# **WORK TRENDS**

AMERICANS' ATTITUDES ABOUT WORK, EMPLOYERS AND GOVERNMENT

# Nothing But Net:

American Workers and the Information Economy

#### A Joint Project of the

John J. Heldrich Center for Workforce Development at Rutgers, The State University of New Jersey

Center for Survey Research and Analysis at the University of Connecticut

February 2000 v.2.1

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February 2000

Embargoed for Release: February 10, 2000, 9:00am ET

\$10.95

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### Background

#### The John J. Heldrich Center for Workforce Development

The John J. Heldrich Center for Workforce Development at the Edward J. Bloustein School of Planning & Public Policy at Rutgers was founded as a research and policy organization devoted to strengthening New Jersey's and the nation's workforce during a time of global economic change. The Heldrich Center researches and puts to work strategies that increase worker skills and employability, strengthen the ability of companies to compete, create jobs where they are needed, and improve the quality and performance of the workforce development system.

The need to improve worker skills has become a crosscutting issue in the information age. Whereas in the 1950s, six in ten workers were unskilled, today, more than 60 percent of the workforce is skilled and less than 20 percent unskilled. According to Coopers and Lybrand, in 1997 nearly 70 percent of growth company CEOs pointed to the lack of skilled workers as the number one barrier to growth—a figure that had doubled since 1993. Despite the need, U.S. investment in workforce education and training trails other leading democracies.

The transformation to a new economy driven by knowledge and its application has thrust workforce investment strategy to the forefront of domestic policy. In globally competitive labor markets, workers who lack basic skills and literacy are in greater danger than ever before. Urban planning and redevelopment strategies cannot ignore the role of education and work skills in preparing young adults to compete for new jobs in the emerging service, retail, and technology sectors. Similarly, the nation's long debate over public school reform must acknowledge that our nation's "forgotten half" of young people not attending college need help now to access the economic and social mainstream.

While workers with skills and the determination to keep them sharp are in heavy demand, huge numbers of adults still cannot read, write, or perform basic math functions effectively. A fifth of working Americans have a zero or minimal literacy level in reading and math. Job seekers and young people entering the workforce need solid literacy and numeracy skills, and they need to use them to acquire the job-specific and careerbuilding skills that will give them access to good jobs.

The Heldrich Center is the first universitybased organization devoted to transforming the workforce development system at the local, state, and federal levels. The Center identifies best practices and areas where government performance should be improved, and provides professional training and development to the community of professionals and managers who run the system and are responsible for making it work. The Center provides an independent source of analysis for reform and innovation in policy making and is engaged in significant partnerships with the private sector to design effective education and training programs.

#### The Center for Survey Research and Analysis

Two years ago, the University of Connecticut announced the formation of its new **Center for Survey Research and Analysis (CSRA)**, thus strengthening its focus on conducting original survey research. The Center is an outgrowth of the tremendous success of original survey research conducted under the aegis of the Roper Center/Institute for Social Inquiry. For twenty years, Roper Center/ISI had conducted high quality, high profile original research; this tradition is being continued and expanded.

The Center, a nonprofit, non-partisan

To better understand the public's attitudes about work, employers and the government, and improve workplace practices and policy, the Heldrich Center and the CSRA produce the *Work Trends* survey on a guarterly basis.

> research and educational facility, is a leader in conducting important public opinion research in the public and private sectors. CSRA staff have completed more than 300 survey projects, for a wide variety of clients, in the twenty years of survey research at UConn.

The Center for Survey Research and Analysis has extensive experience in surveying special populations, including studies of Members of Congress, journalists, business owners and managers, parents, teen-agers, college seniors, and university faculty.

In addition to quantitative research, CSRA also conducts in-depth qualitative research, including nationwide focus groups, one-on-one interviewing, and case studies. The staff has worked with clients to develop strong secondary research programs in support of on-going research in a variety of fields. Expert statisticians are also available for additional analysis of original and secondary data.

CSRA strictly adheres to the code of ethics published by the American Association of Public Opinion Research, which, among other things, requires us to fully divulge our research methods, treat all respondents with respect and honesty, and insure that our results are not presented in a distorted or misleading manner.

During the past three years staff now affiliated with CSRA have conducted more than seventy national, regional and local survey projects.

To better understand the public's attitudes about work, employers and the government, and improve workplace practices and policy, the Heldrich Center and the CSRA produce the *Work Trends* survey on a quarterly basis. The survey polls the general public on critical workforce issues facing Americans and American businesses, and promotes the survey's findings widely to the media and national constituencies.

# **Executive Summary**

#### Introduction

As the nation records its longest economic expansion in history, there are profound changes occurring in the workforce and in the workplace. The "new economy" has been forged with explosive growth in high tech jobs and the mass application of information technologies in the workplace. Nothing But Net: American Workers and the Information Economy explores the implications of the information economy for American workers. The report focuses on workers' experience with computers in the workplace, workers' perceptions about their future in the information economy, and the role of government in the information age.

This report also maps the landscape of computer access and use among American workers and finds distinct categories of workers based on their access and use of computers and the Internet. Refining the concept of the "digital divide" put forth by the U.S. Department of Commerce and covered extensively in the media, *Nothing But Net* classifies workers into five categories based on their degree of computer use: Digital Exiles, 9-5 Users, Browsers, Power Users, and Technophiles.

Nothing But Net is the fifth in a series of Work Trends reports by the John J. Heldrich Center for Workforce Development at Rutgers, the State University of New Jersey and the Center for Survey Research and Analysis at the University of Connecticut. This survey of 1005 adults was conducted from January 5 through January 19, 2000 and has a sampling error +/- 3%.

#### Computers and Work

Computer use is now routine among American workers and a large part of their daily work life. The majority (68%) of workers uses a computer every day and has access to a computer at home. On average, the American worker spends 35% of his/her workday (3 hours) on the computer and 23% of his/her workday on the Internet.

Most workers using a computer (87%) report using it for work-related activities and claim they are not abusing their workplace access to computers and the Internet. Just 16% of workers report that they pay bills, shop on-line, or play games at work. Those having access to the Internet at work report that 82% of the time they spend on the Internet at work is for work-related functions.

On average, the American worker spends 35% of his/her workday (3 hours) on the computer and 23% of his/her workday on the Internet.

Despite this widespread use of computers, American workers have a strong desire to use the computer for additional applications. One of the most attractive computer applications to workers is the option to telecommute at least part of the week. A significant number (41%) of workers believe that they could perform their job as a telecommuter, yet only 16% of employers offer this option and only 9% of all workers actually telecommute. Almost half (47%) of all workers agree that government should offer tax breaks to employers who give workers the opportunity to work from home or another location outside the office.

Workers are also interested in distance learning, a technology application with the potential to provide workers with the skills needed in the new economy. Although the majority (61%) of workers would like to receive education or training via distance learning, only a fourth (26%) of workers have participated in such an opportunity.

#### *Optimism about Technology and the Economy*

Unlike past technology innovations that have alienated large numbers of workers, the information technology revolution seems to have garnered support among all workers regardless of age, gender, race, income level, or education level. The vast majority of American workers believe that new information technologies such as the Internet are good for the economy, that the jobs created by the information economy are good jobs, and that computers have changed their lives for the better.

Unlike past technology innovations that have alienated large numbers of workers, the information technology revolution seems to have garnered support among all workers regardless of age, gender, race, income level, or education level.

> This optimism about the economy has somewhat quelled workers' concern about their job security. *Nothing But Net* finds that 62% of workers indicate that they are at least somewhat concerned about job security, while 37% say they are not at all concerned. These percentages represent a 9% decrease from February 1999 and a 25% decrease from September 1998 when 87% of workers were concerned about their job security.

# The Role of Government in the Information Economy

American workers clearly want a proactive government to provide leadership and offer fiscal incentives to both the education and private sectors in order to stimulate their use and widespread adoption of information technologies. The public policies receiving the strongest support among workers include requiring all high school students to be computer literate as a condition of graduation and having the government provide subsidies to schools in low-income neighborhoods to assist them in purchasing computers and connecting to the Internet. In addition to supporting these education reforms, workers support government tax incentives for employers who offer computer skill training or the opportunity to telecommute.

#### Conclusion

Continued economic expansion for the country and individual prosperity depend on workers' ability to effectively use computers, the Internet, and other technology applications. Deepening public understanding about technology in the workplace provides important insights for employers, policymakers, and workers as they develop ways to provide better access to technology for all Americans, expand distance learning opportunities, and increase opportunities for workers to telecommute.

## **1. Introduction**

As the nation records its longest economic expansion in history, there are profound changes occurring in the workforce and in the workplace. The "new economy" has been forged with explosive growth in hightech jobs and the mass application of information technologies in the workplace. The information technology sector (computing and communications) accounts for over 8% of the national economy and 15% of the rise in gross national product.<sup>1</sup> Today, there are over 100 million adults using the Internet<sup>2</sup> and the computer and data processing industry is the fastest growing industry in America<sup>3</sup>. Clearly, the technology revolution is here.

Despite a heightened mindfulness about technology derived from the barrage of "dot.com" advertisements, the mass application of computers and email, and the media's attention on technology issues ranging from the "digital divide" to Wall Street technology stocks, little is known about how access to and the use of information technologies affect the daily lives of American workers and their workplace.

Nothing But Net: American Workers and

the Information Economy explores the implications of the information economy for American workers. This report focuses on workers' experiences with computers in the workplace, workers' perceptions about the impact of information technology on their jobs and the economy, and the role of government in the information age. Continued economic expansion for the country and individual prosperity depend on workers' ability to effectively use computers, the Internet, and other technology applications. Deepening our understanding about

Nothing But Net: American Workers and the Information Economy explores the implications of the information economy for American workers.

technology in the workplace will provide important insights useful for employers, policy-makers, and workers now managing their own careers in the new economy.

<sup>&</sup>lt;sup>1</sup> "The Emerging Digital Economy," Department of Commerce, April 1998.

<sup>&</sup>lt;sup>2</sup> "Internet Use Trends: Mid-Year 1999," The Strategis Group, October 1999.

<sup>&</sup>lt;sup>3</sup> "Labor Market Projections: 1996–2006," U.S. Bureau of Labor Statistics.

### 2. Mapping the Digital Landscape

Access to computers and the way in which computers are used varies greatly among American workers. Workers that do not use computers differ strongly in their opinions from regular computer users about the costs and benefits of technology and the appropriate role of government in the information economy. Although research and media attention about the "digital divide" illustrates the important gap between those with access to computers/Internet and those without access, computer use, and literacy is not an 'all or nothing' problem. Some workers have computers at home; others do not. Some workers only use the computer for data input at work while others conduct research on-line, send emails to co-workers, and write reports. Even among workers who frequently use computers, some shop and bank on-line while others only use computers for email and browsing the Internet.

For the purposes of this report, American workers are broken into 5 categories along this "digital landscape"—Exiles, 9-5 Users, Browsers, Power Users, and Technophiles.

> The variance among workers with different degrees of computer use is as significant as the variance among workers with different education levels, incomes, or racial/ ethnic backgrounds. In order to highlight these differences, this report classifies workers and response data into 5 categories depending on the degree to which they use computers. This classification system will be used in the analysis throughout the report much like demographic classifications such as age groups or income levels.

> For the purposes of this report, American workers are broken into 5 categories along

this "digital landscape"—Exiles, 9-5 Users, Browsers, Power Users, and Technophiles. Descriptions of each group and their frequency within the American working population are listed in figure 2.1.

In addition to their computer use, these different groups along the technology landscape tend to have different professional and demographic profiles. The report finds that Power Users and Technophiles are likely to be younger, more educated, have higher incomes, work for large companies, and hold jobs in professional, managerial, or technical occupations.

The Nothing But Net analysis finds that Technophiles tend to work in professional (39%), technical (17%), or managerial occupations (17%) as compared to Exiles who are more likely to work in service (29%), professional (27%), or manufacturing (8%) occupations. Technophiles and Power Users are also more likely to work for employers with more than 250 employees.

In addition, a strong correlation exists between technology use, education level, and income. Power Users and Technophiles have higher incomes and education levels than the other groups along the digital landscape. This portrayal of how education level, income level, gender, and race describe the continuum of computer use (figure 2.2) supports and refines the concept of the "digital divide." In addition to the findings of the U.S. Department of Commerce about access to technology, these results and others throughout this report deepen understanding of the multiple gaps in how and where technology is used.

The survey finds a significant difference in race between Exiles and Technophiles, but discovers no correlation between race and technology use among the middle groups— 9-5 Users, Browsers, and Power Users. Clear relationships exist, however, when examining income and education. The farther along the digital landscape, the greater the average income level and educational attainment.

#### Fig. 2-1: The Digital Landscape

Digital Landscape Classification	Characteristics Used to Classify Workers	Percentage of Workers
Exiles	<ul> <li>Have not used a computer in the last month</li> </ul>	19%
9-5 Users	<ul><li>Have used a computer in the last month</li><li>No home access to a computer</li></ul>	17%
Browsers	<ul> <li>Used a computer in the last month</li> <li>Home access to a computer</li> <li>Have not necessarily used a computer every day</li> <li>Have used computer for some but not all applications such as email, the Internet, word processing, and getting news/information.</li> </ul>	22%
Power Users	<ul> <li>Have used a computer in the last month</li> <li>Home access to a computer</li> <li>Have used a computer every day</li> <li>Have used a computer for some all the following applications: email, the Internet, word processing, and getting news/information.</li> <li>Do not bank and shop on-line.</li> </ul>	25%
Technophiles	<ul> <li>Have used a computer in the last month</li> <li>Home access to a computer</li> <li>Have used a computer every day</li> <li>Have used computer for some all the following applications: email, the Internet, word processing, and getting news/information.</li> <li>Do bank and shop on-line.</li> </ul>	16%

#### Fig. 2-2: Demographic Characteristics of the Digital Landscape Groups

Digital Landscape Classification	% Over age 50	% Black	% Earning \$40,000 (+)	% With a Bachelor's Degree or More	% Working for a Company of 250 (+)
Exiles	31%	13%	51%	12%	27%
9-5 Users	26%	16%	55%	30%	48%
Browsers	19%	5%	72%	33%	34%
Power Users	17%	9%	82%	54%	51%
Technophiles	18%	7%	88%	63%	52%
Total Working Population	22%	9%	62%	39%	43%

### **3. How American Workers Use Computers**

The widespread use of computers in the workplace has changed the experience of work and presented new challenges for workers, executives, and managers. Computer use is now standard among American workers and a large part of daily life for many. Nothing But Net finds that the vast majority (81%) of American workers used a computer in the past month and 68% use a computer every day. In addition, a significant number (68%) of workers have access to at least one computer at home and close to a quarter (23%) have access to more than one computer at home. Although computer use is widespread, great variation exists among workers in their access to computers, their use of computers at work and at home, and their perceptions about the role of technology in their work lives. The following section will profile how and where American

Fig. 3-1: How American Workers Learned to Use a Computer



workers use computers, and highlight important differences in computer use among workers of different age groups, incomes, and racial backgrounds.

#### Computer Use at Work and Home

In this survey, American workers report using computers at work and home for a variety of applications including word processing, email, browsing the Internet, getting news and information, shopping, banking and financial management, and other work-related activities. Most workers (81%) have used a computer at least once a month either at home, work, or school with 80% using a computer at least once a week and 68% of workers using one each day.

Almost half of all workers learned to use a computer through informal means with 41% having taught themselves and 6% learning from family or friends. The balance of workers learned to use a computer through more formal channels at school (26%) or work (23%).

Respondents report spending a significant percentage of their time at work on the computer. On average, American workers report spending approximately 9 hours a day at work and about three hours on the computer. Almost three-fourths (70%) of workers surveyed report that they use computer at work at least one hour a day with 36% of workers stating that they spend at least half their work day on the computer.

Most (87%) workers using a computer at work report using it for job-related activities. They say their most frequently used applications are email (80%), word processing (80%), and browsing the Internet (77%). Despite the apparent temptation to use the computer and the Internet for applications not related to work (i.e. surfing the Internet, shopping on-line, or playing computer games), workers report that they do not abuse this access. For example, less than 16% of workers report that they pay bills, shop on-line, or play games at work. A much greater percentage of workers use the computer for applications such as email and Internet browsing that may or may not be for workrelated functions. Over half (57%) of workers indicate that they use email at work while close to half browse the Internet (45%) and get news or information (46%).

One-third of all workers (including those who have no computer access) spend at least

Computer use is now standard among American workers and a large part of daily life for many.

one hour a day on the Internet. When looking at just the population of American workers with access to a computer and the Internet at work, the intensity of use is even greater. Among the workers who use computers and the internet, over half (51%) spend at least one hour on the Internet and 21% spend at least half their workday on the Internet.

#### Fig. 3-2: How and Where American Workers Use Computers



#### Fig. 3-3: Computer/Internet Use by Age



Use a computer at least part of the work day Use the internet at least part of the work day

> Those using the Internet indicate that the majority (82%) of their time spent (at work) on the Internet is for work-related purposes. One of the most popular uses of computers and the Internet is email. Of workers who use a computer at work, 76%

In particular, there is a dramatic increase in computer use once workers receive education beyond high school.

> have email and receive approximately 9 emails per day. Interestingly, more than one-fourth (28%) of all workers agree that they use email as their primary means of

communicating with others during the workday.

#### Variations by Use, Age, Education, and Income

The amount of time respondents use a computer at work varies greatly as one surveys the digital use landscape. Among workers who spend more than half of their workday using a computer, 60% are Technophiles, 45% are 9-5ers, 44% are Power Users, and 29% are Browsers. Power users and Technophiles also spend the largest percent of time on the Internet. Only 21% of Technophiles and 33% of Power Users indicate that they spend no part of their workday on the Internet, compared to 71% of Browsers and 65% of 9-5ers who do not access the Internet at work.

Several factors influence the amount of time a worker spends using a computer during the workday, including age, education, and income. For example, older workers tend to use the computer less and access the Internet less during a typical day at work.

In addition, workers earning low incomes are less likely to use computers and the Internet than those in higher income brackets. More than half (57%) of workers earning less than \$40,000 per year use a computer during their workday compared to more than two-thirds (77%) of workers earning more than \$40,000 per year. Internet use follows a similar pattern. Less than half (43%) of workers earning less than \$40,000 per year surf the Internet each day compared to 58% of workers earning more than \$40,000 per year.

Finally, workers with different education levels use the computer with varying frequency; the higher the education level, the more likely a worker is to use the computer during his/her workday. In

Fig. 3-4: Computer Use by Education Level





particular, there is a dramatic increase in computer use once workers receive education beyond high school. Only 40% of workers with less than a high school education and less than half (49%) of high school graduates use a computer at work. Beyond high school, 71% of workers with at least some college education use a computer during their workday, while the vast majority (90%) of college graduates, and 86% of workers with a post-graduate education use a computer for at least a portion of their workday.

# 4. Worker Aspirations about the Use of Information Technology

The advent of computers, the Internet, and other forms of information technology hold great potential for addressing the needs of

Workers expressed powerful optimism about the impact of technology on the economy. By and large, U.S. workers agree (76%) that new information technology is good for the economy—and 43% strongly agree.

both workers and employers. Despite the widespread use of computers and the Internet, there are many applications of these technologies that have yet to be fully realized throughout the workplaces of America. The following section will examine the use of information technologies for telecommuting, distance learning, and career advancement. In addition, worker perceptions about their current and future computer skill levels will be explored.

Respondents were asked to rate on a scale of 1-10 how strongly they agreed with a number of statements relating to technology including their views about their computer skills, employer-sponsored computer training opportunities, the impact of technology on the future of their job and the whether technology is beneficial to them and the economy. In the following analysis, the term "agree" refers to scores of 6-10 and "strongly agree" refers to scores of 9-10. Scores of 0-4 indicate 'disagree.'

# Worker Confidence in the New Economy

A strong mood of worker confidence and optimism in the New Economy and the high-tech workplace is woven throughout the Nothing But Net survey. The economy's strong performance is being heard loud and clear by workers who have little fears of technological job displacement and embrace the job opportunities of a New Economy that is not only emerging—but arrived.

Nearly all (87%) of workers report that there has been no reduction of jobs at their workplace in the last year as a result of technological change replacing workers. Eightynine percent of workers strongly disagree that a computer or some sort of technology will replace their job within the next three years. Even older workers feel confident about the high-tech workplace: 74% of workers age 65 and older disagree that their job will be replaced by technology within the next three years.

A majority (58%) of workers surveyed even agree that the computer has changed their lives for the better (29% strongly agree with this statement). Technology use does matter here. Digital Exiles by a large margin strongly disagree that the computer has changed their life for the better (59%), while 83% of Technophiles and 77% of Power Users agree or strongly agree with the statement. Lower income workers (less than \$40,000) are also less enthusiastic about the computer's affect on their lives (only 46% agree or strongly agree) compared to 66% for better-off workers who agree and strongly agree.

Workers expressed powerful optimism about the impact of technology on the economy. By and large, U.S. workers agree (76%) that new information technology is good for the economy—and 43% strongly agree. Confidence is secure across the diverse quilt of American life—through income, gender, and ethnic categories.

Overall, 81% of lower wage earners (below \$40,000) and 68% of higher wage workers agree or strongly agree that new technology is good for the economy. In addition, 79% of men and 73% of women agree or strongly agree with the statement. Eighty percent of Blacks agree or strongly agree (52% strongly agree), and 76% of Whites agree or strongly agree about the impact of technology. Even 70% of adults over age 65 agree or strongly agree. In a related question, 68% of workers agree or strongly agree that the new jobs being created by information technology are good jobs. Only 8% of workers surveyed disagree with this positive assessment.

#### The Telecommuting Opportunity

Information technology holds the potential to liberate workers from their tether to the traditional, physical office. Using phone, FAX, and computer, workers can telecommute to their job from home or another location outside the workplace. This option is becoming increasingly attractive to workers for a number of reasons including increased worker productivity and job satisfaction. The technology is now available to make home computer equipment as fast and powerful as office computer systems, and by telecommuting, many workers can reduce their commute times and better balance work and family.

Nothing But Net finds that a significant number of today's workers are recognizing these benefits and expressing strong interest in telecommuting. Although not all jobs can be accomplished away from the office, 41% of workers say they could perform their job





\* Do not telecommute

Expressing further support for telecommuting options, many workers indicate that they believe incentives should be put in place to encourage or reward telecommuters and their employers. Almost half (47%) agree that government should offer tax breaks to employers who offer workers the opportunity to work from home or another location outside the office.

> at a place other than their current place of employment if they had access to a phone, FAX, and a computer with Internet access. However, not all workers who can perform their job away from the office have the opportunity to do so.

Less than one fifth (16%) of workers say their employer offers them the option of telecommuting, either from home, another

Fig. 4-2: Telecommuting Potential by Education Level



location, or both. The number of employers offering the telecommuting option has remained relatively steady since February 1999, when an earlier *Work Trends* survey found that 17% of employees indicated they had this option.

This survey also shows a slight increase (though statistically insignificant) in the number of workers who say they telecommute since February 1999. In *Nothing But Net*, 9% of workers say they telecommute at least one day a week as compared to 8% from the February 1999 survey. Clearly, a mismatch exists between the number of workers who indicate they could telecommute and the number who actually do so.

Of those workers in the current survey who have the opportunity to telecommute, 37% do not exercise the option, 18% telecommute one day per week, and a fifth (20%) telecommute two to four days per week.

Despite the reluctance of many employers to offer their employees the option to telecommute, Nothing But Net finds that telecommuting offers important benefits to both employees and employers including increased worker productivity and higher job satisfaction. Close to half (40%) of employees who telecommute report being more productive when they telecommute, and 27% indicate that they are much more productive. Only 16% of workers believe that they are less productive when working from a location other than the office. Likewise, many telecommuters report increased job satisfaction. Among workers who do not telecommute, 83% report being satisfied with their job. Among workers who have the option of telecommuting from another location, 87% are satisfied. Among workers whose employer offers them the option of telecommuting from home, 89% report being satisfied with their job. Those workers who can telecommute from home and another location, 95% report being satisfied with their job. Employees with the most telecommuting options appear



#### Fig. 4-3: Telecommuting Potential along the Digital Landscape

to be the most satisfied with their jobs. Past *Work Trends* surveys have also found that telecommuting can help employees balance the demands of work and family.

Expressing further support for telecommuting options, many workers indicate that they believe incentives should be put in place to encourage or reward telecommuters and their employers. Almost half (47%) agree that government should offer tax breaks to employers who offer workers the opportunity to work from home or another location outside the office.

Despite significant support for telecommuting among workers, not every employee has an equal opportunity to take advantage of this strategy. Results from Nothing But Net are consistent the February 1999 Work Trends: Balancing Work and Family in describing the gaps between telecommuting potential and opportunity among workers of different education and income levels. Workers with a higher level of education are the most likely to report that they can perform their job from someplace other than the workplace, with 46% of college graduates and 48% of workers with a post graduate degree holding positions they believe can be performed outside the office. In comparison, only 35% of people with a high school education think they could perform their job functions at a place other than work.

The ability to telecommute does not necessarily mean workers have the option of telecommuting because few workers (16%) are employed at companies offering a telecommuting program. Those that are offered this opportunity tend to be more educated. College graduates and workers with a post graduate degree are the most likely to work for an employer that offers Workers express a significant degree of interest in distance learning, although the majority of workers have yet to engage in distance learning opportunities.

the option of telecommuting (21% and 25%, respectively).

In examining the opportunity to telecommute among different groups of workers along the digital landscape, workers who use technology more frequently are much more likely to hold jobs that can be performed outside the traditional office setting. Nearly half (49%) of Power Users and 55% of Technophiles say they could do their job from another location. In contrast, only 30% of Exiles and 32% of Browsers indicate that they could perform their job outside the office. Working for an employer who offers a telecommuting program also varies significantly among those in different groups along the digital landscape with 28% of Technophiles and 21% of Power Users saying their employer offers them the option and only 9% of Exiles and 11% of 9-5ers and Browsers indicate they have this same option.

#### Distance Learning

Computers and technology now allow workers to conduct business in places other than the office. This same technology also allows people to learn in places other than a traditional classroom. "Distance learning" occurs when instruction is transmitted to students via audio, video, or computer to individuals located at one or more places in a variety of educational settings. In a time when companies struggle to attract and retain workers





with computer skills, distance learning provides a unique opportunity to meet these demands by training workers about computers with computers.

Workers express a significant degree of interest in distance learning, although the majority of workers have yet to engage in distance learning opportunities. Slightly more than one-fourth (26%) of all respondents have participated in distance learning. However, 61% of workers express interest in receiving education and training by distance learning in the future.

Not surprisingly, people more familiar with technology express higher interest in distance learning and are more likely to have participated in a distance learning opportunity. Power Users and Technophiles are the most likely to have participated in some type of distance learning and express the most interest in pursuing distance learning in the future. More than one-third (35%) of Technophiles and 39% of Power Users have participated in some type of distance learning activity, and 72% of Technophiles and 69% of Power Users would like to participate in a distance learning activity in the future. In contrast, only 9% of Exiles have had any distance learning experience despite the high number (45%) who express interest.

Experience and interest in distance education also vary considerably by education level and income. College graduates and post-graduates are the most likely to have participated in distance learning (33% and 43%, respectively) compared to only 15% of high school graduates. In addition, 67% of college graduates and 64% of workers with a post-graduate degree have an interest in participating in distance learning in the future.

Similar trends emerge when examining income levels. Almost one-third (30%) of workers earning more than \$40,000 per year have participated in distance learning while only 19% of workers earning less than \$40,000 per year have done so. The gap in distance learning experience is not a result of a difference in motivation, however. Although workers who make less money are less likely to have participated in distance learning activities, they express equal interest in doing so in the future. Almost twothirds (61%) of all workers, regardless of income, express interest in pursuing distance education opportunities in the future.

# Career Management Using the Internet

In addition to working outside of the office and obtaining valuable skills via distance learning, information technology can be used to help workers manage their career. The last few years have seen a proliferation of Internet career management and job sites where companies post jobs and job seekers can post resumes and search for employment. Despite high rates of Internet access among workers, this technology application does not engender as much enthusiasm among workers as telecommuting or distance learning. Less than a third of workers strongly agree that they will use the Internet when looking for job in the future.

The likelihood of using the Internet for a job search varies considerably when looking at workers from different ages, income levels, and placement along the digital landscape. The degree of technology use among workers has an impact on their likelihood of strongly agreeing to take advantage of this technology in the future. Half (51%) of all Technophiles and 38% of Power-Users strongly agree that they will use the Internet for their next job search as compared to only 12% of Exiles, 23% of 9-5ers, and 21% of Browsers.

When comparing views between income levels, those that earn more than \$40,000 are more likely than those that earn less than \$40,000 to agree that they will use the Internet to look for a job. In fact, those that earn less than \$40,000 are almost twice as likely as those that earn over \$40,000 to strongly disagree that they will use the Internet in their next job search (29% vs.18%).

Digital Landscape Classification	<b>Strongly agree</b> that I have the that I have the necessary skills to do my job	<b>Strongly agree</b> that my employer does a good job of providing computer training	<b>Strongly agree</b> that I need more computer skills to achieve my career goals	<b>Strongly agree</b> that I plan on using the Internet to assist my next job search
Fxiles	26%	8%	25%	12%
9-5 Users	69%	30%	34%	23%
Browsers	58%	23%	28%	21%
Power Users	69%	30%	26%	38%
Technophiles	77%	37%	23%	51%
Total Population	61%	26%	27%	29%

#### Figure 4-5: Digital Landscape and Technology Perceptions

More than a third (35%) of 18-29 year olds strongly agree that they will use the Internet to assist them in finding a job. Blacks strongly agree that they will use the Internet for job searching more readily than Whites (34% vs. 27%). In contrast, 68% of adults over 65 and 45% of 50-64 year olds strongly disagree.

#### Computer Skills and Training

In Nothing But Net, 77% of workers agree or strongly agree (61% strongly agree) that they have the necessary computer skills to perform their current job. Workers with the most technology use, more educated workers, and younger workers, all show high levels of confidence in their technology skills:

- The vast majority (77%) of Technophiles, Power Users (69%) and Browsers (69%) strongly agree that they have the necessary computer skills compared to just 26% of Exiles.
- The majority (84%) of workers age 18-29 and 76% of workers age 30-49 believe they have the necessary computer skills to perform their current job, while older workers are less confident in their skills. Sixty-nine percent of workers age 50-64, and 59% of workers age 65 or older

believing their skills match the requirements of their current job.

- The vast majority of college and post college graduates express a high level of confidence in their computer skills (90% and 91%, respectively). Workers with less formal education are less confident of their skills, with 58% of high school graduates and only 51% of workers with less than a high school education agreeing that they have the necessary computer skills to perform their current job.
- Income levels are also linked to confidence about job skills. Just more than half (56%) of those that earn more than \$40,000 per year strongly agree that they have the necessary computer skills to perform their current job compared to 45% of those that earn less than \$40,000.

While workers by and large believe they have the necessary computer skills to perform their current job, many recognize the need to stay abreast of new technologies as they manage their careers. About half (49%) of workers agree or strongly agree they will need more computer skills to achieve their career goals—although more than a third (35%) of workers disagree that they will need more skills.

# Employers and Training Opportunities

In Nothing But Net, workers were asked about the availability of computer training opportunities at work-an important tool of opportunity in the changing high-tech workplace. The survey finds that nearly half (44%) of workers disagree that their employer does a good job of providing them with computer training opportunities. Workers with less technology experience express the strongest concerns about employer training: nearly three-quarters (73%) of Exiles and almost half (49%) of Browsers disagree that their employer does a good job of providing them with computer training opportunities. Conversely, about two-thirds of 9-5ers, Power Users, and Technophiles believe their employers does a good job of providing training. Further, 36% of those that earn less than \$40,000 a year strongly disagree that their employer does a good job of providing computer training compared to 21% of those earning over \$40,000-with other workers having a neutral stance.

While workers by and large believe they have the necessary computer skills to perform their current job, many recognize the need to stay abreast of new technologies as they manage their careers.

As was found in the July 1999 Work Trends survey, Working Hard But Staying Poor, these data indicate that workers in danger of being left behind are eager to acquire the skills necessary to improve their chances and earnings in the economy and workplace.

Despite their employers' poor performance in providing training, workers are still relying on them to get any additional computer training they need. Only 25% of workers agree that they plan on enrolling in a computer training course **not** offered by their employer in the next twelve months, with only 12% strongly agreeing they will seek outside training.

### 5. Public Policy and Lifelong Learning

American workers believe that government should play an active role in fostering the use of technology to improve the lives of current and future workers—in certain areas more than others. In particular, workers feel strongly about the government providing leadership and fiscal incentives to improve the education system and to encourage employers to offer computer training and telecommuting opportunities.

As with other areas in the survey, Nothing But Net asked workers to rate a number of public policy statements on a scale of 1–10, with 1 meaning they strongly disagree and 10 meaning they strongly agree. The following table displays the average score among those surveyed. Those public policies with the highest average score are the ones with the strongest support among American workers.

The high number of policies with average (mean) values over 5 shows that workers are generally in favor of government working as their partners in their quest for lifelong learning in the New Economy, although respondents express strong support principally for improving the computer literacy of children, particularly those living in low-income communities. In fact, over half (54%) of the respondents said they strongly support (score of 9 or 10) computer literacy requirements in high schools and half (50%) strongly support subsidizing low-income schools to purchase computers and Internet access. Working Americans are most comfortable seeing government intervene at earlier stages of life and education.

Interestingly, the support for these public policies does not vary significantly based on income or upon placement along the digital landscape. Over half of both the Technophiles and Exiles as well as over half of those earning less than \$40,000 and those earning more than \$40,000 strongly support government subsidizing low-income schools in order to purchase technology.

For some public policies, the intensity of support does vary based on gender and race, however. The one question with a gender difference asks whether or not to subsidize

Policy Statement	Average Score (mean) on a scale of 1-10
High schools should require all students to be computer literate as a condition of graduation	7.73
The government should provide subsidies to schools in low-income areas so they can purchase computers and be connected to the Internet	7.63
Government should provide tax breaks to employers who offer computer training for their employees	5.99
Government should offer tax breaks to employers offering telecommuting opportunities	5.60
Government should offer education tax credits to anyone enrolled in a computer course	5.39
Colleges and Universities should only admit students who are computer literate.	2.12

Fig. 5-1: Workers	' Support	for Public	Policies
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low-income schools to purchase technology, and women are more likely to strongly agree that the government should provide this benefit with over half (57%) of women workers supported this policy and compared to 44% of men.

Based on the results from this survey, Blacks are more likely to strongly support an activist government than Whites. Black workers were much more likely to strongly support high school computer literacy requirements (62% to 52%), tax breaks for employers who offer computer training (38% to 23%), tax breaks for telecommuting In fact, over half (54%) of the respondents said they strongly support (score of 9 or 10) computer literacy requirements in high schools and half (50%) strongly support subsidizing low-income schools to purchase computers and Internet access.

(34% to 25%), education tax credits for those taking computer training (32% to 17%), and subsidies to low-income schools to purchase technology (72% to 46%).

### 6. Views on Job Satisfaction and the Economy

As the nation's economic boom continues and the unemployment rate remains low, American workers continue to report high levels of job satisfaction and job security and low levels of concern about the current state of the economy. However, workers report less job satisfaction in this study, than in other surveys in the Work Trends series, which began in 1998. While 84% of workers now say they are satisfied with their jobs overall (with 51% reporting they are "very satisfied"), this represents a seven point decline from the September 1999 survey that reported 91% of workers were satisfied (with 59% reporting they were "very satisfied"). This also represents a drop from one year ago when 88% said they were satisfied with their job overall (54% reported they

#### Fig. 6-1: Overall Job Satisfaction



were "very satisfied").

In addition, the level of worker satisfaction from year-to-year has dropped compared to past surveys. When asked if they are "more," "about as", or "less satisfied" with their job compared to a year ago, more workers than in any other year report that their job satisfaction has remained status quo. Forty-two percent say they are "about as" satisfied with their current job situation compared to a year ago; 39% report they are "more satisfied;" and 18% say they are "less satisfied." In the February 1999 *Work Trends*, 46% of workers said they were more satisfied from the year before.

Over the last year and a half, the Work Trends series has in part documented the downsides of the economic boom-people working more hours, feeling they are not being compensated for their efforts, and the ever-growing stress of balancing work and family. One explanation for the dropping job satisfaction figures amidst general good feelings may be the boom itself. As the good times continue, workers enjoy the buffer of relative job security and earnings-and begin to look more closely at other aspects of their work life and their future needs. If the expansion continues, satisfaction levels may lessen as workers adjust to the norms of the demanding economy and 21st Century work life.

While individual job satisfaction has waned, workers remain sanguine about the nation's job situation as a whole—reflecting the widespread optimism about the economy reflected elsewhere in the survey. When asked to evaluate whether it is a good or bad time to find a quality job, 76%—up from 70% a year ago—said it was a good time. Just 19% said it was a bad time to look for a job compared to 24% in 1999.

In addition to the job market, workers are also more optimistic about job security for the employed compared to previous years. Sixty-two percent say they are concerned about job security and 37% say they are not concerned. This is a nine point drop from 71% who said they were concerned in February 1999 and a twenty-five point drop from 87% who said they were concerned in September 1998.

#### Demographic Comparisons

The survey found a number of noteworthy differences when making comparisons by income, ethnicity, gender, and education about attitudes toward the economy and job security:

• Workers earning over \$40,000 report higher job satisfaction than those that earn less than \$40,000 (87% vs. 76%). Eight out of ten (83%) people earning over \$40,000 say it is a good time to find a job, compared to 62% of those who earn less than \$40,000. Compared to other education groups, the most and least educated are most likely to report that it is a good time to find a job (86% and 85% respectively).

- Workers that have not completed high school report a higher level of job satisfaction (91%) than any other education group. Lower wage workers are more concerned (71%) than higher wage earners (59%) about job security, however.
- Among racial groups, Blacks report the lowest level of job satisfaction (70%). This



#### Fig. 6-2: Digital Landscape and Concern about Job Security & the Unemployment Rate

Concerned about the unemployment rate

One explanation for the dropping job satisfaction figures amidst general good feelings may be the boom itself. As the good times continue, workers enjoy the buffer of relative job security and earnings—and begin to look more closely at other aspects of their work life and their future needs.

> is consistent with previous studies where Blacks have reported lower levels of satisfaction than non-whites across 14 job elements used to rate overall job satisfaction. Blacks are also twice as likely as Whites to say they are "less satisfied" with their jobs this year than last (31% vs.

17%). Consistent with previous *Work Trends* reports, Blacks (73%) and other racial groups (75%) are more concerned about job security than Whites (58%).

- A majority (50%) of younger workers (18-29) say they are "more satisfied" with their current job compared to a year ago the highest of any age group. More than three quarters, (79%) of adults over 65 say they are "about as" satisfied with 51% of 50-64 year olds concurring.
- In the lower technology-use groups (Exiles and 9-5ers), nearly 70% say they are concerned about job security compared to 58% of Browsers and 60% of Power Users and Technophiles.

# 7. Conclusion

Much has been written and said about the soaring fortunes of the New Economy for entrepreneurs, investors, and young hightech engineers. This *Work Trends* report makes it clear that a strong optimism about the information economy pervades the vast and diverse U.S. workforce at every level; workers are embracing the New Economy and looking for employers and government to work with them.

The majority of American workers are on a computer each day for an average of three hours, have access to a computer at home, and use the computer for multiple applications ranging from work tasks to shopping on the Internet. In what is a surprisingly strong trend, the workforce accepts with gusto the realities of job turbulence and chaos preached by the management gurus and economists. Workers are not worried about keeping their jobs; they like the new jobs being created by the information economy; they like what computers are doing for them; they're eager to adapt and learn to keep pace with change.

The workers with the greatest anxiety about the future are those who know they're being left out of the technology revolution, the digital exiles not using or not having access to a computer. As has been seen in other *Work Trends* surveys, low-income workers don't want to sit out the boom, they want to get a skill and move ahead. For everyone, expectations are high.

The prevalent use of computers among American workers seems to have created a heightened awareness about the potential of information technology to solve problems in their workplace and work lives. As the hightech workplace creates new demands and challenges, Americans are turning to those very same technologies to improve their skills and get more control over their economic destiny. In particular, American workers say they want more opportunities to telecommute and participate in distance learning; they want government to do more to connect schools and young children to the Internet and its wealth of opportunities, and to require young people to achieve computer literacy.

The prevalent use of computers among American workers seems to have created a heightened awareness about the potential of information technology to solve problems in their workplace and work lives. As the high-tech workplace creates new demands and challenges, Americans are turning to those very same technologies to improve their skills and get more control over their economic destiny.

The desire to embrace technology in these ways outpaces the opportunities, however. Although most workers are interested in telecommuting and increasing their skills through distance education, the vast majority of American workers have never had the opportunity for either. Perhaps as a response to this gap between desire and experience, workers feel strongly that employers and government should play a more proactive role in fostering use of technology to benefit the worker and the workplace. One reform supported by workers is for government to offer tax incentives to employers who offer computer skill training or the opportunity to telecommute.

Finally, the both experience and perceptions of American workers illustrate troubling differences among workers in terms of their access to and use of information technologies. Despite our nation's digital and economic prosperity, one-fifth of all workers have not used a computer in the last month and approximately 35% of all workers lack access at home. In a series of reports over the last few years, the U.S. Department of Commerce has clearly demonstrated a growing gap between those with access to technology and those without. Nothing But Net: Americans Worker builds upon these findings and describes a digital landscape where workers are categorized along a continuum of computer use. Those on either end of this continuum-the Exiles and the Technophiles-fit the profiles played out in the media in terms of their income, education level, type of job, etc. The majority of

American workers are in the middle of this continuum, however. It is this majority the 9-5 Users, the Browsers, and the Power Users—that are pushing for their employers and their government to respond to their desires and their expectations for their children in the information technology economy.

Information technology holds the potential for offering much needed *solutions at work* in this new economy. As the nation strives to remain competitive in the global economy, upgrade the skills of its workforce, help workers balance work and family, fight poverty, and provide a meaningful education for our children, America's workers suggest that we embrace the technology in our midst and use it to its full potential.

# Appendix 1: Methodology

The survey was conducted from January 5 through January 19, 2000 by the Center for Survey Research and Analysis (CSRA) at the University of Connecticut. This report is based on a total of 1,005 telephone interviews completed with adult members of the workforce in the contiguous United States.

Interviews were conducted at the CSRA's interviewing facility in Storrs, Connecticut, using a **Computer Assisted Telephone** Interviewing (CATI) system. All CSRA surveys are conducted by professional survey interviewers who are trained in standard protocols for administering survey instruments. All interviewers assigned to this survey participated in special training conducted by senior project staff. The draft survey questionnaire and field protocols received extensive testing prior to the start of the formal interviewing period. Interviews were extensively monitored by center staff to insure CSRA standards for quality were continually met.

The sample for this survey was

stratified to insure that regions, as defined by the U.S. Bureau of the Census, were represented in proportion to their share of the total U.S. workforce. Within each of these regions, telephone numbers were generated through a randomdigit-dial telephone methodology to insure that each possible residential telephone number had an equal probability of selection. Telephone banks which contain no known residential telephone numbers were removed from the sample selection process. The sample was generated using the **GENESYS** sampling database under the direction of a CSRA survey methodologist. Once selected, each telephone number was contacted a minimum of four times to attempt to reach an eligible respondent. Households where a viable contact was made were called up to 25 additional times. Within each household one adult was randomly selected to complete the interview.

A total of 1,698 adults received full screening interviews to determine if they were eligible for inclusion in the survey. Respondents were included if they worked full or part time, or if they were unemployed and looking for work. A total of 949 adults were not interviewed because they did not meet the screening criteria. An additional 13 respondents completed partial interviews and asked that the interview be completed after the field period had ended. The results of this report are based on a total of 1.005 complete interviews with members of the workforce. The final results were weighted to match U.S. Department of Labor estimates for age, gender, and employment status for the U.S. workforce.

The sample error associated with a survey of this size is +/- 3%, meaning that there is less than one chance in twenty that the results of a survey of this size would differ by more than 3% in either direction from the results which would be obtained if all members of the workforce in the contiguous U.S. had been selected. The sample error is larger for sub-groups. CSRA also attempted to minimize other possible sources of error in this survey.

# **Appendix 2: Survey Results**

00/01/05 17:19 18: INT1 CALL BACK TO SPEAK TO DESIGNATED RESPONDENT Hello, my name is \$I and I'm calling from the Center for Survey Research and Analysis at the University of Connecticut. We're conducting a national survey about what people think about their jobs, and it's very important that I get the opinions of the person in this household who is at least 18 years of age, or older, and has the next birthday. Would that be you? (Or, say "Could you ask that person to come to the phone"). NT 1005 100%

1N=		1005	100%
Continue	01	1003	100%
INT1			

#### 00/01/05 17:56 19: QS1 WHEN DESIGNATED RESPON-DENT IS ON THE PHONE READ THIS

QS1. Are you currently employed, are you unemployed and looking for work, or are you not employed and not looking for work?

N=	100	5 100%
Employed 01		95%
Unemployed a	nd looking for wo	rk
02	=> <i>IQ1</i>	5%
Unemployed a	nd not looking for	r work
03	=> INT3	
Don't know		
98		
THANK		
Refused 99		
THANK		_
QS1		
-		

#### 20: QS2 **QS2**. Which statement best describes your current employment situation: (READ CHOICES 1-5) N= 933 100% I work full-time for only one employer 01 71% I work full time for one employer and part-time for another employer 02 5% I work one part-time job 10% 03 I work two or more part-time jobs 2% 04 I am self-employed 05 11% Don't know 98 Refused 99

#### QS2

21: QS3	
QS3. How many	hours do you work
in a typical week	? (ENTER 2 DIGITS
00-80)	
\$E 0 80	
N=	933 100%
0-20 hours	7%
21-30 hours	5%
31-35 hours	5%
36-40 hours	38%
41-45hours	12%
46-50 hours	16%
51 or more hours	17%
Donít know	
98	1%
Refused 99	,
Median	(40.00
Mean	(43.20
St. Deviation	(12.55
QS3	

#### 00/01/05 17:24 24: IQ1 IQ1. I'm going to read you a list of some economic issues. For each issue that I read, please tell me whether you are very concerned, somewhat concerned, not too concerned, or not at all concerned about this. First is... N= 1005 100% 1005 100% Continue 01 IQ1 25: Q1 Rotation => Q2 Q1. The current unemployment rate. N=1005 100% Very Concerned 01 16% Somewhat concerned 02 29% Not too concerned 03 28% Not at all concerned 04 25% Don't know 98 1% Refused 99 \* Q1

26: Q2 Q2. Job security for those currently with a job				
N=		1005	100%	
Very Con	cerned			
	01		26%	
Somewha	t concerned			
	02		36%	
Not too c	Not too concerned			
	03		21%	
Not at al	l concerned			
	04		16%	
Don't know				
	98		1%	
Refused	99		*	
02				

00/01/05 16:48

27: Q3

Q3. Thinking about the job situation in America today, would you say that it is now a good time or a bad time to find a quality job?

	5		
N=		1005	100%
Good time	2		
	01		76%
Bad time	02		19%
Don't kno	w		
	98		5%
Refused	99		1%
Q3			

28: Q4

=> IQ6 if QS1==02 Q4. Now, I'd like to find out how satisfied you are with your job overall. Please tell me whether you are very satisfied, somewhat satisfied, neither satisfied nor dissatisfied, somewhat dissatisfied, or very dissatisfied with your job overall?

N=		933	100%
Very Sati	sfied		
	01		51%
Somewha	t Satisfied		
	02		33%
Neither	03		5%
Somewha	t Dissatisfied		
	04		8%
Very Diss	atisfied		
	05		4%
Don't kno	ow		
	98		*
Refused	99		_
Q4			

29: Q5

Q5. Con	npared to	one year ago, would
you say	you are m	ore satisfied in your
job situa	tion, abo	ut as satisfied as you
were on	e year ago	, or less satisfied in
your cur	rent job s	ituation?
N=		100%
More sati	isfied	
	01	39%
About as	satisfied	
	02	42%
Less Satis	sfied	
	03	18%
Don't kno	ow	
	98	1%
Refused	99	—
Q5		

00/01/05	17:24			
30: IQ6	T 1	. (.		1
IQO. Nov	v I nave	a iew	question	s about
computer	5		1005	1000
N=			1005	100%
Continue	01		1005	100%
IQ6				
31: Q6				
Q6. Have	e you use	ed a co	mputer	in the
past mon	th? (If yo	es,) Ho	ow did y	ou learn
how to us	se a com	puter	,	
N=			1005	100%
No, haven	't used			
	01			19%
Self-taught	t			
, 0	02			33%
Learned in	ı school			
	03			21%
Lagmad th	rough mo	rh		21/0
Learnea ii.	04	n K		100/
<b>F</b> 1	04	D	1	1970
Friena or	Chilaren	or Pare	ents taugr	t me
	05			5%
Yes, Other	(vol.)			
	06	0		2%
Don't know	w			
	98			1%
Refused	99			*
Q6				
0_Q6				
32: O7				
Q7. Do y	ou have	access	to a con	nputer
at home?	(If yes,)	How	many co	mput-
ers do yo	u have a	ccess t	to at hon	ne?
N=			1005	100%
No, no aco	cess			
	01			32%
Ves access	to one			
100, 0000000	02			46%
Vac decase	to two			4070
ies, access	00 100			1.00/
X7.	03			10%
Yes, access	to three o	or more		
	04			7%
Don't know	w			
	98			_
Refused	99			_
Q7				

#### 33: Q8

Q8. How often do you use a computer either at home, at work, at school, or any other place?

N=		1005	100%
Every day	v		
	01		68%
At least o	nce a n	veek	
	02		12%
At least o	nce a n	ıonth	
	03		3%
Less than	once a	month	
	04		3%
Never	05	=> Q18	15%
Don't kno	)W		
	98	=> Q18	*
Refused	99	=> Q18	*
Q8			
00/01/05	5 17:24	ł	
34: IQ9	)	_	
IQ9. Do	you u	se a computer for	any of
the follo	wing?	For each, please t	ell me

at work, or both.	computer at	nome,
N=	850	100%
Continue 01	850	100%
IQ9		

#### 35: Q9 Rotation => Q16 Q9. Email N=850 100% No, don't use 01 20% Use at home 02 22%Use at Work 03 17% Use Both at home and work 04 40% Use - Other location (vol.) 05 0 1% Don't know 98 Refused 99 \_ Q9

Ŏ\_Q9

36: Q10			Use Both	at home	e and work			41: Q15	5			
Q10. Internet Brows	sing or the <b>`</b>	World		04			8%	Q15. Wo	ord proc	cessing		
Wide Web			Use - Otl	ber locat	ion (vol.)			N=			850	100%
N=	850	100%		05	0		*	No, don'i	use			
No, don't use			Don't kn	ow					01			20%
01		23%		98			_	Use at ho	me			
Use at home			Refused	99			_		02			17%
02		30%	012					Use at W	ork			
Use at Work			0_Q12						03			20%
03		12%	•					Use Both	at home	e and work		
Use Both at home and	work		<b>39: 01</b> 3	3					04			42%
04		33%	Q13. Pa	ying bil	lls, balancing	g check	book	Use - Oth	er locati	ion (vol.)		
Use - Other location (v	vol.)		or mana	ging mo	oney				05	Ó		1%
05 C	)	2%	N=		8	50	100%	Don't kn	)W			
Don't know			No, don'i	t use					98			_
98		_		01			65%	Refused	99			_
Refused 99		_	Use at ho	ome				015				
Q10				02			22%	0_015				
0_Q10			Use at W	'ork				•				
				03			6%	42: O16	5			
37: O11			Use Both	at home	e and work			Q16. Ga	mes			
Q11. News or inform	nation			04			8%	N=			850	100%
N=	850	100%	Use - Otl	ber locat	ion (vol.)			No. don'i	use			
No. don't use				05	0		*	,	01			43%
01		25%	Don't kn	ow				Use at bo	me			
Use at home				98			_		02			41%
02		27%	Refused	99			_	Use at W	ork			
Use at Work			Q13						03			6%
03		16%	0_Q13					Use Both	at home	e and work		
Use Both at home and	work								04			9%
04		30%	40: Q14	4				Use - Otl	er locat	ion (vol.)		
Use - Other location (v	ol.)		=> +1 if	QS1=	==02				0.5	0		1%
0.5 (	)	2%	Q14. Wo	ork-rela	ted activitie	s		Don't kn	)w	Ũ		270
Don't know			N=		8	05	100%		98			_
98		_	No, don'i	t use				Refused	99			_
Refused 99		_		01			13%	016				
011			Use at ho	ome				0 016				
0 011				02			7%	-•				
			Use at W	'ork				43: 013	7			
38: 012				03			46%	Q17. Di	d you p	urchase a	nything	g on-
Q12. Shopping			Use Both	at home	e and work			line, usi	ng a cor	nputer, in	the pa	st year?
N=	850	100%		04			34%	N=			850	100%
No don't use	000	20070	Use - Oth	ber locat	ion (vol.)			Yes	01			40%
01		60%		05	0		_	No	02			60%
Use at home		0070	Don't kn	ow				Don't kno	)w			
02		29%		98			_		98			*
Use at Work		2370	Refused	99			_	Refused	99			_
03		4%	Q14					017				
00		70	0_Q14					<b>≈</b> ~′				

# 20% and work 42% n (vol.) 0 1% \_ \_ 850 100% 43% 41% 6% and work **9**% n (vol.) 0 1% \_ \_ rchase anything on-

00/01/07 16:50 44: Q18 => Q27A if QS1=02 Q18. In a typical day, how many hours do you spend at work? (ENTER 2 DIG-ITS- ROUND UP. EXAMPLE-7.5=08) \$E 01 24

N=		933	100%
0-2 hours			1%
3-5 hours			5%
6-7 hours			9%
8 hours			38%
9 hours			19%
10 hours			18%
11 or more	hours		11%
Don't know	,		
	98		1%
Refused	99		_
Median			(8.00)
Mean			(8.70)
St. Deviati	on		(2.38)
Q18			

#### 00/01/05 18:01 45: Q19 Q19. Of that/those <Q18 > hour(s), how many do you spend using a computer? (ENTER 2 DIGITS-ROUND UP. EXAMPLE-1/2 hour=01). (MAKE SURE THIS ANSWER IS NOT GREATER THAN THE # OF HOURS IN THIS QUESTION)

#### \$E 01 24

N=		933	100%
0 hours			30%
1 hour			17%
2 hours			9%
3-5 hours	5		17%
6-8 hours	5		22%
9 or more	e hours		5%
Don't kn	ow		
	98	=> Q22	*
Refused	99	=> Q22	_
Median			(2.00)
Mean			(3.10)
St. Devia	tion		(3.20)

#### Summary of Percent of Workday Spent on a Computer Among All Workers:

	,	
N=	933	100%
Zero Percent of Time		30%
1% — 24%		21%
25% — 49%		13%
50% — 74%		13%
75% — 99%		11%
100% of time		12%
Don't know		*
Refused		_
Median		(22%)
Mean		(35%)
St. Deviation		(36)
Q19		
46: Q20 Q20. Of that/those <q using the computer, ab do you spend on the In 2 DIGITS-ROUND UI</q 	19 > hou out how iternet? ( P. EXAM	r(s) many ENTER PLE-
1/2=01) (MAKE SURE IS NOT GREATER TH HOURS IN THIS QUI \$E 01 24	THIS AL IAN THE ESTION)	NSWER 2 # OF
1/2=01) (MAKE SURE IS NOT GREATER TH HOURS IN THIS QUI \$E 01 24 N=	THIS AU IAN THE ESTION) 649	NSWER 2 # OF
1/2=01) (MAKE SURE IS NOT GREATER TH HOURS IN THIS QUI \$E 01 24 N= 0 hours	THIS AL IAN THE ESTION) 649	NSWER 2 # OF 100% 49%
1/2=01) (MAKE SURE IS NOT GREATER TH HOURS IN THIS QUI \$E 01 24 N= 0 hours 1 hour	THIS A IAN THE ESTION) 649	NSWER 2 # OF 100% 49% 44%
1/2=01) (MAKE SURE IS NOT GREATER TH HOURS IN THIS QUI \$E 01 24 N= 0 hours 1 hour 2 hours	THIS A IAN THE ESTION) 649	NSWER 2 # OF 100% 49% 44% 7%
1/2=01) (MAKE SURE IS NOT GREATER TH HOURS IN THIS QUI \$E 01 24 N= 0 hours 1 hour 2 hours 3 or more hours	THIS A IAN THE ESTION) 649	NSWER 2 # OF 100% 49% 44% 7%
1/2=01) (MAKE SURE IS NOT GREATER TH HOURS IN THIS QUI \$E 01 24 N= 0 hours 1 hour 2 hours 3 or more hours Don't know	THIS A IAN THE ESTION) 649	NSWER 2 # OF 100% 49% 44% 7% 
1/2=01) (MAKE SURE IS NOT GREATER TH HOURS IN THIS QUI \$E 01 24 N= 0 hours 1 hour 2 hours 3 or more hours Don't know Refused	THIS AI IAN THE ESTION) 649	NSWER 2 # OF 100% 49% 44% 7%  *
1/2=01) (MAKE SURE IS NOT GREATER TH HOURS IN THIS QUI \$E 01 24 N= 0 hours 1 hour 2 hours 3 or more hours Don't know Refused Median	THIS AI IAN THE ESTION) 649	NSWER 2 # OF 100% 49% 44% 7% 
1/2=01) (MAKE SURE IS NOT GREATER TH HOURS IN THIS QUI \$E 01 24 N= 0 hours 1 hour 2 hours 3 or more hours Don't know Refused Median Mean	THIS A IAN THE ESTION) 649	NSWER 2 # OF 100% 49% 44% 7%  * (1.00) (.910)
1/2=01) (MAKE SURE IS NOT GREATER TH HOURS IN THIS QUI \$E 01 24 N= 0 hours 1 hour 2 hours 3 or more hours Don't know Refused Median Mean St. Deviation	THIS A IAN THE ESTION) 649	NSWER 2 # OF 100% 49% 44% 7%  * (1.00) (.910) (1.60)
1/2=01) (MAKE SURE IS NOT GREATER TH HOURS IN THIS QUI \$E 01 24 N= 0 hours 1 hour 2 hours 3 or more hours Don't know Refused Median Mean St. Deviation Summary of Percent of Computer Time Spent (Workers Who Use Con N=	THIS AI IAN THE ESTION) 649 f Workda on Intern mputer): 649	NSWER : # OF 100% 49% 44% 7%  (1.00) (.910) (1.60) y net 100%
1/2=01) (MAKE SURE IS NOT GREATER TH HOURS IN THIS QUI \$E 01 24 N= 0 hours 1 hour 2 hours 3 or more hours Don't know Refused Median Mean St. Deviation Summary of Percent of Computer Time Spent (Workers Who Use Con N= Zero Percent of Time	t THIS AN IAN THE ESTION) 649 Workda on Intern mputer): 649	NSWER 2 # OF 100% 49% 44% 7%  * (1.00) (.910) (1.60) y net 100% 46%

14%

10%

1%

10% \*

\_

(13%)

(23%)

(31)

25% - 49%

50% - 74%

75% — 99%

100% of time

St. Deviation

Don't know Refused

Median

Mean

Q20

00/01/05 18:01 47: Q21 Q21. Of that/those <Q20 > hour(s) on

the Internet, about how many do you spend on work related activities, as opposed to your own personal use? (ENTER 2 DIGITS-ROUND UP. EXAMPLE-1/2=01) (MAKE SURE THIS ANSWER IS NOT GREATER THAN THE # OF HOURS IN THIS QUESTION)

\$E 00 24

N=		349	100%
0 hours			13%
1 hours			76%
2 hours			11%
3 or more	e hours		_
Don't kno	ЭW		
	98	=> Q22	1%
Refused	99	=> Q22	1%
Median			(1.00)
Mean			(1.52)
St. Devia	tion		(2.10)

#### Summary of Percent of Workday Internet Time Work Related (Workers Who Use Internet):

N=	349	100%
Zero Percent of Time		13%
1% - 24%		%
25% - 49%		1%
50% — 74%		8%
75% — 99%		2%
100% of time		76%
Don't know		1%
Refused		1%
Median		(100%)
Mean		(82%)
St. Deviation		(35)
Q21		

00/01/05 18:02 48: Q22 Q22. On average, how many e-mail messages do you receive each day at work? (ENTER 2 DIGITS)

#### \$E 01 95

N=	933	100%
Have e-mail but g	et less than	
1 per day		28%
1-5		20%
6-10		12%
11-20		9%
21 or more		31%
Don't have e-mail		
97		23%
Don't know		
98		1%
Refused 99		*
Median (Among w	vorkers with e-mail	l): (3)
Mean (Among wor	rkers with e-mail)	(8.76)
St. Deviation (Am	ong workers with	
e-mail)	-	(3.00)
Q22		

00/01/05 16:48

49: Q23

Q23. Changing the subject a bit...In your opinion, has there been a reduction of jobs at your place of employment in the last year as a result of technology replacing the need for the same number of workers?

N=		933	100%
Yes	01		10%
No	02		87%
Don't kno	ЭW		
	98		2%
Refused	99		1%
Q23			

50: Q24

Q24. Could you perform your job functions at a place other than your current place of employment if you had access to a phone, FAX and computer with **Internet access?** 

N=		933	100%
Yes	01		41%
No	02		58%
Don't kn	ow		
	98		2%
Refused	99		1%
Q24			

51: Q25 Q25. Do in your c work fro convenie main loca home or	es your en ourrent job m home o nt to get t ation? (IF from anot	nployer offer ; , the opportu r another plac o than your jo YES) Is that : her location?	you, nity to ce more obs from
N=		933	100%
No	01	=> Q27A	81%
home	02		10%
another lo	ocation		
	03		2%
both home	e and anoth	er location	10/
Daw't hus			4 /0
Don i kno	nw 00	. 0274	20/
Defused	98	=> Q2/A	2%
Rejusea Q25	99	=> Q2/A	2%
00/01/07 52: Q26 Q26. Ho work fro	7 16:20 w many da m <q25></q25>	ays per week in a typical v	do you veek?
N=		145	100%
Zero Day	s/Don't Tele	commute	
	00	=> Q27A	37%
One day	01		18%
Two days	02		9%
Three day	5		
	03		8%
Four days	3		
	04		3%
Five days			
	05		11%
Six days	06		5%
Seven day	15		
	07		8%
Don't kno	nw		
	98	=> Q27A	1%
Refused	99	=> Q27A	—
Q26			
53: Q27 Q27. Ho productiv <q25> v to work</q25>	w would y vity when versus whe in a more	ou measure y you work fro n you work, o traditional of	our m or used ffice

00/01/07 16:18

About the	e same level of pro	duction	
	03		30%
Somewha	t less productive		
	04		15%
Much les	s productive		
	05		1%
Don't kno	ow oo		<i>C</i> 0/
Defused	98		6%
Kejusea	99		_
$Q^{2}$			
00/01/07 54: O27	7 16:12 7A		
Q27A. H	Iave you ever pa	rticipate	ed in
distance	learning, which	is learni	ng
where in	struction was gi	ven over	dis-
individu	als located at on	e or mor	re
places?			
N=		919	100%
Yes	01		26%
No	02		74%
Don't Kn	ow		
	98		*
Refused	99		—
Q27A			
Note: Q1	estions 27A and	27 <b>B</b> no	t asked
0] ]1131 0	o respondents		
00/01/07	7 16:15		
55: Q27	7B		
Q27B. I	n the future, how	w interes	sted
ing educ	ation and training	ng by dis	receiv-
learning	, as opposed to 1	nore tra	di-
tional m	ethods or educa	tion or t	rain-
ing? Wo	uld you be extre	mely into	er-
ested,	rested somewh	at intera	stad
not verv	interested, or n	ot at all	inter-
ested?	-		
N=		919	100%
Extremely	y interested		
	01		10%
Very inter	rested		
	02		20%
Somewha	t interested		
	03		31%
Not very	interested		
	04		17%
Not at al	l interested		

setting: would you say y		0		
(READ CODES 1 - 5)			Not at al	l in
N=	89	100%		0
Much more productive			Don't Kn	ow
01		27%		9
Somewhat more productive			Refused	9
02		13%	Q27B	

setting? Would you say you are

22%

1%

\_

05

98

99

#### 00/01/05 17:24

56: IQ28

Now I'm going to read you a series of statements. Please rate each statement from 0 to 10, where 0 means strongly disagree, 10 means strongly agree, and 5 means neither agree nor disagree. You can use any number between 0 and 10. The first statement is...

N=		1001	100%
Continue	01	1001	100%
IQ28			

57: Q28 Rotation => Q43 => +1 if QS1==02 Q28. I have the necessary computer skills to perform my current job. (00=Strongly Disagree 0 5=Neutral 10=Strongly Agree ENTER 2 DIGITS) \$E 00 10

-			
N=		933	100%
0-4			15%
5			8%
6-8			16%
9-10			61%
Don't kno	ЭW		
	98		_
Refused	99		1%
Mean			(7.70)
St. Devia	tion		(3.33)
Q28			

#### 58: Q29

=> +1 if QS1==02

Q29. My employer does a good job of providing me with computer training opportunities. (00=Strongly Disagree 05=Neutral 10=Strongly Agree ENTER 2 DIGITS) \$E 00 10

N=		933	100%
0-4			44%
5			14%
6-8			16%
9-10			26%
Don't kn	ow		
	98		1%
Refused	99		2%
Mean			(4.90)
St. Devia	tion		(3.84)
Q29			

#### 59: Q30

Q30. I will need more computer skills to achieve my career goals. (00=Strongly Disagree 05=Neutral 10=Strongly Agree ENTER 2 DIGITS) \$E 00 10

N=		1005	100%
0-4			35%
5			16%
6-8			22%
9-10			27%
Don't kno	w		
	98		_
Refused	99		_
Mean			(5.33)
St. Devia	tion		(3.80)
Q30			

#### 60: Q31

Q31. High schools should require all students to be computer literate as a condition of graduation. (00=Strongly Disagree 05=Neutral 10=Strongly Agree ENTER 2 DIGITS)

#### \$E 00 10

N=		1005	100%
0-4			13%
5			8%
6-8			26%
9-10			54%
Don't kno	)w		
	98		_
Refused	99		_
Mean			(7.73)
St. Devia	tion		(3.00)
Q31			

#### 61: Q32

Q32. Colleges and Universities should only admit students who are computer literate. (00=Strongly Disagree 05=Neutral 10=Strongly Agree ENTER 2 DIGITS) \$E 00 10 N=1005 100% 0-4 77% 5 13% 6-8 6% 9-10 4% Don't know 98 Refused 99 Mean (2.12)St. Deviation (2.80)Q32

#### 62: Q33

Q33. Government should offer tax breaks to employers who offer computer training for their employees. (00=Strongly Disagree 05=Neutral 10=Strongly Agree ENTER 2 DIGITS) \$E 00 10

N=	1005	100%
0-4		24%
5		22%
6-8		28%
9-10		27%
Don't know		
98		1%
Refused 99		_
Mean		(6.00)
St. Deviation		(3.30)
Q33		

#### 00/01/05 16:49 63: Q34

Q34. Government should offer tax breaks to employers who offer workers the opportunity to work from home or another location outside the office such as a neighborhood telecommunications center. (00=Strongly Disagree 05=Neutral 10=Strongly Agree ENTER 2 DIGITS)

¢Τ	00	10	
ЪE	UU	10	

N=		1005	100%
0-4			25%
5			28%
6-8			27%
9-10			20%
Don't kno	)W		
	98		1%
Refused	99		_
Mean			(5.60)
St. Devia	tion		(3.10)
Q34			

64: Q35 Q35. Government shot tion tax credits to anyo a computer course. (00 Disagree 05=Neutral 1 Agree ENTER 2 DIGT \$E 00 10	uld offer o one enroll )=Strongly 0=Strong TS)	educa- ed in y ly
N-	1005	100%
0-4	1000	30%
5		26%
68		20%
0.10		20%
Jon't hnow		20%
08		1%
98 Refused 00		1 70
Kejuseu 99 Maan		(5.40)
St. Deviction		(3.40)
St. Deviation		(3.30)
Q35		
65: Q36 Q36. I plan on enrollin training course not off employer in the next tr (00-Strongly Disagree	ng in a con ered by m welve mon 05=Neut	mputer by nths. ral
10=Strongly Agree EN \$E 00 10	TER 2 D	IGHS)
10=Strongly Agree EN \$E 00 10 N=	1005	100%
10=Strongly Agree EN \$E 00 10 N= 0-4	1005	100% 62%
10=Strongly Agree EN \$E 00 10 N= 0-4 5	1005	100% 62% 13%
10=Strongly Agree EN \$E 00 10 N= 0-4 5 6-8	1005	100% 62% 13% 13%
10=Strongly Agree EN \$E 00 10 N= 0-4 5 6-8 9-10	1005	100% 62% 13% 13% 12%
10=Strongly Agree EN \$E 00 10 N= 0-4 5 6-8 9-10 Don't know	1005	100% 62% 13% 13% 12%
10=Strongly Agree EN \$E 00 10 N= 0-4 5 6-8 9-10 Don't know 98	1005	100% 62% 13% 13% 12%
10=Strongly Agree EN \$E 00 10 N= 0-4 5 6-8 9-10 Don't know 98 Refused 99	1005	100% 62% 13% 13% 12% 
10=Strongly Agree EN \$E 00 10 N= 0-4 5 6-8 9-10 Don't know 98 Refused 99 Mean	1005	100% 62% 13% 13% 12% 
10=Strongly Agree EN \$E 00 10 N= 0-4 5 6-8 9-10 Don't know 98 Refused 99 Mean St. Deviation	1005	100% 62% 13% 13% 12% 
10=Strongly Agree EN           \$E 00 10           N=           0-4           5           6-8           9-10           Don't know           98           Refused         99           Mean           St. Deviation           Q36	1005	100% 62% 13% 13% 12% 
10=Strongly Agree EN \$E 00 10 N= 0-4 5 6-8 9-10 Don't know 98 Refused 99 Mean St. Deviation Q36 66: Q37 Q37. The government subsidies to schools in areas so they can purch and be connected to the (00=Strongly Disagree 10=Strongly Agree EN \$E 00 10	should pr low-incor hase comp ie Interne 05=Neut TER 2 DI	100% 62% 13% 13% 12% 
10=Strongly Agree EN \$E 00 10 N= 0-4 5 6-8 9-10 Don't know 98 Refused 99 Mean St. Deviation Q36 66: Q37 Q37. The government subsidies to schools in areas so they can purcl and be connected to th (00=Strongly Disagree 10=Strongly Agree EN \$E 00 10 N=	should pr low-incor hase comp te Interne 05=Neut TER 2 DI 1005	100% 62% 13% 13% 12% (3.13) (3.54) ovide ne puters t. ral (GITS) 100%
10=Strongly Agree EN \$E 00 10 N= 0-4 5 6-8 9-10 Don't know 98 Refused 99 Mean St. Deviation Q36 66: Q37 Q37. The government subsidies to schools in areas so they can purcl and be connected to th (00=Strongly Disagree 10=Strongly Agree EN \$E 00 10 N= 0-4	should pr low-incor hase comp te Interne 05=Neut TER 2 DI 1005	100% 62% 13% 13% 12% (3.13) (3.54) ovide ne puters t. ral (GITS) 100% 11%
10=Strongly Agree EN \$E 00 10 N= 0-4 5 6-8 9-10 Don't know 98 Refused 99 Mean St. Deviation Q36 66: Q37 Q37. The government subsidies to schools in areas so they can purch and be connected to the (00=Strongly Disagree 10=Strongly Agree EN \$E 00 10 N= 0-4 5	should pr low-incor hase comp ie Interne 05=Neut TER 2 DI 1005	100% 62% 13% 13% 12% 
10=Strongly Agree EN \$E 00 10 N= 0-4 5 6-8 9-10 Don't know 98 Refused 99 Mean St. Deviation Q36 66: Q37 Q37. The government subsidies to schools in areas so they can purcl and be connected to th (00=Strongly Disagree 10=Strongly Agree EN \$E 00 10 N= 0-4 5 6-8	should pr 1005 should pr low-incor hase comp te Interne 05=Neut TER 2 DI 1005	100% 62% 13% 13% 12% 

Don't know		
98		_
Refused 99		_
Mean		(7.63)
St. Deviation		(2.90)
Q37		
67: Q38 => +1 if QS1==02 Q38. I use the compu my primary means of with others during the (00=Strongly Disagree 10=Strongly Agree EN \$E 00 10	ter or ema communic e workday. e 05=Neut: NTER 2 DI	il as ating ral GITS)
N=	933	100%
0-4		61%
5		11%
6-8		16%
9-10		12%
Don't know		
98		_
Refused 99		_
Mean		(3.30)
St. Deviation		(3.60)
038		()
68: Q39 => +1 if QS1==02 Q39. I believe that my replaced by a compute of technology within t (00=Strongly Disagree 10=Strongly Agree EN \$E 00 10	y job will h er or some he next 3 ; e 05=Neuti NTER 2 DI	e sort years. ral GITS)
N=	933	100%
0-4		89%
5		4%
6-8		3%
9-10		4%
Don't know		
98		1%
Refused 99		—
Mean		(1.20)
St. Deviation		(2.40)
Q39		

69: Q40		
Q40. If I look for ano	ther job, I	plan
to use the Internet to	assist my	job
search efforts. (00=St	rongly Dis	agree
2 DICITS)	gly Agree	ENTER
2 DIG115)		
\$E 00 10		
N=	1005	100%
0-4		33%
5		18%
6-8		20%
9-10		29%
Don't know		
98		_
Refused 99		
Mean		(5.50)
St Deviation		(3.80)
		(0.00)
Q40		
70: Q41		
Q41. The computer h	as changed	l my life
for the better. (00=Sti	ongly Disa	agree
2 DICITS)	gly Agree	ENTER
¢E 00 10		
3E 00 10		
N=	1005	100%
0-4		20%
5		21%
6-8		29%
9-10		29%
Don't know		
98		1%
Refused 99		_
Mean		(6.22)
St. Deviation		(0.22)
St. Deviation		(3.30)
Q41		
00/01/05 16:50		
71: M42		
Q42. New information	n technolo	gy such
as the Internet is good	d for the e	conomy.
10-Strongly Agree EN	TER 2 DI	rai
	ILK 2 D	GIIS)
\$E 00 10		
N=	1005	100%
0-4		7%
5		17%
6-8		33%
9-10		43%
Don't know		
98		1%
Refused 99		
Mean		(7.64)
		. /

(2.50)

St. Deviation

M42

72: Q43 Q43. The new jobs created by infor- mation technology are good jobs. (00=Strongly Disagree 05=Neutral 10=Strongly Agree ENTER 2 DIGITS) \$E 00.10			
+1 00 10 N-		1005	100%
0-4		1005	8%
5			25%
6-8			38%
9-10			30%
Don't know	w		
	98		2%
Refused	99		_
Mean			(7.10)
St. Deviat	ion		(2.40)
Q43			
00/01/05 95: ID1 => D2A i ID1. Nov you and y	17:25 f QS1== v I have a f your work:	02 few question	s about

	933	100%
01	933	100%
	)1	933 91 933

#### 96: D1

D1. I am going to read you a list of occupations, please tell me the one that most closely corresponds to the work you do for your primary employer.

N=			933	100%
Profession	al			
	01			32%
Manageria	al			
	02			13%
Service	03			16%
Manufact	uring			
	04			5%
Processing	05			2%
Technical	06			10%
Clerical a	nd sales			
	07			10%
Agricultur	e			
	08			2%
Other	09	0		9%
Don't kno	w			
	98			*
Refused	99			*
D1				
O_D1				

00/01/05 17:21		
97: D2		
D2. Which best describe	es your o	current,
primary employer? Is it	a (REA)	D
CHOICES 1-4)		
N=	933	100%
Private, for profit business		
01		57%
The government		
02		20%
A non-profit organization		
03		11%
Myself-I am self-employed		
04		12%
Don't know		
98		1%
Refused 99		*
D2		
00 001		
98: D2A		
98: D2A => D4 if QS1==02		
98: D2A => D4 if QS1==02 D2A. How many years i	n total l	nave
98: D2A => D4 if QS1==02 D2A. How many years i you been working full or	n total l r part ti	nave me?
98: D2A => D4 if QS1==02 D2A. How many years i you been working full or (ENTER 2 DIGITS)	n total l r part ti	nave me?
<ul> <li>98: D2A</li> <li>&gt; D4 if QS1==02</li> <li>D2A. How many years i</li> <li>you been working full or (ENTER 2 DIGITS)</li> <li>\$E 01 80</li> </ul>	n total l r part ti	nave me?
<ul> <li>98: D2A</li> <li>&gt;&gt; D4 if QS1==02</li> <li>D2A. How many years i you been working full or (ENTER 2 DIGITS)</li> <li>\$E 01 80</li> <li>N=</li> </ul>	n total l r part ti 933	nave me? 100%
<ul> <li>98: D2A</li> <li>&gt; D4 if QS1==02</li> <li>D2A. How many years i you been working full or (ENTER 2 DIGITS)</li> <li>\$E 01 80</li> <li>N=</li> <li>0-5 years</li> </ul>	n total l r part ti 933	nave me? 100% 20%
<ul> <li>98: D2A</li> <li>&gt;&gt; D4 if QS1==02</li> <li>D2A. How many years i you been working full or (ENTER 2 DIGITS)</li> <li>\$E 01 80</li> <li>N=</li> <li>0-5 years</li> <li>6-10 years</li> </ul>	n total l r part tir 933	nave me? 100% 20% 17%
<ul> <li>98: D2A</li> <li>&gt;&gt; D4 if QS1==02</li> <li>D2A. How many years i you been working full or (ENTER 2 DIGITS)</li> <li>\$E 01 80</li> <li>N=</li> <li>0-5 years</li> <li>6-10 years</li> <li>11-20 years</li> </ul>	n total l r part tin 933	nave me? 100% 20% 17% 28%
<ul> <li>98: D2A</li> <li>&gt;&gt; D4 if QS1==02</li> <li>D2A. How many years i you been working full or (ENTER 2 DIGITS)</li> <li>\$E 01 80</li> <li>N=</li> <li>0-5 years</li> <li>6-10 years</li> <li>21-30 years</li> </ul>	n total l r part tii 933	nave me? 100% 20% 17% 28% 22%
<ul> <li>98: D2A</li> <li>&gt; D4 if QS1==02</li> <li>D2A. How many years i you been working full or (ENTER 2 DIGITS)</li> <li>\$E 01 80</li> <li>N=</li> <li>0-5 years</li> <li>6-10 years</li> <li>11-20 years</li> <li>21-30 years</li> <li>31-40 years</li> </ul>	n total l r part tin 933	nave me? 100% 20% 17% 28% 22% 10%
<ul> <li>98: D2A</li> <li>&gt;&gt; D4 if QS1==02</li> <li>D2A. How many years i you been working full or (ENTER 2 DIGITS)</li> <li>\$E 01 80</li> <li>N=</li> <li>0-5 years</li> <li>6-10 years</li> <li>11-20 years</li> <li>21-30 years</li> <li>31-40 years</li> <li>41 or more years</li> </ul>	n total l r part tii 933	nave me? 100% 20% 17% 28% 22% 10% 3%
<ul> <li>98: D2A</li> <li>&gt;&gt; D4 if QS1==02</li> <li>D2A. How many years i you been working full or (ENTER 2 DIGITS)</li> <li>\$E 01 80</li> <li>N=</li> <li>0-5 years</li> <li>6-10 years</li> <li>11-20 years</li> <li>21-30 years</li> <li>31-40 years</li> <li>41 or more years</li> <li>Don't know</li> </ul>	n total l r part tii 933	nave me? 100% 20% 17% 28% 22% 10% 3%
<ul> <li>98: D2A</li> <li>&gt;&gt; D4 if QS1==02</li> <li>D2A. How many years i you been working full or (ENTER 2 DIGITS)</li> <li>\$E 01 80</li> <li>N=</li> <li>0-5 years</li> <li>6-10 years</li> <li>11-20 years</li> <li>21-30 years</li> <li>31-40 years</li> <li>41 or more years</li> <li>Don't know</li> <li>98</li> </ul>	n total l r part tii 933	nave me? 100% 20% 17% 28% 22% 10% 3%
<ul> <li>98: D2A</li> <li>&gt; D4 if QS1==02</li> <li>D2A. How many years i you been working full or (ENTER 2 DIGITS)</li> <li>\$E 01 80</li> <li>N=</li> <li>0-5 years</li> <li>6-10 years</li> <li>6-10 years</li> <li>21-30 years</li> <li>31-40 years</li> <li>41 or more years</li> <li>Don't know</li> <li>98</li> <li>Refused 99</li> </ul>	n total l r part tii 933	nave me? 100% 20% 17% 28% 22% 10% 3% *
98: D2A => D4 if QS1==02 D2A. How many years i you been working full or (ENTER 2 DIGITS) \$E 01 80 N= 0-5 years 6-10 years 11-20 years 21-30 years 31-40 years 41 or more years Don't know 98 Refused 99 Median	n total l r part tii 933	nave me? 100% 20% 17% 28% 22% 10% 3% * * (16)
<ul> <li>98: D2A</li> <li>&gt; D4 if QS1==02</li> <li>D2A. How many years i you been working full or (ENTER 2 DIGITS)</li> <li>\$E 01 80</li> <li>N=</li> <li>0-5 years</li> <li>6-10 years</li> <li>11-20 years</li> <li>21-30 years</li> <li>21-30 years</li> <li>31-40 years</li> <li>41 or more years</li> <li>Don't know</li> <li>98</li> <li>Refused 99</li> <li>Median</li> <li>Mean</li> </ul>	n total l r part tii 933	nave me? 100% 20% 17% 28% 22% 10% 3% * * (16) (17.6)
<ul> <li>98: D2A</li> <li>&gt;&gt; D4 if QS1==02</li> <li>D2A. How many years i you been working full or (ENTER 2 DIGITS)</li> <li>\$E 01 80</li> <li>N=</li> <li>0-5 years</li> <li>6-10 years</li> <li>11-20 years</li> <li>21-30 years</li> <li>31-40 years</li> <li>31-40 years</li> <li>41 or more years</li> <li>Don't know</li> <li>98</li> <li>Refused 99</li> <li>Median</li> <li>Mean</li> <li>St. Deviation</li> </ul>	n total l r part tii 933	nave me? 100% 20% 17% 28% 22% 10% 3% * * (16) (17.6) (12.2)

99: D3 D3. How many people does the organization or company where you work

zation o employ?	r company v Is it (READ	where you w CHOICES	ork 5 1-4)
N=		933	100%
Less than	25 people		
	01		28%
more than	1 25 , but less	than 100 pe	ople
	02		18%
more than	ı 100, but les	s than 250 pe	eople
	03		11%
more than	1 250 people		
	04		43%
Don't kno	ЭW		
	98		1%
Refused	99		*
D3			

# 100: D4QD4. What was the last grade of schoolyou completed?N=1005100%

Grade sch	bool or less (0-8)	
	01	1%
Some high	h school (9-11)	
	02	5%
High scho	ool (12)	
	03	28%
Some coll	lege (1-3 years)	
	04	27%
College g	rad (4 years)	
	05	23%
Post grad	uate (beyond 4 years)	
	06	16%
Don't kno	)w	
	98	_
Refused	99	*
D4		

101: D5 D5. [Age]		105: D7 D7. Are	you bla	ick, wh	ite, Hispa	anic,
N= 10	005 100%	Asian, N else?	ative A	merica	n or some	ething
18-29	26%				1005	1000/
30-49	53%	N=			1005	100%
50-64	19%	Black	01			9%
65 and over	3%	White	02			76%
Don't know		Hispanic	03			6%
1998	*	Asian	04			2%
Refused		Native Ar	nerican			
1999	2%		05			1%
D5		Other-SP	ECIFY			
			06	0		2%
102 <sup>.</sup> D6		Biracial	07			1%
D6. [Total Household Inco	me]	Don't kno	w			
N- 1(	- 100%		98			*
Under \$10 000	2%	Refused	99			2%
\$10,000 to less than \$20,000	2,0	<b>D</b> 7				
\$10,000 to tess than \$20,000	8%	O_D7				
\$20,000 to lass than \$30,000	070					
\$20,000 to tess than \$50,000	110/	109: QI	)8			
\$30,000 to loss than \$40,000	1170	=> END	if QS	51>=03		
\$50,000 to tess than \$40,000	110/	QD8. GI	ENDE	R BY O	BSERVA	TION
¢ 10,000 to 1 th \$50,000	1170	N=			1005	100%
\$40,000 to less than \$50,000	150/	Male	01			54%
\$50.000 1 1 \$FEE.000	15%	Female	02			47%
\$50,000 to less than \$75,000		QD8				
	21%					
\$75,000 or more	26%	00/01/07	9:20			
Don't know	1%	Notes:				
Refused	3%	Results r	eporte	d reflec	t weighte	d per-
D6B		centages	and ur	weight	ed sample	e sizes
		*% Indic	ates les	ss than	.5% of re	sponses
		in catego	ry		•	
		- Indica	tes no	respon	ses in cat	egory
		tion may	add to	an resp	than 100	a ques- %

because of rounding.

# John J. Heldrich Center for Workforce Development

### solutions at work

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Edward J. Bloustein School of Planning & Public Policy Rutgers the State University of New Jersey 33 Livingston Avenue, Fifth Floor New Brunswick, NJ 08901 732/932-4100 ext. 714 www.heldrich.rutgers.edu



University of Connecticut 341 Mansfield Road, Room 400 Storrs, CT 06269-1164 860/486-2579