

Semiannual Survey Report on the Development of China's Internet (Jan. 2001)

China Internet Network Information Center

The statistics on the development of China's Internet, which includes the total number of hosts and Internet users, the distribution of users and traffic pattern, the registration of domain names and so on. The information is quite important for government decision makers and valuable for commercial enterprises to make their business decisions. In 1997, the former Informatization Office of the State Council and the CNNIC Steering Committee determined that the survey should be carried out by CNNIC, in cooperation with other four major network organizations in China.

From November 1997 to July 2000, CNNIC had published its survey for six times. These survey reports were well accepted and widely cited by the public both domestic and overseas. Furthermore, many organizations continuously request CNNIC to announce the latest statistics. In order to systemize the survey and make it regular, CNNIC decided to conduct the survey semiannually, and issue the report respectively in January and July each year.

It should be pointed out that the Telecom Administration affiliated to MII (the Ministry of Information Industry) and the State Informatization Office had signed the document in which requests relative organizations to cooperate with the CNNIC's survey. Supported by those Internet units and other relatives such as ISPs and ICPs, the survey on China's Internet development carried on smoothly.

The content of this survey includes: the total number of users and hosts, the number and distribution of domain names, the international bandwidth of each network, and the total number of Websites. The survey analyzes the distribution, general information and characteristics of domestic Internet users, and also provides users' information about their access situation, behavior, and customs, even their views toward certain relative hot issues.

In accordance to the statistics theory and International conventions , we integrated the experiences of previous six surveys, adopting many methods such as automatic online searching, online survey and sampling survey. Among which the sampling survey intends to show the total amount of Chinese Internet users, their characteristics and behaviors in using the Internet. The online survey intends to show the situation of Internet usage, users' practices and their attitude toward some hot issues. From the end of November 2000 to the early January 2001, CNNIC conducted the online survey and the sampling survey. Our survey questionnaire was catenated to many famous domestic websites. The whole procedure was strongly supported by numerous well-known Chinese ISPs and ICPs. The online survey had received 34,695 responses, among which 26,667 responses were valid. For the sampling survey, we divided the collectivity into

several sub-group in accordance with different characteristics of objects, and adopted different methods. Among those valid samples, 62,620 were checked through telephone, 6,000 samples were gathered from interviews. These samples cover 31 provinces all over the country. The closing date for the survey is December 31, 2000.

I. The General Development Situation of China's Internet

A. Computer Hosts in China:

Totally about 8,920,000. Among them, 1,410,000 are connected through leased lines and 7,510,000 are through dial-up connections.

B. Internet Users in China:

Totally 22,500,000. Among them, 3,640,000 use leased line connections, 15,430,000 are dial-up users and 3,430,000 use both. Besides computer users, people who use other equipment (e.g. mobile terminals and information electrical appliance) are 920,000.

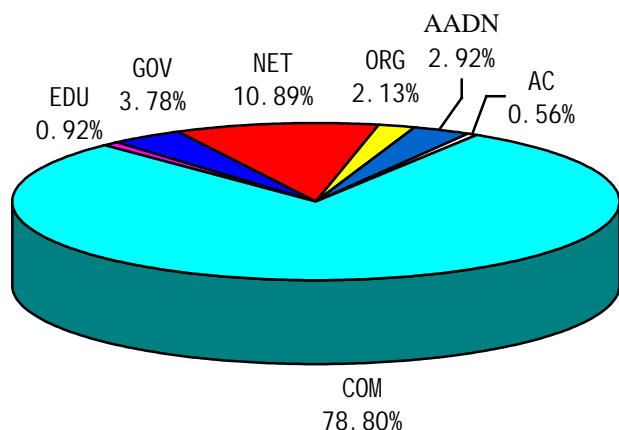
Annotation: CNNIC defined the Chinese Internet users as Chinese citizens who use the Internet at least one hour per week.

C. Domain Names Registered Under ".CN":

	AC	COM	EDU	GOV	NET	ORG	AADN	TOTAL
Number	682	96221	1127	4615	13291	2596	3567	122099
Percentage	0.56%	78.80%	0.92%	3.78%	10.89%	2.13%	2.92%	100.00 %

AADN: Administration Area Domain Name

The proportion is demonstrated as follows:



1. The Distribution of Domain Names

	Beijing	Shang hai	Tianjin	Chong qing	Hebei	Shanxi	Inner Mongolia
Number	44605	11141	2004	1140	2099	768	556
Percentage	36.87%	9.21%	1.66%	0.94%	1.73%	0.63%	0.46%
	Liao ning	Jilin	Heilong jiang	Jiang su	Zhe jiang	Anhui	Fujian
Number	3718	762	1156	5471	4862	1051	2983
Percentage	3.07%	0.63%	0.96%	4.52%	4.02%	0.87%	2.47%
	Jiangxi	Shan dong	Henan	Hubei	Hunan	Guang dong	Guangxi
Number	447	4740	1919	2093	1138	17043	835
Percentage	0.37%	3.92%	1.59%	1.73%	0.94%	14.09%	0.69%
	Hainan	Sichuan	Guizhou	Yun nan	Tibet	Shaanxi	Gansu
Number	1270	2165	371	1689	143	1563	401
Percentage	1.05%	1.79%	0.31%	1.40%	0.12%	1.29%	0.33%
	Qinghai	Ningxia	Xinjiang	Hong Kong	Macao	Taiwan	
Number	86	299	1044	1404	0	6	
Percentage	0.07%	0.25%	0.86%	1.16%	0%	0%	

D. THE NUMBER OF “WWW” WEBSITES (.CN , .COM , .NET , .ORG) : 265405

The distribution of “WWW” websites domain names :

	AC.C N	COM (.CN)	EDU (.CN)	GOV.CN	NET (.CN)	ORG (.CN)	DISTRICT .CN	TOTAL
Number	403	221988	Omit	3294	31833	6446	1441	265405
Percentage	0.15%	83.64%		1.24%	11.99%	2.43%	0.55%	100 %

The geographical distribution of “WWW” websites :

	Beijing	Shang hai	Tianjin	Chong qing	Hebei	Shanxi	Inner Mongoli a
Number	62158	28173	3947	2312	5337	2608	971
Percentage	23.42%	10.61%	1.49%	0.87%	2.01%	0.98%	0.37%
	Liao ning	Jilin	Heilong jiang	Jiangs u	Zhe jiang	Anhui	Fujian
Number	6420	1686	2773	17790	25627	2807	15878
Percentage	2.42%	0.64%	1.04%	6.70%	9.66%	1.06%	5.98%
	Jiangxi	Shan dong	Henan	Hubei	Hunan	Guang dong	Guangxi
Number	1499	12215	5062	6566	2732	37783	2152
Percentage	0.56%	4.60%	1.91%	2.48%	1.03%	14.24%	0.81%
	Hainan	Sichuan	Guizhou	Yun nan	Tibet	Shaanxi	Gansu
Number	2872	5647	763	3174	59	2949	1043
Percentage	1.08%	2.13%	0.29%	1.20%	0.02%	1.11%	0.39%
	Qinghai	Ningxia	Xinjiang				
Number	133	562	1707				
Percentage	0.05%	0.21%	0.64%				

E. The Total Bandwidth of Leased International Connections: 2799M.

Countries directly interconnected to China's Internet include the United States, Canada, Australia, Britain, Germany, France, Japan, South Korea, etc. The detailed distribution among Interconnecting Networks is as follows.

- CSTNET : 55M
- CHINANET : 1953M - Beijing 721M , Shanghai 661M , Guangzhou 571M
- CERNET : 117M
- CHINAGBN : 148M - Beijing 53M , Shanghai 59M , Guangzhou 36M
- UNINET : 55M - Shanghai 47M , Guangzhou 8M

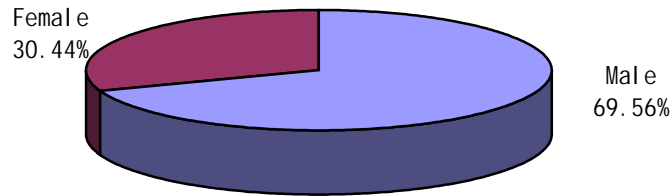
- CNCNET : 377M - Beijing 4M , SHANGHAI365M , Guangzhou 8M
- CIETNET : 4M
- CMNET : 90M - Beijing 45M , Guangzhou 45M
- CGWNET : (Under Construction)

The Total Bandwidth for IP Telephone in China : 213M

II. Results of Online Questionnaire:

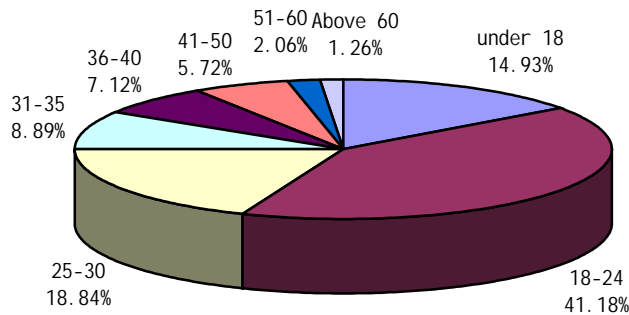
A. Users' Personal Information:

*1 . Gender , Male 69.56% , Female 30.44%

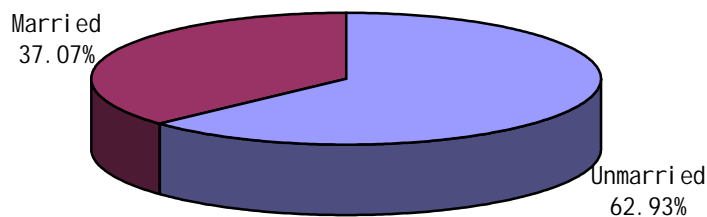


*2. Age

Under18	18-24	25-30	31-35	36-40	41-50	51-60	Above60
14.93%	41.18%	18.84%	8.89%	7.12%	5.72%	2.06%	1.26%



*3. Marital Status: unmarried 62.93% , married 37.07%

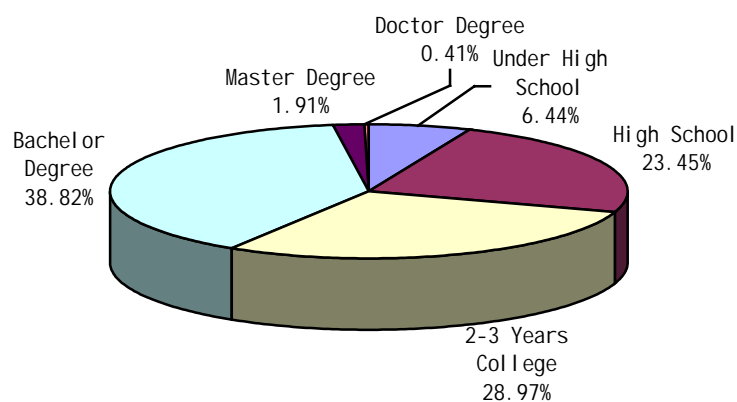


*4. Geographic Distribution (Province) :

Beijing	Shang hai	Tianjin	Chong qing	Hebei	Shanxi	Inner Mongoli a
12.39%	8.97%	2.53%	2.03%	2.47%	1.34%	1.21%
Liaoning	Jilin	Heilong jiang	Jiangsu	Zhe jiang	Anhui	Fujian
4.66%	2.41%	2.46%	5.43%	6.62%	2.43%	3.59%
Jiangxi	Shan dong	Henan	Hubei	Hunan	Guang dong	Guangxi
2.07%	5.33%	2.33%	3.52%	3.97%	9.69%	2.02%
Hainan	Sichu an	Guizhou	Yunnan	Tibet	Shaanxi	Gansu
0.31%	5.03%	0.80%	1.46%	0.03%	1.47%	1.13%
Qinghai	Ning xia	Xinjiang				
0.31%	0.48%	1.51%				

*5. Education Attainment:

Under High School	High School	2-3Years College	Bachelor Degree	Master Degree	Doctor Degree
6.44%	23.45%	28.97%	38.82%	1.91%	0.41%



*6 . Distribution of Industry (Not including army man , student and unemployed people)

Government	Business and Taxation Administration	Transportation	Trade and Commerce
8.59%	2.36%	4.05%	11.20%
Financial, Insurance and Real estate Industry	Information and Consultation	Service Industry	Police, Censorate and Court
6.68%	2.31%	8.26%	1.25%
Entertainment and Sports	News and Advertising	Science research And Education	Postal Service and Communication
1.48%	1.66%	10.75%	3.14%
Computer Industry And IT Industry	Manufacturing	Water, Electricity and Air feed Industry	Architecture
11.94%	6.49%	4.05%	3.64%
Mining,	Agriculture	Others	
0.75%	1.45%	9.95%	

*7 . Distribution of users' career :

Government Officer	Engineering Person	Clerk	Service person
9.75%	24.84%	13.43%	11.43%
Peasant	Manufacturer and operator	Army man	Student
0.76%	5.31%	1.03%	20.92%
Unemployed people	Others		
5.33%	7.2%		

*8 . Monthly Income per Capita: (RMB)

Under 500	501-1000	1001-1500	1501---2000	2001---2500	2501---3000
15.31%	25.94%	15.81%	7.54%	4.05%	3.49%
3001---4000	4001---5000	5001---6000	6001---10000	Above10000	No Income
2.93%	1.80%	1.61%	0.53%	0.57%	16.35%
Not sure					
4.07%					

B. Use and Access:

*1. Main Access Locations: (results of multiple choices)

HOME	OFFICE	Internet Cafe	SCHOOL	OTHERS
60.27%	43.92%	20.55%	19.70%	4.13%

*2 . Access Expenditure: (results of multiple choices) :

Professional Charges	Users' Own Expense	Both
14.15%	63.37%	22.48%

*3 . Monthly Accessing Fees that Users could Bare: (RMB)

Under 100	100	200	300	400	500	600	Above 600	Do not Care
25.27%	16.64%	30.62%	13.84%	6.19%	2.74%	1.25%	0.65%	2.80%

*4 . Hours of Internet Use per Week : 13.66 Hours (average)

5 . The First Daily Login Time: (O'clock)

0 , 1	2 , 3	4 , 5	6 , 7
2.00%	1.12%	1.53%	6.56%
8 , 9	10 , 11	12 , 13	14 , 15
33.67%	8.83%	9.55%	3.36%
16 , 17	18 , 19	20 , 21	22 , 23
3.98%	11.82%	11.50%	6.08%

*6 . Time Period of Most Likely Keeping Online (Results of Multiple Choices): (O'clock)

0 , 1	2 , 3	4 , 5	6 , 7
10.58%	2.90%	1.68%	3.32%
8 , 9	10 , 11	12 , 13	14 , 15
17.49%	22.05%	21.90%	17.85%
16 , 17	18 , 19	20 , 21	22 , 23
28.49%	33.56%	62.47%	35.12%

*7 . Average amount of E-mail account : 3.24/ person
 Free mail Account : 2.90/ person

*8 . E-mail Received per Week : 16.82
 E-mail Send per Week : 9.05

*9 . Personal Web page ownership :
 Yes : 28.17% No : 71.83%

*10 . Primary Goal for Accessing the Internet : (Multiple Choice)

■ Get Information	68.84%
■ Education (Learning computer and other new technologies)	13.32%
■ Entertainment	51.37%
■ For Work/Business needs	11.25%
■ Get free Internet Recourses (free E-mail account, free Personal homepage hosting)	9.90%
■ For easy communication	12.16%
■ Accessing Stock Trading and Information Retrieval	6.41%
■ Saving/Reducing Communication Costs	2.59%
■ Jumping on the Bandwagon	2.69%
■ Online Shopping	0.86%
■ Others	3.30%

11 . Services that were Used the Most Frequent (Multiple Choices) :

■ Email	95.07%
■ Search Engine	66.76%
■ Software Downloading and Uploading	50.56%
■ Information Acquiring	44.65%
■ Online Chatting	37.53%
■ Newsgroup	19.33%
■ BBS Services	16.72%
■ Online Pager	24.64%
■ Free Personal Website Hosting	15.58%
■ Online game and Entertainment	18.94%
■ Stock Trading and Information Retrieval	10.86%
■ Online Shopping and Trading	12.54%
■ IP Telephone	6.58%
■ Online Payment	2.72%
■ Other Services	7.12%

12 . Primary Information Gathered Online (Multiple Choice) :

■ News	84.38%
■ Computer Hardware and Software	58.00%
■ Entertainment Information	52.66%
■ Electronic Books	45.99%
■ Science and Education Information	35.77%
■ Financial Information	22.88%
■ Job Listings	29.12%
■ Trade and Commerce Information	15.66%
■ Travel Information	12.55%
■ Advertisement	13.51%
■ Medical Care Information	11.78%
■ Matchmaking Services	9.30%
■ Others	13.27%

13 . The distribution of Information that had been viewed:

Chinese Language Information	77.50%
Domestic Information	70.94%

D. Users' Opinions Toward Some Hot Issues

1 . Primary Considerations in Choosing ISPs

■ Connection Speed	42.25%
■ Serve Quality	23.53%
■ Price	25.15%
■ Name Recognition	6.29%
■ Others	2.78%

2 . Criteria for a Successful Website :

■ Profuse of Information, Timely Update and Attractive Services (e.g. Free Email, Shareware Downloading, Free Stock Market Information, etc.)	68.41%
■ High-speed Navigation within the Website	18.89%
■ Facilitate Interactions Allowing Visitors to Communicate with Each Other	7.88%
■ Well Designed	3.90%
■ Others	0.92%

*3 . Most Serious Problems in China's Internet

■ Slow Access Speed	46.41%
■ High Price	20.83%
■ Insufficient Chinese Information	6.41%

■ Unable to Protect Personal Privacy	4.02%
■ Hard to Use (Require Many Computer Skills)	5.42%
■ Poor ISP Service Quality	3.35%
■ No Gain from Accessing the Internet	1.88%
■ Others	11.68%

4 . Main approaches for users to get to know the new websites (Multiple choice) :

■ Search engine	71.55%
■ Links on other websites	66.91%
■ Recommendation from friends, schoolfellows and colleagues	52.90%
■ Recommendation from Internet friends	30.50%
■ Books	18.72%
■ Paper and Magazines	48.65%
■ Broadcasting and TV programs	25.18%
■ Others	10.47%

5 . Users' Needs that Still Can Not Be Fulfilled (Multiple Choice) :

■ Electronic Books	39.34%
■ Science and Education Information	29.25%
■ Computer Hardware and Software	28.70%
■ News	24.85%
■ Medical Care Information	23.69%
■ Job Listings	25.41%
■ Entertainment Information	21.34%
■ Travel Information	16.85%
■ Trade and Commerce Information	16.86%
■ Financial, and Stock Market Information	13.83%
■ Advertisement	10.25%
■ Matchmaking Services	9.32%
■ Others	12.34%

6 . Users' Opinions toward the Advertisements on Internet

■ Click frequently	12.89%
■ Click sometimes	37.16%
■ Click rarely	40.01%
■ Never Click it	6.24%
■ Disgusting, for it costs more time to load the page	3.70%

7 . Which Banner Will Be Attractive (Multiple Choice) :

■ Encouraging Sales Promotion	67.38%
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■ News	43.83%
■ Commonwealth Activity	51.50%
■ Entertainment Information	43.14%
■ Science Activity	25.12%
■ Commodity Information	30.58%
■ New Web Site Announcement	25.53%
■ Visualize Advertisement	22.30%
■ Business Organization	12.36%
■ Others	7.54%

8 . The Most Attractive Advertisement Form

■ Animation	66.50%
■ Banner	11.48%
■ Window	10.12%
■ Literal	5.50%
■ E-mail	4.49%
■ Inter cut	1.91%

9 . Do you Like to Receive Advertising Mails as References to Purchase Goods and Services

■ Affirmative	31.31%
■ Negative	28.04%
■ Unknown	40.65%

10 . The Click Frequency of Certain Icon that Catenate Other Websites

■ Frequently	32.10%
■ Sometimes	45.88%
■ Rarely	20.58%
■ Never	1.44%

11 . From your opinion, which kind of advertising carrier is more effective (multiple choice)

■ Internet	45.63%
■ Television	39.16%
■ Outdoor Ads	5.33%
■ News paper	3.81%
■ Magazines	2.47%
■ Throwaway and Ads letters	2.73%
■ Broadcasting	0.86%

12 . The Frequency of Accessing the E-business Websites

■ Frequently	23.90%
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■ Sometimes	45.17%
■ Rarely	27.23%
■ Never	3.70%

13 . Have you ever purchased Commodities or services via Internet last year:

■ Yes	31.67%
■ No	68.33%

14 . Have you ever purchased commodities via auction websites last year

■ Yes	8.64%
■ No	91.36%

15 . Have you ever successfully made second-hand dealing last year

■ Yes	9.49%
■ No	90.51%

16 . The Purpose for Users to Purchase Online (multiple choice)

■ Saving Time	49.29%
■ For Fun and Curiosity	33.29%
■ Easy to Operate	44.05%
■ Reduce Costs	37.41%
■ Looking for Rare Commodities	28.72%

17 . Product (Service) that Users Had Purchased (multiple choice)

■ Books and Magazines	58.33%
■ Computer Appliance	37.47%
■ Communication Appliance	19.87%
■ AV Equipment	29.07%
■ Living and Housing	14.29%
■ Present Delivery	16.41%
■ Educational Services	13.13%
■ Ticket Ordering	8.45%
■ Family Electrical Appliance	8.43%
■ Clothing	6.92%
■ Photographic Equipment	4.88%
■ Sports Equipment	6.91%
■ Medical Care Services	4.44%
■ Financial and Insurance Services	3.76%
■ Others	9.04%

18 . Product (Service) that Users Hope to Get from Internet (multiple choice)

■ Computer Appliance	46.24%
■ Books and Magazines	50.92%
■ Educational Services	32.51%
■ Communication	30.08%
■ Present Delivery	28.86%
■ AV Equipment	30.69%
■ Ticket Ordering	23.20%
■ Living and Housing	24.88%
■ Family Electrical Appliance	18.62%
■ Financial and Insurance Services	17.38%
■ Sports Equipment	14.77%
■ Medical Care Services	15.65%
■ Clothing	15.52%
■ Photographic Equipment	9.45%
■ Others	7.70%

19 . Have you ever experienced that goods have not been delivered after your order and payment :

■ Yes	15.68%
■ No	84.32%

20 . The satisfaction degree of users when exchange through the Internet

■ Quite satisfied	1.76%
■ Satisfied	25.96%
■ So so	51.24%
■ Unsatisfied	17.17%
■ Quite unsatisfied	3.87%

21 . Payment Methods

■ Cash and Carry	42.02%
■ Credit Card (or savings card)	12.73%
■ Post Offices transfer	23.66%
■ Online payment	13.14%
■ Bank Transfer	4.13%
■ EMS	2.70%
■ Bank Accounts	1.62%

22 . Payment Method that Users Prefer When Pay for Over RMB1000 :

■ Cash and Carry	55.45%
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■ Credit Card (or savings card)	17.31%
■ Online payment	8.03%
■ Post Offices transfer	5.14%
■ Bank Transfer	5.21%
■ EMS	4.99%
■ Bank Accounts	3.87%

23 . Primary Obstacles of Online Purchase

■ Security can not be guaranteed	31.20%
■ Quality of products, after service and credit of the producer can not be guaranteed	32.03%
■ Inconvenient Payment	12.59%
■ Delivery is time wasting, the channel is not expedite	9.86%
■ Unattractive Price	7.39%
■ Unreliable Information	5.91%
■ Others	1.02%

24 . Deliver methods that being used

■ EMS	19.80%
■ Other express deliveries	8.13%
■ Postal parcel	28.50%
■ Air, train parcel	3.27%
■ Home delivery	38.24%
■ Others	2.06%

25 . When do users believe that the large scale E-commerce will be realized in China

■ Within half year	1.16%
■ Half year ~1year	6.15%
■ 1—2years	23.88%
■ 2—3years	26.56%
■ 3—5years	23.97%
■ Over 5 years	13.58%
■ Never think about it	4.70%

26 . Most Promising Online Business In the Future (multiple choice)

■ Online shopping	61.41%
■ Online Communication	55.33%
■ Online Education	54.54%
■ Online Stock Trading	49.14%
■ Online For-Profit Information Services	40.86%

■ Online Hospital	29.52%
■ Virtual Community	28.32%
■ Online Game and Entertainment Services	33.02%
■ Online Program Ordering Services	31.17%
■ Others	6.78%

27 . Have your computer ever been invaded last year

■ Yes	44.66%
■ No	44.30%
■ Unknown	11.04%

28 . How often do users change the pass word of E-mail account

■ 1month	8.90%
■ 3-6 months	21.63%
■ 6-12months	18.02%
■ Never	51.45%

29 . Main methods adopted to ensure the security (Multiple choice)

■ Pass word	38.11%
■ Anti-virus soft ware	71.59%
■ Fire wall	64.67%
■ Electricity signature	7.83%
■ no idea, it's system managers responsibility :	9.23%
■ Do not adopt any method	4.58%

(items with "" are results from sampling survey)*