

**CSI/FBI 2000
COMPUTER CRIME AND
SECURITY SURVEY**

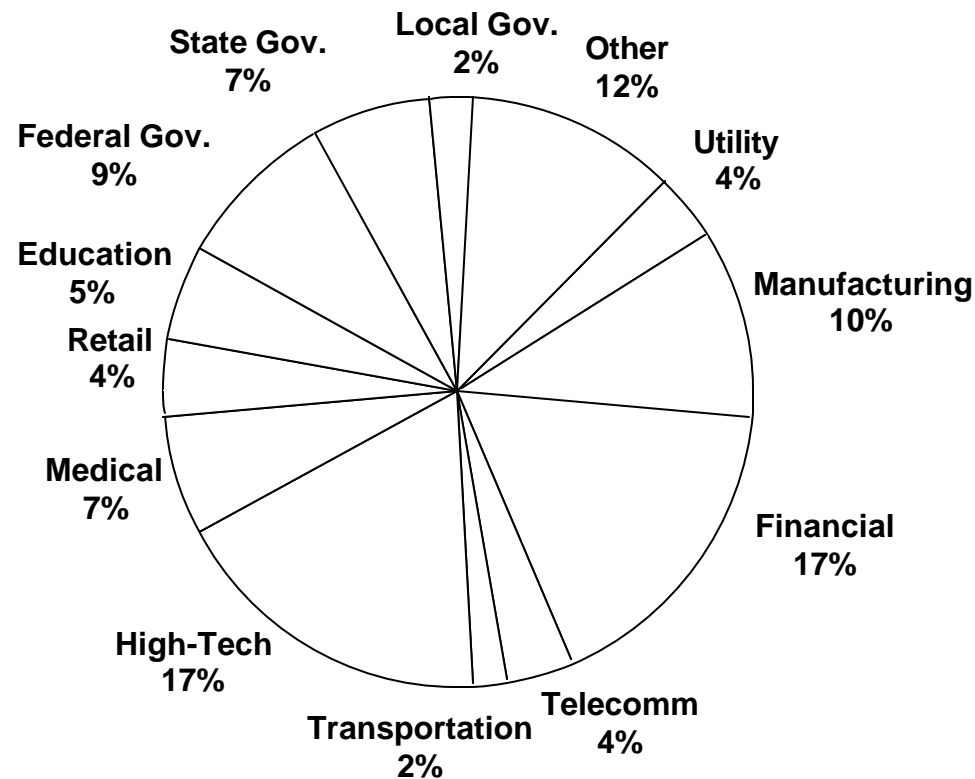
Statement of intent

- This survey was conducted by the Computer Security Institute (CSI) in association with the San Francisco Computer Crime Squad of the Federal Bureau of Investigation (FBI).
The purpose of this joint effort is threefold:
- To provide statistical data on the current state of both computer crime and computer security;
- To help law enforcement agencies and information security professionals deal with the threat more effectively;
- To further cooperation between law enforcement agencies and organizations by encouraging organizations to report computer crimes to appropriate authorities.

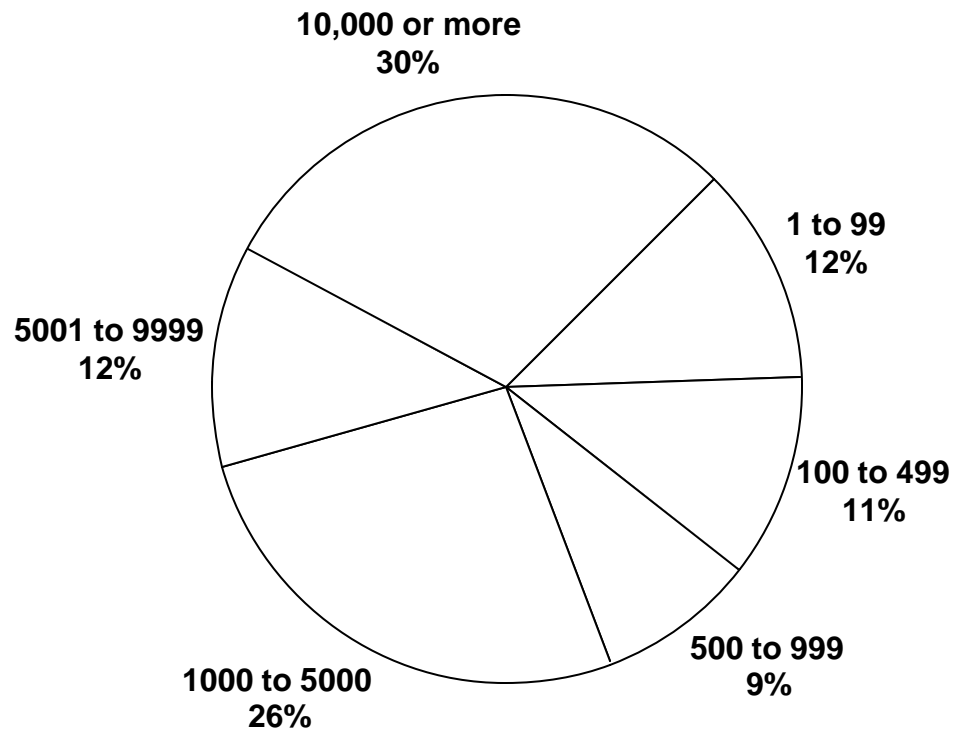
Methodology

- Questionnaires were distributed to 4,284 information security professionals, 643 responses were received for a response rate of 15%. In 1999, 521 responses were received for a response rate of 14%. In 1998, 520 responses were received (13% of 3,890). In 1997, 563 responses were returned (11.49% of 4,899). In 1996, 428 responses were received (8.6% of 4,971).
- The responses were anonymous
- Job titles of respondents ranged from corporate information security manager and data security officer to senior systems analyst
- Organizations surveyed included corporations, financial institutions, government agencies and universities

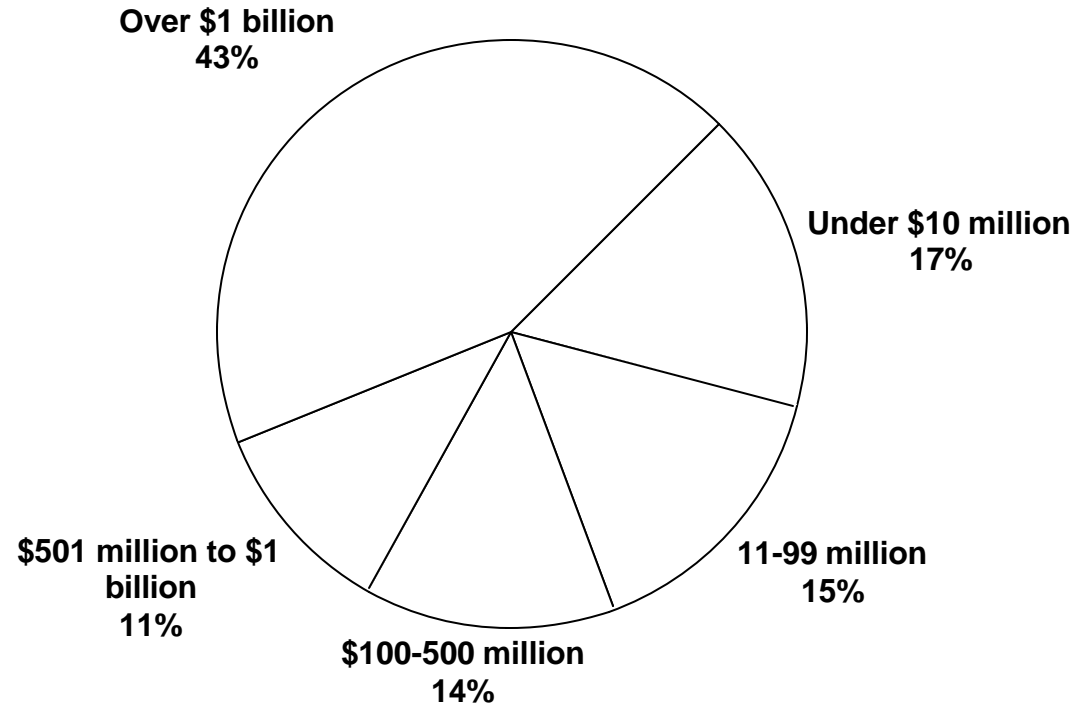
Respondents by industry sector



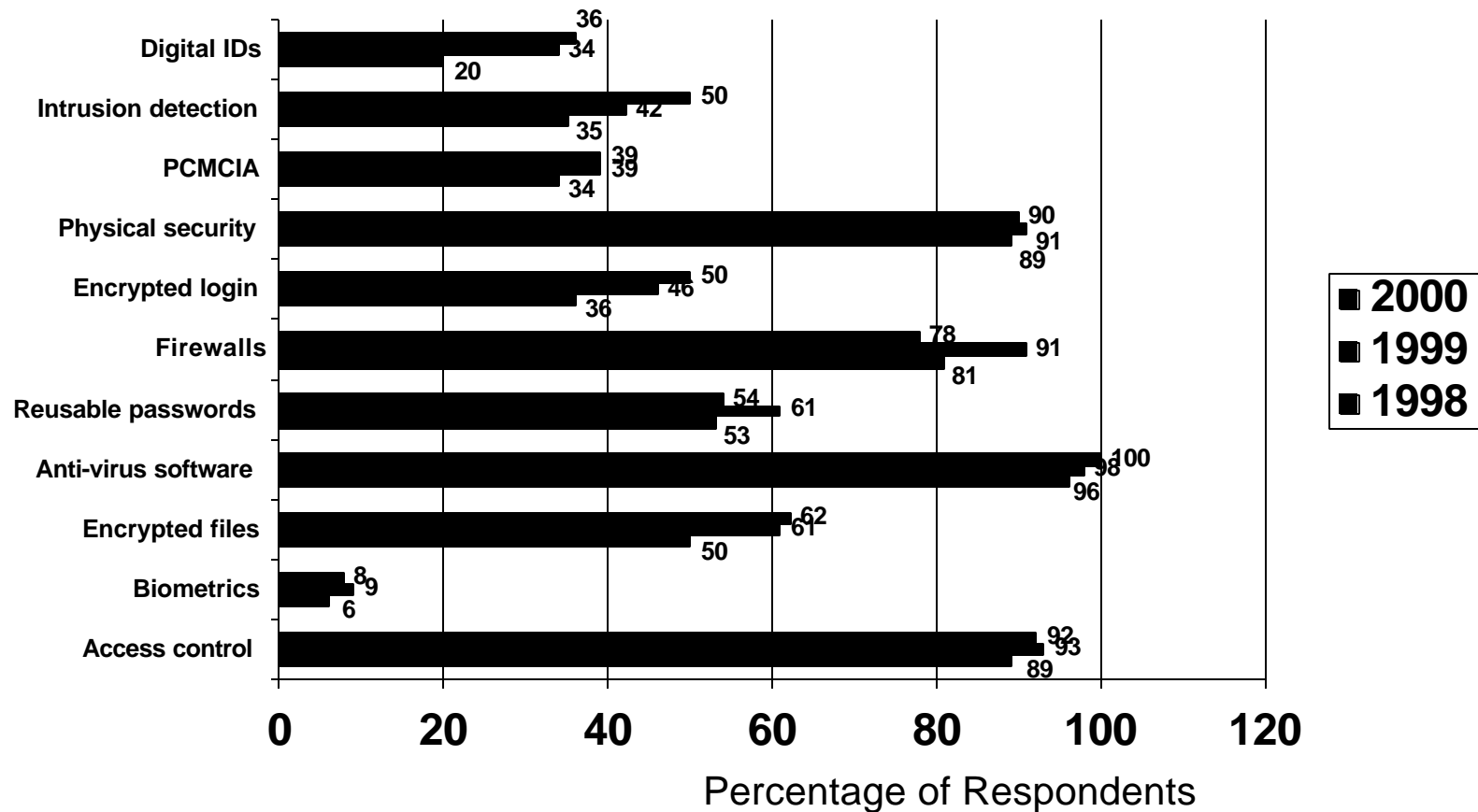
Respondents by number of employees



Respondents by gross income



Security technologies used

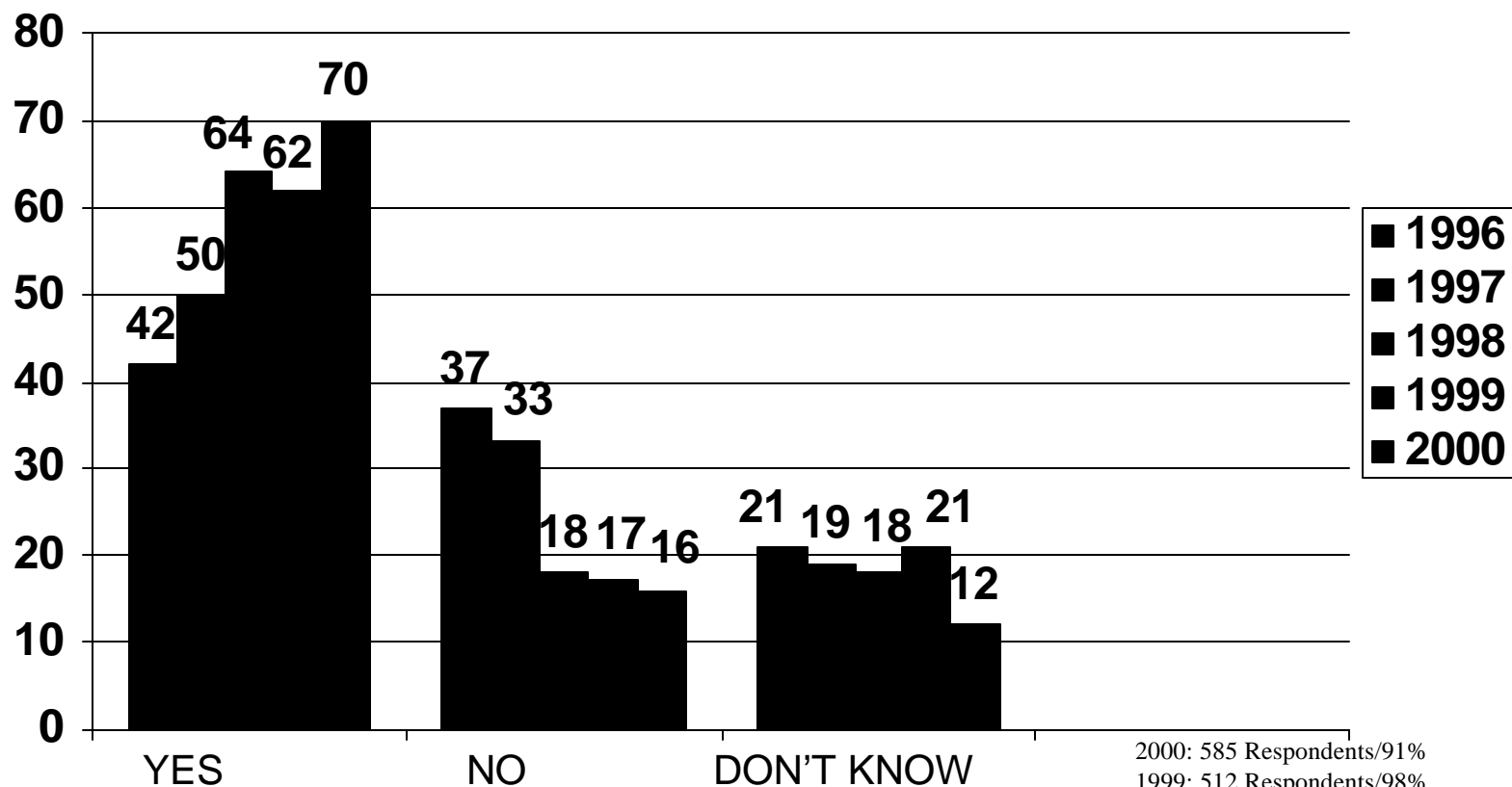


CSI/FBI 2000 Computer Crime and Security Survey
 Source: Computer Security Institute

1998: 512 Respondents/98%
 1999: 501 Respondents/96%
 2000: 629 Respondents/97%

Unauthorized use of computer systems within the last 12 months?

Percentage of Respondents



2000: 585 Respondents/91%
1999: 512 Respondents/98%
1998: 515 Respondents/99%
1997: 391 Respondents/69%
1996: 410 Respondents/96%

How many incidents? How many from outside? How many from inside?

How many incidents?

	1 TO 5	6 to 10	11 to 30	31 to 60	Over 60	Don't Know
2000:	33%	23%	5%	2%	6%	31%
1999:	34%	22%	7%	2%	5%	29%
1998:	61%	31%	6%	1%	2%	n/a
1997:	47.60%	22.50%	2.9% (*)	n/a	n/a	26.93%
1996:	45.8%	20.6%	12.2% (*)	n/a	n/a	21.2%

(2000: 392 Respondents/61%, 1999: 327 Respondents/63%, 1998: 234 Respondents/45%, 1997: 271 Respondents/48%, 1996: 179 Respondents/42%)

How many from the outside?

	1 TO 5	6 to 10	11 to 30	31 to 60	Over 60	Don't Know
2000:	39%	11%	2%	2%	4%	42%
1999:	43%	8%	5%	1%	3%	39%
1998:	74%	18%	6%	0%	3%	xx%
1997:	43.10%	9.91%	1.21% (*)	n/a	n/a	45.28%
1996:	n/a	n/a	n/a (**)	n/a	n/a	n/a

(2000: 341 Respondents/53%, 1999: 280 Respondents/54%, 1998: 142 Respondents/27%, 1997: 212 Respondents/41%, 1996: n/a)

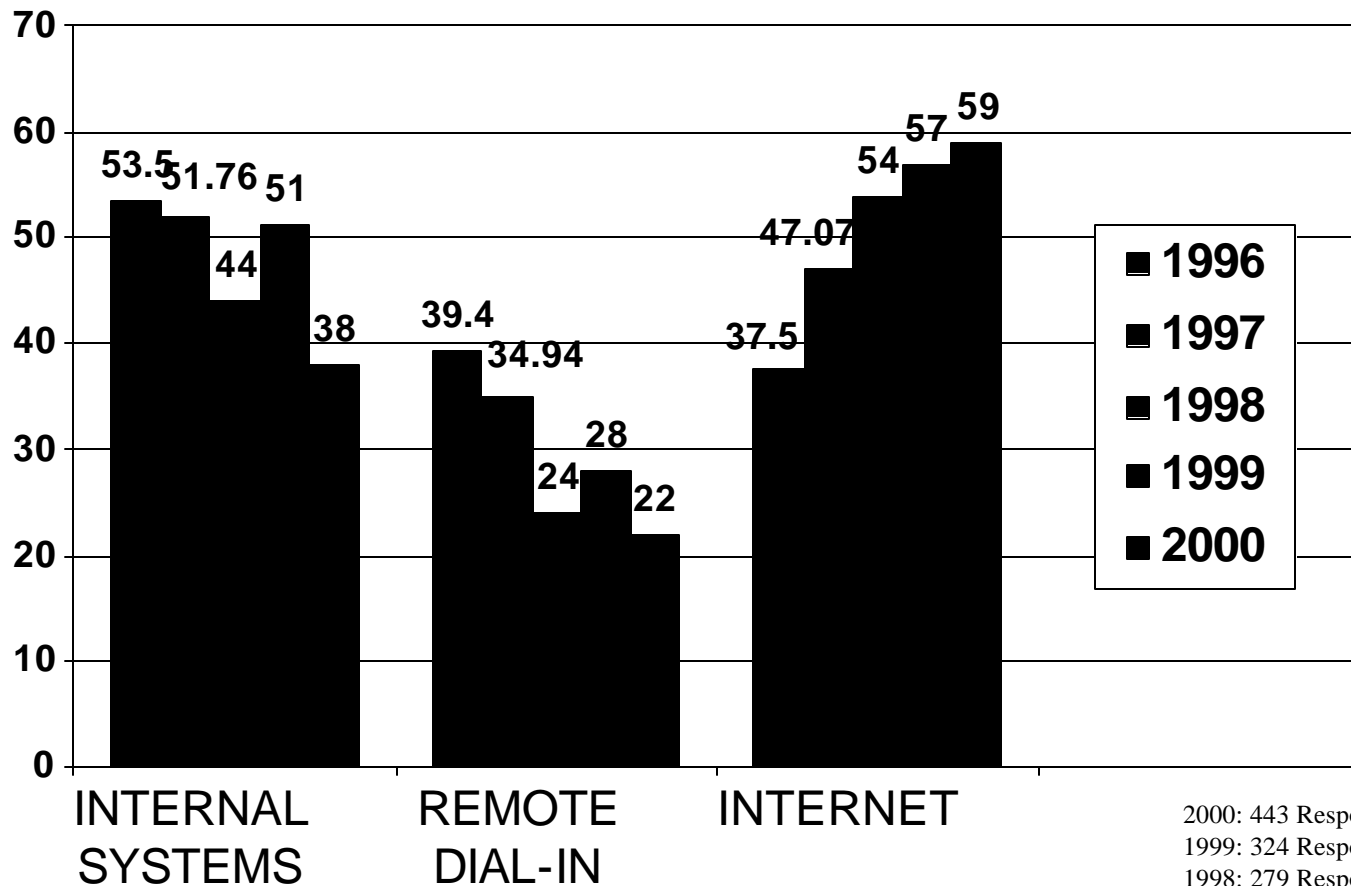
How many from the inside?

	1 TO 5	6 to 10	11 to 30	31 to 60	Over 60	Don't Know
2000	38%	16%	5%	1%	3%	37%
1999:	37%	16%	9%	1%	2%	35%
1998:	70%	20%	9%	1%	1%	n/a
1997:	47.20%	13.76%	3.21% (*)	n/a	n/a	35.32%
1996:	n/a	n/a	n/a (**)	n/a	n/a	n/a

(2000: 359 Respondents/55%, 1999: 308 Respondents/59%, 1998: 184 Respondents/36%, 1997: 218 Respondents/39%, 1996: n/a)

Internet connection is increasingly cited as a frequent point of attack

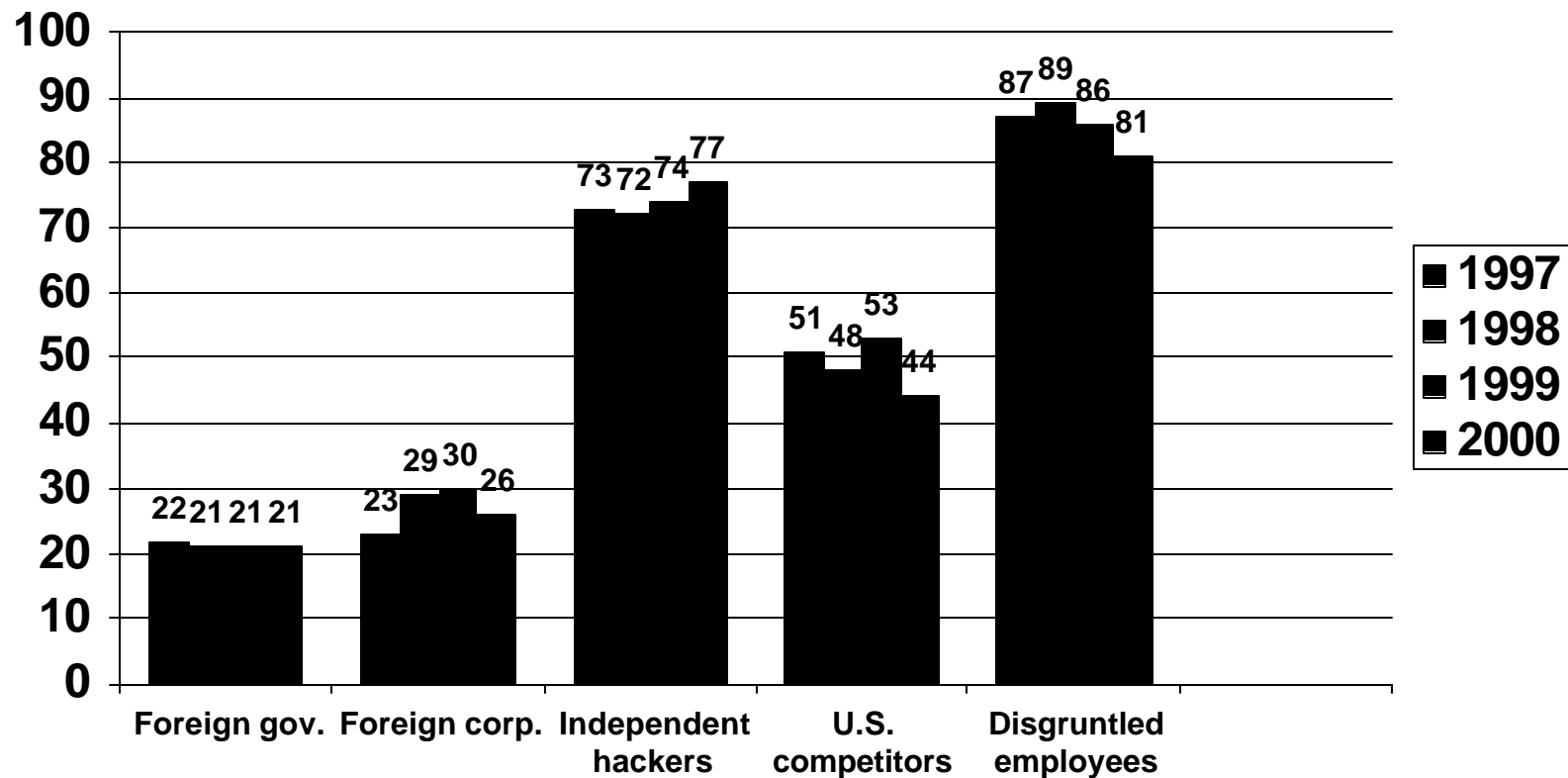
Percentage of Respondents



2000: 443 Respondents/68%
1999: 324 Respondents/62%
1998: 279 Respondents/54%
1997: 391 Respondents/69%
1996: 174 Respondents/40%

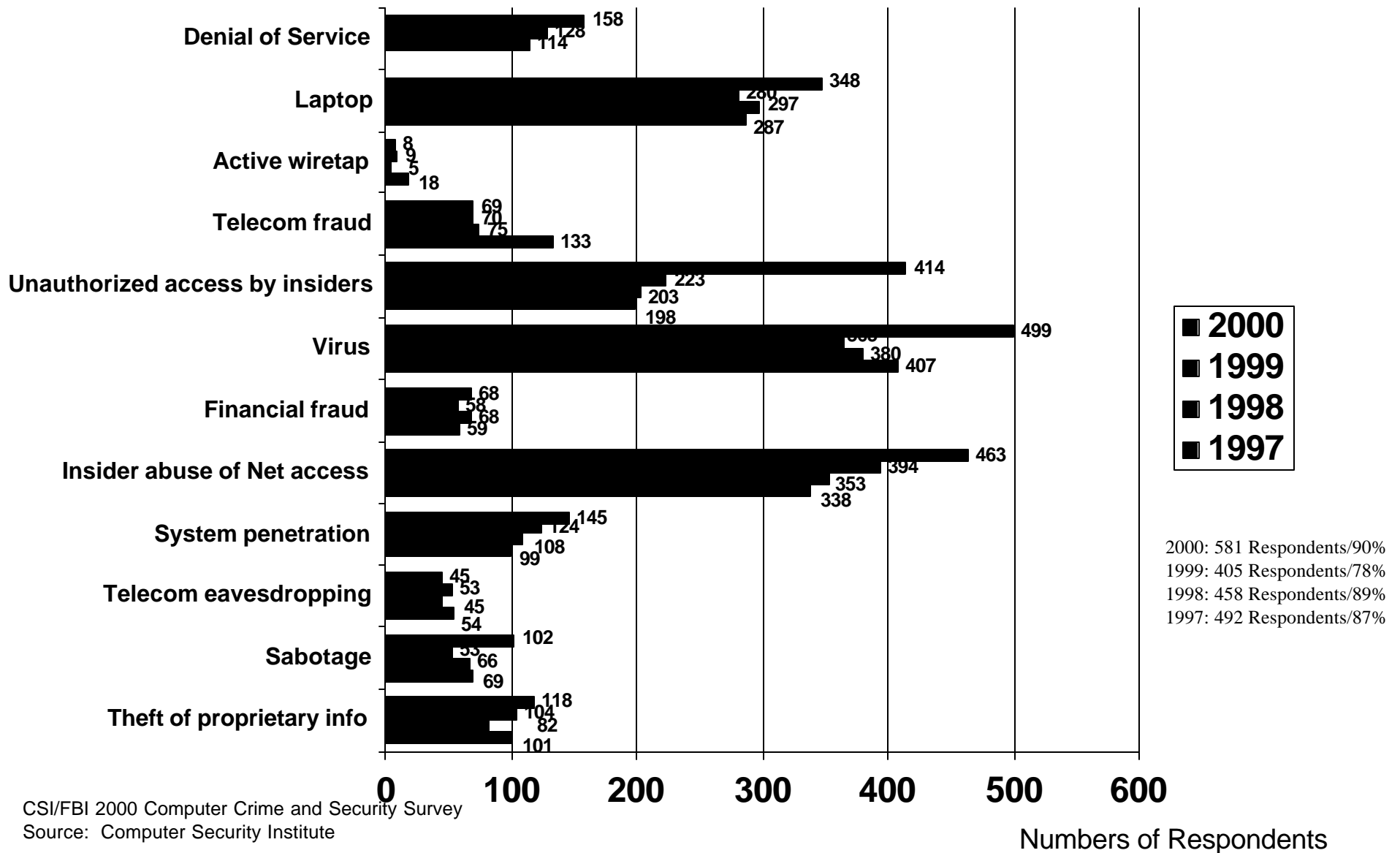
Likely sources of attack

Percentage of Respondents

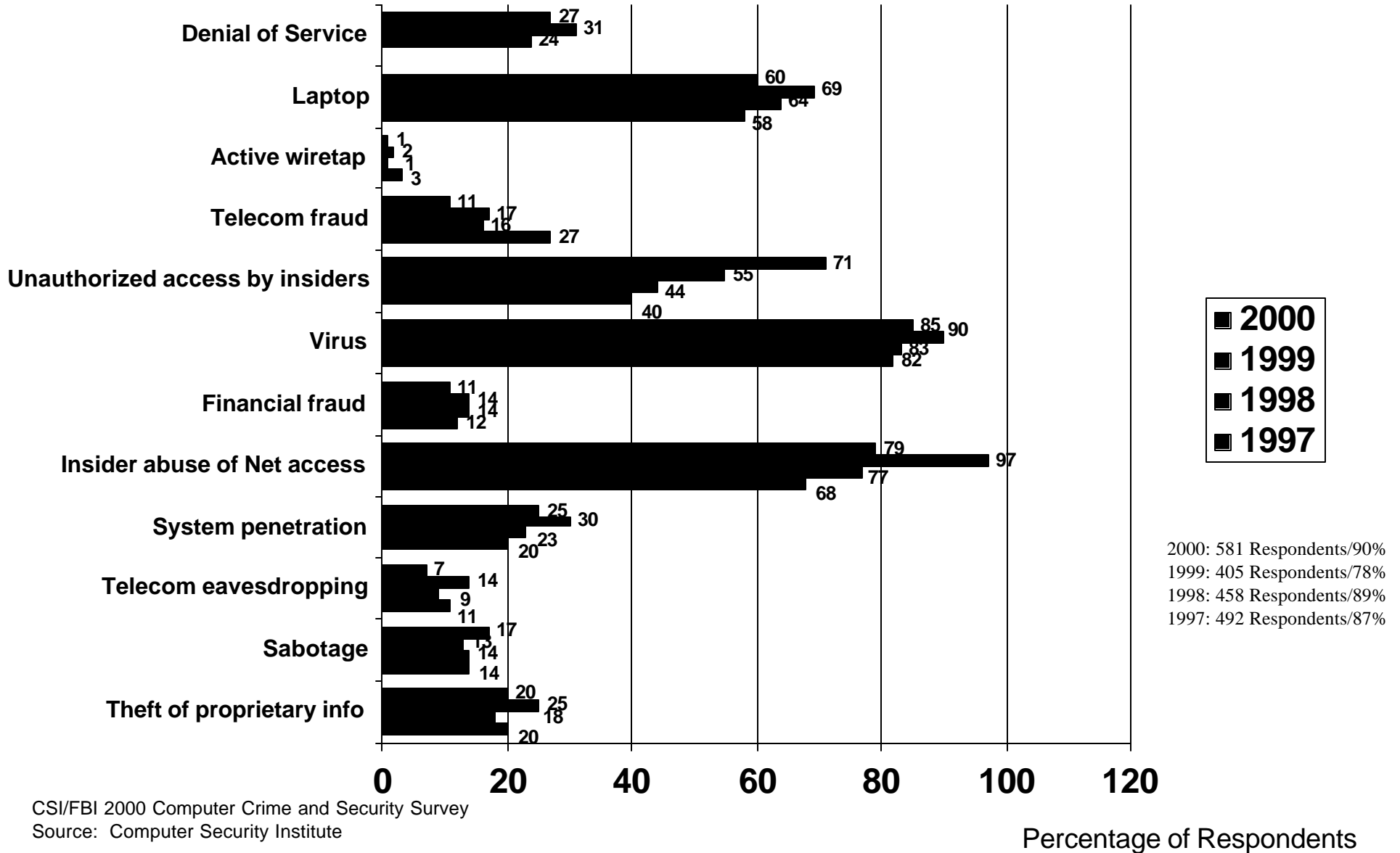


2000: 583 Respondents/90%
1999: 460 Respondents/88%
1998: 428 Respondents/83%
1997: 503 Respondents/89%

Types of attack or misuse detected within the last 12 months



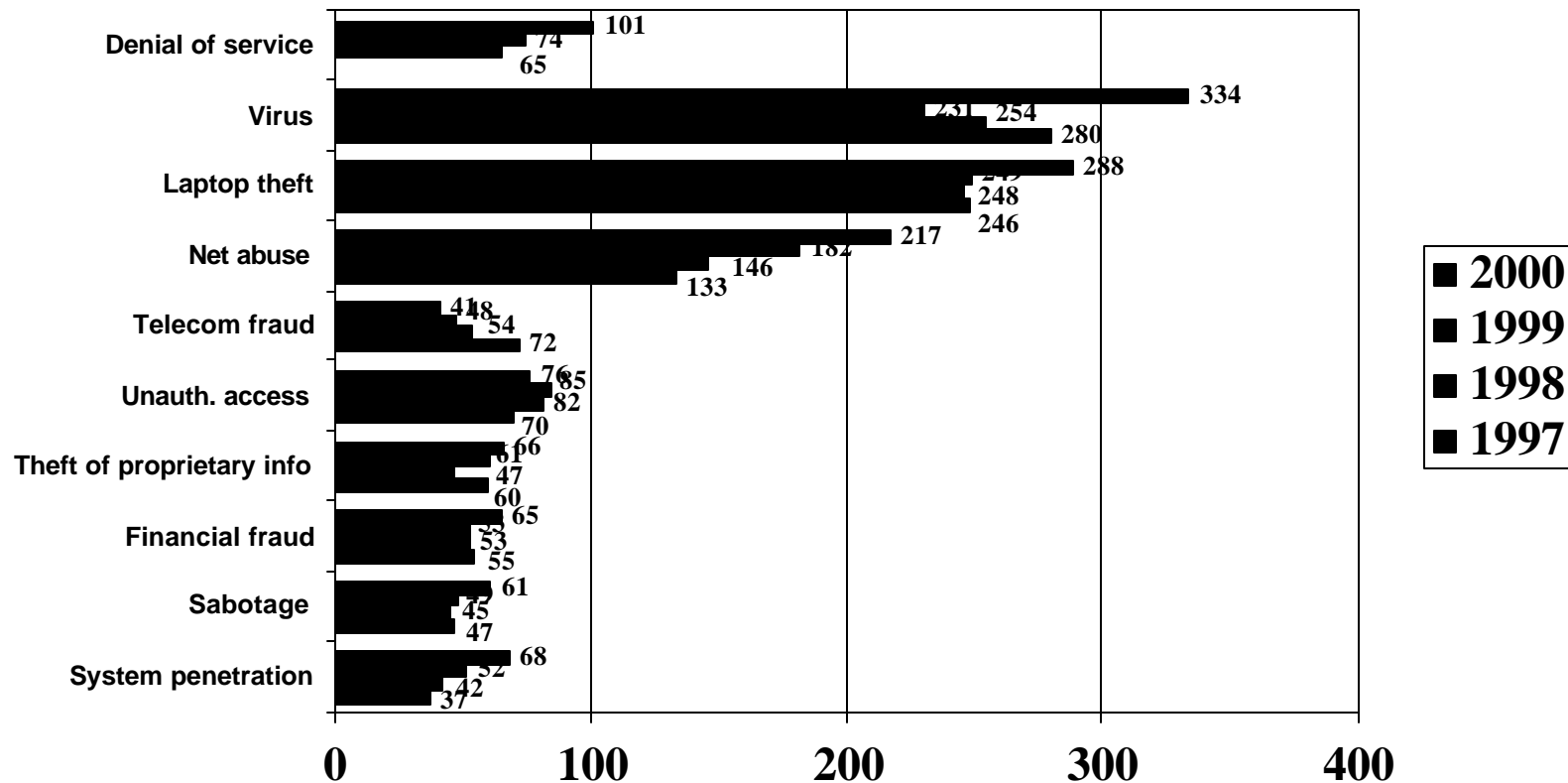
Types of attack or misuse detected in the last 12 months (by percent)



CSI/FBI 2000 Computer Crime and Security Survey
 Source: Computer Security Institute

Financial losses by type of attack or misuse

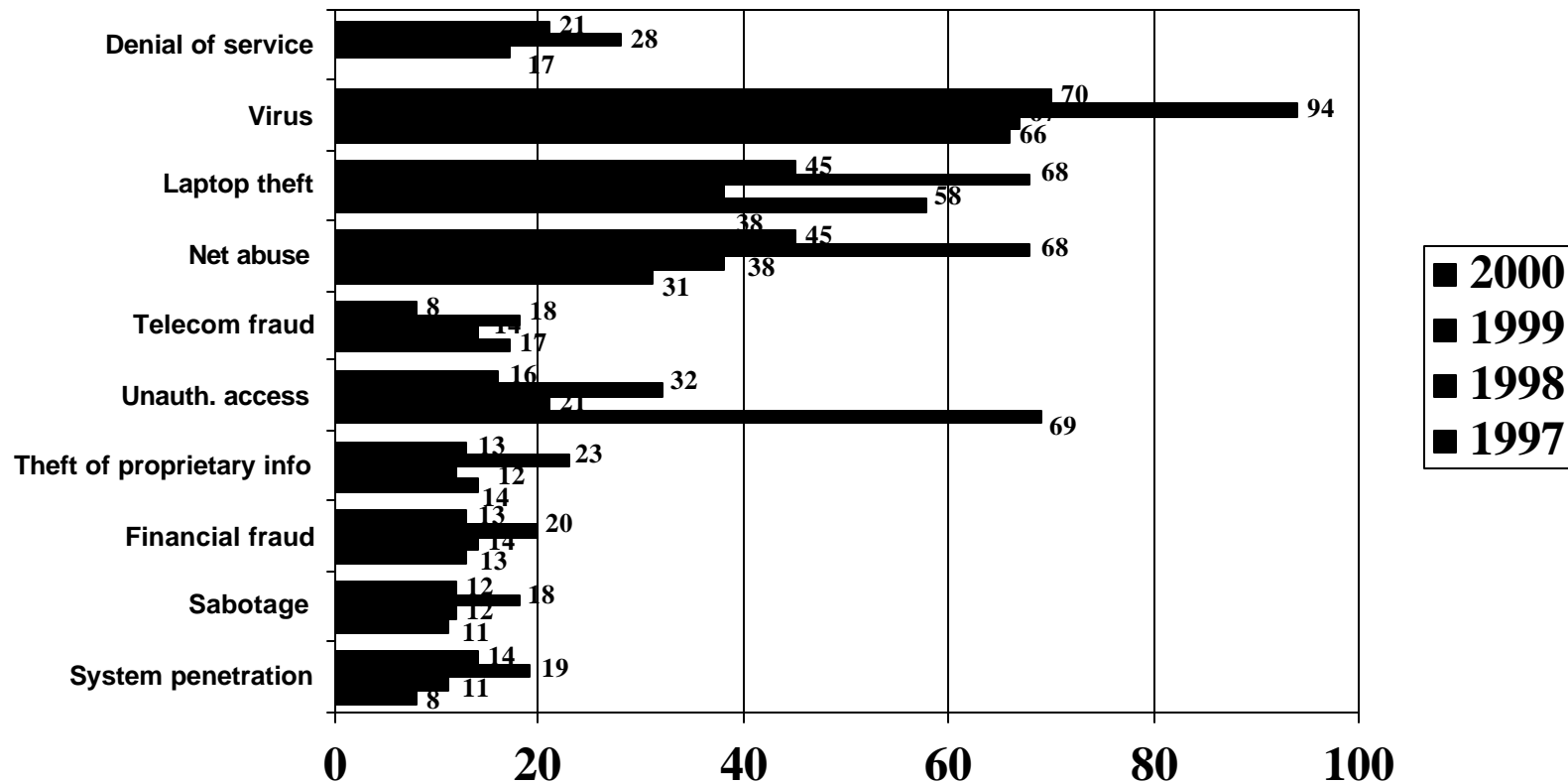
Number of Respondents



2000: 477 Respondents/74%
 1999: 265 Respondents/51%
 1998: 376 Respondents/73%
 1997: 422 Respondents/75%

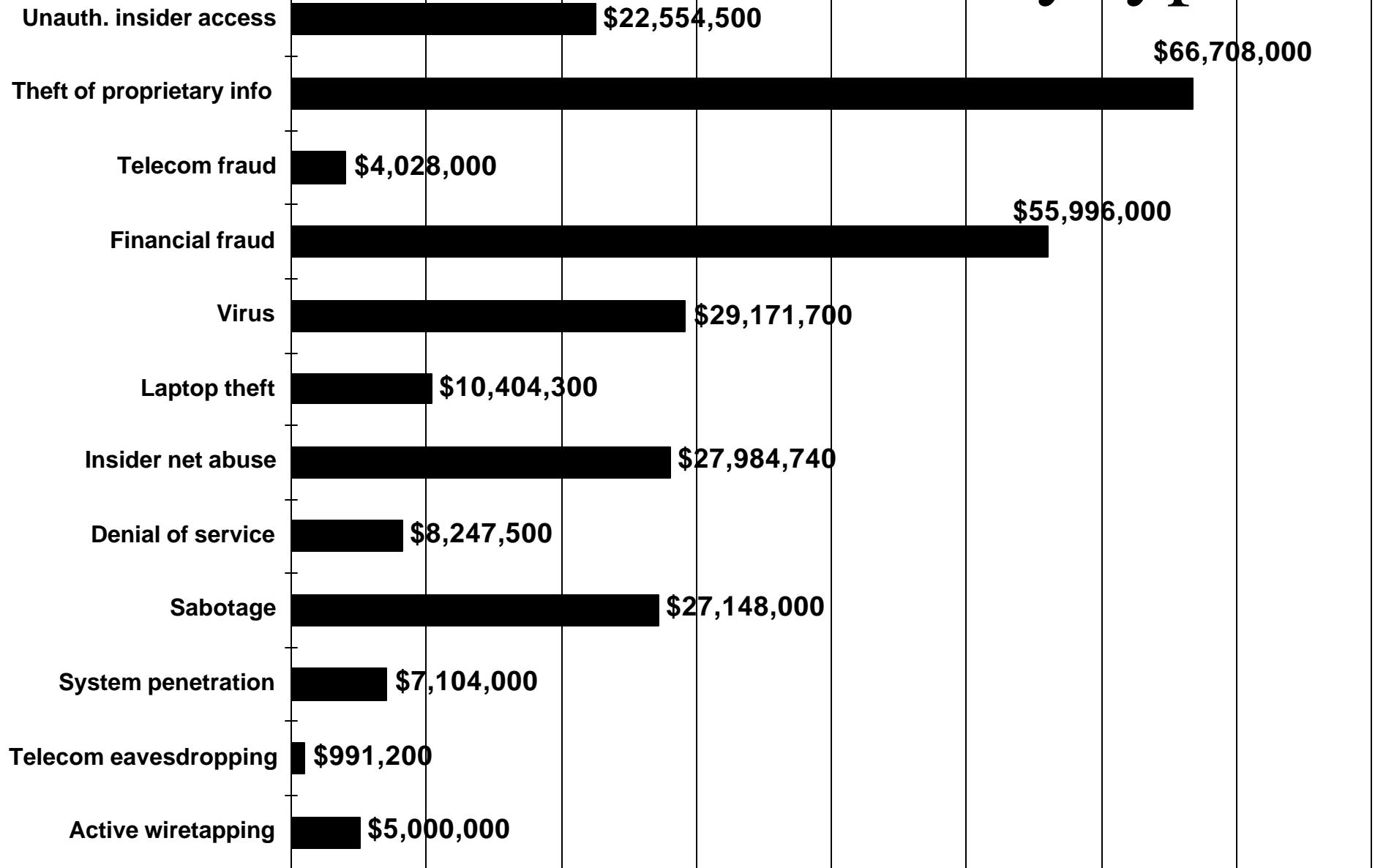
Financial losses by type of attack or misuse

Percentage of Respondents



2000: 477 Respondents/74%
 1999: 265 Respondents/51%
 1998: 376 Respondents/73%
 1997: 422 Respondents/75%

Dollar amount of losses by type



Financial losses aggregated

Financial losses summary

Cited financial losses due to security breaches:

1997: 75%, 1998: 73%, 1999: 51%, 2000:
74%

Willing and/or able to quantify their losses:

1997: 59%, 1998: 42%, 1999: 31%, 2000:
42%

Total dollar losses:

1997: 249 respondents, US\$100,119,555

1998: 241 respondents, US\$136,822,000

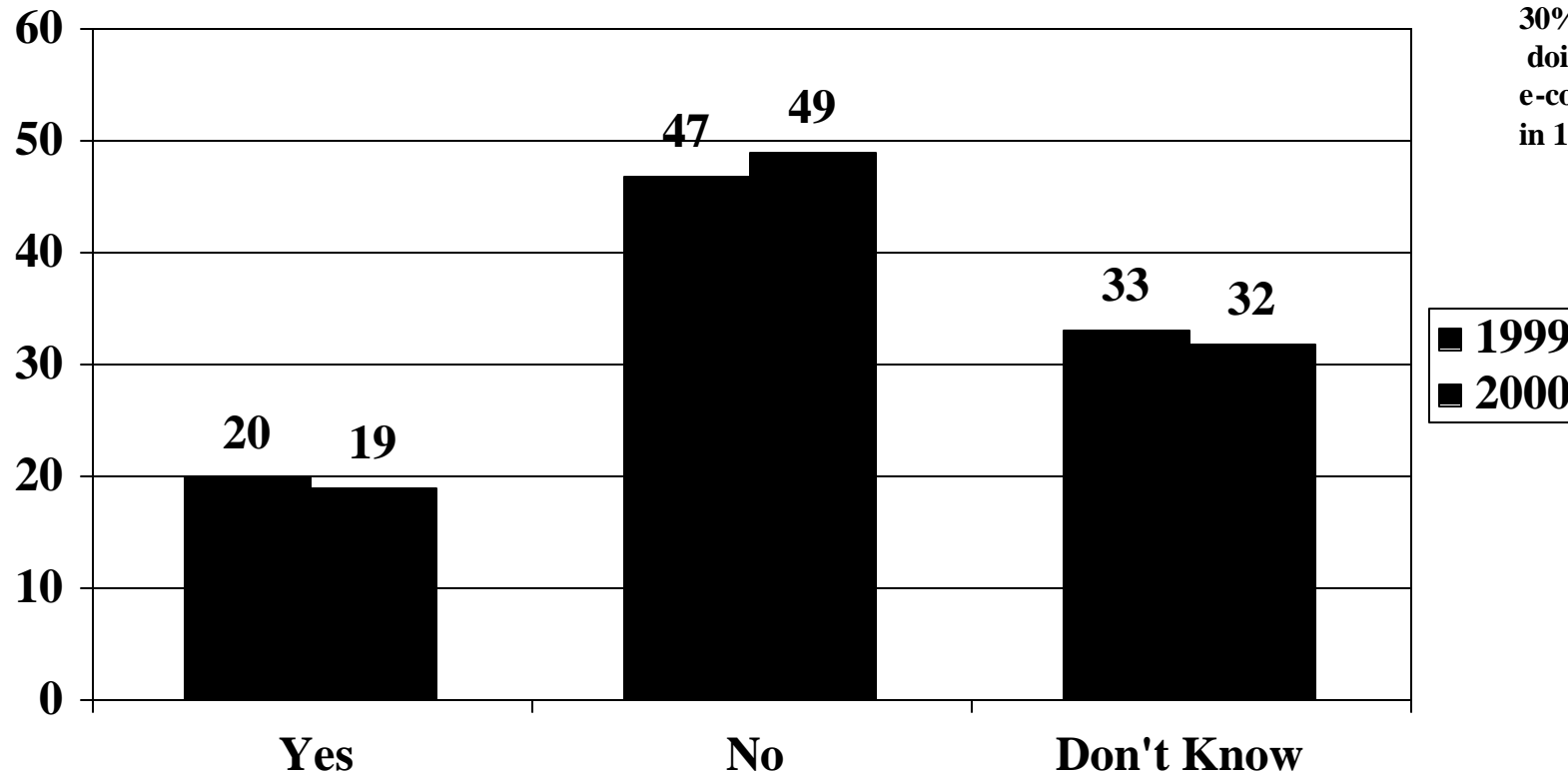
1999: 163 respondents, US\$123,779,000

2000: 273 respondents, US\$ 265,589,910

Has your WWW site suffered unauthorized access or misuse within the last 12 months?

95% of respondents have WWW sites, 43% provide electronic commerce services via their WWW sites, only 30% were doing e-commerce in 1999

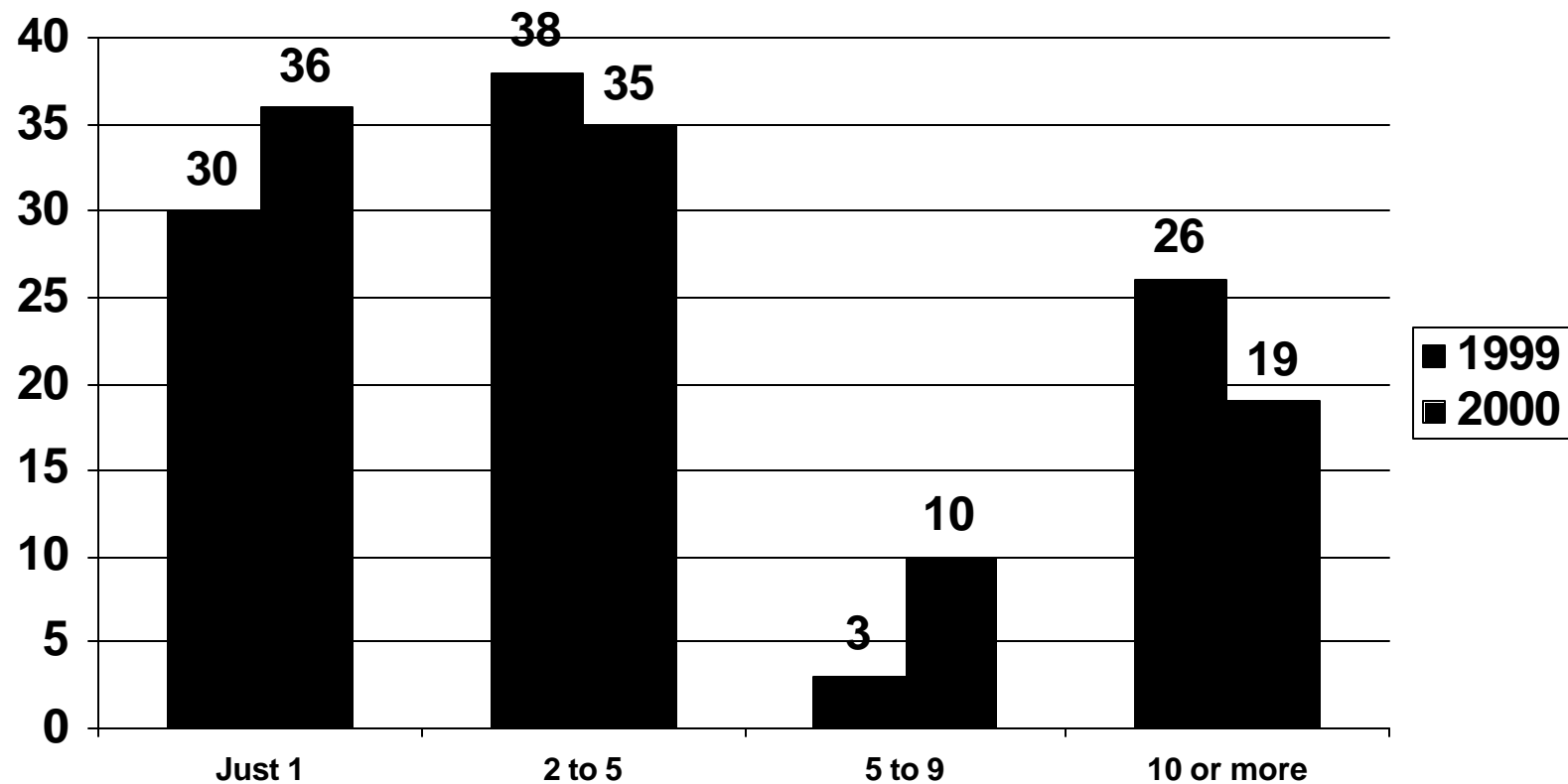
Percentage of Respondents



2000: 603 Respondents/93%
1999: 479 Respondents/92%

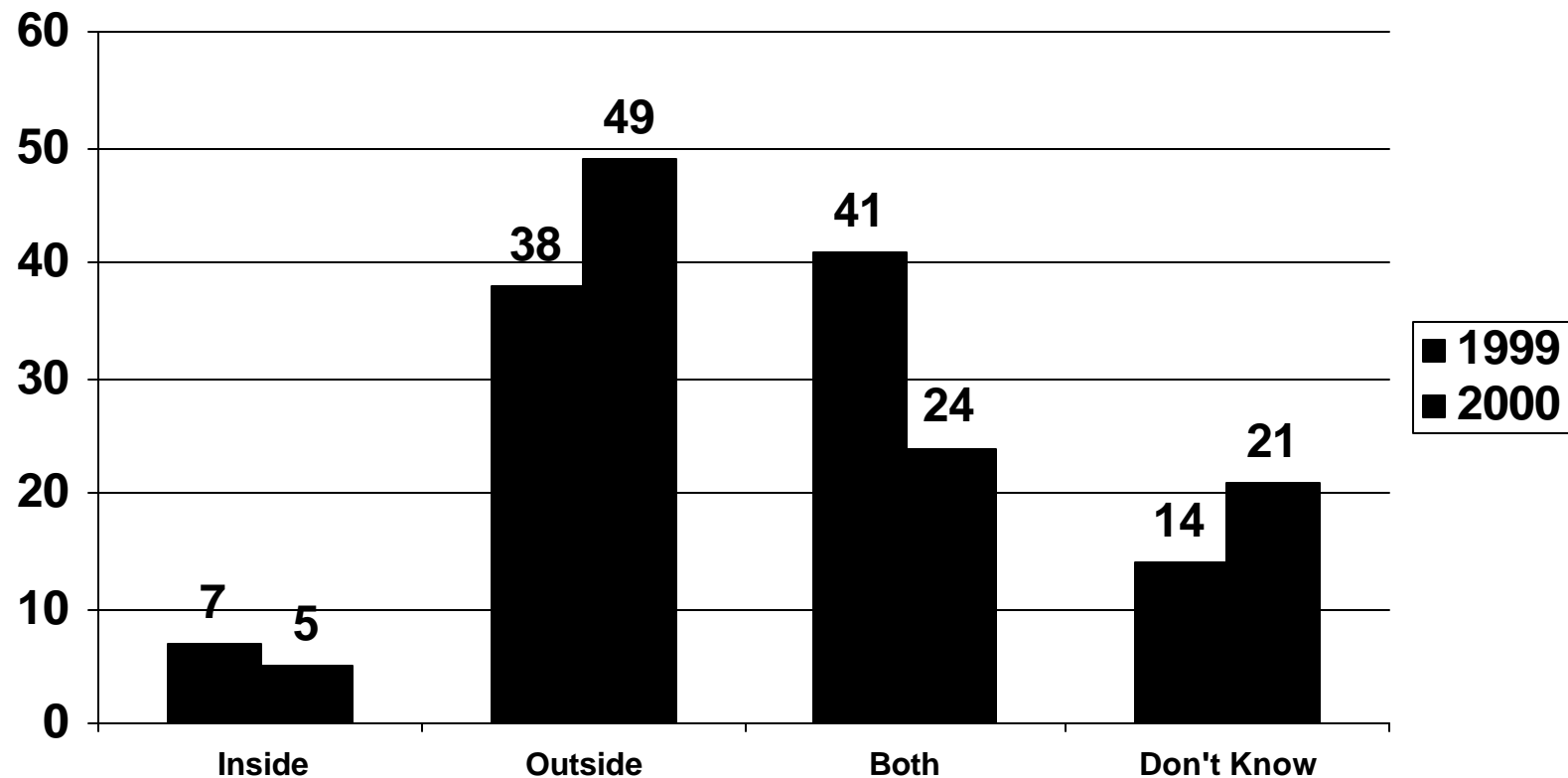
WWW site incidents: If yes, how many incidents?

Percentage of Respondents



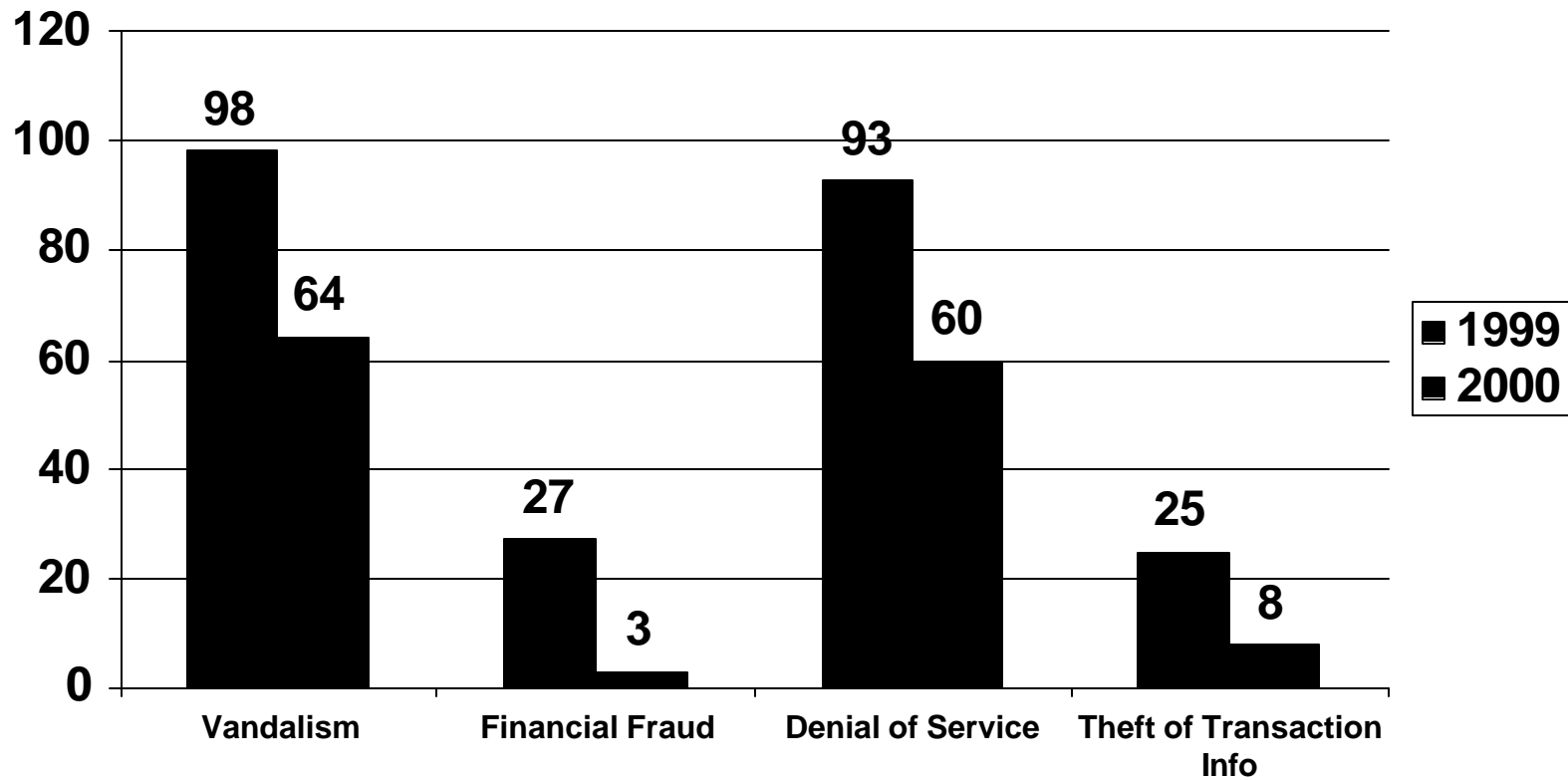
WWW site incidents: Did the attacks come from inside or outside?

Percentage of Respondents



WWW site incidents: What type of unauthorized access or misuse?

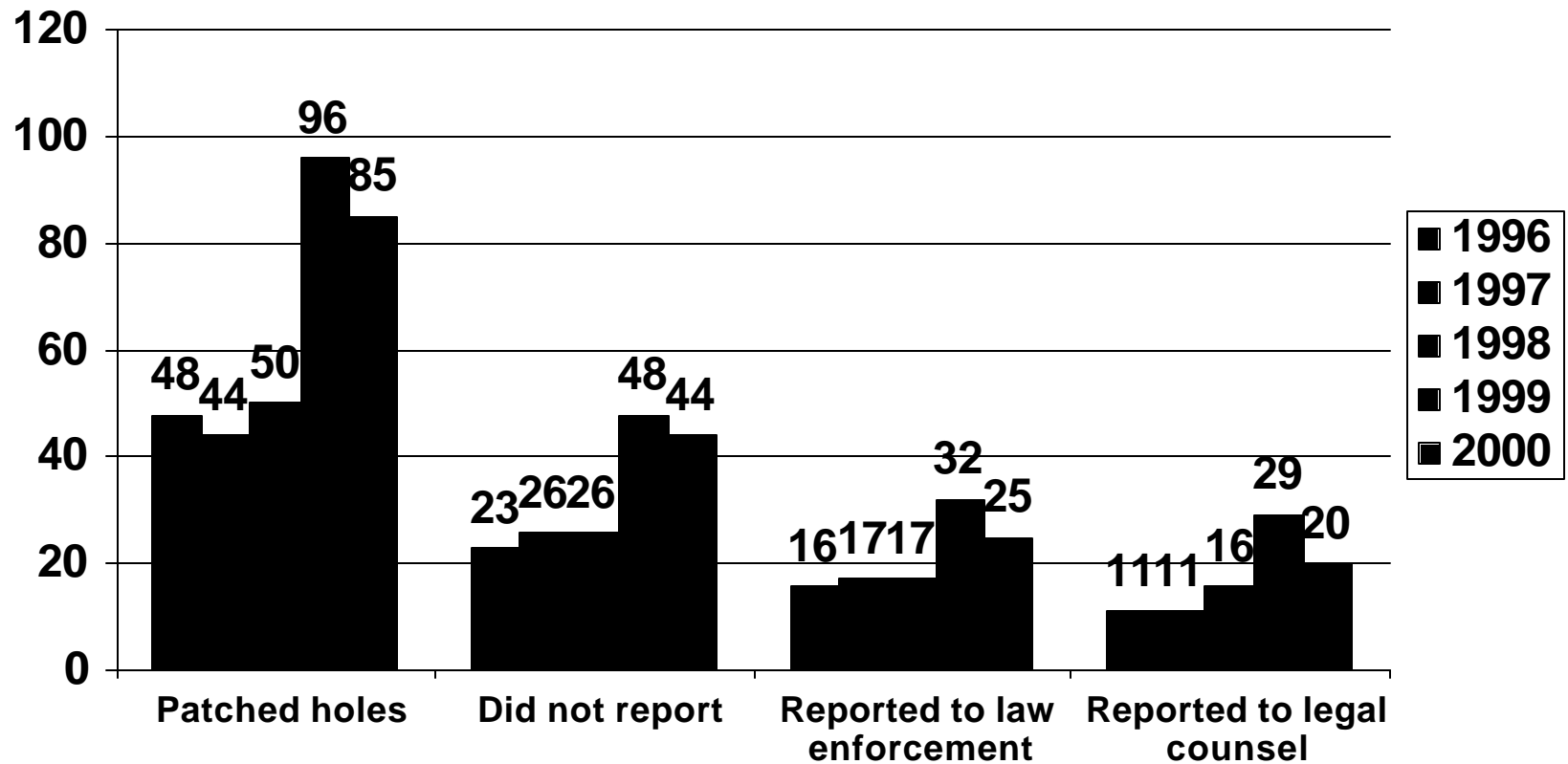
Percentage of Respondents



2000: 93 Respondents/14%
1999: 44 Respondents/8%

If your organization has experienced computer intrusion(s) within the last 12 months, which of the following actions did you take?

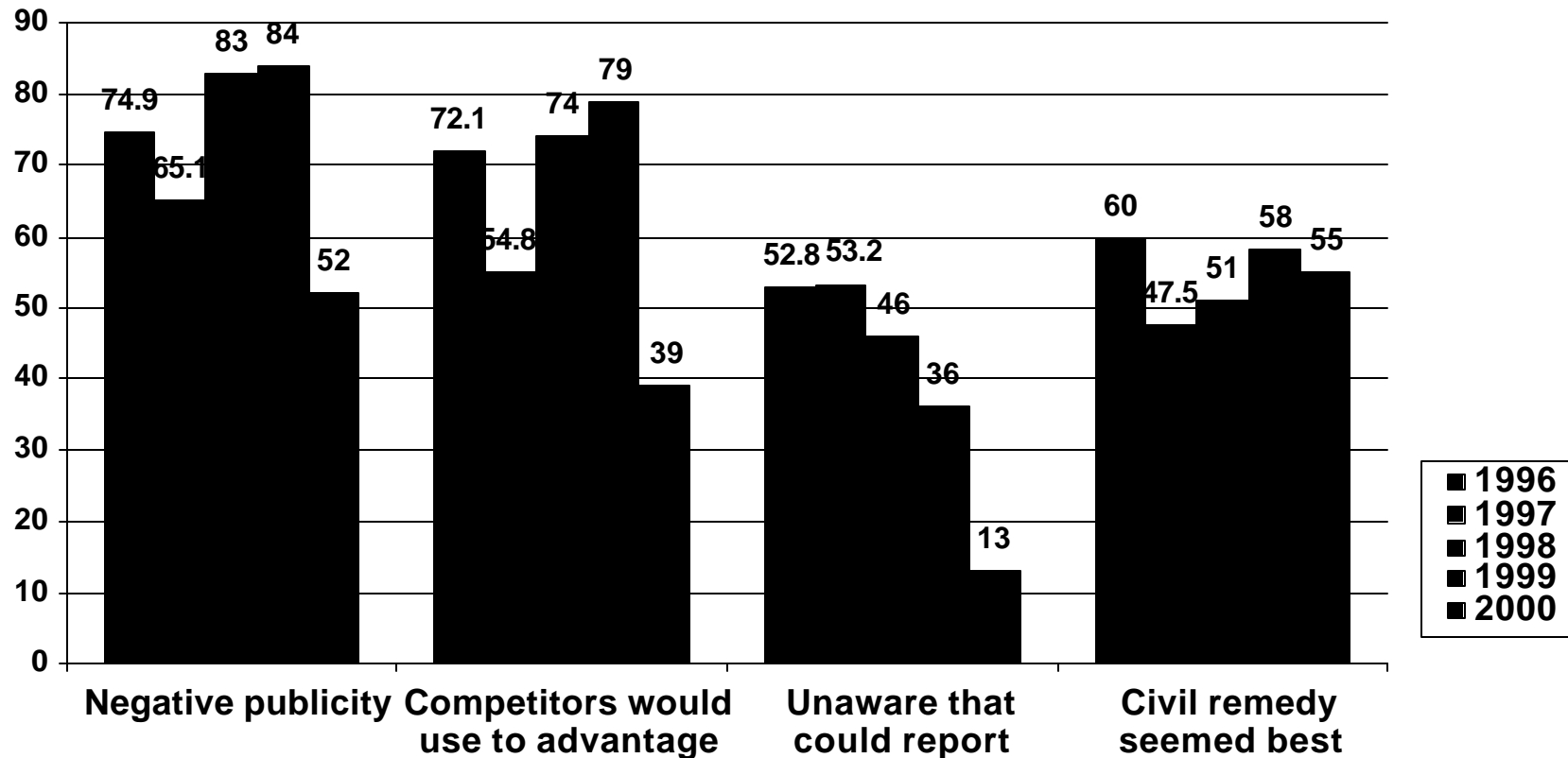
Percentage of Respondents



2000: 407 Respondents/63%
 1999: 295 Respondents/57%
 1998: 321 Respondents/72%
 1997: 317 Respondents/56%
 1996: 325 Respondents/76%

The reasons organizations did not report intrusions to law enforcement

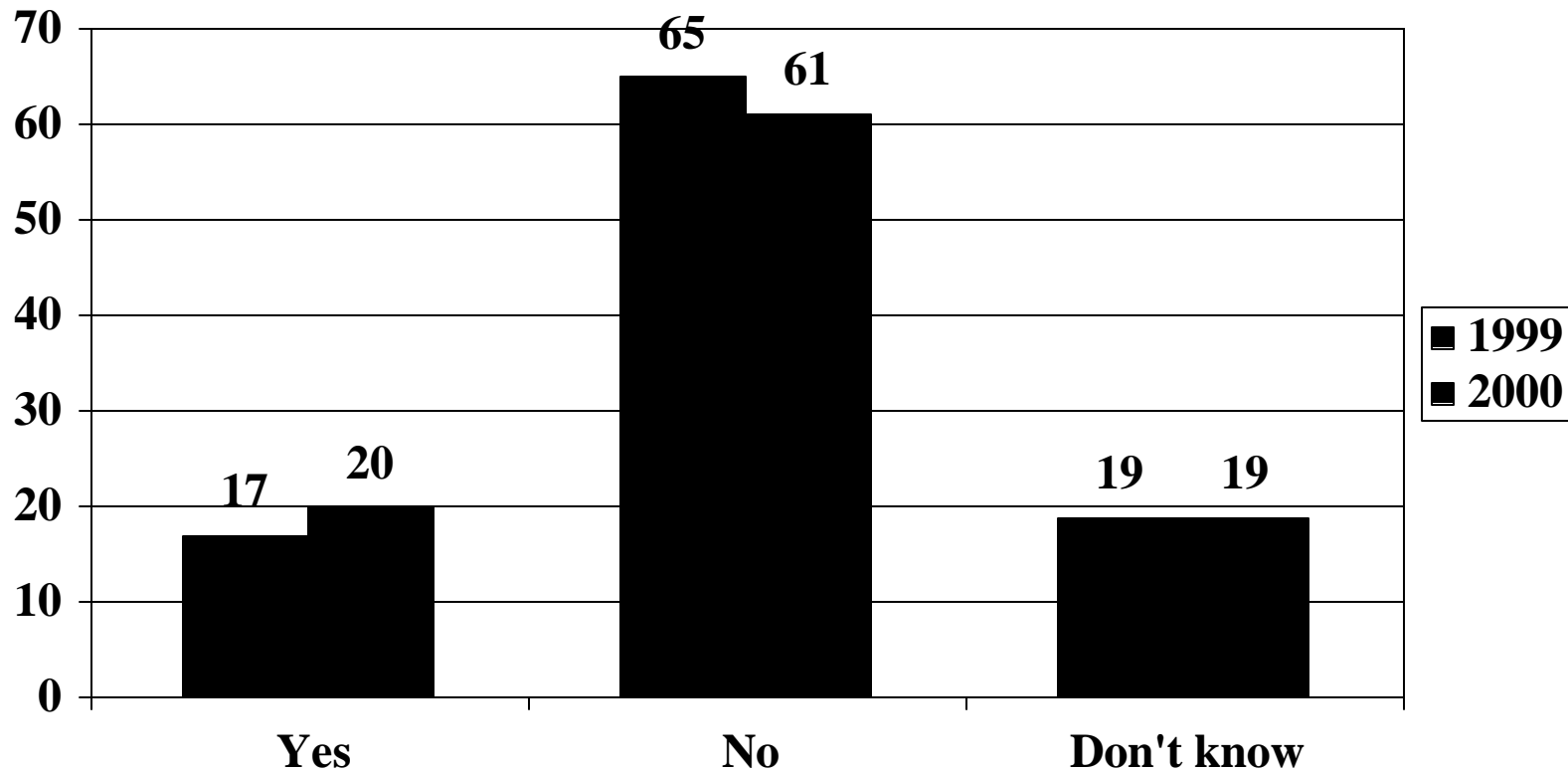
Percentage of Respondents



2000: 209 Respondents/32%
 1999: 107 Respondents/20%
 1998: 96 Respondents/19%
 1997: 142 Respondents/25%
 1996: 64 Respondents/15%

Would your organization consider hiring reformed hackers as consultants?

Percentage of Respondents



For further information, contact:

- Chris Beeson, Special Agent
S.F. Regional FBI Computer Crime Squad
22320 Foothill Blvd., Hayward, CA 94541
Ph: 510-886-7447 Fax: 510-886-4981
E-mail: nccs-sf@fbi.gov
- Richard Power, Editorial Director
Computer Security Institute
600 Harrison Street, San Francisco, CA 94107
Ph: 415-905-2370 Fax: 415-905-2218
E-mail: rpower@cmp.com