		32	St Paul, MN	3.27	
8	Arlington, TX	3.02		33	Portland, OR	3.28	
9	Birmingham, AL	3.02		34	Sterling Heights, MI	3.30	
10	St. Louis, MO	3.03		35	Paramus, NJ	3.30	
11	Hattiesburg, MS	3.05		36	Columbus, OH	3.31	
12	Chicago, IL	3.06		37	Los Angeles, CA	3.32	
13	Livonia, MI	3.06		38	Austin, TX	3.33	
14	Pittsburgh, PA	3.08		39	Philadelphia, PA	3.34	
15	Fort Myers, FL	3.11		40	Sacramento, CA	3.35	
16	Anaheim, CA	3.12		41	Culver City, CA	3.35	
17	Jacksonville, FL	3.13		42	Independence, MO	3.36	
18	Buffalo, NY	3.14		43	Towson, MD	3.37	
19	Lakeland, FL	3.14		44	Cleveland, OH	3.37	
20	Albuquerque, NM	3.15		45	Flushing, NY	3.37	
21	Rockford, IL	3.16		46	Tampa, FL	3.38	
22	Fort Worth, TX	3.17		47	Orlando, FL	3.38	
23	Santa Ana, CA	3.20		48	Baltimore, MD	3.39	
24	Houston, TX	3.20		49	Greensboro, NC	3.40	
25	Oklahoma City, OK	3.21		50	Bakersfield, CA	3.40	

3. [The Pandemic Plastic Waste Disaster](#)

- a. When the Pandemic hit, it was concluded all around that there was a reduction in environmental impact. This was caused by the decrease in public transportation, carbon dioxide emissions plummeted in highly populated areas. However, the plastic waste such as plastic bags, gloves, masks, PPE and other waste became an issue. This research gave the user a lot of graphics that seemed to be lacking weight on its own but when put into a bigger picture, they all are impactful. In the first graph, we can see certain places where there was a plastic surge. I found this very useful and uniquely good. We can see that the United States had a huge

plastic surge in the year 2020. When pairing this with this first graph we can see that they are pretty much the same information, just made easier to visualize the percentage. Because of this, I found the second graph to not be as important as the first. In the last graph, we are given the Electricity Usage by Country. While the United States was using less electricity, it is not enough to save the damage we have been putting off for so long. However, it is a useful graphic because we are able to see some positives that came from the pandemic.

b. Graphics

Key Statistics on the Pandemic Plastics Surge

Place	Impact
United States	25-30% more trash per day per person
Singapore	1,470 tons of plastic waste from food takeaway packaging
Thailand	30% increase in plastic usage in 2020 expected
Chicago	50% increase in household trash during pandemic
Bangkok	62% in plastic usage April 2020
Philippines, Vietnam and India	80% of the recycling industry not operating during pandemic
Global	129 billion face masks and 65 billion gloves monthly

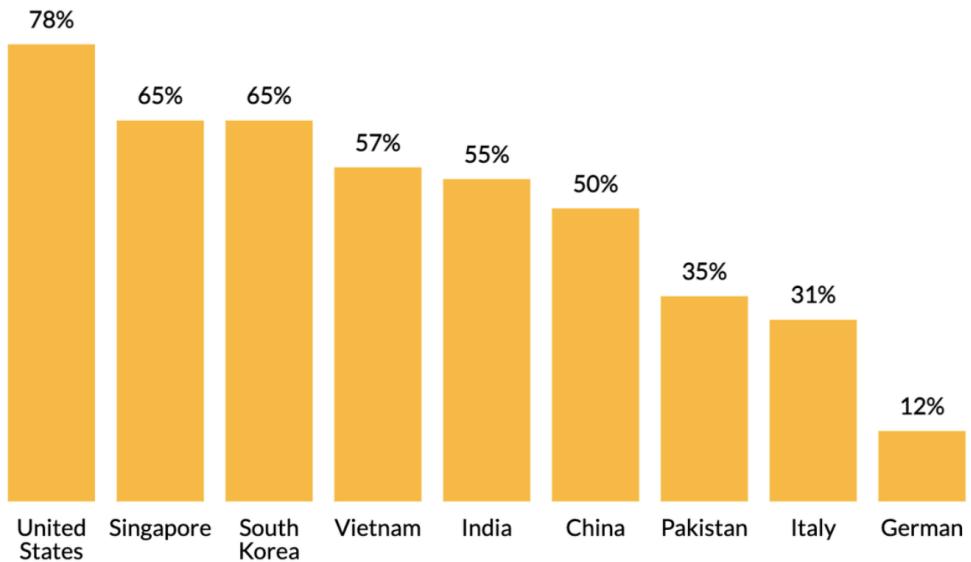
Source: Republic Services Reuters, LA Times, Business Insider, Scientific American



i.

Explosion in High Plastic Usage Activities During Pandemic

Increase in online shopping and food take away services



Source: Plastics in the time of COVID-19 pandemic: Protector or polluter?



Back to Normal? Electricity Usage This Fall by Country

Reduction in electricity consumption on Nov 29th, 2020 compared to year prior

Rank	Place	% Change in Electricity Consumption
1	Austria	-4.5%
2	United States	-3.0%
3	Latvia	-2.4%
4	Estonia	-2.1%
5	France	-2.0%
6	Belgium	-2.0%
7	India	-1.8%
8	China	-1.2%
9	Portugal	-1.2%
10	Denmark	-1.0%
11	Croatia	-0.9%
12	Italy	-0.5%
13	International	-0.5%
14	Spain	-0.3%
15	Slovakia	0.5%
16	Poland	1.1%
17	EU	1.2%
18	Bulgaria	1.9%
19	Germany	2.0%
20	Romania	2.3%
21	Sweden	3.3%
22	Czechia	3.6%
23	Hungary	4.2%
24	UK	5.1%
25	Norway	5.2%

Source: Energy Policy Institute at the University of Chicago



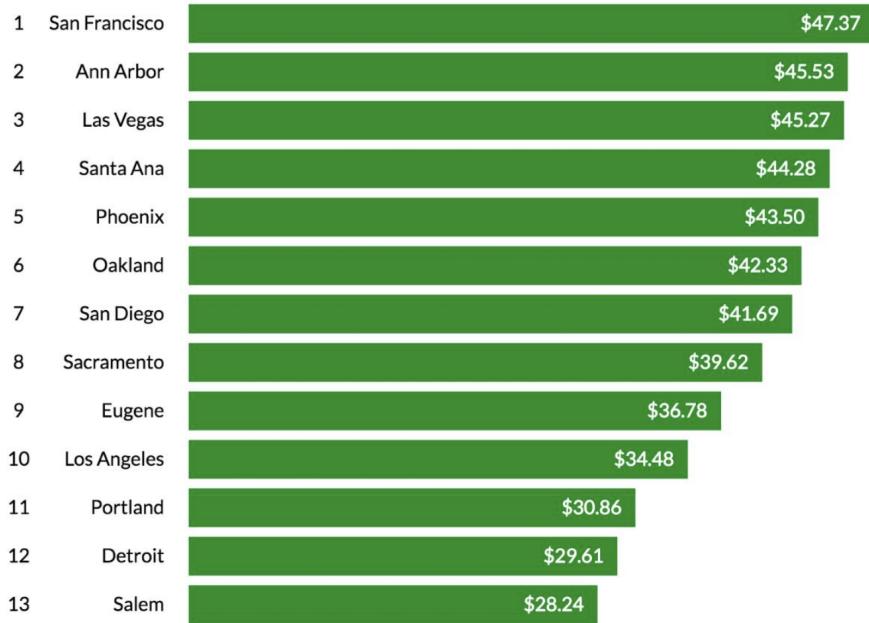
4. [The Most & Least Expensive U.S. Cities for Cannabis Amid COVID-19](#)

- a. Due to COVID-19, there has been a surge in delivery services, and crazy enough, this includes Cannabis distribution. Currently, only 18 out of the 50 states have approved cannabis distribution. In the first table, we are given the Average cost of $\frac{1}{8}$ ounce per city for delivery. I found this data to be useful since we are focusing on the direct effect that COVID-19 has had on delivery companies, cannabis includes as well. However, the graph it is paired with, is quite useless in my opinion. It focuses on the cost at dispensaries by city, the results within the table barely change and are redundant. The most useful graphic is at the bottom. It is a combination of the two previous graphs and ranks them on a scale of how much they would be paying.

- b. Graphics

Cannabis Delivery Cost by City

Average cost of 1/8 ounce per city on Wikileaf



i.

Cannabis Cost at Dispensaries by City

Average cost of 1/8 ounce per city on Wikileaf

1	Ann Arbor	\$48.63
2	Las Vegas	\$46.84
3	San Francisco	\$45.91
4	San Diego	\$45.36
5	Detroit	\$44.35
6	Santa Ana	\$41.04
7	Los Angeles	\$40.51
8	Sacramento	\$40.13
9	Oakland	\$35.46
10	Phoenix	\$34.28
11	Eugene	\$32.77
12	Portland	\$32.42
13	Salem	\$30.67

ii.

The Cost Cannabis Delivery vs Dispensary by City

Average cost of 1/8 ounce per city on Wikileaf

Rank	City	Dispensary	Delivery	Delivery Premium
1	Phoenix	\$34.28	\$43.50	\$9.22
2	Oakland	\$35.46	\$42.33	\$6.87
3	Eugene	\$32.77	\$36.78	\$4.01
4	Santa Aria	\$41.04	\$44.28	\$3.24
5	San Franciso	\$45.91	\$47.37	\$1.46
6	Sacramento	\$40.13	\$39.62	-\$0.51
7	Portland	\$32.42	\$30.86	-\$1.56
8	Las Vegas	\$46.84	\$45.27	-\$1.57
9	Salem	\$30.67	\$28.24	-\$2.43
10	Ann Arbor	\$48.63	\$45.53	-\$3.10
11	San Diego	\$45.36	\$41.69	-\$3.67
12	Los Angeles	\$40.51	\$34.48	-\$6.03
13	Detroit	\$44.35	\$29.61	-\$14.74