

The dot-com meltdown and the Web

12% of Internet users have lost a favorite Web site
17% have been asked to pay for something that used to be free online
Most online Americans adjust easily

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Major findings

The dot-com problems and their impact on the Web

Some Americans' Internet experiences are beginning to be affected by the dot-com meltdown, but the vast majority of them are making quick adjustments to get the Web content and services they like without paying extra money. Here are the key findings from a survey taken between August 13 and September 10 of 2,247 American adults (1,351 of them are Internet users):

- 12% of Internet users more than 13 million people say a favorite Web site of theirs has gone out of business. But close to two-thirds of them (62%) have found other Web sites that provide the same information or service.
- 17% of Internet users about 19 million people have been asked to pay for access to a Web site or content that used to be free. But half of them have found a free alternative. Just 12% of them pay for the service and the rest just decide to stop getting that content or service from an online source.

Are dot-com troubles a good thing or a bad thing for the online environment?

Many Americans still believe that the dot-com shakeout has basically been a benefit to the online world, and they still believe that greedy investors were a major factor in the collapse of many firms. Still, a growing number of Americans fear that the problems in the Internet's commercial sector are a significant problem for the U.S. economy. It is important to point out that this survey took place before the terror attacks on the World Trade Center in New York City and the Pentagon outside Washington, D.C., thus it does not measure people's views in the context of those world-changing events.

In all, two-thirds of Americans have heard about the problems in the dot-com world. Of them:

- 48% believe that having some Internet companies close is a good thing because there were too many Web sites that had too little to offer. This is down from 57% who believed that when we asked the same question in February.
- 71% believe a major cause of the dot-com woes is that investors were eager to make a lot of money and took at lot of risks.
- 34% believe that the financial problems of the dot-coms will have a major impact on the economy. That is up from the 26% who believed that when we asked the question in February.

The impact of Internet firms' problems takes a greater personal toll

- 12% of Americans say they or members of their families have lost money investing in Internet companies, up from 7% in February.
- 14% of Americans say they know someone laid off by an Internet company or a firm that provides services related to the Internet, up from 9% in February.

Further analysis

Background

In mid-March, the Pew Internet & American Life Project issued a report entitled "Risky Business: Americans see greed, cluelessness behind dot-com' comeuppance." Six months after asking online Americans about how the impact of Internet companies' problems on their experiences on the Internet, we decided to ask more questions because the economic circumstances of these companies and many other U.S. firms had grown worse in a half year. And we asked all Americans, Internet users and non-users alike, about their impressions about the importance of the dot-com meltdown.

Our survey was conducted between August 13 and September 10, the day before the terrorist attacks on the World Trade Center and the Pentagon. It shows that Americans still hold many of the same views, though more now think the problems of dot-com firms are affecting the online world and the overall U.S. economy. And the dot-com troubles are beginning to impinge on the day-to-day experience of the Internet that online Americans enjoy.

The changing Web environment for users

It is clear that the dot-com meltdown has begun to affect the Internet experience of millions of Americans. One in six Internet users (17%) has been asked to pay for access to a Web site or service that she used to access for free. And 12% have seen one of their favorite sites go out of business. This latter figure represents a 50% growth from the February data, which showed that 8% of Internet users had lost a favorite site.

The majority of those who faced these changes found alternatives on the Web that did not cost money and gave them the same content or service. In each case, roughly a third of those affected decided to stop seeking that information or service online.

The level of a user's Internet experience was clearly associated with his response to the new Internet environment. Newcomers with a year or less of experience were more likely than veterans to abandon an online activity when they were asked to pay or when they lost a favorite site.

Does information really want to be free?

How Internet users responded to the changes wrought by the dot-com meltdown

17% of them have been asked to pay for acco	ess to
a Web site that used to free. Of them	

Found a free alternative	50%			
Completely stopped getting that information or service online	36%			
Paid for it	12%			
12% have seen a favorite Web site go out of business. Of them				
Found other Web sites that do the same thing	62%			
Stopped doing that activity online	31%			
Have not found other Web	5%			

Source: Pew Internet & American Life Project Aug.-Sept. 2001 Survey. .N for those asked to pay=233. Margin of error is $\pm 7\%$. N for those who lost a site=159. Margin of error is $\pm 9\%$.

sites that do the same thing

Conversely, veterans were more likely than those with less experience to find alternatives – for free.

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See: http://www.pewinternet.org/reports/toc.asp?Report=31

A drop-off in Web site growth

This impact on Internet users' experience comes at a time when the number of Web sites continues to grow, but at a considerably slower rate that in the boom years in the late 1990s. There is no authoritative source for the size of the commercially-oriented Web – i.e., the dot-com space. Nor has there been ongoing research about the total number of Web pages that exist. However, a useful proxy for the overall size of the Web can be seen in the work of the Online Computer Library Center. Its Web Characterization Project found recently that

The rate of Web site growth slows The number of Web sites has risen to 8,745,000 sites, up from 1,570,000 in 1997. But the growth rate for new Web sites has dropped sharply					
	Growth between 1997-98	Growth between 1998-99	Growth between 1999-2000	Growth between 2000-2001	
Total number of sites	82%	71%	52%	18%	
Number of unique sites	N/A	77%	53%	18%	
Number of public sites	82%	53%	32%	6%	

Source: Online Computer Library Center. Data as of June 30, 2001.

there were 3.1 million public Web sites worldwide as of June 30. 2001.² The center savs that these Web sites represent 36% of the Web as a whole.

"From 1997 to 2000, the public Web increased by about 700.000 sites each

year, but increased by only 200,000 sites between 2000 and 2001," the OCLC found. Overall, the Center found that there are 8.7 million Web sites worldwide -- a number that consists of public sites, duplicates of these sites, sites offering content for a restricted audience and sites that are under construction.

"Over the past year, the Web as a whole grew by 18 percent, reaching an estimated total of nearly 9 million sites," continued the OCLC in its report this summer. "Although more than 1.3 million new sites were added to the Web during this period, growth over the past year is substantially slower than that observed between 1998 and 1999 (71 percent) or 1999 and 2000 (52 percent)."

The dimensions of the dot-com meltdown

Research by Webmergers.com, a firm that specializes in assessing the environment for buyers and sellers of technology properties, shows that the dot-com demise was particularly heavy in the first months of 2001. Since January 2000, the firm reports that 555 significant Internet companies (firms that gained serious levels of funding from investors) have closed their doors. "More than nine times as many companies shut down in the first half of 2001 as in the first half of 2000...(330 in 2001 versus 36 in the same period in 2000)," Webmergers.com reported. But the rate of new closures this spring seemed to level off. The firm reported that the number of shutdown was 54 in May and 53 in June.

Some of the most notable dot-com failures this year have included online publications like The Standard.com, travel sites like Biztravel.com, retail sites like Petstore.com, and music sales sites such as MusicMaker.com.

² See http://wcp.oclc.org/

³ See http://www.Webmergers.com/editorial/article.php?id=37

Personal toll

The collapse of the dot-com economy has had tangible effects on some Americans' personal lives. Our August-September survey shows that about 14% of Americans personally know someone who has either been laid off from a failed Internet company or a company that provided Internet-related services. This is up from the 9% of Americans we found in the February 2001 survey. Also, the percentage of Americans who have lost money investing in dot-coms rose from 7% in February to 12% in the August-September survey.

The Americans who have been personally affected by the dot-com collapse tend to be wealthier and more educated. About 29% of college educated Americans have an acquaintance that lost his or her job, and 27% have lost money on dot-coms. Only 8% of those with only a high school diploma have a newly unemployed friend, and only 6% have lost money due to failing dot-coms. Likewise, 29% high earners over \$75,000 a year have seen a friend lose their job, ands 27% have lost money on dot-com stocks.

Internet veterans have felt the personal toll the most as well: 29% of Internet veterans with three or more years of online experience have seen a friend lose their job, while 17% of those with a year or less online have had the same thing happen. Almost a quarter (24%) of these vets have lost money as well.

Americans' views about who is to blame

We reported in March that the earlier survey showed that 67% of all Americans were aware of the financial problems of many dot-com companies. The August-September survey showed the exact same thing, though the percentage who said they had heard "a lot" about

the dot-com troubles had grown slightly from 30% to 34% in the intervening six months.

Most of those following the story still blame greedy investors most often for the problems in the sector. Of those who were at least somewhat aware of the

Causes of the dot-com shakeout				
The percent of Americans aware of the troubles with Internet firms who say the dot-com turndown was caused by				
	A major reason	A minor reason	Not a reason	
Investors eager to make a lot of money who took too many risks	71%	16%	4%	
Poor business plans	55%	24%	8%	
Youthful and inexperienced management	36%	36%	17%	

Source: Pew Internet & American Life Project Aug.-Sept. 2001 survey. N=1,578. Margin of error is +3%.

troubles at Internet companies, more than 7 in 10 cited incautious investors as the problem, more than half blamed firms that did not have a clear plan for how they would make money and a bit more than a third cited the fact that many of the owners of Internet firms were young and inexperienced.

Americans' views on the changing online world

The failure of more and more dot-coms and their attendant Web sites is causing some Americans to reassess their view of the online world. In February 2001, we found that 57% of all Americans who had heard about the industry's troubles believed that it was a good thing for some Internet companies to close because "there were too many Web sites that

Americans' growing concerns about the troubled			
dot-com economy The percent of Americans aware of the dot-com	Feb.	August	
shakeout who say	2001	2001	
Having some Internet companies close is a good thing because there were too many Web sites with too little to offer	57%	48%	
Having some Internet companies close is a bad thing because there will be fewer sites and services to choose from online	28%	32%	
Dot-com problems will have a major impact on the overall economy	26%	34%	
They personally know someone who has been laid off by an Internet company	9%	14%	
They have lost money in their family by investing in dot-coms	7%	12%	

Source: Pew Internet & American Life Project February survey, N=1,455. Aug.-Sept. 2001 survey N=1,578. Margin of error is $\pm 3\%$.

had too little to offer." Six months later, that number has fallen to 48%, as some Americans have seen their favorite Web sites or other Web sites they used collapse. Likewise, the percentage of people who worried about shrinking choice online rose.

While both men and women have lamented the closure of some of their favorite Web sites, women have felt the difference more than

men. The percentage of women who feel that the closing down of dot-coms was a good thing fell from 56% in February to 44% in August. Meanwhile, the percentage of men feeling the same way fell from 58% to 51%.

Younger users have felt the loss of Web sites strongly as well – about 41% of users between the ages of 18 and 29 see the collapse of many Web sites as a bad thing, while 31% of baby boomers between 50 and 64 and 17% or seniors feel the same way.

Many of those who use the Internet have second thoughts about the meaning of the dotcom failures. In February 61% of Internet users thought weeding out Internet companies was a good thing; in August, half (50%) of users felt the same way. Meanwhile the percentage of users who thought the closure of Web sites was a bad thing rose from 30% of users in February to 37% in August.

Meanwhile, more Americans expressed the view in August that the financial problems of the dot-coms will have a major impact on the American economy. In February, just over a quarter (26%) of Americans felt that way; by August, the percentage had risen to 34%. However, a majority of Americans still feel that the collapse of these dot-coms will have little, if any, effect on the economy – 61% of Americans feel that there will be a minor impact or no impact at all.

Again, it is important to remember that this survey was completed before America's economy absorbed the shock of the terror attacks and the anthrax scare. These events have heightened concern about the direction of the economy overall and they have also drawn

attention away from the problems of the dot-com sector to more sweeping issues related to all sectors of the economy.

Who are the most glum about the dot-com woes? Those who earn higher incomes and have lost money on the dot-coms are naturally more pessimistic about the dot-com impact on the economy. About 41% of those who earn more than \$75,000 a year fear a major impact on the economy due to the collapse of dot-coms, which is double the percentage (20%) who felt the same way in February.

Those who have direct experiences with the problems in the dot-com sector are most alarmed. Just over half (52%) of those who have lost money on the dot-coms fear the collapse of the industry will have a major impact on the economy. And just about half (49%) of those who have an acquaintance that lost his or her job due to a failed dot-com see a major impact on the economy

Methodology

This report is based on the findings of a daily tracking survey on Americans' use of the Internet. The results in this report are based on data from telephone interviews conducted by Princeton Survey Research Associates between August 13, 2001 and September 10, 2001, among a sample of 2,247 adults, 18 and older, some 1,351 of whom are Internet users. For results based on the total sample, one can say with 95% confidence that the error attributable to sampling is plus or minus 2 percentage points. For results based Internet users, the margin of sampling error is plus or minus 3 percentage points. In addition to sampling error, question wording and practical difficulties in conducting telephone surveys may introduce some error or bias into the findings of opinion polls.

The sample for this survey is a random digit sample of telephone numbers selected from telephone exchanges in the continental United States. The random digit aspect of the sample is used to avoid "listing" bias and provides representation of both listed and unlisted numbers (including not-yet-listed numbers). The design of the sample achieves this representation by random generation of the last two digits of telephone numbers selected on the basis of their area code, telephone exchange, and bank number. The response rate on this survey was 38%.

Non-response in telephone interviews produces some known biases in survey-derived estimates because participation tends to vary for different subgroups of the population, and these subgroups are likely to vary also on questions of substantive interest. In order to compensate for these known biases, the sample data are weighted in analysis. The demographic weighting parameters are derived from a special analysis of the most recently available Census Bureau's Current Population Survey (March 2000). This analysis produces population parameters for the demographic characteristics of adults age 18 or older, living in households that contain a telephone. These parameters are then compared with the sample characteristics to construct sample weights. The weights are derived using an iterative technique that simultaneously balances the distribution of all weighting parameters.