The Habits of Online Newspaper Readers in India

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Abstract: An online survey was conducted among 3,183 online news consumers of India. The aim of the survey was to know the reading habits of online readers. The questionnaire was sent through the e-recourses like e-mail, Facebook, Twitter, and blogs. The study found that women and men consume online news in a slightly different manner. Women prefer to read information related to entertainment, development, health, education, and features. Men prefer political, sports, crime, business, and defense related news. More than half of the respondents (62.6%) have the subscription of online newspapers but it will reduce when online newspaper will start paid subscription as 71% respondents says they will not subscribe paid online news. As many as 56% respondents share the news with others, 67.7% say they don’t write comments and 58% respondents like the 24X7 news updates. The Times of India is the most readable (43.5%) online news source among the respondents followed by Social Media (38%).

Keywords: Online news, online media, online news consumer, social media, reading habits.

Introduction

Online media is different from newspapers, radio, and television in its perception and reception from the reader’s point of view. It takes news to the reader easily and provides related links which appeared on the issue in the recent past. Most of the news portals allow their readers to comment on the information, giving them a window for feedback.

Recent research shows that online news consumption rose sharply in recent years, coupled with the costs and technological challenges of the rapid advance of the mobile era (Sasseen, Olmstead, & Mitchell, 2013).

The Chicago Tribune was the pioneer in publishing online newspaper after publishing its content in 1992 (Deuze, 1999). After 1992, the growth of online media is significantly grown. The World Wide Web has considerably influenced the journalism. The Internet has attracted the many people around the world and has entered into people’s daily lives.

The Internet has become major source of communication in the present world and reading news is the top fourth popular internet activity among the respondents in USA (Cole, et al.2000). As per the various scholars use of

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internet and computer-mediated communication is increasing (Fox, Rainie, Larsen, Horrigan, Lenhart, Spooner, & Carter, 2001; Horrigan, 2001; Nie & Erbring, 2000; Nie, Hillygus, & Erbring, 2002).

Now communication system is changing rapidly day by day, it is now much easier to access information available on the Internet. The hyperlink on the news sites gives extraordinary control over the news consumption process. The online news have become the inherent part of modern society, it posed a challenge to the print media in some part of the world.

Indian online readers will grow very fast as per the latest research by the Internet and Mobile Association of India (IAMAI) and IMRB International, Internet usage in India has gone up by 32% from October 2013 to October 2014. As per the report, 278 million people are using the internet in India till October 2014 and IAMAI is expecting 302 million people to use it by December 2014 in India. US-based research firm eMarketer (2014) says, India will overtake the US as the second largest market for Smartphone in the world by 2016.

Reading habit is an art of learning and knowing something, it helps to build vocabulary and background knowledge (Strommen & Mates, 2004). New technologies are changing the nature of news reading habits, the interactive nature of the Internet allows people to efficiently select the news that interests them. Internet has become an important source of an information and provides knowledge of different segments of the society. All the major newspapers of India have started their e-papers and online newspapers. Many Indians have started reading online newspapers. Experts of new communication technologies explained that the new media will remove barriers between audiences and information (Abramson, Arterton, & Orren, 1988).

The importance of the online media industry has grown rapidly over the last decade. Nowadays leading newspapers of the world are moving to 100 percent digital page assembly and distribution, streamlining workflow processes while ensuring higher quality (Veglis, 2005).

"Future of journalism is found on the Internet and that online news will one day become mainstream journalism" Jon Katz (1999). Online news are dynamic, interactivity, hypertext, and attractive by using multimedia (Oppenhaffnen, 2011); it provides the 24 hours up-to-date information about local and international events to online users.

This research was conducted to examine the online reader’s habits for information consumption. It will provide a better understanding of nature of Indian readers and will convey that how they treat online news content. Finally, this research will help online content providers to improve their information as per the need of the target audience according to the readers habits.

Review of literature
People do variety of things with the help of Internet, many people use Internet for email, chatting to keep in touch with friends and others around the world. Some of them play games on the Internet; others use Internet to get information through search engines. Pew Research Center (1999) says, ’People go to the Internet increasingly as a source of information. Nearly half of all Internet users go to the Internet at least once every week to get information and use websites of television networks, national newspapers, cable news networks, and magazines ’. Previous studies also suggest that Internet is used for information seeking (Mings, 1997; Stempel, Hargrove, & Bernt, 2000; Ferguson & Perse; Papacharissi & Rubin, 2000;
When any person visits the Internet for news, they often visit the sites of the traditional media, not Internet-only outlets (Cyberatlas, 1999). Internet has become the extension, rather than revolution, of traditional news media (Ahlers, 2006) and traditional news media is dominating on the Internet (Tewksbury, 2003).

As per the recent research not only journalism is changing with the growth in technology, but also readers' news consumption habits are changing (Lin, Salwen, Garrison & Driscoll, 2005). New technologies are changing the nature of news reading and providing new opportunities for studying that behavior (Tewksbury, 2003). A study of print and web-based readers of The New York Times by the Tewksbury and Althaus (2000) found that online readers are less keen to read international, national, and political stories than their print counterparts. Online readers are more focused on topics of personal interest.

As per the previous research “content must be free unless it is very specialized,” which once seemed to be the industry’s consensus (Carlson, 2003). Another study revealed that 71% of news site users would go somewhere else because there are so many free sites available, the paid subscription of online newspapers was as low as 0.2% to 2.6% of the print circulation (Borrell & Associates, 2001). As per the study by Hsiang Iris Chyi (2005) only 2.5% users responded to paid content and most had no intent to pay in the future at the time of the study, as free alternative news services exist.

This research attempts to investigate the online newspaper readers' habit of using various features of online media. The gap is a considerable issue for the betterment of the online media. What kind of news online readers like the most? This is the main purpose of this research.

**Objective**

Keeping in view the above discussion, the broader objects of the study was to assess the habits of online news consumers. The specific objectives of the study were as follows:

1. Do people have subscription of online newspapers?
2. Will people read online newspapers with paid subscription?
3. Do people write comments on news?
4. Do people share the news with friends or others?
5. Why people like online newspapers?
6. Sources of news for the online news consumers
7. What online news consumer read the most on Internet?

**Methodology**

The online survey method was adopted to know the online readers' habit in North India. It is a most popular method to study the Internet users. It is a systematic gathering of data from the audience by sending email to Internet users or posting questionnaire on social media and web pages. Respondents complete the questionnaire over the World Wide Web.

Recent developments in the field of communication Technologies have given choice of survey methods. Now with the help of internet one can do survey through e-mail, Web-based tools and Social media. Online survey
have faster responses and save the time (Llieva, Baron, & Healey, 2002), researcher can get data from a distant locations (Bachmann & Elfrink, 1996; Garton et al., 2003; Taylor, 2000; Yun & Trumbo, 2000).

Some of the research proved the advantage of online survey research as per the studies, it takes advantage of the ability of the Internet to provide access to groups and individuals who would be difficult, if not impossible, to reach through other channels (Garton, Haythornthwaite, & Wellman, 1999; Wellman, 1997).

In recent years an increase of online surveys have noticed for online studies, presenting scholars with new challenges in terms of applying traditional survey research methods to the study of online behavior and Internet use (Andrews, Nonnecke, & Preece, 2003; Bachmann & Elfrink, 1996; Stanton, 1998; Witmer, Colman, & Katzman, 1999; Yun & Trumbo, 2000).

Online surveys are increasing in the last 10 years, conducting web or online surveys in comparison with other methods is low cost (Bachmann & Elfrink, 1996; Couper, 2000; Llieva et al., 2002; Yun & Trumbo, 2000). Web surveys have a number of advantages over other survey methods. They are convenient for respondents to take on their own time and save the time of a researcher as it is automatically stored electronically and analysis becomes easier.

For this study questionnaire was created on the Google Forms, a link of questionnaire posted on social media and mailed on various online news readers and provided links to the questionnaire on my own web page for six month July 1 to December 31, 2014. The questionnaires posed only close-ended questions.

Questionnaire was checked by the other experts one senior journalist of The Tribune Publication and two teachers of Mass Communication for the validation and reliability of questionnaire. After that the survey questionnaire was sent to 50 respondents to measure the reliability of questionnaire through the test-retest reliability method. The score of test-retest reliability was \( r \geq 0.78 \).

The respondent for this survey were those who have the habit of reading news online and are of age groups between 15 and above. The data was collected by a questionnaire using web survey and findings and conclusions have been drawn based on the survey results.

**Data Analysis**

| News | Respondent (n=3183) | % of respondent | % of men (n=2064) | % of women (n=1119) |
|------|---------------------|-----------------|------------------|---------------------|
| Yes  | 1993                | 62.6%           | 72.4%            | 53%                 |
| No   | 1190                | 37.4%           | 27.6%            | 47%                 |

Of all respondents \( N = 3183 \), 62.6% have subscribed the online newspapers and 37.4% of all respondents don’t have subscription. Despite the free subscription by most of the news website the news consumer in India not very keen to subscribe a particular online media. Table number 1 shows that men respondents are subscribing online newspapers more than women.
Table 2: Will people read online newspaper with paid subscription?

|       | Respondent (n=3183) | % of respondent | % of men (n=2064) | % of women (n=1119) |
|-------|----------------------|-----------------|------------------|---------------------|
| No    | 2260                 | 71%             | 72%              | 68%                 |
| Yes   | 923                  | 29%             | 28%              | 32%                 |

As per the table number 2, majority online news readers (71%) says they will not read news on Internet after paying subscription only 29% are ready to pay for news subscription. Interestingly women respondents wants to read after paying subscription more than male respondents, 32% and 28% respectively.

Table 3: Do people write comments on news?

|       | Respondent (n=3183) | % of respondent | % of men (n=2064) | % of women (n=1119) |
|-------|----------------------|-----------------|------------------|---------------------|
| No    | 2155                 | 67.7%           | 63.2%            | 72.2%               |
| Yes   | 1028                 | 32.3%           | 36.8%            | 27.8%               |

From the table 3, it is inferred that 36.8% respondents have comment writing habit on all kind of news. Comments by the readers are the real time feedback from the readers. Women writes comment on the news less than men.

Table 4: Do people share the news with friends or others?

|       | Respondent (n=3183) | % of respondent | % of men (n=2064) | % of women (n=1119) |
|-------|----------------------|-----------------|------------------|---------------------|
| Yes   | 1782                 | 56%             | 56%              | 50.2%               |
| No    | 1401                 | 44%             | 44%              | 49.8%               |

The table 4 shows that more than half (56%) respondents share the news with friends on social media or email to them. Only 44% respondent says they are not sharing any news with friends or on social media. Females respondents indicated they share news with friends less than men. As men share 56% and women 50.2%.

Table 5: Why people like online newspapers?

|       | Respondent (n=3183) | % of respondent | % of men (n=2064) | % of women (n=1119) |
|-------|----------------------|-----------------|------------------|---------------------|
| 24x7 updates | 1687                 | 58%             | 52.2%            | 59.5%               |
| In-depth news    | 356                  | 11.2%           | 15%              | 9.2%                |
| Easily available   | 1368                 | 43%             | 39%              | 44.1%               |
| Low costs         | 706                  | 22.2%           | 26%              | 36%                 |

As per the table 5 most of the respondents (58%) like the 24X7 news updates. While 43% like online newspaper due to its easily availability. As many as 22.2% like it’s low cost feature and 11.2% in depth news. The table shows that 59.5% women like 24X7 news updates and 52.2% men. As many as 44.1% women like easy
availability of online news, 36% like low cost and 9.2% like in-depth news, while men likes 39%, 26% and 15% respectively.

Table 6: Sources of news for the online news consumer

| News Media | Respondent (n=3183) | % of respondent | % of men respondent (n=2064) | % of women respondent (n=1119) |
|------------|---------------------|-----------------|-----------------------------|-------------------------------|
| TOI        | 1380                | 43.5%           | 43.3%                       | 49%                           |
| Tribune    | 891                 | 28%             | 30.5%                       | 27.6%                         |
| HT         | 1050                | 33%             | 24%                         | 39.2%                         |
| Exp        | 798                 | 25%             | 27.6%                       | 21.5%                         |
| Hindu      | 636                 | 20%             | 18%                         | 27.5%                         |
| Social Media | 1209             | 38%             | 39.1%                       | 34.4%                         |
| Others     | 600                 | 18.8%           | 21.3%                       | 19.7%                         |

The table number 6 shows that traditional news media is dominating on the Internet. Majority of the respondents preferred The Times of India (43.5%), Hindustan Times (33%), The Tribune (28%), The Indian Express (25%), The Hindu (20%), other sources (18.8%) and Social Media (38%). As per the gender division women respondents preferred The Times of India (49%), Hindustan Times (39.2%), Hindu (27.5%), The Tribune (27.6%), The Indian Express (21.5%), Social Media (34.4%), and other newspapers (19.7%). While man preferred The Times of India (43%), Hindustan Times (24%), Hindu (18%), The Tribune (30.5%), The Indian Express (27.6%), Social Media (39.1%), and other newspapers (21.3%).

Table 7: What online news consumer read the most on Internet?

| Type of News | Respondent (n=3183) | % of respondent | % of men respondent (n=2064) | % of women respondent (n=1119) |
|--------------|---------------------|-----------------|-----------------------------|-------------------------------|
| Politics     | 796                 | 25%             | 24%                         | 21%                           |
| Sports News  | 732                 | 23%             | 21%                         | 18%                           |
| Entertainment| 751                 | 23.6%           | 17.3%                       | 38%                           |
| Development  | 452                 | 14.2%           | 12%                         | 21%                           |
| Crime        | 636                 | 20%             | 19%                         | 16.5%                         |
| Business     | 541                 | 17%             | 17%                         | 14%                           |
| Health       | 394                 | 12.4%           | 9.6%                        | 19%                           |
| Education    | 560                 | 17.6%           | 15.2%                       | 24.7%                         |
| Defense      | 381                 | 12%             | 14%                         | 9%                            |
| Features     | 423                 | 13.3%           | 10.7%                       | 20%                           |
| All News     | 1741                | 54.7%           | 59%                         | 53.7%                         |
The table number 7 indicates the news content reading habits of online news readers in India. Most of the respondents (54.7%) prefer to read the all kind of news followed by Politics (25%), Entertainment (23.6%), Sports News (23%), Crime (20%), Education (17.6%), and Business (17%). Men have slightly stronger interest in political, sports, crime, business, and defence, news than women, that is 24%, 21%, 19%, 17%, 14%, and 21%, 18%, 16.5%, 14%, 9% respectively. Whereas women are far ahead of men readers for reading news of entertainment, development, health, education, and features, 38%, 21%, 19%, 24.7%, 20%, and 17.3%,12%, 9.6%, 15.2%, and 10.7% respectively.

Discussion
The study shows more than half of the respondents (62.6%) have subscribed online news services. Despite most of them are providing free of cost subscription, the subscription rates are not good. Majority (71%) respondents are not willing to pay subscription if they start charging subscription fees. Online publishers should exert caution when implementing the subscription model. If they will try implementing the paid subscription for online news, they can lose many online news readers that they have tried so hard to build.

A study by Pew Institute (2007) revealed that topics preferred by the news readers have not changed much in the past 20 years. According to the report, of all news categories studied – from political scandals to natural disasters – only the money news category trended upward.

Internet news publishers are trying to generate revenue with various models: the subscription model, the advertising model, the transactional model, and the bundled model. As per this study, majority of online news readers (71%) says they will not read news on Internet after paying subscription and 29% are ready to pay for news subscription.

Online news differ from traditional newspaper as they have feature for interactive communication and meta information with news. As per the survey, more than half of the respondents (56%) share the news with their friends and others. One can share an online news just by sending a link to friend. In the newspapers it is a tough task to share a news with friends, as it requires scanning or photocopy and than deliver the scanned news.

Online media provides the option of writing instant feedback, by writing comments on all news. A reader can give his/her view of what they consider important about the news and whether the news is correct or fictitious. People of India still using traditional media and they prefer to read their online version. Online consumers like to read the traditional media on Internet. The research showed that majority of the respondents preferred The Times of India (43.5%), Hindustan Times (33%), The Tribune (28%), The Indian Express (25%), The Hindu (20%), other sources (18.8%) and only 38% respondents says they read news from social media.

Most of the Internet users are addicted to know the happenings around the world. To know an important activity, they are using apps to get the latest news on their smartphone. Online media have many features, which
makes it popular around the world. Most of the respondents (58%) like the 24X7 news updates at online media, followed by easy availability (43%), low cost (22.2%) and in depth news (11.2%).

**Conclusion**

Internet has become an important news medium serving millions of news users worldwide. The way people are reading news online, it is changing their reading habits. Online newspapers should focus on 24-hour news services as most of the online readers expect continuous updates. Most of the readers like to read all kinds of news. To attract the online news readers, traditional media should publish maximum news from the different part on their online edition. Majority of Indian readers are not interested in paid subscription. It is a big challenge for Indian online media, as paid subscription is one of the revenue generation method for online media. They should motivate the people to subscribe the news, as despite the free subscription by most of the media, only 62.6% have subscribed the online media. Newspapers should use their news links with all the social media website. One third online readers just read news on the social media.

**References**

Althaus, S. L., & Tewksbury, D. (2000). Patterns of Internet and traditional news media use in a networked community. *Political Communication, 17*, 21–45.

Andrews, D., Nonnecke, B., & Preece, J. (2003). Electronic Survey Methodology: A Case Study in Reaching Hard-to-Involve Internet Users. *International Journal of Human-Computer Interaction*, 185-210.

Ahlers, D. (2006). News consumption and the new electronic media. *The Harvard International Journal of Press/Politics, 11*(1): 29-52.

Bachmann, D., & Elfrink, J. (1996). Tracking the progress of e-mail versus snail-mail. *Marketing Research, 8* (2), 31–35.

Barthelemy, S. (2011). The Future of Print Media. Retrieved Jan 4, 2015, from www.sipa.columbia.edu/academics/workshops/documents/WorldNewsmediaInnovationsStudy-CapstoneWorkshopSpring2011-ABRIDGED.pdf

Borrell & Associates, Inc. (2001). The free vs. paid debate: Newspapers must decide between short-term ROI and long-term goals. Retrieved March 3, 2015, from https://www.borrellassociates.com/index.php?option=com_content&view=article&id=112

Carlson, D. (2003). The history of online journalism. In K. Kawamoto (Ed.), *Digital journalism* (pp.31–55). Lanham, MD: Rowman & Littlefield.

Chyi, H. (2005). Willingness to Pay for Online News: An Empirical Study on the Viability of the Subscription Model. *Journal of Media Economics*, 131-142.

Cole, J. I., Suman, M., Schramm, P., Lunn, R., & Aquino, J. S. (2000). The UCLA Internet Report Surveying the Digital Future Surveying the Digital Future Surveying the Digital Future Surveying the Digital F. Retrieved January 11, 2015, from http://www.ucla.edu/prometheus21/articulos/survey.pdf

Cyberatlas. (1999). Newspaper sites draw news traffic. Retrieved December 1, 2000, from http://cyberatlas.internet.com/big_picture/traffic_patterns/article/0,,5931_152021,00.html

Domingo, & David, H. (2008). Weblogs and journalism: a typology to explore the blurring boundaries. *Nordicom Review*, 29 (1): 3-15.

Deuze, M. (1999). *Journalism And The Web: An Analysis Of Skills And Standards In An Online Environment. International Communication Gazette, 61*(5), 373-390.

Ferguson, D., & Perse, E. (2000). The World Wide Web as a Functional Alternative to Television. *Journal of Broadcasting & Electronic Media*, 155-174.
Fox, S., Rainie, L., Larsen, E., Horrigan, J., Lenhart, A., Spooner, T., & Carter, C. (2001). Wired Seniors. The Pew Internet and American Life Project. Retrieved January 6, 2015, from http://www.pewinternet.org/2001/09/09/wired-seniors/

Flanagin, A., & Metzger, M. (2000). Perceptions of Internet Information Credibility. *Journalism & Mass Communication Quarterly, 77*(3), 515-540.

Flanagin, A., & Metzger, M. (2001). Internet use in the contemporary media environment. *Human Communication Research, 27*, 153-181.

Garrison, B. (1996). *Successful strategies for computer-assisted reporting*. Mahwah, NJ: L. Erlbaum.

Garton, L., Haythornthwaite, C., & Wellman, B. (1999). Studying on-line social networks. In S. Jones (Ed.), *Doing Internet Research: Critical Issues and Methods for Examining the Net* (pp. 75–105). Thousand Oaks, CA: Sage.

India to overtake US in Smartphone by 2016. (2014, December 24). Retrieved April 7, 2015, from http://indiainbusiness.nic.in/newdesign/index.php?param=newsdetail/10367

J. Robinson, M. (2007). Two Decades of American News Preferences. Retrieved March 4, 2015, from http://www.pewresearch.org/2007/08/15/two-decades-of-american-news-preferences/

Katz, J. (1999). The Future is the Net. *Media Studies Journal, 14-15.*

Kaufman, D., Stasson, M., & Hart, J. (1999). Are the tabloids always wrong or is that just what we think? Need for cognition of perceptions of articles in print media. *Journal of Applied Social Psychology, 29*: 1984-1997.

Keeffe, D. (1990). *Persuasion: Theory and research*. Newbury Park, Calif.: Sage Publications.

Lin, C., Salwen, M.B., & Abdulla, R.A. (2005). Uses and gratifications of online and offline news: New wine in an old bottle? In M.B. Salwen, B. Garrison, & P.D. Driscoll (Eds.), *Online News and the Public* (pp. 221-236). New Jersey: Lawrence Erlbaum Associates.

Llief, J., Baron, S., & Healey, N. M. (2002). Online surveys in marketing research: Pros and cons. *International Journal of Market Research, 44* (3), 361-367.

Mings, Susan M. (1997). Uses and Gratifications of online newspapers: A Preliminary Study. *Electronic Journal of Communication, 7.*

Nie, N. H., & Erbring, L. (2000). *Internet and Society: A Preliminary Report*. Palo Alto, CA: Stanford Institute for the Quantitative Study of Society Press.

Nie, N., Hillygus, S. & Erbring, L. (2002). Internet use, interpersonal relations and sociability: Findings from a detailed time diary study. In B. Wellman (Ed.), *The Internet in Everyday Life* (pp. 215–243). London: Blackwell Publishers.

Opgenhaffen, M. (2011). Multimedia, interactive and hypertextual features in divergent online news platforms: An exploratory study of Flemish online news: *First Monday*. Retrieved January 21, 2015, from http://firstmonday.org/ojs/index.php/fm/article/view/2826/2814

Purcell, K., Rainie, L., Mitchell, A., Rosenstie, T., & Olmstead, K. (2010, February 28). Understanding the Participatory News Consumer. Retrieved Jan 5, 2015, from http://www.pewinternet.org/2010/03/01/understanding-the-participatory-news-consumer/

Stanton, J. M. (1998). An empirical assessment of data collection using the Internet. *Personnel Psychology, 51* (3), 709–725.

Sasseen, J., Olmstead, K., & Mitchell, A. (2013). Digital: As mobile grows rapidly, the pressures on news intensify. *The State of the News Media 2013: An Annual Report on American Journalism*. The Pew Center’s Project for Excellence in Journalism. Retrieved Mar 5, 2015, from http://stateofthemedia.org/2013/digital-as-mobile-grows-rapidly-the-pressures-on-news-intensify/

Stempel, G., Hargrove, T., & Bernt, J. (2000). Relation of Growth of Use of the Internet to Changes in Media Use from 1995 to 1999. *Journalism & Mass Communication Quarterly, 71-79.*
Strommen, L.T., & Mates, B.F. (2004). Learning to love reading: Interviews with older children and teens: students in sixth and ninth grades were surveyed to determine attitudes toward reading and identify factors associated with the development of a love of reading. *Journal of Adolescent & Adult Literacy, 48*(3), 188-201.

Taylor, H. (2000). Does Internet research work? Comparing electronic survey results with telephone survey. *International Journal of Market Research, 42*(1), 51–63.

Tewksbury, D. (2003). What do Americans really want to know? Tracking the behaviors of news readers on the Internet. *Journal of Communication, 694-710.*

The Internet News Audience Goes Ordinary. (1999, January 13). Retrieved November 24, 2014, from http://www.people-press.org/1999/01/14/the-internet-news-audience-goes-ordinary/

Veglis, A. (2005). Implementation of a computer supported collaborative work system in a newspaper. *SEAS Transactions on Information Science and Applications, 2*(7), 891-902.

Wathen, C., & Burkell, J. (2002). Believe it or not: Factors influencing credibility on the Web. *Journal of the American Society for Information Science and Technology, 53*(2), 134-144.

Wellman, B. (1997). An electronic group is virtually a social network. In S.Kiesler (Ed.), *Culture of the Internet* (pp. 179–205). Mahwah, NJ : Lawrence Erlbaum.

Witmer, D. F., Colman, R. W., & Katzman, S. L. (1999). From paper-and-pencil to screen-and-keyboard: Toward a methodology for survey research on the Internet. In S.Jones (Ed.), *Doing Internet Research: Critical Issues and Methods for Examining the Net* (pp. 145–161). Thousand Oaks, CA : Sage.

Yun, G. W., & Trumbo, C. W. (2000). Comparative response to a survey executed by post, email, and web form. *Journal of Computer-Mediated Communication, 6*(1).