Research report

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The Impact of Covid-19 on 20 U.S. **Newspapers' Print and Digital** Circulation

What happens when digital transformation finally works

Executive summary	A persistent problem facing U.S. newspapers is users' lukewarm response to their digital offerings. Has Covid-19 changed this?
	To answer this question, we analyzed 20 metro newspapers' circulation data. Most reported substantial growth in digital subscriptions during the pandemic. Overall, the number of digital nonreplica subscriptions went up by 64% between 2019 and Q3 2020.
	We also analyzed pricing data. The price of print subscriptions has reached an all-time high—seven- day home delivery now costs nearly \$1,000/year. It takes nearly six new digital subscriptions to make up for the revenue loss of one print subscriber.
	Despite the growth of digital subscriptions, the quickened declines in print circulation (21%) and the gigantic print-digital price gap suggest a decrease in overall subscription revenue.

Has Covid-19 narrowed the print- digital gap?	Despite continuous declines in print circulation, most U.S. newspapers' legacy product still outperforms the same newspaper's digital offerings in terms of engagement, circulation, pricing, advertising, and subscription revenue—all by a wide margin. <u>Our</u> <u>previous study</u> based on 50 newspapers' 2017 data estimated that digital accounted for about 3% of total subscription revenue.
	But Covid-19 has created an unprecedented scenario where the need for instant, local news updates and the fear of physically contacting anything tangible may change consumer behavior. Economic stress could also drive print subscribers to cheaper alternatives—such as the same newspaper's digital product.
	In this report we examine the impact of Covid-19 on digital and print circulation. The extent to which the pandemic has narrowed the print-digital gap carries managerial implications.
Sample of 20 metro dailies	Drawing from a list of 50 publications in Pew's 2016 State of the News Media Report, this analysis focused on 20 U.S. metro daily newspapers that filed digital nonreplica circulation data (e.g., web, mobile/smartphone, tablet, eReaders without advertising) and with no missing data preventing comparisons between 2019 and 2020.
	Each newspaper's weekday paid digital nonreplica and print circulation data were retrieved from the reports filed for the Alliance for Audited Media in 2019, Q1 2020, and Q3 2020. Digital pricing data were collected from these newspapers' websites.

Findings

How has digital circulation changed during Covid-19?

Among the 20 newspapers under study, the majority (n=16) have seen a growth in digital nonreplica circulation. Overall, these newspapers have gained 321,738 digital subscribers since 2019—a 64% increase.

change % change Newspaper 2019 Q1 2020 Q3 2020 since 2019 since 2019 The Arizona Republic ΑZ 13,938 16,157 22,540 8,602 62% CA Sacramento Bee 5,891 2,513 43% 6,868 8,404 CA Los Angeles Times 60,468 64,550 89,066 28,598 47% CO Denver Post 8,967 18,606 25,761 16,794 187% Miami Herald FL 10,695 19,612 23,306 12,611 118% **Orlando Sentinel** FL 1,319 NA 23,742 22,423 1700% The Des Moines Register IA 7,104 -15% 6,100 6,068 -1,036 Indianapolis Star IN 10,925 10,905 10,693 -232 -2% The Kansas City Star KS 11,053 17,843 19,431 8,378 76% The Courier-Journal KΥ 5,628 5,586 5,710 82 1% The Boston Globe MA 105,015 166,712 229,027 124,012 118% The Star Tribune MN 76,117 90,363 32% 100,128 24,011 Charlotte Observer NC 8,741 10,272 11,630 2,889 33% Newsday NY 70% 20,011 23,906 34,095 14,084 The Buffalo News (NY) NY 78,682 106,950 105,135 26,453 34% Cincinnati Enquirer -3% OH 10,110 10,392 9,819 -291 San Antonio Express-News ТΧ 33% 9,280 8,995 12,336 3,056 Fort Worth Star-Telegram ТΧ 7,785 6,577 288% 2,280 8,857 Seattle Times WA 36,228 46,962 68% 61,012 24,784 Milwaukee Journal Sentinel WI 18,396 17,303 15,826 -2,570 -14% median 10,810 17,303 20,986 8,490 45% mean 25,042 34,519 41,129 16,087 (SD) 30,085 43,397 54,358 27,408 sum 500.848 655,867 822,586 321,738 64%

Table 1 Number of Digital Nonreplica Subscribers before and during Covid-19

How has print circulation changed during Covid-19?

All the 20 newspapers reported a decrease in print circulation. Overall, these newspapers have lost 347,241 print subscribers since 2019—a 21% decrease.

	Newspaper	2019	Q1 2020	Q3 2020	change since 2019	% change since 2019
AZ	The Arizona Republic	99,676	101,162	80,132	-19,544	-20%
CA	Sacramento Bee	58,199	52,703	49,569	-8,630	-15%
CA	Los Angeles Times	221,517	190,875	173,485	-48,032	-22%
CO	Denver Post	89,530	68,463	64,153	-25,377	-28%
FL	Miami Herald	33,896	33,706	28,829	-5,067	-15%
FL	Orlando Sentinel	58,234	46,693	40,754	-17,480	-30%
IA	The Des Moines Register	42,729	33,877	32,220	-10,509	-25%
IN	Indianapolis Star	52,202	46,291	43,741	-8,461	-16%
KS	The Kansas City Star	60,693	53,589	45,762	-14,931	-25%
KY	The Courier-Journal	49,277	41,509	38,828	-10,449	-21%
MA	The Boston Globe	104,372	82,536	78,839	-25,533	-24%
MN	The Star Tribune	142,219	120,805	119,804	-22,415	-16%
NC	Charlotte Observer	47,373	42,388	39,003	-8,370	-18%
NY	Newsday	140,207	123,010	117,853	-22,354	-16%
NY	The Buffalo News	85,729	70,919	66,262	-19,467	-23%
OH	Cincinnati Enquirer	51,550	40,937	39,183	-12,367	-24%
ТΧ	San Antonio Express-News	45,586	41,590	36,170	-9,416	-21%
ТΧ	Fort Worth Star-Telegram	50,976	39,170	34,697	-16,279	-32%
WA	Seattle Times	119,311	103,832	99,114	-20,197	-17%
WI	Milwaukee Journal Sentinel	80,145	61,816	57,782	-22,363	-28%
	median	59,464	53,146	47,666	-16,880	-21%
	mean	81,671	69,794	64,309	-17,362	
	(SD)	46,210	40,273	37,699	9,575	
	sum	1,633,421	1,395,871	1,286,180	-347,241	-21%

Table 2Number of Print Subscribers before and during Covid-19

How much does a digital/print subscription cost?

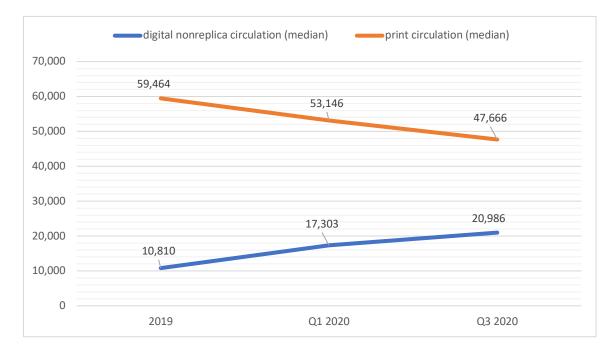
The median price for all digital access is \$181 a year, with introductory digital offers as low as \$.25 a week, while 7-day print subscription prices reached a whopping \$1,052 (median) or \$987 (mean) a year. The shocking price gap suggests that it takes nearly six new digital subscribers to make up for the loss of one print subscriber.

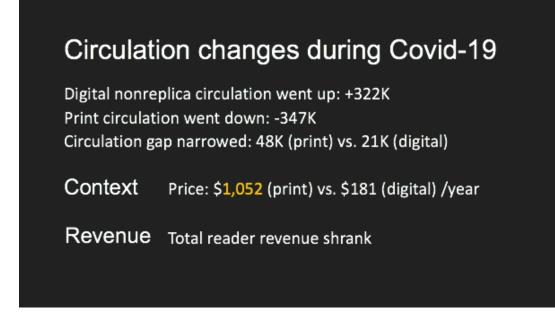
	Newspaper	promotional price for digital access (/week)	regular price for digital access (/year)	2019 print subscription price (/year)
		(\$)	(\$)	(\$)
AZ	The Arizona Republic	0.08	120	816
CA	Sacramento Bee	0.25	192	1,300
CA	Los Angeles Times	0.25	192	884
CO	Denver Post	0.25	180	754
FL	Miami Herald	0.50	192	1,300
FL	Orlando Sentinel	0.10	192	623
IA	The Des Moines Register	0.04	240	1,284
IN	Indianapolis Star	0.25	108	1,032
KS	The Kansas City Star	0.50	160	1,300
KY	The Courier-Journal	0.25	108	1,078
MA	The Boston Globe	0.04	333	1,347
MN	The Star Tribune	0.25	182	453
NC	Charlotte Observer	0.50	192	1,300
NY	Newsday	0.25	181	1,299
NY	The Buffalo News	0.50	134	309
ОН	Cincinnati Enquirer	0.08	120	1,072
ТΧ	San Antonio Express-News	0.24	70	663
ТΧ	Fort Worth Star-Telegram	0.50	100	1,300
WA	Seattle Times	0.25	192	728
WI	Milwaukee Journal Sentinel	0.25	108	890
	median	0.25	181	1,052
	mean	0.27	165	987
	(SD)	59.33	59.33	322

Table 3Digital and Print Subscription Price

Digital transformation and revenue implications	During the pandemic, the circulation gap between print and digital has narrowed significantly, yet the print edition remains the core product, with a lot more subscribers paying so much more than digital subscribers.
	Because of the gigantic price gap between print and digital editions, the impact of Covid-19 on total subscription revenue is negative.
	This pandemic has made it clear that when digital transformation finally happens, the net result is unfortunately "exchanging analog dollars for digital dimes." The industry must reassess its pricing, product, and revenue strategy. Otherwise, as John Garrett, publisher of Community Impact Newspaper, suggests, "This digital reader revenue push will leave news organizations with the worst left-at-the-altar story of all time."

Changes in Print and Digital Circulation during Covid-19





Related studies (available upon request)

Chyi, H. I. & Ng, Y. M. M. (2020). Still unwilling to pay: An empirical analysis of 50 U.S. newspapers' digital subscription results. *Digital Journalism*, *8*(4), 526-547.

Chyi, H. I. & Tenenboim, O. (2019). Charging more and wondering why readership declined? A longitudinal study of U.S. newspapers' price hikes, 2008-2016. *Journalism Studies*, *20* (14), 2113-2129.

Chyi, H. I. & Tenenboim, O. (2017). Reality check: Multiplatform newspaper readership in the U.S., 2007-2015. *Journalism Practice*, 11(7), 798-819. Ellen A. Wartella Distinguished Research Award.

Chyi, H. I. (2017). Reality and irrationality: U.S. metropolitan newspapers between print and digital (pp. 12-22), in *Print-online performance gap: A U.S.-only study raises debate.* World Printers Forum Report, published by WAN-IFRA (World Association of News Publishers), Frankfurt, Germany.

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