# The Distribution of Illegal Incident <br> Characteristics: Cases of Bank Fraud and Embezzlement, ComputerRelated Crime, and Insider Theft from Drug Manufacturers and Distributors 

J. M. Heineke and Associates

Prepared for
U.S. Nuclear Regulatory Commission

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## FOREWORD

This report was prepared by J. M. Heineke and Associates of Los Gatos, California under purchase order number 4910809 for Lawrence Livermore Laboratory (LLL).

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BANK FRAUD AND EMBEZZLEMENT (BF\&E) TABLES

## Perpetrator Position

Executive: President, Chairman of the Board, Director
Top Management: Cashier, Senior Vice President, Operation Officer
Trust Officer, Treasurer
Low-Middle Management: Assistant Cashier, Vice President, Branch Manager, Head Teller, etc.

Staff: Teller, Clerk, Bookkeeping department employees, etc.

## Methnd of Detection

Bank examination--represents a state or federal examination.
Audit--usually represents an internal audit, but occasionally indicates audit by outside firm.

Insider information--indicates perpetrator was detected via information furnished by fellow employee.

Outsider information--indicates perpetrator was detected via information supplied by individuals not employed by bank, usually a custamer and of ten a custamer complaint concerning same aspect of his dealings with the bank or perpetrator.

Confession--indicates both out and out confessions and errors on the part of the perpetrator which led to confession.

Absence--indicates perpetrator was detected while absent, usually on vacation or after death.

CONFUTER CRIME TABLES

Perpet-ator Position

Executive:
Cemp: Computer employee
Ncemp: Noncamputer employee

Unemp: Fimployee, position unknown
Corp: Corporation
Outsider: Nonemployee
Exemp: Ex-employee
Unknown: Unknown perpetrator
Student:

## Crime Category

Phydest: Physical destruction; facility, service, or hardware damage
Tinfo: Theft of information
Tinv: Theft of inventory
Datadest: Data destruction
Thw/sw: Theft of hardware and/or software
Nuse: Unauthorized use of data and/or service
Fraud: Fraud and/or embezzlement
Error: Keypunch or computer error

## Victim Institution

Fin: Finance; banking, insurance, securities
Govt: Federal, foreign, state, local government
Med: Medtsal
Educ: Educational
Salmfc: Sales and manufacturing; chemical and pharmaceutical, petroleum
Compub: Communications and publications
Tranutil: Transportation and utilities
Compserv: Computer service bureau, consulting, credit bureau
Proforg: Professional organizations, labor unions, fraternal and political organizations
Ind: Individuals

Three data sets were used to estimate joint ard conditional probability distributions between various variables of intrest in bank fraud and embezzlement (BF\&E) cases of $\$ 10,000$ dollars or more, computer-related crime cases of various types, and casts of insider theft fron drug manufacturers and distributors.

## INTRODUCTION

This report describes in tabular form the information contained in three rather extensive data sets frac sudustries facing insider threats which, in one cr more dimensions, are analogous to insider threats potentially confronting managers in the nuclear industry. The three data sets were obtained from banking, fram a number of industries directly dependent upon electronic data processing for accounting and inventory control, and from drug manufacturers and distributors.

The data in Tables 1 through 29 were computed from the 313 cases of bank fraud and embezzlement (BF\&E) representing losses of $\$ 10,000$ or more reported to the Federal Deposit Insurance Corporation (FDIC) for the period 1977-78. (See the appendix.)

The data in Tables 30 through 64 were computed fram the 461 cases of computer-related crime obtained from SRI International for the period 1958-78. These incidents include inventory manipulations designea co hide errors, phony entries used to cover embezzlements, schemes used to penetrate a system and surreptitiously bring about a system crash, and sabotage.

[^0]Y. . data in Tables 65 through 67 were computed fran data reported by the Drug Enforcement Agency (DEA) for the period 1973-78. These data, though limited, provided several interesting insights into the insider-threat problen. Because the drug data were available only as angregates, we were not able to provide the same detail as with the bank fraud and embezzlement and the computer-related crime data.

Analysis of these and other data sets*, conversations with investigators in a number of federal agencies, and discussions with individuals knowledgeable in the area of security breaches in both the private and public sector, have convinced us that insiders pose a substantial threat to the operation of nuclear facilities.
*These same data are subjected to further statistical analysis in J. M. Heineks and Associates, The Insider Threat to Secure Pacilities: Data Analysis, Lawrence Livermore Laboratory, Livermore, Calif., NUREG/CR-1234, UCRL-52744 (1979).

TABLE 1. Joint distribution of perpetrator position and method of detection: BF\&E cases, 1976-77. ${ }^{\text {a }}$

|  | Method of detection ${ }^{\mathrm{C}}$ |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Perpetrator | Bank |  | Outsider <br> position | Insider |  |  |
| examination | Audit | information | information | Confession | Absence |  |
| Executive | 0.121 | 0.058 | 0.018 | 0.033 | 0.058 | 0.003 |
| Top management | 0.033 | 0.025 | 0.011 | 0.014 | 0.025 | 0.003 |
| Low/middle <br> management | 0.044 | 0.121 | 0.018 | 0.066 | 0.125 | 0.003 |
| Staff | 0.022 | 0.062 | 0 | 0.040 | 0.084 | 0.003 |
| Branch <br> manager | 0.007 | 0.029 | 0.007 | 0.007 | 0.018 | 0 |

$\mathrm{a}_{\text {Total }}$ number of cases with data on each variable is 292 . Rounding error may cause totals to deviate from one.
$b_{\text {First }}$ four positions are mutually exclusive and exhaustive; in conspiracy cases the position of the highest ranking perpetrator is listed. The category branch manager stands alone and is reported whether or not a branch manager was the highest ranking perpetrator.
${ }^{\text {C See }}$ Abbreviations and Definitions.

TABLE 2. Distribution of perpetrator position, conditional on method of detection: BF\&E cases, 1976-77. ${ }^{\text {a }}$

| Given that method of detection is ${ }^{\text {b }}$; | Distribution of perpetrator position is ${ }^{\text {c }}$ : |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Executive | Top <br> management | Low/middle management | Staff | Branch manager |
| Bank examination | 0.55 | 0.15 | 0.20 | 0.10 | 0.03 |
| Audit | 0.22 | 0.10 | 0.45 | 0.23 | 0.11 |
| Insider information | 0.38 | 0.23 | 0.38 | 0 | 0.15 |
| Outsider information | 0.21 | 0.10 | 0.43 | 0.26 | 0.05 |
| Confession | 0.20 | 0.09 | 0.43 | 0.29 | 0.06 |
| Absence | 0.25 | 0.25 | 0.25 | 0.25 | 0 |

[^1]TABLE 3. Distribution of method of detection, conditional on perpetrator position: BF\&E cases, 1976-77. ${ }^{\text {a }}$

| Given that perpetrator position is ${ }^{b}$ : | Distribution of method of detection is ${ }^{\text {c }}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Bank examination | Audit | Insider information | Outsider information | Confession | Absence |
| Executive | 0.41 | 0.20 | 0.06 | 0.11 | 0.20 | 0.01 |
| Top management | 0.29 | 0.23 | 0.10 | 0.13 | 0.23 | 0.03 |
| Low/middle management | 0.12 | 0.32 | 0.05 | 0.17 | 0.33 | 0.01 |
| Staff | 0.10 | 0.29 | 0 | 0.19 | 0.40 | 0.02 |
| Branch manager | 0.11 | $0.42^{\circ}$ | 0.11 | 0.11 | 0.26 | 0 |

a Total number of cases with data on each variable is 272 . Rounding error may cause totals to deviate fran one.
$\mathrm{b}_{\text {First }}$ four positions are mutually exclusive and exhaustive; in conspiracy cases the position of the highest ranking perpetrator is listed. The category branch manager stands alone and is reported whether or not a branch manager was the highest ranking perpetrator.
${ }^{{ }^{\text {C See }}}$ Abbreviations and Definitions.

TABLE 4. Distribution of bank fraud and embezzlement cases by perpetrator position: 1976-77. ${ }^{\text {a }}$

| Perpetrator position |  |
| :--- | :---: |
| Executive | Distribution |
| Top management | 0.30 |
| Low/middle management | 0.12 |
| Staff | 0.29 |
| Branch manager | 0.21 |
|  | 0.08 |

[^2]TABLE 5. Distribution of collusive attacks on banks, conditional on perpetrator position: BF\&E cases, 1976-77. a

Proportion of

Given that perpetrator position is ${ }^{b}$ :
cases with collusion among perpetrators is:
Executive 0.71
Top management 0.18
Low/middle management 0.30
Staff 0.14

| Branch manager | 0.28 |
| :--- | :--- |

[^3]TABLE 6. Joint distribution of perpetrator position and number of perpetrators: BF\&E cases, 1976-77. ${ }^{\text {a }}$

| Number cf perpetrators | Perpetrator position ${ }^{\text {b }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Executive | Top <br> management | Low middle management | Staff | Branch <br> Manager |
| 1 | 0.083 | 0.094 | 0.276 | 0.175 | 0.048 |
| 2 | 0.108 | 0.007 | 0.063 | 0.018 | 0.003 |
| 3 | 0.042 | 0.011 | 0.035 | 0.004 | 0.010 |
| 4 | 0.021 | 0 | 0.018 | 0 | 0.006 |
| 5 or greater | 0.032 | 0.004 | 0.004 | 0.007 | 0 |

$\mathrm{a}_{\text {Total }}$ number of cases with data on each variable is 286 . Rounding error may cause totals to deviate from one.
$b_{\text {First }}$ four positions are mutually exclusive and exhaustive; in conspiracy cases the position of the highest ranking perpetrator is listed. The category branch manager stands alone and is reported whether or not a branch manager was the highest ranking perpetrator.

TABLE 7. Distribution of perpetrator position, conditional on conspiracy size: BF\&E cases, 1976-77. ${ }^{\text {a }}$

| Given that conspiracy size is: | Distribution of perpetrator position is: ${ }^{\text {b }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Executive | $\begin{gathered} \text { Top } \\ \text { management } \end{gathered}$ | Low/middle management | Staff | Branch manager |
| 1 | 0.13 | 0.15 | 0.44 | 0.28 | 0.08 |
| 2 | 0.55 | 0.04 | 0.32 | 0.09 | 0.02 |
| 3 | 0.46 | 0.12 | 0.38 | 0.04 | 0.12 |
| 4 | 0.55 | 0 | 0.45 | 0 | 0.18 |
| 5 or greater | 0.69 | 0.07 | 0.08 | 0.15 | 0 |

$a_{\text {Total }}$ number of cases with data on each variable is 286 . Rounding errors may cause totals to deviate fran one.
$b_{\text {First }}$ four positions are mutually exclusive and exhaustive; in conspiracy cases the position of the highest ranking perpetrator is listed. The category branch manager stands alone and is reported whether or not a branch manager was the highest ranking perpetrator.

TABLE 8. Distribution of conspiracy size, conditional on perpetrator position: BF\&E cases, 1976-77. ${ }^{\text {a }}$

| Given that <br> perpetrator |  |  | Distribution of conspiracy size is: |
| :--- | :---: | :---: | :---: | :---: | :---: |

[^4]TABLE 9. Distribution of number of perpetrators, conditional on bank oize: BF\&E cases, 1976-77. a

| Given that | Distribution of number of perpetrators is: |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| bank size is | 1 | 2 | 3 | 4 | 5 or greater |
| Small | 0.57 | 0.27 | 0.11 | 0.05 | 0 |
| Medium | 0.65 | 0.2 | 0.07 | 0.03 | 0.04 |
| Large | 0.65 | 0.12 | 0.11 | 0.03 | 0.09 |

[^5]TABLE 10. Joint distribution of bank size and number of per detrators: BF\&E cases, 1976-77. a

| Number of <br> perpetrators | Small | Bank size ${ }^{\mathrm{b}}$ |  |
| :---: | :---: | :---: | :---: |
|  | 0.13 | Medium | Large |
|  | 0.06 | 0.34 | 0.17 |
| 2 | 0.02 | 0.1 | 0.03 |
| 4 | 0.01 | 0.04 | 0.03 |
| 5 or greater | 0 | 0.02 | 0.01 |

$a_{\text {Total }}$ number of cases with data on each variable is 284. Rounding errors may cause totals to deviate fram one.
$b_{\text {Bank size: }}$ small $=$ up to $\$ 10,000,000$ in deposits. medium $=\$ 10,000,000-\$ 100,000,000$ in deposits.
large $=$ over $\$ 100,000,000$ in deposits.

TABLE 11. Listribution of bank size, conditional on number of perpetrators: BF\&E cases, 1976-77. ${ }^{\text {a }}$

| Given that <br> number of <br> numperpators is: | Distribution of bank size is ${ }^{\text {b }}$ : |  |  |
| :--- | :--- | :---: | ---: |
| perpetr | Medium | Large |  |
| 1 | 0.2 | 0.53 | 0.27 |
| 2 | 0.31 | 0.53 | 0.16 |
| 3 | 0.27 | 0.42 | 0.31 |
| 4 | 0.3 | 0.5 | 0.2 |


| 5 or greater | 0 | 0.46 | 0.54 |
| :--- | :--- | :--- | :--- |

$a_{\text {Total }}$ number of cases with data on each variable is 284. Rounding errors may cause totals to deviate fram one.
bank size: small =up co $\$ 10,100,000$ in deposits. medium $=\$ 10.000,000-\$ 100,000,000 \mathrm{in}$ deposits.
large $=$ over $\$ 100,000,000$ in deposits.

TABLE 12. Joint distribution of method of detection and number of perpetrators: $\mathrm{BF} \mathrm{\& E}$ cases, 1976-77. ${ }^{\text {a }}$

|  | Method of detection ${ }^{\mathrm{b}}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of <br> perpetrators | Bank | examination | Audit | Insider | Outsider |  |
| 1 | 0.1 | 0.18 | 0.03 | 0.11 | 0.18 | 0.01 |
| 2 | 0.05 | 0.06 | 0.01 | 0.02 | 0.06 | 0.01 |
| 3 | 0.04 | 0.02 | 0.01 | 0.01 | 0.02 | 0 |
| 4 | 0.02 | 0 | 0 | 0 | 0.01 | 0 |
| 5 or greater | 0.01 | 0.01 | 0 | 0 | 0.02 | 0 |

[^6]TABLE 13. Distribution of method of detection, conditional on number of perpetrators: BF\&E cases, 1976-77. ${ }^{\text {a }}$

| Given that number of perpetrators is: | Distribution of method $c \hat{f}$ detection is ${ }^{\text {b }}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Bank examination | Audit | Insider <br> information | Outsider <br> information | Confession | Absence |
| 1 | 0.17 | 0.30 | 0.05 | 0.18 | 0.29 | 0.01 |
| 2 | 0.24 | 0.28 | 0.05 | 0.1 | 0.29 | 0.03 |
| 3 | 0.37 | 0.19 | 0.07 | 0.15 | 0.22 | 0 |
| 4 | 0.45 | 0.09 | 0.09 | 0.09 | 0.27 | 0 |
| 5 or greater | 0.15 | 0.31 | 0 | 0.08 | 0.46 | 0 |

atotal number of cases with data on each variable is 274 . Rounding errors may cause totals to deviate from one.
$\mathrm{b}_{\text {See }}$ Abbreviations and Definitions.

TABLE 14. Distribution of number of perpetrators, conditional on method of detection: BF\&E cases, 1976-77. ${ }^{\text {a }}$

| Given that method of | Distribution of number of perpetrators is: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\text { detection is }{ }^{\mathrm{b}} \text { : }$ | 1 | 2 | 3 | 4 | 5 or greater |
| Bank examination | 0.47 | 0.24 | 0.17 | 0.08 | 0.03 |
| Audit | 0.65 | 0.21 | 0.07 | 0.01 | 0.05 |
| Insider <br> information | 0.57 | 0.21 | 0.14 | 0.07 | 0 |
| Outsider information | 0.71 | 0.14 | 0.1 | 0.02 | 0.02 |
| Confession | 0.60 | 0.21 | 0.08 | 0.04 | 0.08 |
| Absence | 0.5 | 0.5 | 0 | 0 | 0 |

[^7]TABLE. 15. Joint distribution of loss size and perpetrator position: BF\&E cases, 1976-77. a

| Perpetračor position ${ }^{b}$ | Loss size ${ }^{\text {c }}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-49 | 50-99 | 100-199 | 200-499 | 500-999 | 1000 and over |
| Executive | 0.1? | 0.06 | 0.06 | 0.03 | 0.02 | 0.02 |
| Top management | 0.06 | 0.02 | 0.02 | 0.01 | 0.01 | 0 |
| Low/middle management | 0.22 | 0.06 | 0.03 | 0.03 | 0.02 | 0 |
| Staff | 0.17 | 0.01 | 0.01 | 0.01 | 0 | 0 |
| Branch manager | 0.05 | 0.01 | 0.01 | 0.01 | 0 | 0 |

$a_{\text {Total }}$ number of cases with data on each variable is 286 . Rounding errors may cause totals to deviate fram one.
birst four positions are mutually exclusive and exhaustive; in conspiracy cases the position of the highest ranking perpetrator is listed. The category branch manager stands alone and is reported whether or not a branch manager was the highest ranking perpetrator.
Coss size--total loss to bank exclusive of any recovery in thousands of dollars.

TABLE 16. Distribution of perpetrator position, conditional on loss size: BF\&S cases, 1976-77. ${ }^{\text {a }}$

| Given that po' ential$106 \mathrm{~s} \text { is } \mathrm{s}^{\mathrm{b}}$ | Distribution of perpetrator position is ${ }^{\text {c }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Executive | $\begin{gathered} \text { Top } \\ \text { management } \end{gathered}$ | Low/middle management | Staff | Branch manager |
| 0-49 | 0.20 | 0.1 | 0.39 | 0.31 | 0.08 |
| 50-99 | 0.37 | 0.12 | 0.42 | 0.09 | 0.05 |
| 100-199 | 0.5 | 0.15 | 0.29 | 0.06 | 0.09 |
| 200-499 | 0.39 | 0.17 | 0.35 | 0.09 | 0.09 |
| 500-999 | 0.36 | 0.14 | 0.5 | 0 | 0 |
| 1000 and over | 0.56 | 0 | 0.44 | 0 | 0.11 |

[^8]TABLE 17. Distribution of loss size, conditional on perpetrator position: BF\&E cases, 1976-77. a

| Given that perpetrator position is ${ }^{\text {b }}$ | Distribution of potential loss is ${ }^{\text {c }}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-49 | 50-99 | 100-199 | 200-499 | 500-1000 | 1000 and over |
| Executive | 0.39 | 0.19 | 0.2 | 0.11 | 0.06 | 0.06 |
| Top management | 0.5 | 0.16 | 0.16 | 0.13 | 0.06 | 0 |
| Low/middle management | 0.58 | 0.16 | 0.09 | 0.07 | 0.06 | 0.04 |
| Staff | 0.86 | 0.07 | 0.03 | 0.03 | 0 | 0 |
| Branch manager | 0.62 | 0.1 | 0.14 | 0.1 | 0 | 0.05 |

[^9]birst four positions are mutually exclusive and exhaustive; in conspiracy cases the position of the highest ranking perpetrator is listed. The category branch manager stands alone and is reported whether or not a branch manager was the highest ranking perpetrator.
${ }^{\text {CPotential }}$ loss--total loss to bank exclusive of any recovery in thousands of dollars.

TABLE 18. Joint distribution of bond and lass size: BF\&E cases, 1976-77. ${ }^{\text {a }}$

|  | Bond $^{\mathrm{c}}$ |  |  |
| :---: | :---: | :---: | :---: |
| Loss size ${ }^{\mathrm{b}}$ | Small | Medium | Large |
| $\mathrm{C}-49$ | 0.23 | 0.27 | 0.07 |
| $50-99$ | 0.06 | 0.07 | 0.02 |
| $100-199$ | 0.05 | 0.06 | 0.01 |
| $200-499$ | 0.04 | 0.04 | 0.01 |
| $500-999$ | 0.02 | 0.03 | 0 |
| 1000 and over | 0.01 | 0.01 | 0.01 |

[^10]TABLE 19. Distribution of loss size, conditional on bond: BF\&E cases, 1976-77. ${ }^{\text {a }}$

| Given that bond is ${ }^{\text {b }}$ | Distribution of loss size is ${ }^{\text {c }}$ : |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-49 | 50-99 | 100-199 | 30-499 | 500-999 | 1000 and over |
| Small | 0.57 | 0.14 | 0.12 | 0.09 | 0.04 | 0.03 |
| Medium | 0.56 | 0.16 | 0.12 | 0.08 | 0.06 | 0.02 |
| Large | 0.57 | 0.17 | 0.11 | 0.06 | 0.03 | 0.06 |

$a_{\text {Total }}$ number of cases with data on each variable is 285 . Rounding errors may cause totals to deviate from one.
$b_{\text {Bond--the }}$ fidelity coverage per incident in thousands of dollars. Bond size: small $=\$ 0-\$ 499$. medium $=\$ 500-\$ 4999$. large $=\$ 5000$ and over.
${ }^{\text {choss }}$ size--total loss to bank exclusive of any recovery in thousands of dollars.

TABLE 20. Jotint distribution of loss size and bank size: BF\&E cases, 1976-77. ${ }^{\text {a }}$

|  | Loss size $^{c}$ |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Bank size $^{\text {b }}$ | $0-49$ | $50-99$ | $100-199$ | $200-499$ | $500-999$ | 1000 and over |
| Small | 0.12 | 0.04 | 0.04 | 0.02 | 0.01 | 0 |
| Medium | 0.29 | 0.07 | 0.05 | 0.05 | 0.02 | 0.02 |
| Large | 0.16 | 0.04 | 0.03 | 0.01 | 0.01 | 0.01 |

[^11]TABLE 21. Distribution of loss, conditional on bank size: BF\&E cases, 1976-77. ${ }^{\text {a }}$

| Given that bank size is ${ }^{\text {b }}$ | Distribution of potential loss is ${ }^{\text {c }}$, |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-49 | 50-99 | 100-199 | 200-499 | 500-999 | 1000 and over |
| Small | 0.515 | 0.151 | 0.166 | 0.106 | 0.045 | 0.015 |
| Medium | 0.569 | 0.145 | 0.104 | 0.090 | 0.048 | 0.041 |
| Large | 0.600 | 0.160 | 0.106 | 0.053 | 0.053 | 0.026 |

[^12]TABLE 22. Distribution of bank size, conditional on collusion among perpetrators:
BF\&E cases, 1976-77. ${ }^{\text {a }}$

| Distribution | Probability |
| :--- | :--- |
| of bank size | of collusion |
| is ${ }^{\text {b }}$ |  |
| Small | 0.28 |
| Medium | 0.47 |
| Large | 0.25 |

> a Total number of cases with data on each variable is 108. Rounding errors may cause totals to deviate from one. $\begin{aligned} b_{\text {Bank size }} \text { simall }= & \text { up to } \$ 10,000,000 \text { in } \\ & \text { deposits. }\end{aligned}$ medium $=\$ 10,000,000-\$ 100,000,000$  in derosits. large $=\begin{aligned} & \text { over } \$ 100,000,000 \text { in } \\ & \text { deposits. }\end{aligned}$

TABLE 23. Joint distribution of time concealed and perpetrator position: BF\&E cases, 1976-77. a

| Perpetrator position ${ }^{b}$ | Time concealed ${ }^{\text {c }}$ |  |  |
| :---: | :---: | :---: | :---: |
|  | Short | Medium | Long |
| Executive | 0.08 | 0.23 | 0.07 |
| Top management | 0.04 | 0.03 | 0.03 |
| Low/middle management | 0.1 | 0.11 | 0.09 |
| Staff | 0.14 | 0.05 | 0.02 |
| Branch manager | 0.04 | 0.02 | 0.01 |

[^13]TABLE 24. Distribution of perpetrator position, conditional on time concealed: BF\&E cases, 1976-77. ${ }^{\text {a }}$

Given
that time concealed is ${ }^{\text {b }}$ Distribution of perpetrator position is ${ }^{c}$ :

| Manager | Executive | management | management | Staff | Branch |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Short | 0.22 | 0.12 | 0.28 | 0.38 | 0.1 |
| Medium | 0.54 | 0.07 | 0.26 | 0.12 | 0.05 |
| Long | 0.34 | 0.14 | 0.41 | 0.1 | 0.07 |

$a_{\text {Total }}$ number of cases with data on each variable is 136 . Rounding errors may cause totals to deviate fram one.
brime concealed is the total length of time activity is concealed:
short $=0-6$ months.
medium $=7-24$ months.
long $=$ over 25 months.
CFirst four positions are mutually exclusive and exhaustive; in conspiracy cases the position of the highest ranking perpetrator is listed. The category branch manager stands alone and is reported whether or not a branch manager was the highest ranking perpetrator.

TABLE 25. Distribution of time concealed, conditional on perpetrator position: BF\&E cases, 1976-77. ${ }^{\text {a }}$

| Given that <br> perpetrator <br> position is | Distribution of time concealed is $\mathrm{s}^{\mathrm{c}}$ : |  |
| :--- | :--- | :--- | :--- |

[^14]| TABLE 26. Frequency of detection by |  |
| :--- | :---: |
| method: BF\&E cases, | 1976-77. ${ }^{\text {a }}$ |
| Method of detection | Probability |
| Bank examination | 0.25 |
| Audit | 0.26 |
| Insider information | 0.05 |
| Outsider information | 0.14 |
| Confession | 0.28 |
| Absence | 0.01 |

$a_{\text {Total }}$ number of cases with data on method of detection is 295.

| TABLE 27. Distribution of perpetrators by type |  |
| :--- | :---: |
| of group: BF\&E cases, 1976-77. a |  |
| Type of group | Probability |
| Single perpetraior | 0.61 |
| Insider with other insider (s) | 0.18 |
| Insider with outsider (s) | 0.21 |

$a_{\text {Total }}$ number of cases is 296.

2ABLE 28. Distribution of group size:
BF\&E cases, 1976-77. a

| Number of perpetrators | Probability |
| :---: | :---: |
| 1 | 0.61 |
| 2 | 0.21 |
| 3 | 0.10 |
| 4 | 0.03 |
| 5 or greater | 0.04 |

$\mathrm{a}_{\text {Total }}$ number of cases used in table is 274.

TABIE 29. Summary of Hobbs Act violations and extortion threats against banks as reported to FDIC: 1975-78, a
Total number of cases reported: ..... 59
Proportion of cases in which loss was incurred: ..... 0.14
Average loss: $\$ 18,244$
Proportion of cases in which an arrest was made (includes hoaxes) ..... 0.20
Proportion of cases which were hoaxes: ..... $0.25^{\mathrm{b}}$
Average amount demanded (including hoaxes): $\$ 2,537,450^{\circ}$
Proportion of bomb threats: $0.24^{\text {b }}$
Proportion of banb threat hoaxes: ..... $0.10^{b}$
Proportion of kidnappings: ..... 0.24
Proportion of kidnap attempt or threats: $0.08^{\text {b }}$
Proportion of kianap threat hoaxes: $0.32^{\mathrm{b}}$
Proportion of death threats: $0.02^{b}$
Proportion of death threat hoaxes: $0.02{ }^{\text {b }}$
Proportion of cases in which origin of extraction threat was:

1. note or letter: ..... 0.03
2. phone call: ..... 0.20
3. unknown: ..... 0.77(Of the 59 cases reported, in only 8 cases didmoney pass from the victim to
the adversary. No arrest was made in any of these cases.)
[^15]COMPUTER-RELATED CRIME, 1958-78

TABLE 30. Joint distribution of crime category and perpetrator position: computer crimes, 1958-78. ${ }^{\text {a }}$

| Per petrator position ${ }^{\text {b }}$ | Crime categor ${ }^{\text {b }}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Phydest | Tinfo | Tinv | Datadest | Thw/sw | Nuse | Fraud | Error |
| Executive | 0.002 | 0.020 | 0.006 | 0 | 0 | 0.009 | 0.094 | 0 |
| Cemp | 0.022 | 0.022 | 0.006 | 0.013 | 0.020 | 0.015 | 0.094 | 0.004 |
| Ncemp | 0 | 0.013 | 0.002 | 0.004 | 0.002 | 0.022 | 0.105 | 0 |
| Unemp | 0.006 | 0.022 | 0.004 | 0.017 | 0.009 | 0.017 | 0.116 | 0 |
| Corp | 0.002 | 0.006 | 0 | 0 | 0.004 | 0.004 | U. 011 | 0.007 |
| Outsider | 0.011 | 0.006 | 0 | 0.002 | c. 006 | 0.004 | 0.057 | 0.002 |
| Student | 0.020 | 0.013 | 0.004 | 0 | 0.002 | 0.031 | 0.007 | 0.002 |
| Exemp | 0 | 0.004 | 0 | 0.002 | 0.009 | 0.002 | 0.013 | 0 |
| Unknown | 0.024 | 0.011 | 0 | 0.002 | 0.006 | 0.013 | 0.041 | 0 |

[^16]TABLE 31. Distribution of crime category, conditional on perpetrator position: computer crimes, 1958-78. ${ }^{\text {a }}$

| Given that per petrator position is ${ }^{b}$ : | Distribution of crime category is ${ }^{\text {b }}$ : |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Phydest | Tinfo | Tinv | Dat adest | Thw/sw | Nuse | Fraud | Error |
| Execut ve | 0.016 | 0.150 | 0.050 | 0 | 0 | 0.066 | 0.716 | 0 |
| Cemp | 0.111 | 0.111 | 0.033 | 0.066 | 0.100 | 0.077 | 0.477 | 0.022 |
| Ncemp | 0 | 0.088 | 0.014 | 0.029 | 0.014 | 0.147 | 0.705 | 0 |
| Unemp | 0.034 | 0.113 | 0.022 | 0.090 | 0.045 | 0.090 | 0.602 | 0 |
| Corp | 0.062 | 0.187 | 0 | 0 | 0.125 | 0.125 | 0.312 | 0.187 |
| Outsider | 0.121 | 0.073 | 0 | 0.024 | 0.073 | 0.048 | 0.634 | 0.024 |
| Student | 0.250 | 0.166 | 0.055 | 0 | 0.027 | 0.388 | 0.083 | 0.027 |
| Exemp | 0 | 0.142 | 0 | 0.071 | 0.285 | 0.071 | 0.428 | 0 |
| Unknown | 0.244 | 0.111 | 0 | 0.022 | 0.066 | 0.133 | 0.422 | 0 |

[^17]TABLE 32. Distribution of perpetrator position, conditional on crime category: computer crimes, 1958-78. a

| gory is ${ }^{\text {b }}$ | Executive | Cemp | Ncemp | Unemp | Corp | Outsider | Student | Exemp | Unknown |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Phydest | 0.025 | 0.250 | 0 | 0.075 | 0, 025 | 0.125 | 0.225 | 0 | 0.275 |
| Tinfo | C. 166 | 0.185 | 0.111 | 0.185 | 0.055 | 0.055 | 0.111 | 0.037 | 0.092 |
| Tinv | 0.272 | 0.276 | 0.090 | 0.181 | 0 | 0 | 0.181 | 0 | 0 |
| Datadest | 0 | 0.315 | 0.111 | 0.421 | 0 | 0.052 | 0 | 0.052 | 0.052 |
| Thw/sw | 0 | 0.333 | 0.037 | 0.148 | 0.074 | 0.111 | 0.037 | 0.148 | 0.111 |
| Nuse | 0.074 | 0.129 | 0.185 | 0.148 | 0.037 | 0.037 | 0.259 | 0.018 | 0.111 |
| Fraud | 0.174 | 0.174 | 0.195 | 0.215 | 0.026 | 0.105 | 0.012 | 0.024 | 0.077 |
| Error | 0 | 0.285 | 0 | 0 | 0.428 | 0.142 | 0.142 | 0 | 0 |

[^18]TABLE 33. Joint distribution of lass size and perpetrator location: computer crimes, 1958-78. ${ }^{\text {a }}$

| Perpetrator <br> location | $0-9$ | $10-49$ | $50-99$ | $100-199$ | $200-499$ | $500-999$ | 1000 and over |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Loss size $(\$ 1000)$ |  |  |  |  |  |  |
| Insider (s) | 0.21 | 0.14 | 0.06 | 0.09 | 0.05 | 0.02 | 0.09 |
| Outsider $(s)$ | 0.04 | 0.01 | 0.02 | 0.02 | 0 | 0.02 | 0.02 |
| Insider $(s) /$ <br> outsider $(s)$ | 0.03 | 0.06 | 0.05 | 0.02 | 0.03 | 0.01 | 0.02 |

[^19]TABLE 34. Distribution of loss size, conditional on perpetrator location: computer crimes, 1958-78, a

| Given that per petrator | Distribution of loss size (\$1000) is: |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| location is: | 0-9 | 10-49 | 50-99 | 100-199 | 200-499 | 500-999 | 1000 | and over |
| Insider (s) | 0.31 | 0.22 | 0.08 | 0.14 | 0.07 | 0.03 |  | 0.14 |
| Outsider (s) | 0.32 | 0.06 | 0.16 | 0.16 | 0 | 0.13 |  | 0.16 |
| Insider (s)/ outsider (s) | 0.13 | 0.29 | 0.25 | 0.08 | 0.13 | 0.04 |  | 0.08 |

$a_{\text {Total }}$ number of cases with data on each variable is 232 . Rounding errors may cause totals to deviate fram one.

TABLE 35. Distribution of perpetrator location, conditional on loss size: computer crimes, 1958-78. a

| Given that <br> loss size $(\$ 1000)$ <br> is: | Distribution of perpetrator location is: |  |  |
| :---: | :---: | :---: | :---: |
|  | 0.75 | Outsider | Insider/outsider |
| $10-49$ | 0.67 | 0.16 | 0.09 |
| 5079 | 0.43 | 0.04 | 0.29 |
| $100-199$ | 0.7 | 0.17 | 0.4 |
| $200-499$ | 0.65 | 0.17 | 0.13 |
| $500-999$ | 0.45 | 0.36 | 0.35 |
| 1000 and over | 0.71 | 0.16 | 0.18 |

$a_{\text {Total }}$ number of cases with data on each variable is 232 . Rounding errors may cause totals to deviate from one.

TABLE 36. Joint distribution of loss size and number of perpetrators: computer crimes, 1958-78. ${ }^{\text {a }}$

| Number of <br> perpetrators | $0-9$ | $10-49$ | $50-99$ | $100-199$ | $200-499$ | $500-999$ | 1000 and over |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0.208 | 0.139 | 0.074 | 0.083 | 0.042 | 0.019 | 0.051 |
| 1 | 0.037 | 0.042 | 0.023 | 0.019 | 0.005 | 0.009 | 0.014 |
| 2 | 0.019 | 0.009 | 0.009 | 0.005 | 0.005 | 0.005 | 0.005 |
| 3 | 0 | 0.009 | 0.014 | 0 | 0.009 | 0.005 | 0.014 |
| 4 | 0.019 | 0.019 | 0.023 | 0.019 | 0.014 | 0.005 | 0.032 |

$a_{\text {Total }}$ number of cases with data on each variable is 216 . Rounding errors may cause totals to deviate from one.

TABLE 37. Distribution of number of perpetrators, conditional on loss size: computer crimes, 1958-78. ${ }^{\text {a }}$

| Given that |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| is: | 1 | 2 | 3 | 4 | 5 or greater |
| 0-9 | 0.74 | 0.13 | 0.07 | 0 | 0.07 |
| 10-49 | 0.64 | 0.19 | 0.04 | 0.04 | 0.09 |
| 50-99 | 0.52 | 0.16 | 0.06 | 0.1 | 0.16 |
| 100-199 | 0.67 | 0.15 | 0.04 | 0 | 0.15 |
| 200-499 | 0.56 | 0.06 | 0.06 | 0.13 | 0.19 |
| 500-999 | 0.44 | 0.22 | 0.11 | 0.11 | 0.11 |
| 1000 and over | 0.44 | 0.12 | 0.04 | 0.12 | 0.28 |

[^20]TABLE 38. Distribution of lass size, conditional on number of perpetrators: computer crimes, 1958-78. a

| Given that number of perpetrators is: | Distribution of lass size (\$1000) is: |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-9 | 10-49 | 50-99 | 100-199 | 200-499 | 500-999 | 1000 | and over |
| 1 | 0.34 | 0.23 | 0.12 | 0.14 | 0.07 | 0.03 |  | 0.08 |
| 2 | 0.25 | 0.28 | 0.16 | 0.13 | 0.03 | 0.06 |  | 0.09 |
| 3 | 0.33 | 0.17 | 0.17 | 0.08 | 0.08 | 0.08 |  | 0.08 |
| 4 | 0 | 0.18 | 0.27 | 0 | 0.18 | 0.09 |  | 0.27 |
| 5 or greater | 0.14 | 0.14 | 0.18 | 0.14 | 0.11 | 0.04 |  | 0.25 |

arotal number of cases with data on each variable is 216 . Rounding errors may cause totals to deviate from one.

TABLE 39. Joint distribution of perpetrator position and loss: computer crimes, 1958-78. a

| (\$1000) | Executive | Cemp | Ncemp | Unemp | Corp | Outsider | Student | Exemp | Unknown |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0-9 | 0.037 | 0.057 | 0.053 | 0.049 | 0 | 0.024 | 0.021 | 0.004 | 0.041 |
| 10-49 | 0.028 | 0.037 | 0.053 | 0.049 | 0.008 | 0.008 | 0 | 0.016 | 0.008 |
| 50-99 | 0.021 | 0.032 | 0.021 | 0.028 | 0 | 0.021 | 0 | 0.004 | 0 |
| 100-199 | 0.037 | 0.008 | 0.016 | 0.024 | 0.004 | 0.021 | 0 | 0.608 | 0.004 |
| 200-499 | 0.021 | 0.012 | 0.008 | 0.012 | 0 | 0.004 | 0 | 0.004 | 0.008 |
| 500-999 | 0.012 | 0.004 | 0.008 | 0.008 | 0 | 0.012 | 0 | 0 | 0.004 |
| 1000 and over | 0.028 | 0.028 | 0.021 | 0.021 | 0.021 | 0.021 | 0.008 | 0.004 | 0.004 |

[^21]TABLE 40. Distribution of perpetrator position, conditional on loss size: computer crimes, 1958-78. a

Given that
loss size
(\$1000)
Distribution of perpetrator position is ${ }^{b}$ :
is: Executive Cemp Noemp Unemp Corp Outsider Student Exemp Unknown

| $0-9$ | 0.13 | 0.2 | 0.19 | 0.17 | 0 | 0.09 | 0.07 | 0.01 | 0.14 |
| :---: | :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: |
| $10-49$ | 0.14 | 0.18 | 0.25 | 0.24 | 0.04 | 0.04 | 0 | 0.08 | 0.04 |
| $50-99$ | 0.16 | 0.26 | 0.16 | 0.23 | 0 | 0.16 | 0 | 0.03 | 0 |
| $100-199$ | 0.3 | 0.07 | 0.13 | 0.2 | 0.03 | 0.17 | 0 | 0.07 | 0.03 |
| $200-499$ | 0.29 | 0.18 | 0.12 | 0.18 | 0 | 0.06 | 0 | 0.06 | 0.12 |
| $500-999$ | 0.25 | 0.08 | 0.17 | 0.17 | 0 | 0.25 | 0 | 0 | 0.08 |
| 1000 and <br> over | 0.22 | 0.22 | 0.03 | 0.16 | 0.09 | 0.16 | 0.06 | 0.03 | 0.03 |

$a_{\text {Total }}$ number of cases with data on each variable is 243 . Rounding errors may cause totals to deviate from one.
$\mathrm{b}_{\text {See Abbreviations and Definitions. }}$

TABLE 41. Distribution of loss size, conditional on peipetrator position: computer crimes, 1958-78, a

| Given that per petrator position is ${ }^{\text {b }}$ | Distribution of loss size ( $\$ 1000$ ) is: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-9 | 10-49 | 50-99 | 100-199 | 200-499 | 500-999 | 1000 and over |
| Executive | 0.2 | 0.16 | 0.11 | 0.2 | 0.11 | 0.07 | 0.16 |
| Cemp | 0.32 | 0.20 | 0.18 | 0.05 | 0.07 | 0.02 | 0.16 |
| Ncemp | 0.33 | 0.32 | 0.13 | 0.1 | 0.05 | 0.05 | 0.03 |
| Unemp | 0.26 | 0.26 | 0.15 | 0.13 | 0.06 | 0.04 | 0.11 |
| Corp | 0 | 0.33 | 0 | 0.17 | 0 | 0 | 0.5 |
| Outsider | 0.22 | 0.07 | 0.19 | 0.19 | 0.04 | 0.11 | 0.19 |
| Student | 0.71 | 0 | 0 | 0 | 0 | 0 | $0.29{ }^{\text {c }}$ |
| Exemp | 0.1 | 0.4 | 0.1 | 0.2 | 0.1 | 0 | 0.1 |
| Unknown | 0.59 | 0.12 | 0 | 0.06 | 0.12 | 0.06 | 0.06 |

[^22]TABLE 42. Joint distribution of number of perpetrators and perpetrator position: computer crimes, 1958-78, a

| Number of <br> perpetrators | Perpetrator position b |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Exec | Cemp | Ncemp | Unemp | Corp | Outsider | Student | Exemp | Unknown |  |
| 1 | 0.09 | 0.14 | 0.1 | 0.14 | 0 | 0.06 | 0.04 | 0.03 | 0.04 |  |
| 2 | 0.02 | 0.03 | 0.04 | 0.03 | 0 | 0.01 | 0.02 | 0.01 | 0 |  |
| 3 | 0.01 | 0.02 | 0.01 | 0 | 0 | 0.01 | 0.01 | 0 | 0 |  |
| 4 | 0.01 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 5 | 0.02 | 0.01 | 0.02 | 0.03 | 0.01 | 0.01 | 0.01 | 0 | 0 |  |

a Total number of cases with data on each variable is 380 . Rounding errors may cause totals to deviate from one.
$\mathrm{b}_{\text {See Abbreviations and Definitions. }}$

TABLE 43. Distribution of perpetrator position, conditional on number of perpetrators: computer crimé, 1958-78. a

atotal number of cases with data on each variable is 380 . Rounding errors may cause cotals to deviate from one.
${ }^{\mathrm{b}}$ See Abbreviations and Definitions.

TABLE 44. Distribution of $n^{-}$- of perpetrators, conditional on perpetrator posicinn: compuinr crimes, 1958-78. ${ }^{\text {a }}$


[^23]TABLE 45. Joint distribution of crime category and number of perpetrators: computer crimes, 1958-78. ${ }^{\text {a }}$

| Number of <br> perpetrators | Crime category ${ }^{\mathrm{b}}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Phydest | Tinfo | Tinv | Datadest | THW/sw | Nuse | Fraud | Error |  |
| 1 | 0.044 | 0.065 | 0.005 | 0.044 | 0.041 | 0.073 | 0.356 | 0.007 |  |
| 2 | 0.005 | 0.026 | 0 | 0 | 0.005 | 0.028 | 0.094 | 0 |  |
| 3 | 0.005 | 0.005 | 0.002 | 0.002 | 2.002 | 0.013 | 0.026 | 0.002 |  |
| 4 | 0.005 | 0.005 | 0.007 | 0 | 0 | 0 | 0.018 | 0 |  |
| 5 or greater | 0.007 | 0.010 | 0.005 | 0.002 | 0.005 | 0.005 | 0.06 | 0 |  |

[^24]TABLE 46. Distribution of crime category, conditional on number of perpetrators: computer crimes, 1958-78

Given that
number of
perpetrators
Distríbution of crime category is ${ }^{b}$ :

| is: |  | Phydest | Tinfo | Tinv | Datadest | Thw/sw | Nuse | Fraud |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Error |  |  |  |  |  |  |  |  |
| 1 | 0.07 | 0.1 | 0.01 | 0.07 | 0.07 | 0.11 | 0.56 | 0.01 |
| 2 | 0.03 | 0.16 | 0 | 0 | 0.03 | 0.18 | 0.59 | 0 |
| 3 | 0.09 | 0.09 | 0.04 | 0.04 | 0.04 | 0.22 | 0.43 | 0.04 |
| 4 | 0.14 | 0.14 | 0.21 | 0 | 0 | 0 | 0.5 | 0 |
| 5 or | greater | 0.08 | 0.1 | 0.06 | 0.03 | 0.05 | 0.05 | 0.64 |

$a_{\text {Total }}$ number of cases with data on each variable is 381 . Rounding errors may cause totals to deviate from one.
${ }^{\mathrm{b}}$ See Abbreviations and Definitions.

TiABLE 47. Distribution of number of perpetrators, conditional on crime category: computer crimes, 1958-78. ${ }^{\text {a }}$

| Given that <br> crime <br> category is ${ }^{\text {b }}$ : | Distribution of number of perpetrators is: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 or greater |
| Phydest | 0.65 | 0.08 | 0.08 | 0.08 | 0.12 |
| Tinfo | 0.58 | 0.23 | 0.05 | 0.05 | 0.09 |
| Tinv | 0.25 | 0 | 0.13 | 0.38 | 0.25 |
| Datadest | 0.89 | 0 | 0.05 | 0 | 0.05 |
| Thw/sw | 0.76 | 0.1 | 0.05 | 0 | 0.1 |
| Nuse | 0.61 | 0.24 | 0.11 | 0 | 0.04 |
| Fraud | 0.64 | 0.17 | 0.05 | 0.03 | 0.12 |
| Error | 0.75 | 0 | 0.25 | 0 | 0 |

[^25]TABLE 48. Joint distribution of crime category and perpetrator location: computer crimes, 1958-78. ${ }^{\text {a }}$

| Perpecrator$\text { location }{ }^{\text {b }}$ | Crime category ${ }^{\text {b }}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Phydest | Tinfo | Tinv | Datadest | Thw/sw | Nuse | Fraud | Error |
| Insider | 0.06 | 0.1 | 0.01 | 0.05 | 0.05 | 0.09 | 0.36 | 0.01 |
| Outsider | 0.01 | 0.01 | 0 | 0 | 0.01 | 0.01 | 0.07 | 0 |
| Insider/ outsider | 0 | 0.01 | 0.01 | 0 | 0 | 0.01 | 0.12 | 0 |

atotal number of cases with data on each variable is 416 . Rounding errors may cause totals to deviate from one.
${ }^{\mathrm{b}}$ See Abbreviations and Definitions.

TABLE 49. Distribution of perpetrator location, conditional on crime category: computer crimes, 1958-78. ${ }^{\text {a }}$


TABLE 50. Distribution of crime category, conditional on perpetrator location: compater crimes, 1958-78. a

| Given that perpetrator | Distribution of crime category is ${ }^{\text {b }}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| location is ${ }^{\text {b }}$ : | Phydest | Tinfo | Tinv | Datadest | Thw/sw | Nuse | Fraud | Error |
| Insider | 0.08 | 0.13 | 0.02 | 0.06 | 0.07 | 0.13 | 0.5 | 0.02 |
| Outsider | 0.1 | 0.1 | 0 | 0.02 | 0.08 | 0.12 | 0.56 | 0.02 |
| Insider/ outsider | 0.02 | 0.05 | 0.06 | 0 | 0 | 0.05 | 0.82 | 0 |

$a_{\text {Total }}$ number of cases with data on each variable is 416 . Rounding errors may cause totals to deviate from one.
$\mathrm{b}_{\text {See Abbreviations and Definitions. }}$

TABLE 51. Joint distribution of perpetrator location and victim institution: computer crimes, 1958-78. a

| Victim | Perpetrator location ${ }^{\mathrm{b}}$ |  |  |
| :--- | :---: | :---: | :---: |
| institution ${ }^{\mathrm{b}}$ | Insider | Outsider | Insider/Outsider |
| Fin | 0.194 | 0.060 | 0.065 |
| Govt | 0.131 | 0.020 | 0.045 |
| Med | 0.005 | 0 | 0 |
| Educ | 0.100 | 0.008 | 0.002 |
| Salmfc | 0.125 | 0.008 | 0.017 |
| Compub | 0.008 | 0.002 | 0 |
| Tranuti) | 0.017 | 0 | 0.008 |
| Compserv | 0.077 | 0.017 | 0.022 |
| Proforg | 0.008 | 0 | 0.005 |
| Ind | 0.040 | 0.002 | 0.008 |

[^26]TABLE 52. Distribution of victim institution, conditional on perpetrator location: computer crimes, 1958-78. a

Given that
perpetrator

| is ${ }^{\text {b }}$ | Fin | Govt | Med | Educ | Salmc | Campub | Tranutil | Compserv | Proforg | Ind |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Insider | 0.27 | 0.19 | 0.01 | 0.14 | 0.18 | 0.01 | 0.02 | 0.11 | 0.01 | 0.06 |
| Outsider | 0.51 | 0.17 | 0 | 0.07 | 0.07 | 0.02 | 0 | 0.14 | 0 | 0.02 |
| Insider/ outsider | 0.38 | 0.27 | 0 | 0.02 | 0.1 | 0 | 0.05 | c. 13 | 0.03 | 0.02 |

[^27]TABLE 53. Distribution of perpetrator location, conditional on victim institution: computer crimes, 1958-78. a


[^28]TABLE 54. Joint distribution of crime category and victim institution: computer crimes, 1958-78. ${ }^{\text {a }}$

| Victim | Crime category ${ }^{\mathrm{b}}$ |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| institution ${ }^{\text {b }}$ | Phydest | Tinfo | Tinv | Datadest | Thw/sw | Nuse | Fraud | Error |
| Fin | 0.013 | 0.003 | 0 | 0.006 | 0.003 | 0 | 0.296 | 0 |
| Govt | 0.006 | 0.036 | 0.007 | 0.006 | 0.006 | 0.020 | 0.113 | 0.003 |
| Med | 0.003 | 0 | 0 | 0 | 0 | 0 | 0.006 | 0 |
| Educ | 0.041 | 0.015 | 0 | 0.003 | 0.010 | 0.036 | 0.013 | 0.003 |
| Salmfc | 0.006 | 0.010 | 0.010 | 0.018 | 0.023 | 0.013 | 0.061 | 0 |
| Compub | 0 | 0.006 | 0 | 0 | 0.003 | 0 | 0.006 | 0.003 |
| Tranutil | 0.006 | 0 | 0.006 | 0 | 0 | 0 | 0.020 | 0 |
| Canpserv | 0.006 | 0.028 | 0 | 0 | 0.015 | 0.025 | 0.033 | 0 |
| Proforg | 0.003 | 0.003 | 0 | 0.003 | 0 | 0 | 0.006 | 0 |
| Ind | 0 | 0.006 | 0 | 0 | 0 | 0.013 | 0.020 | 0.007 |

$a_{\text {Total }}$ number of cases with data on each variable is 388 . Rounding errors may cause totals to deviate from one.
${ }^{\mathrm{b}}$ See Abbreviations and Definitions.

TABLE 55. Distribution of crime category, conditional on victim institution: computer crimes, 1958-78. ${ }^{\text {a }}$

| Given that victim institution is ${ }^{b}$ : | Distribution of crime category is ${ }^{\text {b }}$ : |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Phydest | Tinfo | Tinv | Datadest | Thw/sw | Nuse | Fraud | Error |
| Fin | 0.04 | 0.01 | 0 | 0.02 | 0.01 | 0 | 0.93 | 0 |
| Govt | 0.03 | 0.18 | 0.04 | 0.03 | 0.03 | 0.11 | 0.58 | 0.01 |
| Med | 0.33 | 0 | 0 | 9 | 0 | 0 | 0.67 | 0 |
| Educ | 0.34 | 0.13 | 0 | 0.02 | 0.09 | 0.3 | 0.11 | 0.02 |
| Salmf c | 0.04 | 0.07 | 0.07 | 0.13 | 0.16 | 0.09 | 0.44 | 0 |
| Compub | 0 | 0.33 | 0 | 0 | 0.17 | 0 | 0.33 | 0.17 |
| Tranutil | 0.17 | 0 | 0.17 | 0 | 0 | 0 | 0.67 | 0 |
| Compserv | 0.05 | 0.26 | 0 | 0 | 0.14 | 0.24 | 0.31 | 0 |
| Proforg | 0.2 | 0.2 | 0 | 0.2 | 0 | 0 | 0.4 | 0 |
| Ind | 0 | 0.11 | 0 | 0 | 0 | 0.28 | 0.44 | 0.17 |

[^29]TABLE 56. Distribution of victim institution, conditional on crime category: computer crimes, 1958-78. ${ }^{\text {a }}$

| Given that <br> crime <br> category is ${ }^{\text {b }}$ : | Distribution of victim institution is ${ }^{\text {b }}$ : |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fin | Govt | Med | Educ | Salmfe | Compub | Tranutil | Compserv | Proforg | Ind |
| Phydest | 0.161 | 0.064 | 0.032 | 0.516 | 0.064 | 0 | 0.064 | 0.064 | 0.032 | 0 |
| Tinfo | 0.024 | 0.341 | 0 | 0.146 | 0.097 | 0.048 | 0 | 0.268 | 0.024 | 0.048 |
| Tinv | 0 | 0.333 | 0 | 0 | 0.444 | 0 | 0.222 | 0 | 0 | 0 |
| Datadest | 0.153 | 0.153 | 0 | 0.076 | 0.538 | 0 | 0 | 0 | 0.076 | 0 |
| Thw/sw | 0.043 | 0.096 | 0 | 0.173 | 0.391 | 0.043 | c | 0.260 | 0 | 0 |
| Nuse | 0 | 0.190 | 0 | 0.333 | 0.119 | 0 | 0 | 0.238 | 0 | 0.119 |
| Fraud | - 0.515 | 0.197 | 0.008 | 0.022 | 0.107 | 0.008 | 0.035 | 0.058 | 0.008 | 0.035 |
| Error | 0 | 0.166 | 0 | 0.166 | 0 | 0.166 | 0 | 0 | 0 | 0.500 |

$a_{\text {Total }}$ number of cases with data on each variable is 388 . Rounding errors may cause totals to deviate from one. bsee Abbreviations and Definitions.

TABLE 57. Joint distribution of perpetrator position and case disposition: computer crimes, 1958-78. ${ }^{\text {a }}$

| Disposition of case | Perpetrator positic ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Exec. | Cemp | Ncemp | Unemp | Corp | Outsider | Student | Exemp | Unknown |
| Suspect not apprehended | 0.003 | 0.022 | 0.012 | 0.018 | 0.003 | 0.015 | 0.012 | 0.003 | 0.041 |
| Suspect apprehended | 0.164 | 0.154 | 0.157 | 0.173 | 0.025 | 0.072 | 0.072 | 0.034 | 0.012 |

## Suspect

apprehended
and

| incarcerated | 0.031 | 0.018 | 0.025 | 0.006 | 0 | 0.012 | 0.012 | 0 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$a_{\text {Total }}$ number of cases with data on each variable is 317 . Rounding errors may cause totals to deviate from one. ${ }^{\text {b See }}$ Abbreviations and Definitions.

TABLE 58. Distribution of case disposition, conditional on perpetrator position: computer crimes, 1958-78. ${ }^{\text {a }}$

| Given that | Distribution of disposition of case |  |  |
| :--- | :---: | :---: | :---: |
| perpetrator | Suspect not | Suspect | Suspect apprehended |
| position is ${ }^{\mathrm{b}}:$ | apprehended | apprehended | ancarcerated |
| Executive | 0.02 | 0.98 | 0.19 |
| Cemp | 0.13 | 0.88 | 0.11 |
| Ncemp | 0.07 | 0.93 | 0.15 |
| Unemp | 0.10 | 0.9 | 0.03 |
| Outsider | 0.18 | 0.82 | 0.14 |
| Student | 0.15 | 0.85 | 0.04 |
| Exemp | 0.08 | 0.92 | 0 |

[^30]TABLE 59. Distribution of perpetrator position, conditional on case disposition: computer crimes, 1958-78. ${ }^{\text {a }}$

| Given that disposition | Distribution of perpetrator position is ${ }^{\text {b }}$ : |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| of case is: | Exec | Cemp | Ncemp | Unemp | Corp | Outsider | Student | Exemp | Unknown |
| Suspect not apprehended | 0.02 | 0.17 | 0.1 | 0.14 | 0.02 | 0.12 | 0.1 | 0.02 | 0.31 |
| Suspect apprehended | 0.19 | 0.18 | 0.18 | 0.2 | 0.03 | 0.08 | 0.08 | 0.04 | 0.01 |

## Suspect

apprehended
and

| incarcerated | 0.32 | 0.19 | 0.26 | 0.06 | 0 | 0.13 | 0.03 | 0 | 0.0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$a_{\text {Total }}$ number of cases with data on each variable is 317 . Rounding errors may cause totals to deviate from one. bSee Abbreviations and Definitions.

TABLE 60. The distribution of suspect dispositions: computer crimes, 1958-77. a

| Disposition of suspect | Probability |
| :--- | :---: |
| Suspect not apprehended | 0.138 |
| Suspect apprehended | 0.860 |
| Suspect incarcerated |  |

Suspect incarcerated given suspect is apprehended ${ }^{b}$ 0.115
$\mathrm{a}_{312}$ incidents were available for inese calculations.
brhe probability that a suspect is incarcerated is unconditional and represents the chance before apprehension that any given suspect will end up in prison. The last row presents the probability of incarceration after the suspect has been apprehended. Dividing the former by the latter obviously yields the chance of apprehension, the entry in row 2.

TABLE 61. Distribution of perpetrator
position: computer crimes, 1958-77. a

| Perpetrator position | Probability |
| :--- | :---: |
| Executive | 0.130 |
| Computer employee | 0.195 |
| Noncomputer employee | 0.149 |
| Unknown employee | 0.193 |
| Corporation | 0.035 |
| Student | 0.078 |
| Ex-employee | 0.030 |
| Outsider | 0.089 |
| Unknown | 0.101 |

[^31]TABLE 62. Distribution of number of perpetrators: computer crimes, 1958-77. ${ }^{\text {a }}$
Number of

| perpetrators | Probability |
| :---: | :---: |
| 1 | 0.64 |
| 2 | 0.16 |
| 3 | 0.06 |
| 4 | 0.03 |
| 5 or greater | 0.11 |

a Total number of cases with data on each
variable is 380 . Rounding errors may cause
totals to deviate from one.

TABLE 63. Distribution of type of crime: computer crimes, 1958-77. a

| Crime category | Probability |
| :--- | :---: |
| Physical destruction | 0.086 |
| Theft of information | 0.117 |
| Theft of inventory | 0.021 |
| Data destruction | 0.045 |
| Theft of hdw or stw | 0.058 |
| Unauthorized use | 0.117 |
| Fraud | 0.538 |
| Frror | 0.018 |

[^32]| TABLE 64. Distribution of victim institutions: |  |
| :--- | ---: |
| computer crimes, 1958-77. ${ }^{\text {a }}$ |  |
| Victim institution | Probability |
| Financial | 0.320 |
| Government | 0.200 |
| Medical | 0.008 |
| Educatironal | 0.121 |
| Sales/manufacturing | 0.142 |
| Consunications and publishing | 0.016 |
| Transportation and utilities | 0.031 |
| Camputer services | 0.108 |
| Profession organizations | 0.013 |
| Individual victim | 0.041 |
| a 288 sample points were available for | these |
| calculations. |  |

INSIDER THEFT FROM DRUG MANUFACTURERS AND DISTRIBUTORS, 1973-77: THE DISTRIRUTION OF INCIDENT CHARACTERISTICS

TABLE 65. Relative importance of drug thefts from manufacturers and distributors by type of incident, 1973-77. ${ }^{\text {a }}$

| Units of measur ement | Type of incident |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Night break-in | Armed robbery | Employee pilferage | Custoner theft | Lost in transit | Other <br> thefts |
| Number of incidents $\div$ total of incidents | 0.023 | 0.006 | 0.020 | 0.021 | 0.657 | 0.264 |
| Dosage units stolen $\div$ <br> total dosage units stolen | 0.062 | 0.015 | 0.195 | 0.012 | 0.542 | 0.171 |

TABLE 66. Relative importance of employee drug thefts from $M / D$ and drugs lost in transit from $M / D$ each as a proportion of total drugs stolen from M/D by type of drug, 1973-77. a

| Type of | Employee <br> thefts | Lost in <br> transit |
| :--- | :---: | :--- |
| Cocaine | 0.172 | 0.360 |
| Amphetamines | 0.120 | 1.54 |
| Barbituates | 0.213 | 0.518 |
| Narcotics | 0.116 | 0.146 |

${ }^{\mathrm{a}}$ Losses are measured in dosage units. Total drugs stolen from M/D (manufacturers and distributors) is the sum of drug specific losses from night break-ins, armed robberies, employee pilferage, custamer theft, and other thefts, but does not include drugs lost in transit which may or may not be stolen.

TABLE 67. Relative importance of employee drug thefts from M/D and drugs lost in transit from M/D each as a proportion of total dosage units stolen by employees Eram M/D by type of drug, 1973-77. a

| Type of drug | Employee the£ts | Lost in transit |
| :--- | :---: | :---: |
| Cocaine | 0.005 | 0.009 |
| Amphetamines | 0.025 | 0.323 |
| Barbituates | 0.138 | 0.335 |
| Narcotics | 0.357 | 0.450 |

$\mathrm{a}_{\text {Losses }}$ are measured in dosage units. Total dosage units stolen by employees from M/D (manufacturers and distributors) is the sum of drug thefts (in dosage units) by employees of all drug types.

## APPENDIX

A CATALOG OF ILLEGAL INCIDENTS IN SECURE INDUSTRIES: BANK FRAUD AND EMBEZZLEMENT AND COMPUTER-RELATED CRIME CASES

INTRODUCTION

This appendix contains a fairly detailed catalog of 313 cases of bank fraud and embezzlement (BF\&E) of $\$ 10,000$ or more reported by FDIC regulated banks for the period 1976-77 and 461 cases of computer-related crime obtained from the files of Donn Parker at SRI International for the period 1958-78. The two summaries provide an overview of a large number of insider thefts in terms of a group of variables deemed to be significant attributes of the incidents.

The characteristics of many of the cases are analogous to the characteristics of threats potentially confronting managers in the nuclear industry.

The catalog begins with the bank fraud and embezzlement cases and concludes with the computer-related crime cases. Note that all large bank fraud and embezzlement cases involve insiders or insiders in collusion with outsiders; the same holds for computer-related crime cases with the exception of a small number of cases in which an outsider was able to penetrate a computing system without inside assistance.

This data set contains information on bank defalcations of $\$ 10,000$ or more from January 1, 1976, to December 31, 1977, as reported in FDIC internal memorandum, Bank Defalcations of $\$ 10,000$ or More and FDIC bank examination reports.

The BF\&F data set catalog lists the characteristics of the perpetrator (s), describes the nature of the event and its method of detection, and contains remarks as to the probable cause (s) of the accounting system's defeat.

Each variable is self-explanatory except for bank size which is ranked by the ABA deposit group number as shown in the following table.

Bank Size by ABA Deposit Group Number ${ }^{\text {a }}$

| Bank size by <br> ABA deposit <br> group number | Total <br> Deposits <br> $(\$ 1000)$ |
| :--- | :---: |
| 1 if deposits | $<750$ |
| 2 if deposits | $750-1,500$ |
| 3 if deposits | $1,500-2,000$ |
| 4 if deposits | $2,000-3,000$ |
| 5 if deposits | $3,000-5,000$ |
| 6 if deposits | $5,000-7,500$ |
| 7 if deposits | $7,500-10,000$ |
| 8 if deposits | $10,000-15,000$ |
| 9 if deposits | $15,000-20,000$ |
| 10 if deposits | $20,000-25,000$ |
| 11 if deposits | $25,000-35,000$ |
| 12 if deposits | $35,000-50,000$ |
| 13 if deposits | $50,000-75,000$ |
| 14 if deposits | $75,000-100,000$ |
| 15 if deposits | $100,000-150,000$ |
| 16 if deposits | $150,000-250,000$ |
| 17 if deposits | $250,000-500,000$ |
| 18 if deposits | $500,000-1,000,000$ |
| 19 if deposits | $1,000,000-2,000,000$ |
| 20 if deposits | $>2,000,000$ |

$\mathrm{a}_{\text {Size }}$ of entire bank; not size of victimized branch in a branch banking state.

## ABBREVIATIONS AND DEFINITIONS

$\mathrm{Y}=$ yes; $\mathrm{N}=\mathrm{no} ; ?=$ unknown

Lapping: The theft of cash received from a customer and covered at a later date by an illegal entry-e.g., using another customer's deposit to cover the theft.

Kiting: Any scheme that involves illicit use of a monetary float. A monetary float is the total value, at any one time, of checks in the process of payment and cancellation. In general, kiting schemes take advantage oi the fact that there is a lag between the time a check is issued and the time the bank receives it for payment.

Bank fraud and embezzlemerit (BF\&E) cases: a catalog of case characteristics, 1976-77.

| Collusion | Qutsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \end{aligned}$ | $\begin{aligned} & \text { Group } \\ & \text { size } \end{aligned}$ | Period concealed | Highest ranking insider | Nature | Detection | Memariks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $Y$ | $Y$ | 8 | 15.2 | 2 | ? | Pres. | Fictitious contracts; forgeries | Annual audit by CPA | Failure to confirm contract directly with customer |
| Y | N | 6 | 500.0 | ? | $?$ | Officer | Issuance of drafts not entered on book3; concealed overdraft by not posting foregoing checks | Officials becane aware of unusual return of checks by Fed | One-man operation; weak internal controls |
| N | * | 7 | 10.0 | 1 | 2 y | V.P. | Issued trust agreement without board authority; issued certificate without book entry | Review of files after resignation of suspect | None |
| $Y$ | $Y$ | 11 | 243.5 | 3 | 2 Y | Pres. | Withholding of entries; <br> false land appraisal | Unknown | Ambiguity in policies concerning dealings between customers and officials |
| $Y$ | N | 8 | 32.0 | 2 | $?$ | V.P. | Payment of an unsigned savings withdrawal; records destroyed and/ or falsified | Withdrawal slip returned unpaid by computer center | No clear reponsibility for safeguarding records, failure to balance accounts daily; casual handling of transactions |
| N | N | 3 | 645.0 | 1 | $?$ | Cashier | Fletitious loans taken to pay off previous fictitious loans | Examiner was suspicious of eignatures and collateral on loans | One-man operation; tual controls circunvented |
| N | N | 7 | 78.36 | 1 | $?$ | Branch magr. | Withholding of customer deposits | Employee observed perpetrator placing deposit tickets in personal safe deposit box | Branch operated in nearly autonomous manner |
| N | N | 7 | 22.6 | 1 | 3.5 y | Bookkeeper | Palse debits made to customer accounts and credited to perpetrator | Suspicious deposit slips found that had not gone through proof machine account | No segregation and rotation of duties |
| $\boldsymbol{x}$ | N | 15 | 43.1 | 5 | 18 m | Dir. | Concealed property to avoid writ of attachment; ledger entries used to transfer funds to affiliated co. | State examination | No board approval for a transaction involving insiders |
| N | N | 5 | 20-30 | 1 | 6 m | Pres. | Kickback scheme; misapplication by improper loan approval | Allegation by loan customer | None |


| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \end{gathered}$ | $\begin{aligned} & \text { Loess } \\ & (\$ 1000) \\ & \hline \end{aligned}$ | Group <br> size | Period concealed | Highest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N | N | 6 | 250.0 | 1 | 1. m | Pres. | Fraudulent lease purchases; kickbacks; approval of substandard lease contracts | Examinations by FDIC and state authority | Poor lending policies, inadequate board supervision |
| $\boldsymbol{Y}$ | N | 17 | 152.67 | 2 | 5 m | Clerk | Unauthorized withdrawals <br> from customer accounts | Customer complaint | Fatiure of personnel to check records against new account number listing |
| N | N | 19 | 15.6 | 1 | 7 m | Asst. mgr. | Embezzlement of customer accounis | Customer reported shortage | Customer trusted suspect, occasionally did not receive deposit receipts |
| N | N | 6 | 416.6 | 1 | $?$ | Cashier | Embezzlement of funds and possible record falsification | Internal audit | None |
| Y | $Y$ | 10 | 40.0 | 2 | ? | Employee | Made and concealed unauthorized loan; falsified records | Confessed to president befora FDIC examiaation | None |
| N | N | 12 | 10.0 | 1 | 3 m | Bookkeeper | viverted funds from cashier check account to personal account | Bookkeeper discovered uncancelled checks when suspect was absent | None |
| N | N | 18 | 35.0 | 1 | 9 m | Asst. V.P. | Embezzlement through forged unauthorized withdrawals irom dorm deposit accounts | Customer complaint | None |
| N | N | 11 | 35.45 | 1 | 1 m | Employee | Theft of cash | Shortage in coin bag during transfer from one office to another | ```Coin shipments not veri- fied``` |
| N | N | 10 | 100.00 | 1 | $?$ | Loan officer | Fictitious loans | U iknown | Inadequate separation of duties and internal audit |
| N | N | 13 | 15.0 | 1 | 1 d | Teller | Cash shortage | Teller reported shortage | None |
| $y$ | N | 13 | 50.65 | 2 | $?$ | Dir. | Properties overappraised on mortgages to customers who bought insurance from suspect; parcel of land given to suspect as a gift | President looked at some of properties when mortgages overdue | Incomplete documentation of mortgage files |
| N | N | 5 | 20.0 | 1 | $?$ | Pres. | Loan granted was an accommodation to officer making the loan. | Borrower revealed the truth | None |



|  | Collusion | Qutsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Loss } \\ (\$ 3200) \end{gathered}$ | $\begin{aligned} & \text { Group } \\ & \text { size } \end{aligned}$ | Period concealed | Highest ranking inslder | Nature | Detection | Reanarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $N$ | N | 12 | 188.95 | 1 | 7 | v.p. | Falae entry, unsecured loans in fictitious names; fictitious financial statements | President became suspicious after questioning suspect on a loan | Small size of each loan allowed suspect to bypass normal procedures; inadequats audit system |
|  | Y | N | 6 | 10.0 | 2 | 3 m | Chairman of the board | Unsecured loan made to customer for payment of debt suspect owed customer | Examination | None |
|  | N | N | 10 | 15.96 | 1 | 8 d | $\begin{aligned} & \text { Exec. } \\ & \text { V.P. } \end{aligned}$ | False entries; issuance of unpaid cashier checks | Discovered by cashier during normal audit | None |
|  | N | N | 12 | 100.0 | 1 | ? | Exec. V.P. | Issuance of unrecorded letter of credit | Unknown | Poor control of letters of credit |
|  | Y | Y | 5 | 10.24 | 2 | 11 m | Pres. | Nonexistent collateral used to renew loan | Investigation by new president after dismissal of suspect | Collateral files to be more closely reviewed by directors |
| $\stackrel{\sim}{\infty}$ | N | N | 5 | 19.82 | 1 | 10 m | Teller | False entries and lapping of deposits; check total on ledger ralsed to cover misappropriated cash | Discovered by asst. cashier during routine review of deposit records | Posting of individual ledger and customer statements not rotated |
|  | N | N | 6 | 14.5 | 1 | 17 m | Dir. | Fraudulent collateral documents; forgery | Attorney noticed possible forgery during foreclosure of collateral; reported to examiner | Bank's attorney handled title work on his own loan |
|  | $Y$ | N | 7 | 145.0 | 3 | 2 y | Pres. | Misrepresentation of collateral for a loan to FDIC examiners | Examination | None |
|  | N | N | 13 | 123.18 | 1 | 45 m | Sr. V.P. | Extension of credit made despite disapproval f loan comittee; suspect benefited | Review of suspect's account | Lack of supervision by board and finance committee |
|  | $Y$ | * | 11 | 73.76 | 2 | 32 m | Pres. | Unauthorized customer debits offset by deposits to personal account | Unknown | None |
|  | N | N | 8 | 10.07 | 1 | $?$ | Teller | Cash shortage in teller drawer | Boutine count of teller Cash | None |
|  | Y | w | 15 | 41.72 | 3 | 20 m | Pres. | Excessive use of expense accounts and bank cars without board approval or knowledge | Check of bank's bills and expense items and review of fixed assets | None |


| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \end{aligned}$ | $\begin{aligned} & \text { Group } \\ & \text { size } \end{aligned}$ | Period concealed | Highest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N | N | 14 | 105.0 | 1 | ? | Pres. | Receipt of royalty interest for arranging loans and providing financial guidance for b rrower; false entry | Unknown | None |
| N | N | 14 | 535.0 | 1 | $?$ | V.P. | Understating loan deinnquency reports to board of directors | Semiannual audit revealed significant increase in delinquent loans | Insufficient segregation and rotation of duties; deviation from customary reporting procedures |
| N | N | 15 | 10.0 | 1 | ? | V.P. | Customer checks made payable to bank were converted to official checks, made payable to a fictitious name and cashed | Questioning of a loan officer and subsequent follow through | Loan officer receiving payment was negligent |
| N | N | 10 | 40-50.0 | 2 | ? | Pres. | Unauthorized use of travel and entertainment account; personal use of income from insurance sales | Discovered during regular CPA audit after dismissal of subject | Lack of internal s trol over officer check-; inadequate review of expense accounts |
| Y | N | 9 | 179.0 | 3 | 10 y | Ch. of the board | Withholding income from insurance commissions without knowledge of directorate | Asst. cashier discussed matter with new president, unaware that it was inappropriate | Lack of director supervision of insurance arrangement |
| N | N | 3 | 12.36 | 1 | 4 m | Pres. | Wire transfer of bank funds to personal account charged personal expenses to bank | Employee resignation and wire transfer brought matter to attention of chairman of the board | None |
| $N$ | N | 11 | 16.0 | 1 | ? | Bookkeeper | Shortage in correspondent account | Routine balancing procedures during absence of suspect | Separation of duties not followed |
| N | N | 11 | 17.95 | 1 | $?$ | Proof Oper. | Proof operator embezzled by extracting own personal checks from outgoing cash letter | Corporation examination noted missing checks in reconcilement | Separation of duties not followed; proof operator also responsible for reconcilement of accounts |
| N | N | 16 | 11.84 | 1 | $?$ | Asst. V.P. | Approved expenses for services and materials never furnished to bank | Unknown | Lack of dual control over expense disbursements, no follow-up procedures to see if disbursements were made |


| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1900) \end{aligned}$ | $\begin{aligned} & \text { Group } \\ & \text { size } \end{aligned}$ | Period concealed | Bighest <br> ranking <br> insider | iature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \% | N | 10 | 284.69 | 1 | 7 | Pres. | Certain notes sold to private parties not entered on loan records and letter of credit not disclosed | Board members found out by accident | Transactions initiated by executive officer and not questioned by subordinates; no dally review of large transactions |
| * | N | 6 | 18.6 | 1 | 2.57 | Asst. cashier | Checks charges against customer dormant demand deposit accounts; when customers requested a statement, shortage was shifted to another account through error corrections | Customer wrote a check in excess of balance shown on records | Lack of separation and rotation of duties; no follow up on unusual entries when noticed by vice-president |
| s | N | 6 | 111.66 | 1 | 1 m | Cashier | Issued check backed by insufficient funds; manipulated clerical staff for cover-up | Members of bookkeeping staff notified president of unpaid checks | Clerical staff felt that they owed their allegiance to suspect (v.p.) as their immediate supervisor not board of directors |
| N | N | 6 | 85.7 | 1 | 1 m | Cashier | Forged money orders | Corporation examiner suggested audit | Vice president not supervised by directorate; unorthodox procedures not reported to directors by clerical staff |
| N | N | 5 | 182.23 | 1 | ? | Pres. | President made bank loans for personal benefit; false statements made to conceal loans | Information supplied by a bank director and review of checking accounts | Lack of thorough review of loans by discount comittee or directorate |
| N | N | 7 | 771.62 | 1 | $?$ | Pres. | Collateral for loans listed livestock that did not exist | Regular examination | Failure to review daily report of large items; failure of loan comittee and directorate to question large and unsecured loans |
| Y | N | 5 | 86.22 | 4 | $?$ | Asst. cashier | Manipulation of demand deposit accounts; concealment of ledger sheets fron examiners | Balancing of demand deposits | Lack of controls and infrequent balancing to general ledger |
| N | N | 9 | 11.97 | 1 | ? | Teller | Withdrawal of cash from teller windows | Audit of teller's cash | Failure to have an officer initial all shortages and failure to check all begining teller cash balances with general ledger |
| N | N | 9 | 30.0 | 1 | $?$ | Branch mgr. | Palse entries to offset a customer's insufficient funds check | Audit by CPA firm | Suspect trusted customer to cover deficit in a few day |


| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { Bize } \\ \text { no. } \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \\ & \hline \end{aligned}$ | Group size | Period concealed | Highest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N | N | 5 | 29.85 | 1 | ? | Asst. <br> V. P. | Entered previously paid out notes back on bank books; forged signatures on notes and received proceeds for self. | Regular audit by CPA firm | None |
| Y | Y | 5 | 84.4 | 2 | $?$ | Pres. | Paid overdraft checks without proper authorization; routed returned checks to a correspondent bank | Reported by banks who received checks | Lack of daily review of overdrafts |
| N | N | 12 | 1157.52 | 1 | Sev. y | V.P. | Funds embezzled through fraudulent entries to correspondent bank account via unauthorized memo deposits to personal account | Examination | official checking accounts now reconciled by persons who do not have authority to issue checks on these accounts |
| N | N | 17 | 40.0 | 1 | 25 y | Super . | Embezzlement and concealment by withholding subsidiary records first in savings dept. and then in time accounts after conversion to computer | Upon retirement suspect replaced ledger sheets; when proofed to general totals, deficit was found | Failure to separate and rotate duties |
| N | N | 5 | 25.39 | 1 | $?$ | Teller | Altered deposits and converted to cash for personal use; sent false statement to customer | Customer complaint | Failure to have periodic audit with direct verification of deposit accounts; inadequate review by directorate, allowing employees to process their own deposits |
| N | N | 5 | 16.06 | 1 | ? | Asst. cashier | Embezzlement by falsification of records; increased the amount of interest due on time deposits and diverted the difference to personal use | President noticed difference in total interest paid on computer printout and general ledger | One-person control of interest paid accounts |
| $\mathbf{Y}$ | Y | 6 | 55.0 | 3 | ? | Pres. | Received kickbacks on loan | President became aware of irregularity when trying to collect balance of debt from outsider | None |
| $\mathbf{Y}$ | N | 9 | 10.39 | 4 | 5 d | Asst. cashier | Shortage of vault cash | Vault teller discovered shortage during cash count | Vault cash verified daily many employees had access to vault |


| Colluaion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \end{aligned}$ | Group size | Period concealed | Highest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Y | Y | 12 | 400-900 | 2 | $?$ | Asst. <br> V.P. | Gave loans for personal benefit | a suspicious loan prompted an audit | Loan matters not reported to board of directors |
| N | N | 9 | 20.0 | 1 | ? | Mort. officer | Diverted mortgage payments to private use | Unknown | None |
| $Y$ | Y | 16 | 95.6 | 2 | 1 d | Employee | All cash except bait money removed from safe while bank was closed; alarms deactivated | Branch manager found safe open in morning | Setting of time lock not witnessed by manager; inside suspect had access to all keys and conbinations |
| Y | Y | 5 | 16.08 | 2 | 7 m | Head teller | Cashing of fraudulent coupons; insider was deemed negligent but not suspect | Bookkeeper became suspicious of activity in account | None |
| $Y$ | $r$ | 17 | 10.0 | 2 | 1d | Head teller | Mysterious disappearance of currency from $\mathrm{Brink}^{\prime} \mathrm{s}$ shipment; no suspects | Cash count | No known deficiency; seal maintained until discovery |
| s | N | 11 | 26.604 | 1 | $?$ | V.P. | Embezzlement of funds by manipulation and/or removal of notes, ledgers, and credit files | Inability to balance books during examination | Weak operational procedures and controls |
| N | N | 16 | 10.46 | 1 | $?$ | Clerk | Misappropriation of funds through fraudulent bookkeeping entries | Routine audit | None |
| N | N | 19 | 10.53 | 1 | 7 \% | Clerk | Substituted customer signature cards with fictitious ones and made withdrawals from these accounts | Customer complaint | Access to teller window by nonoperational personnel |
| $Y$ | Y | 19 | 26.9 | 7 | 13 d | Teller | Cashed stolen government checks; forgery scheme | Alert security guard noticed a customer avoid the ready teller line and go to a particular teller | Teller was able to accept treasury checks bearing a second endorsement without approval by branch manager |
| N | N | 12 | 31.23 | 1 | $?$ | Teller | Missing checks from daily work of teller | Regular examination | Pailure of operating supervisor to "prove-out" all tellers prior to daily departure |


| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Group } \\ & \text { size } \end{aligned}$ | Period concealed | Highest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Y | N | 19 | 11.41 | 2 | 1 m | Asst. V.P. | Fraudulent withdrawal of certificate of deposit by substituting false signature card for authentic one | Bank officer discovered substitution of signature cards | None |
| N | N | 13 | 284.40 | 1 | 7 | Mgr. | Unauthorized loans made to borrowers in excess of lending authority | Examination began while suspect was on vacation | Inadequate supervison by senior m:nagement; restraining of loan personnel |
| N | N | 19 | 31.51 | 1 | 4 y | Bookkeeper | False entries to personal account; destroying off setting debit, and amount as a missing item in daily reconcilement | Internal audit | Lack of separation of duties |
| N | N | 19 | 600.0 | 1 | $?$ | Asst. cashier | Misapplication and false entries through concealment of bank money orders; customer checks held to prevent overdrafts | Regular audit discovered ledger accounts out of balance and money orders not entered on books | Too much reliance on suspect; branch manager lacked knowledge of detail operation |
| N | N | 14 | 8-10 | 1 | ? | Proof mach. oper. | Teller would cash suspect's personal checks; suspect would later destroy the check | Officer reviewing the missing item account discovered a pattern of missing checks | Warning signs were not responded to |
| N | N | 5 | 27.5 | 1 | ? | $\begin{aligned} & \text { Exec. } \\ & \text { V. P. } \end{aligned}$ | A loan was granted by the vice president to two state examiners | Regular examinations | Lack of understanding of criminal statutes |
| N | N | 9 | 52.2 | 1 | $?$ | $\begin{aligned} & \mathrm{Sr} . \\ & \mathrm{V} . \mathrm{P} . \end{aligned}$ | Misapplication of funds by issuing bogus notes and money order | Regular independent audit | Lack of control in the disbursement of loa. proceeds |
| Y | N | 19 | 30.34 | 3 | 9 m | Mgr . | Forged Loans | Anonymous tip received by loan officer | None |
| $\mathbf{Y}$ | Y | 19 | 178.0 | 2 | 7 | Pres. | Misapplication: gratuity for loan; false entries; forgery of notes; loan fraud | Tracing of loan proceeds | One-man operation; ineffective board; unsatisfactory vacation program |
| Y | N | 8 | 325.0 | 2 | $?$ | Pres. | Issuance of certificates of deposits with no deposits having been made; omission of entries | Simultaneous examination of all banks owned by suspect | Poor records; inept and dishonest staff; absence of con trols |


| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & \{\$ 1000) \end{aligned}$ | Group size | Period concealed | Highest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Y | $\pm$ | 12 | 121.35 | 2 | 3.5 y | Pres. | Loan to company in dire financial stress | After sustained loan losses, investigation revealed collusion | Fillure of insider suspect to reveal conflict of interest |
| Y | Y | 9 | 610.0 | 2 | ? | Dir. | Suspect profited from loan to customer | Tracing proceeds of large credits during examiner visitations | One-man operation |
| Y | $Y$ | 11 | 371.0 | 4 | 18 m | Pres. | Loan issued as a favor | Disclosed by president during examination after default of loan | Inaduquate superviaion by board of directors |
| N | N | 12 | 30.0 | 1 | 3 d | Runner | Disappearance of cash placed in vault | Suspect had liberal spending habits; discovery of s30rs in his trunk led to confession | Unsupervised accessibility of suspect to cash |
| $\mathbf{Y}$ | N | 9 | 1094.28 | 2 | $\gamma$ | Pres. | Forgery of customer signatures to notes; lack of documentation of personal expense account financed by bank | Forged notes discovered by internal audit through direct verification of loans purchased by bank | Failure of management to exercise executive supervision |
| s | N | 9 | 10.82 | 1 | 8 m | Secretary | Diverted funds by intermixing personal bills with reguiar bank expenses, using unauthorized cashier checks for personal bills | Investigation after discovery of fictitious note | None |
| $\Psi$ | N | 11 | 902.4 | 4 | $?$ | Pres. | False entries | Regular examination | One-man bank (president) |
| ? | $?$ | ? | 22.0 | ? | ? | Unknown | False entries | Confidential tipi investigated while employee on vacation | Loose internal operation |
| $?$ | $?$ | $?$ | 40.18 | ? | ? | Unknown | Diversion of loan funds for personal use | Internal check | Lax internal controls on loans to managers |
| N | N | 9 | 36.62 | 1 | $?$ | Exec. <br> V.P. | Embezzled from bank securities account | Cashier notified examiners of unusual transactions | Excessive personal spending, marital problens; unlimited control over account by one individual |
| $\mathbf{Y}$ | N | 11 | 12.0 | 2 | 2.5 m | Teller | Disappearance of cash and bank records | Shortage during reconciliation of teller transactions | None |


| collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \end{aligned}$ | Group size | Period concealed | Highest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N | N | 8 | 87.5 | 1 | 5 m | $\begin{aligned} & \text { C... of } \\ & \text { the } \\ & \text { Board } \end{aligned}$ | Misused funds loaned to director | Examiner traced loan proceeds | No monitoring of loan application statements |
| $?$ | $?$ | 15. |  | ? | ? | Unknown | Misrepresentation of financial condition by director when applying for 1 ns | Examiner reviewing loan outs | Lack of proper credit analysis of insider transaction |
| N | N | 17 | 10.06 | 1 | 9 m | Loan officer | Fictitious loans | Routine internal check | None |
| N | N | 14 | 205.96 | 1 | 1 y | Employee | $C D$ not entered in books by CD deposit clerk | Audit of interest account | Kept CD herself |
| N | N | 8 | 49.91 | 1 | $?$ | Asst. cashier | Understated mount of interest received on loans, keeping difference | Numerous unexplained discrepancies in dept. | Lack of supervision of employees |
| N | N | 10 | 12.0 | 1 | ? | Operations officer | Transferred money from customer demand deposit to personal account internally | Customer complaint of shottages in his account | Lack of effective day-today internal audit |
| N | N | 14 | 380.0 | 1 | ? | Employee | Disseminated false information to custor ars concerning investment in local firm | Complaint by D.A. office | Employee receiving conmission for directing investments to firm |
| N | N | 15 | 22.85 | 1 | 4 y | Note <br> Teller | Dept. interest paid to perpetrator by false entries in books | Routine internal audit of commercial loan interest account | None |
| N | N | 11 | 11.38 | 1 | 2 m | Book- <br> keeper | Irregular transactions probably embezzlement | Routine audit | Low level employee exceeded her authority and cashed checks without okay from above; lack of proper checks and supervision |
| N | N | 17 | 33.63 | 1 | 6 m | Branch mgr. | Overdrafts on customers account not reported | Routine audit | Sloppy managerial procedure; checks not processed on timely basis |
| N | N | 17 | 29.8 | 1 | $?$ | Utility Clerk | Took customer deposits and deposited to own account | Customer complaint | Also authorized overdraft, exceeded her authority |


| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \end{aligned}$ | Group <br> size | Period concealed | Highest ranking insider | Nature | Detection | Remazks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N | * | 11 | 13.76 | 1 | 7 | V.P. | Purchased securities at price above market quote; kept difference; canspiracy with broker | Routine check of securities portfolio | Formal investment policies violated; inexperienced president let it slip by; poor controls |
| N | N | 16 | 170.0 | 1 | $?$ | Loan of'icer | Kickback for loans granted | Unknown | None |
| N | N | 8 | 120.76 | 1 | ? | Teller | Used cashier checks; records destroyed | State examination | Incident difficult to uncover because employee destroyed records |
| N | N | 11 | 59.99 | 1 | 1 m | $\begin{aligned} & \text { Comer- } \\ & \text { cial } \\ & \text { teller } \end{aligned}$ | Bought cashier check but withheld check used to pay for it and the credit copy of the cashier check | Employee auditing cashier check sales | Caught immediately |
| N | N | 17 | 38.7 | 1 | ? | Secretary | Diverted funds from customer acounts to own account | Internal audit | Suspect had signing authority over accounts affected |
| $?$ | $?$ | $?$ | 22.39 | $?$ | ? | Pres. | Palse financial information filed in loan application | Bank requested to verify status of loan collateral | Weak loan policy for insiders |
| Y | N | 15 | 16.19 | 2 | 32 m | $\begin{aligned} & \text { Asst. } \\ & \text { V.P. } \end{aligned}$ | Made loans to friends for own ultimate use | Routine audit | Lack of proper review of new loans; lack of review of officer and et ployee deporit accounts |
| 3 | s | 8 | 15.0 | 1 | 1 y | Pres. | Undervalued bank real estate and sold to son-in-law | Routine perusal of other real estate account | Board of directors not overseeing president's activity; too much authority |
| Y | N | 8 | 550.9 | 16 | 16 m | Pres. | Loans made to various people to be used ultimately by one special custamer | Routine evaluation of loan portfolio | This arrangement circumvented the Kank's lending limits to individuals; recipients of loan paid people for their investments |
| N | N | 11 | 37.14 | 1 | 8 m | Pres. | Falsification of records; received portion of loan proceeds himself | Unknown | None |
| N | N | 6 | 30.0 | 1 | 1 Y | Bookkeepor | Withdrew money from customers accounts; series of false entries used to cover; some records destroyed | Examiner found shortage | None |


| Collusion | Outaider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Group } \\ & \text { size } \end{aligned}$ | Period concealed | Highest <br> ranking <br> insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| n | N | 18 | 178.0 | 1 | ? | V.P. | Forged security agreement after losing original | Original turned up during course of business | Afraid of consequences so covered up error; some evidence of outside interest in firm to which loan was made |
| N | N | 17 | 38.8 | 1 | 10 m | $\begin{aligned} & \mathrm{Sr} \\ & \mathrm{~V} . \mathrm{p} . \end{aligned}$ | Created fictitious loans and used proceeds | Subordinates became suspicious of delays in processing notes | None |
| N | N | 18 | 1000.0 | 1 | 1 y | V.P. | Issued phony CD payable to bearer; debits to reserve funds | Customer questioned lavish life style of vice presideat which triggered an audit after the death of the suspect | No supervision; inadequate audit program |
| N | N | 8 | 5-20 | 1 | 2.5 y | Invest- <br> ment <br> officer | Diverted securities and miscellaneous fees via phony debit/credit menos | Internal audit which lasted 3 years | Too much autonomy in several areas |
| N | * | 10 | 71.53 | 1 | ? | Asst. <br> cashier | Cashed checks without verifying sufficient balances-insufficient funds | Checks bounced | Far exceeded check cashing authority; lack of adequate controls on junior level staff |
| N | N | 11 | 10.09 | 1 | 7 m | Teller | Received deposits out did not record them | Depositer reported credit had not been received for deposits | Haphazard and loose procedures on bag deposits |
| $N$ | N | 10 | 27.8 | 1 | 1 y | Admin. <br> Assist. | Falsc entries; sales of bonds and cashier checks | Cashier check presented for payment; payment not entersd into ledger | Too much autonomy; performed numerous account functions and had access to numerous accounts, permitting juggling |
| N | N | 10 | 455.59 | 1 | ? | V.P. | Fraudulent loan for own use: false entries to cover | Regular audit by Haskins \& Sells | Lack of segregation of duties |
| N | N | 15 | 10.01 | 1 | 7 | Asst. cashier | Issued loan to customer for personal use | Bank suspicious when suspect over-extended himself | Got into financial difficulties |
| N | N | 7 | 50.0 | 1 | 2.5 y | Pres. | Used unissued bank stocks as collateral for loan; Alsified books to reflect this | Examination | Extravagant lifestyle; could not make interest payments with salary |
| Y | Y | 8 | 72.0 | 2 | ? | Pres. | Altered face amourt on CD | Officers checked on CD in question | President in collusion with female outsider |


| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { aize } \\ \text { no. } \end{gathered}$ | $\begin{gathered} \text { Loss } \\ (\$ 1000) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Group } \\ & \text { size } \end{aligned}$ | Period concealed | Highest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $Y$ | $y$ | 6 | 43.68 | 4 | 1 y | Dir. | Fake money order | Routine examination | Loose accounting system |
| N | N | 8 | 37.28 | 1 | 4 Y | Asst. cashier | Embezzlement through ithholding of deposit 1 Lums | Custorar complaint | Failure to rotate employee duties |
| y | $Y$ | 4 | 200.0 | 1 | $?$ | Chair. of the board | Kiting between two banks | Routine examination | None |
| $Y$ | Y | 9 | 150.0 | 4 | 2 y | Fres. | Loan fraud | Examination | Failure to separate duties |
| Y | Y | 9 | 52.5 | 2 | 2 y | Pres. | Misapplication | Detected by officers after resignation of perpetrator | Ill-defined practices |
| z | Y | 9 | 75.0 | 2 | 2 y | Pres. | Loan conspiracy | Routine procedures | Too much authority to one person; lack of independent appraisal |
| Y | Y | 9 | 26.07 | 4 | 2 y | Pres. | Cashier check fraud | Suspicion of managers | Too much authority to one per son |
| Y | Y | 9 | $?$ | 3 | 2 Y | Pres. | Misapplication | Confession by outsider | Too much authority to one person |
| Y | $\mathbf{Y}$ | 6 | 10.5 | 3 | 1 \% | $\begin{aligned} & \text { Exec. } \\ & \text { V.P. } \end{aligned}$ | Misapplication; kiting | Routine examination | Loose operations |
| $\mathbf{Y}$ | Y | 4 | 28.0 | 3 | 4 m | Chair. of the board | Misapplication | Discovered by president | None |
| $\mathbf{Y}$ | Y | 12 | 36.98 | 2 | 3.5 y | V.P. | Renewed loans to bankrupt partner | Discovered by clerks while suspect on vacation | None |
| N | s | 10 | 10.0 | 1 | 5 y | Cashier | Unauthorized withdrawals and transfers | Discrepancy noted by victimized account holder | None |
| Y | $\mathbf{Y}$ | 14 | 32.1 | 5 | 58 m | Pres. | Loan fraud | Review of real estate records | None |
| * | N | 2 | 38.0 | 1 | $?$ | Exec. V.P. | Misapplication | Examination | Too much trust in one man |
| I | N | 4 | 15.5 | 2 | 17 | Exec. <br> officer | Check fraud | Consumer complaint | Employee ignorance |


| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \\ & \hline \end{aligned}$ | Group <br> size | Period concealed | Bighest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{Y}$ | N | 4 | 30.72 | 2 | ? | Exec. officer | Misapplication | Customer complaint | None |
| $\boldsymbol{Y}$ | Y | 19 | 119.87 | 3 | 4 a | Branch mgr. | Misapplicationy kiting | Routine review of overdraft report | Lack of supervision by bank manager |
| N | 1 | 17 | 74.14 | 1 | $?$ | Asst. br. mgr. | Delayed posting of credits | Customer complaint | Improved monitoring of control procedures needed |
| $Y$ | Y | 15 | 12.53 | 3 | 8 d | Employee | Palsification of records | Return of check for nonsufficient funds | None |
| N | N | 14 | 20.0 | 1 | $?$ | Asst. V.P. | Forgery | State exanination | Lack of separation of duties |
| N | N | 7 | 100.0 | 1 | ? | Cashier | Fictitious note | Admitted crime to bank officers | Lack of good audit program; cashier in financial difficulties |
| N | N | 12 | 35.0 | 1 | 1.5 y | V.P. | Fictitious loans | Detection by employee | None |
| N | N | 9 | 10.41 | 1 | 16 d | V.P. | Cashier check fraud | Approached by president and confessed | Lack of dual control over cashier checks |
| N | N | 8 | 12.5 | 1 | $?$ | Special service teller | Theft of cashier checks | Discovered by FBI | No dual control over unissued cashier checks |
| $Y$ | N | 11 | 21.4 | 2 | ? | Teller | Mysterious disappearance of cash | Internal audit | None |
| Y | N | 12 | 29.0 | 3 | ? | V.P. | Embezzlement of cash | Customer complaints | Lax procedure for teller machines |
| N | N | 3 | 84.0 | 1 | 4 m | $\begin{aligned} & \text { Exec. } \\ & \text { V. } \end{aligned}$ | Overdrafts | Discovered by president while suspect on vacation | Insufficient supervision by board of directors |
| N | N | 12 | 17.16 | 1 | $?$ | Auditor | Cashier checks issued to cover personal debts | Bankers became suspicious due to missing checks | Unauthorized person allowed to sign official checks |
| N | N | 16 | 58.05 | 1 | $?$ | Loan officer | Pictitious notes | Review of records by vice president | None |
| N | N | 15 | 32.0 | 1 | 3 d | Branch mgr. | Cash stolen from vault | Note left by thief | One man had full access to cash |
| Y | $\mathbf{Y}$ | 13 | 25.0 | 3 | $?$ | Branch mgr. | Conflict of interest; receipt of commissions for procuring loans | Accidental discovery of conflict | Better auditing needed |


| Collusion | Outside. | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \end{aligned}$ | $\begin{aligned} & \text { Group } \\ & \text { size } \end{aligned}$ | Period concealed | Highest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N | N | 13 | 16.5 | 1 | ? | Teller | Lapping federal tax deposits of depositors | IRS inguiry while suspect absent with illness | None |
| N | N | 9 | 18.4 | 1 | 8 m | $\begin{aligned} & \text { Asst. } \\ & \text { V.P. } \end{aligned}$ | Fictitious notes | Rumors reached president | Failure to review employee accounts |
| $y$ | Y | 8 | 35.24 | 2 | 14 m | Pres. | Purchased bonds in excess of value; kickback | Examination | Failure to supervise bond transactions by board of directors |
| N | N | 9 | 184.0 | 1 | $?$ | Pre*. | Porgery | Custoner complaint | Ineffective review of activities of bank officers |
| N | N | 10 | 78.55 | 1 | ? | $\begin{aligned} & \text { Exec. } \\ & \text { V.P. } \end{aligned}$ | Falsification of records; financial link between officer and outside agency | Investigation of agency going out of bisiness | Better defined lines of authority required |
| Y | Y | 8 | 10.0 | 2 | 31 m | V.P. | Misapplication; receipt of commissions for procuring loans | Unknown | None |
| $Y$ | $Y$ | 8 | 2472.05 | 2 | $?$ | V.P. | Misapplication; kiting | Informant told examiners | One-man operation; financial distress |
| N | N | 8 | 921.0 | 1 | $?$ | V.P. | Loan fraud | Confessed after being fired for other unexplained differences | One-man operstion |
| $\mathbf{Y}$ | Y | 7 | 5151.785 | 2 | ? | Pres. | Misapplication; trading U.S. securities for own benefit | Confession | One man handled all securities transactions |
| Y | Y | 8 | 10.0 | 2 | 12 a | Pres. | Unauthorized cashiers check for payment to outsider | Special examination | None |
| N | N | 12 | 23.25 | 1 | ? | Clerk | Improper computer input and erroneous loans | Routine procedures | None |
| N | N | 8 | 10.0 | 1 | ? | Employee | Misapplication; denand deposit account shortage | Review of ledger sheets | None |
| $\mathbf{Y}$ | $\mathbf{Y}$ | $?$ | 52.9 | 3 | ? | Unknown | Fake collateral | Anonymous tip-off | Failure to verify vollateral |
| $\mathbf{Y}$ | Y | 12 | 104.0 | 2 | ? | Asst. | Forgery | Customer complaint | None |


| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \end{aligned}$ | Group <br> size | Period concealed | Highest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N | N | 8 | 36.5 | 1 | ? | ```Install- ment loan clerk``` | Paked balance of led ar sheets | Regular examination | Lack of adequate internal audit |
| N | N | 8 | 53.0 | 1 | $?$ | ```Install- ment loan clerk``` | False register sheets | Inspection of ledger sheets | Lack of adequate internal audit; no continuous 2 -week vacation |
| $?$ | $?$ | $?$ | 13.04 | $?$ | 7 | Unknown | Uniocated difference in ledger | Examination | No rotation and separation duties; no suspects |
| $?$ | $?$ | $?$ | ? | $?$ | ? | Unknown | Kiting operation with outside corporation | Routine examination | None |
| N | N | 15 | 14.5 | 1 | 2 y | Trust officer | Transfer of funds | Routine examinatior by bank trust auditor | None |
| N | N | 12 | 52.0 | 1 | ? | V.P. | Illegal transfer of funds; cashier checks | Routine audit | None |
| N | N | 14 | 250.0 | 1 | ? | Branch mgr . | Irregular signatures; forgery | Uncovered by employee of other branch | None |
| $\chi$ | N | 12 | 15.0 | 3 | $?$ | Branch mgr. | Cash missing from teller box | Examination | None |
| N | N | 11 | 40.0 | 1 | 1 Y | Asst. cashier | Alteration of loan documents | Unknown | None |
| N | N | 6 | 11.05 | 1 | ? | Teller | Manipulation of cash collections by teller | Discovered by employees | Lack of control of cash collections |
| $?$ | $z$ | $?$ | 100.0 | ? | ? | Unknown | Misuse of bank funds to obtain a loan from another bank | Regular examination | None |
| N | N | 12 | 16.9 | 1 | ? | v.p. branch mgr. | Theft of cash from teller window | Unknown | None |
| ? | $?$ | $?$ | 50.0 | $?$ | $?$ | Unknown | Loan fraud | Regular examination | None |
| N | N | 16 | 10.0 | 1 | ? | Teller | Forged withdrawals from customer accounts | Customer complaint | None |
| N | N | 18 | 20.0 | 1 | 6 d | Vault custodian | Vault cash shortage | Revealed in cash settlement | None |


|  | Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \end{aligned}$ | Group size | Period concealed | Highest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $Y$ | N | 12 | 2200.0 | 3 | 3 y | Pres. | Back-diting notices of the right to rescission | Regular examination | None |
|  | n | N | 13 | 11.568 | 1 | ? | Book- <br> keeper | Misapplication of service charges | Audit by outside CPA firm | None |
|  | N | 1 | 12 | 17.21 | 1 | 22 d | Settlement clerk | tilssing bond coupons in registered mail shipment | Unk nown | Sone |
|  | $Y$ | $\mathbf{Y}$ | 14 | 1500.0 | 5 | ? | V.P. | Loan fraud | Discovery of concealed records | Loose loan procedures; collateral not checked for authenticity |
|  | N | N | 10 | 90.0 | 1 | $?$ | Head bookkeeper | Forgery | Suspect found in company of a known felon; investigation begun | One-man operation |
|  | N | N | 16 | 81.0 | 1 | ? | Asst. head teller | Issued and cashed registered checks through cash drawer | Examination | None |
| N | Y | N | 17 | 11.48 | 10 | 5 d | Money roont employee | Disappearance of cash from money roon | Discovered by manager of money room | None |
|  | $\mathbf{Y}$ | $\mathbf{Y}$ | 14 | 100.0 | 3 | 2 y | Pres. | Loan fraud | Regular examination | Negligence in granting loan |
|  | $\mathbf{Y}$ | $Y$ | 14 | 250.0 | 2 | 1.5 y | V.P. | Receipt of commissions for procuring loans | Regular examination | Proper procedures ignored |
|  | N | N | 8 | 23.15 | 1 | $?$ | Head teller | Shortage in coin bags and lapping of deposits | Customer complaint | None |
|  | N | N | 10 | 100.0 | 1 | $?$ | Pres. | President asked loan office: to falsify appraisal | Loan officer reported incident to board | None |
|  | ? | $?$ | 7 | 50.0 | $?$ | ? | Pres. | Kite involving many banks | Regular examination | Suspect held above suspicion due to his insider relationships in each institution |
|  | N | N | 12 | 24.25 | 1 | $?$ | Teller | Cash removed and replaced by debit entries | Internal audit | None |
|  | N | N | 14 | 17.24 | 1 | 1 y | Note teller | Misappropriation through false entries | Normal audit | None |
|  | N | N | 15 | 190.3 | 1 | $?$ | Cashier | Checking abuse; false entries | Bookkeeper reported irregularity to president | No internal audit of bookkeeping department |


| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \end{aligned}$ | Group <br> size | $\begin{aligned} & \text { Period } \\ & \text { concealed } \end{aligned}$ | Highest ranking ineider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N | N | 15 | 17.3 | 1 | $?$ | Asst. branch | Transfer of funds; fictitious loans | Customer inquiry | Lack of segregation of duties |
| Y | Y | $?$ | 90.0 | 3 | $?$ | Unknown | Fraud | Discovery of encoding error by Ped. Reserve Bank | None |
| N | N | 9 | 10.5 | 1 | $?$ | Loan <br> officer | Falsification of records; forged notes | Customer information | None |
| $\mathbf{Y}$ | Y | $?$ | 35.0 | 2 | ? | Unknown | False loan application (president and director of another bank) | Examination | None |
| N | N | 8 | 78.0 | 1 | 9 m | V.P. | Falsification of records and fictitious loans | Custoner complaint | To pay gambling debts |
| $y$ | A | 6 | 60.0 | 2 | 8 m | Pres. | Fake promissory note | Routine examination | None |
| $\mathbf{Y}$ | N | 6 | 150.0 | ? | ? | Pres. | Unauthorized letter of credit | Routine examination | None |
| N | N | 9 | 67.0 | 1 | $?$ | Teller | Falsification of records | Federal Reserve Bank | Deficient audit procedures |
| N | N | 9 | 120.28 | 1 | 7 | Bookkeeper | Check fraud | Anonymous +ip by employee during audit | One-man control over posting of deposit ledgers |
| N | N | 12 | 10.0 | 1 | $?$ | Proof and transit clerk | Bank records altered and destroyed for diversion of funds | Missing ledger copies could not be located | None |
| d | N | 8 | 20.1 | 1 | 14 d | Vault teller | Theft of vault cash | Cash count in connection with regular audit | No restrictions on vault access |
| N | N | 11 | 16.7 | 1 | $?$ | Discount <br> teller | Diversion of interest and loan payments | Review of work when employee failed to return from lunch | nadequate internal audit program |
| Y | N | 7 | 34.9 | 2 | $?$ | Pres. | Misrepresentation and misapplication of borrowers funds | Examination | None |
| N | N | 15 | 435.0 | 1 | 10 y | $\begin{aligned} & \mathrm{Sr}, \\ & \mathrm{~V} . \mathrm{P} . \end{aligned}$ | Forgery of checks; falsification of monthly statements | Customer complaint | Bank allowed account statement to go directly to new business officers instead of directly to customer; inadequate controls on debit memos paid by cash |


| Collusion | Outeider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Group } \\ & \text { size } \end{aligned}$ | Period concealed | Highest <br> ranking <br> insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $Y$ | N | 6 | 161.08 | 3 | 2.5 y | Pres. | Embezzlement of customer funds | Replacement of management personnel disclosed same irregularicies; the rest found during special examination | Rotation of employees instituted to avoid collusion |
| N | N | 16 | 32.36 | 1 | $?$ | A-st. Treasurer | ```Fictitious loans, di- version of loan proceeds, false entry on general ledger``` | Internal audit | More formalized record retention system; better audit; better review of employee deposit accounts needed |
| $Y$ | Y | 6 | 16.57 | 2 | ? | Asst. <br> cashler | Disposed of property used for collateral | Review of loans | Failure to service lien line in keeping with the known financial problems of borrowers |
| N | N | 4 | 10.1 | 1 | 1 y | Pres. | Acquired charged-off notes whic were not declared worthless by directorate | Normal review of chargedoff notes | None |
| N | N | 3 | 98.3 | 1 | 9 \% | Exec. V.P. | Fictitious loan entries | Examination | None |
| $Y$ | N | 6 | 246.8 | 2 | 14 m | Pres. | Concealed use of funds for ventures in which suspects had an interest; deceived directors and bank examiners | Directors whe were nonactive officers notified supervisory authorities | Domination of bank affairs b. the two suspects |
| ? | $?$ | $?$ | 125.0 | $?$ | ? | Branch mgr. | Falsifie: information on loan application | Examination turned up suspicious loan | Low standards in screening loans to insiders |
| 7 | $?$ | $?$ | 285.0 | $?$ | 7 | Branch mgr. | V.P. and senior loan officer submitted false information to board of directors to grant loans to outsiders | Examination | Credit verification and loan granting were not separated |
| $?$ | $?$ | $?$ | $?$ | ? | 7 | Branch mgr. | Numerous loans made to outsiders without credit ve fication | Examination | Auditing department did not care; fully audit loan account |
| $?$ | $?$ | $?$ | 2838.0 | $?$ | $?$ | Branc: mgr. | ```Purchased instaliment loans from various local corporations; essen- tially worthless``` | Examination | Failure to establish review and audit procedures to test soundness of loans |


| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \\ & \hline \end{aligned}$ | Group <br> size | Period concealed | Highest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| , | $?$ | $?$ | 788.0 | $?$ | \% | Branch mgr. | Accepted poor quality installment loans as collateral for business loans | Examination | V.P. and senior loan officer reportedly covered up problems and continued with same fractices |
| $?$ | $?$ | 7 | 1150.0 | ? | $?$ | Branch vgr. | Loans made without proper collateral | Examinction | No controls over officers |
| Y | N | 8 | 74.22 |  | 6 i | Pres. | Fraudulent entries | Routine review of transactions | No controls over president in small bank: failure of auditor to reconcile accounts on a regular basis |
| N | N | 17 | 19.9 | 1 | $?$ | Head teller | Forged withdrawal slip to withdraw from dormant account | Customer came in to update interest and disputed withdrawal | No regular checking of dormant accounts |
| $\mathbf{Y}$ | Y | 17 | 163.19 | 4 | 17 | Branch migr. | Credit given without proper authorization | Internal audit | Unauthorized loans given to a number of firms headed by same individual |
| N | N | 13 | 23.43 | 1 | ? | Asst. <br> V.P. | Diverted funds into demand deposit for own use | Routine internal audit | No periodic review of func on performed by suspect |
| N | N | 15 | 11.23 | 1 | 6 y | Teller | Withheld cash deposiis | Internal audit | Sioddy controls; withheld small amounts on a continuing basis |
| N | N | 19 | 10.0 | 1 | 5 m | Asst. V.P. (branch mgr.) | CD account disappiared; manager diverted to wn use | Depositer came in to see why interest was not being paid; had no account number assigned to him | Depositer did not speak <br> English; manager took money |
| N | N | 20 | 18.0 | 1 | 5 m | Service rep. | Processed false loans against time certificates of depositers | Depositer received loan verification form as part of routine audit and called the bank | Poor internal control |
| N | $N$ | 19 | 12.2 | 1 | 2 m | Teller | Made out a cashiers check to himself | Internal audit | None |
| N | N | 18 | 43.64 | 1 | ? | Asst. bank officer | Lost money on customer's foreign exchange account by mistake; covered with false entries | Internal audit | Honest, but poor judgment |
| N | N | 8 | 10.87 | 1 | ? | Branch mgr. | Embeazlement through manipulation of depositer accounts | Customer complaint followed by internal audit | None |



| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \end{aligned}$ | Group <br> size | Period concealed | Highest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $y$ | N | 19 | 12000.0 | 8 | 2 y | Pres. | Loans made in excess of authorized lending limits by various officers | Routine analysis of the branch loan portfolio | Senior management accepted end condoned this practice |
| Y | s | 19 | 84.0 | 8 | 27 | Pres. | Utilization of loan proceeds by president | Investigation instituted after disclosures by comptroller | Faulty lending policies |
| N | N | 9 | 29.9 | 1 | $?$ | Teller super. | Misapplication of inactive customer savings account funds | Routine check of employee's accounts during regular vacation | None |
| Y | Y | ? | 10.0 | 2 | ? | $?$ | Outsider fraudulently instructed a teller to transfer funds to himself from another customer account | Wire transfer did not clear the bank interoffice system | No test code was required for money wire transfers |
| $Y$ | Y | ? | 14.49 | ? | ? | $?$ | Securities sold to bank in excess of going rate | Examination | Lack of investment policy and board participation in purchase of securities |
| 3 | N | 12 | 21.92 | 1 | ? | Teller | Forged endorsements on cashier checks made out to customers; based on fraudulent notes | Customer complaint | Failure to control computer work prior to opening hour, allowing suspect to remove late notices from computer. Tellers cashing checks for other than endorsors, taking the word of bank officers |
| Y | N | 7 | 25.0 | 2 | ? | Pres. | Sale of nonbooked loan and concealment of from board of directors and regulating agencies | Examination | Weak internal controls; no independent audit |
| N | N | 7 | 23.9 | 1 | ? | Exec. officer | Took money in excess of amount authorized and falsified bookkeeping entries | Unknown | No internal auditor; one-man operation; board of directors was a rubber stamp |
| Y | N | 3 | 220.0 | 2 | $?$ | Chairman of the board | Deposited rubber checks from another bank and received immediate credit | Checks were returned | Deficiency: paying checks on uncollected funds; liquidated |
| N | N | 13 | 500.0 | 1 | ? | V.P. | Switched loans from one name to another; falsified collateral reports; intercepted overdraft report | Unknown | None |


| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \\ & \hline \end{aligned}$ | Group size | Period eoncealed | Eighest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N | N | 5 | 22.97 | 1 | $?$ | V.P. | Misapplication of funds and falsification of records | Unknown | None |
| N | N | 11 | 17.5 | 1 | $?$ | Loan <br> officer | Disbursement of loan proceeds to the loan officer's personal checking account | Regular examination | Disbursement of loan proceeds in cash through laan officers |
| s | N | 18 | 14.45 | 1 | ? | New account clerk | Defalcation of funds; interstate transport of frasdulently obtaired checks | Checks returned because of forgery and/or inproper endorsement | Baployees were not thorough in efforts to obtain proper I.D.s |
| N | N | 17 | 53.0 | 1 | $?$ | $\begin{aligned} & \text { Asst. } \\ & \text { V. P. } \end{aligned}$ | Altered and destroyed treasurer's check records and docunents to embezzle | Audit performed during suspect's absence due to illness | Sone |
| N | N | 9 | 33.0 | 1 | 28 \% | Dir. | Personal use and benefits of loan proceeds by falsely purporting an affiliated company to be the borrower | Regular exasination | None |
| Y | $v$ | 15 | 95.7 | 3 | $?$ | V.P. | Acceptance of bribe to approve vouchers of borrowers | Borrowers admitted payoffs when bank threatened to foreclose | None |
| Y | Y | 15 | 750.0 | 3 | 7 | v.P. | Conspired to lend a construction firm more money than was actually used | Detailed review of account after insider wa* terminated | Phony voucher system alloved over-payment |
| $?$ | $?$ | $?$ | 190.56 | $?$ | $?$ | 7 | Fraudulent notes discounted at bank | Annual directors audit | No credit checks, lack of formal loan review |
| $Y$ | \% | 15 | 53.15 | 2 | ? | Branch mgr. | Granted loans to customer from whom he received a loan of the same anount | Internal loan review | None |
| N | s | 17 | 400.0 | 1 | $9=$ | Branch mgr. | Cash acquired via fictitious loans and an internal accounting transmittal system | Unknown | None |
| Y | Y | $?$ | 119.8 | 3 | ? | 7 | Check kiting | Internal review | Failure to monitor reports of kite suspects |



| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { gize } \\ \text { no. } \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \\ & \hline \end{aligned}$ | Group size | Period concealed | Highest <br> ranking <br> insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N | N | 8 | 13.3 | 1 | ? | $\begin{aligned} & \mathrm{Sr} . \\ & \mathrm{V} . \mathrm{P} . \end{aligned}$ | ```Embezzled funds; falsi- fied records``` | Audit of loans made after suspect's suicide | Bank practice to audit an officer's loans if he resigns or leaves abruptly |
| $Y$ | N | 18 | 572.9 | 3 | $?$ | Cash <br> vault <br> super- <br> visor | Embezzled cash from money shipments received by vault teller; defalcation concealed by holding out other deposits until subsequent days | Extravagant life style and effort to prepay lease for a girlfriend caused suspicion and investigation | No mandatory vacation policy |
| $\Psi$ | $\mathbf{Y}$ | 11 | 603.0 | 3 | 8 = | Chief exec. officer | Submitted false financial statements to obtain loan | Review of affairs by outside auditors | Inadequate supervision by board of directors |
| : | N | 10 | 400.0 | 1 | 7 | V.P. | Fictitious entries | State examination | Failure to verify all entries relating to the correspondent bank account |
| $y$ | N | 10 | 128.4 | 2 | 3 y | Asst. cashier | Missing cashier checks, not purchased but books in balance | Examination | No vacation pilicy |
| N | N | 13 | 5-10.0 | 1 | $?$ | $\begin{aligned} & \text { Exec } \\ & \text { V.P. } \end{aligned}$ | Kiting | State examination | None |
| $\mathbf{Y}$ | $Y$ | $?$ | 44.4 | 2 | ? | $?$ | Check fraud | Review of nonsufficient funds checks which were paid into overdraft status. The volume and nature of checks prompted a review | Paying checks on uncollected balances |
| $Y$ | Y | 5 | 135.0 | 4 | 2 y | Chairman of the board | Loan guarantee granted under false pretenses | Examination | One-man control |
| $Y$ | n | 7 | 150.0 | 2 | 3 y | Pres. | Receipt of conalissions for processing loans; misapplication | Uniknown | None |
| $\mathbf{Y}$ | s | 8 | 350.0 | 2 | $?$ | Chief exec. officer | Falsified loan information | Review of loan file and verification of collateral loans | Lax servicing of loans |
| n | N | 5 | 88.25 | 1 | $?$ | Pres. | President made unauthorized loan to oil company in which he had an interest | Informed by mínority shareholder | Small bank run by one man |


| Collusion | Outsider | $\begin{gathered} \text { ABA bank } \\ \text { size } \\ \text { no. } \end{gathered}$ | $\begin{aligned} & \text { Loss } \\ & (\$ 1000) \end{aligned}$ | Group size | Period concealed | Bighest ranking insider | Nature | Detection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Y | N | 7 | 10.0 | 2 | 23 d | $\begin{aligned} & \text { Exec. } \\ & \text { V.P. } \end{aligned}$ | Illegal transfer of loan proceeds | Review of debit and credit activity of errant account | None |
| $\mathbf{Y}$ | N | 9 | 1100.0 | 3 | $?$ | Pres. | Use of uncollected funds; kiting | Regular examination | No follow-up on kite suspects |
| N | N | 11 | 14.3 | 1 | 1 * | Stockboy | Cash missing from night depository bag | Teller noticed cash box missing | Stock boy had access to area where cash boxes kept |
| N | N | 16 | 40.3 | 1 | $?$ | Supervisor | Activated dormant credit card numbers to convert funds to personal account | Internal audit | Inadequate controls on dormant accounts |
| Y | N | 16 | 15.0 | 2 | 1 d | Branch officer | Shipment of currency fund short | Count of money | None |
| N | N | 12 | 25-30.0 | 1 | 3 y | Branch mgr. | Converted funds from loan payments to private use | Internal audit | Regular audits to be conducted |
| Y | $\mathbf{Y}$ | 15 | 63.0 | 2 | 4 y | Investment dir. | Purchased securities at inflated prices; kickbacks | Inte: nal audit of classified securities | None |
| N | N | 7 | 100.0 | 1 | 2.5 y | Pres. | Letter of credit issued without board or loan committee approval | Focuments relating to incident were found in suspect's desk while on vacation | No control over the issuance of letters of credit |
| N | N | 7 | 12.5 | 1 | 4 m | Pres. | Intent to deceive board of directors by issuing five unsecured notes | Examination | Loose loan procedures fo amounts less than $\$ 5000$ |
| Y | N | 8 | $?$ | 6 | ? | Exec. V.P. | Mysterious disappearance of savings ledgers and abstraction of an equivalent amount of cash through collusion | Customers presented passbooks for which bank had no records | Surprise counts of teller cash and more frequent audits required |
| N | N | 6 | 10.0 | 1 | 2 m | Pres. | $\$ 10,000$ commission demanded for recommending loan approval | Loan applicant reported to FDIC | None |

## ABBREVIATIONS AND DEFINITIONS

?: Indicates that only sketchy background information was available. ID: year of crime and sequence number

Loss: in dollars
Type of organization:
Finance: banking, insurance, securities
Govt: federal, foreign, state, local government
Medical
Educational
Sales/mfc: chemical/pharmaceutical, petroleum, manufacturing
Comm/publ: communications, pubiications
Trans/util: transportation, utilities
Comp serv: service bureau, consulting, credit bureau
Prof org: professional organizations, labor unions, fraternal and political organizations
Ind: individuals
Conspiracy: $\mathrm{Y}=\mathrm{yes} ; \mathrm{N}=$ no
No. of perp: number of perpetrators involved in the conspiracy
In/out: $I=$ insider; $O=$ outside; $I / O=$ both
A question mark indicates uncertainty. For example, if there was a conspiracy, and one perpetrator was known to be an insider, but the status of the other was ot known, I/? was used.

Position (of perpetrator): The title of the highest ranking insider is listed.
If the exact position was unknown, employee was used. If the incident involved outsiders only, outsider was used unless his position in outside employment was known.
Description: A brief explanation of the nature of the crime, method of discovery, motive, and personal information, if known.

Trap door: A specifically designed clandestine program inserted into the original software or inserted later by a system penetrator. The program cuts off a legitimate user of a time sharing system and transfers his
access and data to the perpetrator. Upon falling through the trap door the legitimate user is usually led to believe the system has malfunctioned. Trojan horse: As with the trap door, a trojan horse is a specifically designed clandestinely inserted proyram. The program is written such that a user with certain specified characteristics will trigger a sequence of events (unbeknownst to the legitimate user) which allows the perpetrator complete control over the system.

The following abbreviations are used:
ATM: Automatic teller machine
EDP: Electronic data processing
DP: Data processing
A: age(s) of perpetrator(s), if known

| ID | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 581 | 20 | Sales/mfc | N | 1 | 1 | Employee | Overran sick leave; raised computer punch card check; employed 20 years |
| 591 | 277,607 | Finance | 3 | 1 | 1 | V.P. | Fictitious entries for cash receipts; punched cards on weekends, 1951-59; employed 10 years; $\$ 18,000$ annual salary; motive: gambling money |
| 621 | $?$ | Prof org | N | 1 | 1 | Empioyee | Erased tape by ranning magnet over reeled tape through flange openings |
| 622 | $?$ | Finance | N | 1 | 1 | Employee | Destroyed tapes of all GE dividend accounts with sharp instrument |
| 631 | 2,000,000 | ? | N | 1 | 1 | Comp operator | Overworked operator took unentered billings home and destroyed them |
| 632 | 81,120 | Finance | N | 1 | I | ELiP mgr. | Added phony names to punched cards for check production; cashed checks; employed 16 years; $\$ 16,000$ pluz bonuses annual salary |
| 641 | 7 | Educ | $?$ | $?$ | 7 | ? | Trojan horse program kept appearing; when used, cut user off |
| 642 | 2,500,000 | Sales/mfc | N | 1 | I | Progr ammer | Attempted to sell programs he worked with to Texaco for \$5 million |
| 643 | $?$ | $?$ | $\mathbf{Y}$ | 2 | 1 | Employee | Sold employee address list |
| 644 | ? | Pinance | $?$ | 7 | ? | ? | Opened account; put own deposit slips on counter; got others' deposits |
| 645 | ? | Finance | N | 1 | 0 | Depositer | Depositor replaced blank deposit slips with his own micro-coded forms |
| 651 | ? | $?$ | N | 1 | I | Expl yee | Program run each month to add one cent to each item (saies and cost of sales) until columns balanced; justification was, "You should hear those accountants scream if these don't balance." |
| 552 | ? | Trans/util | W | 1 | I | DP mgr | Credited employee tax withholdings to own payroll account by using a punch card and staying within control total ranges; caught when company changed to 1401 system which changed controls |
| 653 | 1,000 | Educ | N | 1 | 1 | Supervisor | Did not remove employees who had quit from payroll lists; continued to send in time reports; caught when his employer questionet his W -2 furm |
| 654 | $?$ | Sales/afc | Y | ? | 1 | Keypunch operator | Keypunch operators destroyed charge slips for own purchases |


| ID | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 655 | $?$ | Educ | Y | ? | ? | $?$ | Trapdoor call used to patch time-used figures; some getting use free |
| 656 | $?$ | Educ | N | 1 | I | Per sonnel | Terminal repalr log-in ID was being used by unauthorized person |
| 661 | $?$ | Educ | Y | $?$ | I | Student | Out of curiosity, students crashed system by creating a large number of temporary mode files until physical disk storage space was exhausted |
| 662 | 1,357 | Finance | N | 1 | 1 | Programmer | Altered progran to ignore overdrafts in checking account |
| 663 | 26,300 | Pinance | N | 1 | 1 | Employee | Bank employee transferred money from inactive accounts to own, 1961-66 |
| 671 | ? | ? | N | 1 | 1 | Comp operator | Dropped pieces of metal into IBM 2740s causing fire, shorts, downtime |
| 672 | 200 | Educ | Y | 2 | 1/0 | Employee | Employee caused system crashes to allow friend to login; identified by analysis of core dump |
| 673 | 10,000 | ? | $Y$ | 2 | 1/0 | Employee | Unauthorized use of services resulting in loss of $\$ 10,000$ |
| 681 | 203,000 | ? | $Y$ | 7 | 1 | Employee | Employees formed new firm, took documentation, and did work for old clients |
| 682 | 1,000,880 | Sales/mfe | N | 1 | 1 | Accountant | Embezzled for six years, using computer to perform financial analysis of company's true cost of operation and to budget amounts embezzled; suspect was in charge of accounting for company but also owned a computer service bureau that performed services for company; programmed algorithms such that given the bottom line figure of accounting data, the program would then generate all of the detailed data that would produce the required end results; wanted to confess so he arranged a deal with an attorney for a payoff if given a light sentence A: 38 |
| 683 | 1,000,000 | Comp serv | Y | ? | 0 | Gang | Gang used competer printout of credit card customers and 3000 stolen blank credit cards to make phony cards with real names and escount numbers |
| 684 | 500,000 | Finance | Y | 3 | I | Employee | Misappropriation of customer funds; alleged securities manipulation; clients vere told that fraudulent transactions appearing on their accounts were mistakes caused by company computer |


| ID | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 685 | 2,750,000 | Govt | Y | 30 | 1 | Bmployee | Using conputer, generated time sheet with fake names and addresses; turned them in so that computer printed youth corps paychecks, $\$ 2,750,000$ over nine months; iscovered checks in car |
| 686 | 7 | Trans/util | $\mathbf{Y}$ | 3 | 1/0 | Claims <br> clerk | Railroad claims clerk processed duplicate photocopled claims; undetected until input error caused a duplicate claim to be placed in surplus file where duplication was noticed |
| 687 | $?$ | Sales/mfc | N | 1 | I | DF consul tant | Changed holes in punched card to credit his oil company account |
| 688 | $?$ | Educ | Y | 2 | 1 | Student | Reprogramed student records tapes to provide themselves higher grades |
| 689 | $?$ | Educ | Y | 2 | 1 | Student | Found passwords in trashy ran up program charges; comprised all passwords |
| 691 | $?$ | Edue | $?$ | $?$ | ? | $?$ | IBM 360/40 central processor danaged by wire cutting and acid |
| 692 | $?$ | Educ | $Y$ | $?$ | I | Student | Students took control of conputer center to force demands on administration |
| 693 | 7 | Trans/util | N | 1 | 1 | Terminal oper ator | Broke CRT teaminal; wrecked luggage control system |
| 694 | $?$ | Ind | N | 1 | 1 | Programmer | Frogramed computer to weed out blacks from employee selection process |
| 695 | ? | Comp serv | 7 | $?$ | 1 | Progr ammer | Two time-sharing firms were supposed to share technology, cut when they did not to the extent agreed upon, they decided to penetrate each other's system to check on data; penetration started with discovery of priveleged commands by trial and error; error messages helped inform user that a comand was 2egitimate but did not have high enough privilege status to use it |
| 696 | 100 | Sales/mfc | N | 1 | 1 | Programmer | Altered program to print fictitious credit notes for cigarette coupons for self; collected credit notes and exchanged for goods; motiver to demonstrate company weakness; discovered by outside information; A: 38 . |
| 697 | $?$ | 7 | N | 1 | 1 | Employee | Computer accessed proprietary salary info on executives disseminated, no financial gain |
| 698 | 4,000 | Govt | $Y$ | 2 | 1/? | Operator | Payroll checks produced by computer for fictitious employee |


| 10 | Lons (3) | Type of Organization | Conspiracy | No. of Perp. | In/ouz | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 699 | 2,000 | Finance | N | 1 | 1 | mployee | Made unauthorized loan and false entries? extended $\$ 2000$ credit of revolving loan account |
| 6910 | 7 | Pinance | * | 1 | 1 | Bmployee | Inserted accounts payable punch cards into system to issue $\$ 9999.99$ monthly checks to a fictitious nursing home: signed to own firm; amounts stolen were fust below floor limits on audits; discovered accidentally |
| 6911 | 1,800 | Comp serv | N | 1 | I | Conp <br> operator | Sold personal medical record tapes for marketing use |
| 6912 | $?$ | Educ | Y | 2 | 1 | Student | Studenits accessed accounting file; suppressed charges and obtained priority |
| 701 | 100,000 | Sales/mfe | $y$ | 5 | 0 | Anti-war group | Beaver SS, antivar group, destroyed tapes and punch cards |
| 702 | 1,500,000 | Educ | 7 | 4 | I | student | Data center bambed; twenty years of data lost. |
| 703 | ? | stuc | ? | ? | ? | ? | University data center bombed amall damage to tape racks |
| 704 | $?$ | Educ | Y | 60 | I | Student | Students hold ABC computer for ransoe-incendiary devices defused; motive: to get bail money for jailed Black Panther |
| 705 | 1,000,000 | Educ | Y | ? | 1 | Student | CDC 3150 fire-bombed in student-led siot; A:18 |
| 706 | $?$ | Sales/mf C | N | 1 | 1 | Employee | Termin mployee destroyed on-1ine file in pharmac ...cal firmy had just been given two weeks notice |
| 707 | 7 | Govt | N | 1 | I | Aray officer | Diagruntled officer erased army purchasing data from magnetic tape |
| 708 | 3,000,000 | Coma/publ | Y | 3 | I | Conp <br> oper ator | Three million customer names list stolen during night shift and sold by operators |
| 709 | 2,500,000 | Coma/publ | $Y$ | 7 | 1 | Company | Magazine used computer to handle files on subscrihers; when subsriber notified magazine of change of address; computer was supposed to create a new record but instead wiped out service to subscriber due to $S D C$ program and/or operator ertor |
| 7010 | 7 | Comp serv | $Y$ | 2 | 1 | Baployee | Population tapes borrowed, copled and sold |
| 7011 | 21,500 | Comp serv | N | 1 | I | Bmployee | Took computerized address list from employer for use in own new firm |
| 7012 | 20,000 | ? | N | 1 | 1 | Comp <br> oper ator | Removed input documents and related cashy inserted cards into computice which printed false totals not equal to detail records; company violated basic rule of control: persons in data processing department. had access to cash and other departments |


| ID | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | Ingout | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7013 | 30,000 | Pinance | $Y$ | 2 | 1/? | Bank clerk | Bank clerk withheld checks deposited and forwarded for processing; gave checks to accomplice, who duplicated signatures and machine encoding; made out forged checks in same anount payable to account of accomplice and inserted in next day's processing so control total would balance. As checks cleared, accomplice withdrev funds |
| 7014 | 128,000 | Pinance | $\mathbf{Y}$ | 5 | 1/0 | V.P. comp system | Transferred money from infrequently used accounts to new accounts |
| 7015 | 50,000 | Govt | $Y$ | 11 | 1/0 | Bmployee | Used computer-generated terminated state welfare numbers, changed names to issue checks; discovered through questioning of payees and former payees |
| 7016 | 900,000 | Pinance | $Y$ | 5 | 1/0 | Bank V.P. | Entered checks as cash deposits, then drew on checks not covered |
| 7617 | 1,500 | Govt | N | 1 | I | Adjustment clerk | Through data prepared for a computer, transferred unclaimed tax credits from one taxpayer's account to another. Each time a credit was recorded, transferred it to another account until it ended up in a relative's account; detected when real claimant of tax credits turned up for his money |
| 1918 | 1,600 | Finance | N | 1 | 1 | DP supervisor | Night-shift supervisor of DP Input/Output Control function withdrew from savings account and destroyed withdrawal slips before keypunching; caught when missing withdrawals equaled deposits in his checking account |
| 7019 | $?$ | Govt | $\mathbf{Y}$ | 2 | 1/? | DP operator | Sold fuel, reduced inventory records without billing, made dumny vendor invoices. |
| 7020 | 200,000 | $?$ | N | 1 | 1 | Executive | Executive who was both a director on the board and a sales manager, made credits to ficititious companies with simultaneous debits for same amounts; put into computer payment authorizations for goods which he pretended had been supplied by fake sompanies; collected processed checks; A: 33 |
| 7021 | 29,000 | Finance | N | 1 | 1 | Progr anmer | Electronically transferred funds to account under alias |
| 7022 | 7 | Govt | ? | $?$ | $?$ | ? | Rate changes made on postal bank payment card |
| 7023 | 6,800,000 | Pinance | Y | 2 | 1/0 | V.P. | During a two year computer change over, V.P. and other entered credits in new computer system that were not in old one; caught erasing |
| 7024 | ? | Comp serv | N | 1 | 7 | $?$ | Selzed a long line leased to TS servicer used account numbers and passwords of TS employees to gain access and extract private data |


| ID | Loss (\$) | Type of Organization | Consplracy | No. of Perp. | Injout | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7025 | ? | Comp serv | $Y$ | 2 | 1/? | Engineer | By accident used comptime password allowing unlimited priviledged acess |
| 7026 | $?$ | $?$ | Y | 2 | 1 | Employee | Attempted to set up business based on unauthorized use of service |
| 7027 | $?$ | Educ | Y | 3 | 1 | Stadent | Students found a way of runising job without being charged |
| 7028 | $?$ | Comp sery | N | 1 | 1 | Eaployee | Used employer's computer ts a resource in personal consalting service |
| 711 | $?$ | $?$ | N | 1 | I | Employee | Laid-off employee removed labels on 1500 tapes |
| 712 | ? | Finance | Y | 3 | 1/7 | Comp technician | By telephoning a tape recording of the signals used by a central data collection computer to poll remote data stations, saboteurs prevented printout of processed data such as bill payments and loan requests |
| 713 | ? | $?$ | N | 1 | II | Programmer | Programmer changed employer's progran to destroy all records when terminated |
| 714 | $?$ | $?$ | $Y$ | $?$ | 0 | Extremist | Left-wing extremists vandalized computer center |
| 715 | $?$ | Sales/mfc | * | 1 | 1 | Employee | Angry employee destroyed all files and programs |
| 716 | $?$ | Educ | N | 1 | I | Student | Student tried to erase every volume of table of contents on disk packs |
| 717 | 6,000,000 | Comp serv | N | 1 | I | Employee | Computer program stolen over phone circult terminal at Univ. computing; discovered when conputer began spewing cards inexplicably; A:29 |
| 718 | $?$ | Trans/util | $\mathbf{Y}$ | 4 | I | Chief fin officer | Theft of rolling stock by manipulating inventory input |
| 719 | $?$ | Comp serv | N | 1 | 1 | Comp <br> programer | Obtained safeguarded pasuwords fron time-shared computer through termina:. |
| 7110 | 30,000 | $?$ | N | 1 | 1 | Programmer | Contract programmer held programs for extortion |
| 7111 | ? | Conp serv | Y | $?$ | I | Company | Software firm took safeguarded contract software and sold to other firm |
| 7112 | 22,000 | Govt | Y | $?$ | 1 | Company | Used registered voter list for commercial purposes: to address junk mail to voters |
| 7113 | $?$ | Comp serv | $\boldsymbol{Y}$ | 3 | I | Progr ammer | Software taken from old employer and sold to new amployer |


| ID | Loss (\$) | Type of Organization | Conspirac. | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7114 | ? | Govt | s | 1 | 1 | Policeman | Tapped computer to get info for private use; pulled the dossier of a financier and passed to lawyer brother-in-law, who was considering txing on the firancier as a client |
| 7115 | $?$ | $?$ | Y | 2 | 1/0 | Programer | Info stolen from payroll system and sold to insurance compary agent |
| 7116 | $?$ | Sales/mfe | N | 1 | 1 | Technician | Removed POP-8 one pisce at a time from plant and assembled at hone |
| 7117 | $?$ | Comp serv | $\boldsymbol{Y}$ | 2 | 1 | Employee | Extracted and sold data; after being fired, tried to get others to do same thing |
| 7118 | 7 | 7 | N | 1 | 1 | Comp operator | Destroyed header input cards punched to watch for his unauthorized long distance phone calls |
| 7119 | ? | Sales/mfc | N | 2 | I | Engineer | Agent copled safeguarded data on 3000 w. German firms; gave to East Germany |
| . 20 | 5,000 | Comp serv | Y | 6 | 1/0 | Owner of 3DP service | 650,000 addresses copies without authorization; 86,500 business letters with copied addresses printed for a mail order company by EDP service |
| 7121 | 5,000,000 | Finance | Y | 2 | 1/? | Designer of software pkg | Designer of software package took programs froe old employer to new |
| 7122 | 10,150 | Pinance | N | 1 | I | Systems analyst | Misapplication of funds by former systems analyst |
| 7123 | ? | $?$ | N | 1 | 1 | Employee | Acerued round-down to own salary |
| 7124 | 7 | 7 | $Y$ | ? | 1 | Clerk | Govt. clerks diverted conputerized family allowances for children when death notices were received |
| 7125 | ? | Medical | N | 1 | I | Claime mgr | Manager of claims in a government sponsored medical aid program put in false doctor clains and directed payments to fictitious doctor's office |
| 7126 | 120,000 | Sales/mfc | $\mathbf{Y}$ | 2 | 1/0 | Accounts <br> clerk | False account and invoices entered from store for food not delivered over three year period |
| 7127 | 6,000 | Sales/mfc | N | 1 | 1 | Bookkeeper | Bookkeeper embezzled $\$ 6000$ through computer system |
| 7128 | 123,000 | Sales/mfc | s | 2 | I | Employee | Employee changed punch card input to change salaries; - adequate data control; surprise audit discovered itctitious salaries |
| 7129 | $?$ | Sales/mfc | s | 1 | 1 | Employee | Altered deceased employee's data to have pension paid to own account |


| ID |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| ID | Loses (\$) | Type of Organization | Conspizacy | No. of Perp. | Invout | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7143 | 720 | $?$ | N | 1 | 1 | Wages <br> clerk | Comsitted fraud using computer because it was a horrible impersonal machine"; falsified computer accounts |
| 7144 | ? | Sales/mfc | $Y$ | $?$ | I | Baployee | Bmployees studied internal computer system; information to be used for private gain |
| 721 | 500,000 | Prof/org | s | 1 | 1 | Keypunch operator | Inserted metal object to cause short circuit in disk file drive 56 times in two yearsy $\$ 500,000$ spent on tracking down problem; closed circuit TV system was installed to monitor activity and catch perpetrator; motive: overpowering urge to shut down computer |
| 722 | $?$ | Sales/mfc | N | 1 | 1 | Messenger | Messenger carried computer tapes between two companies; erased data using magnet |
| 723 | 8,000 | Educ | $\mathbf{Y}$ | 2 | 1/7 | Conp oper ator | Malicious mischief case of crashing 'ie systemy through unauthorized inguiries into the system, obtained safeguarded systems info which allowed crash program to be developed and stop operation of system |
| 724 | 10,000,000 | Pinance | N | 1 | 1 | $\begin{aligned} & \text { Tape } \\ & \text { librarian } \end{aligned}$ | Tape librarian to be fired replaced all tapes in vault with blank tapes |
| 725 | 50,000 | $?$ | A | 1 | I | Employee | Shut down computer three times in week to embarass supervisor; investigation of breakdown led to culprit's identity; motive: disliked new boss |
| 726 | ? | $?$ | N | 1 | I | Student | Student destroyed course files, left messages unill caught |
| 727 | $?$ | $?$ | $?$ | $?$ | $?$ | $?$ | Acid dumped on longline phone wires into computer causang downtimes, etc |
| 728 | $?$ | Educ | N | 1 | 1 | Student | Student allegedly had inserted trap door into system |
| 729 | 589,500 | Finance | $?$ | 7 | ? | $?$ | Damage to memory stacks by pointed instrument |
| 7210 | ? | Medical | N | 1 | $?$ | ? | Unauthorized order entered for patient of doctor opposed to computer syster; breech of security made possible by an innocent physician who failed to press sign-off key |
| 7211 | ? | $?$ | N | 1 | I | Conp oper ator | Computer operator sabotaged computer system; detected by closed circuit T.V. |
| 7212 | ? | ? | N | 1 | 1 | Former employee | Destroyed minor amount of documentation and data identification |
| 7213 | ? | Trans/util | $?$ | $?$ | $?$ | ? | Gained access to control room, shut off power to airport computer center |


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7214 | $?$ | Comen/publ | N | 1 | 0 | Outsider | By posing as a journalist, operator of telecommunications supply firm was given manuals and demonstrations which aided him in ripping off Pacific Telephone; used phone for en $t$, to computer system of I iT to place large orders with company's central supply division; picked up equipment sent to company docking areas; sold to large companies and individuals |
| 7215 | ? | Ind | 7 | ? | I | Company | Computer system automatically renewed cancelled insurance policy; insurance company said it was not liable for accident, but judge disagreed |
| 7216 | 21,600 | Ind | $?$ | $?$ | 1 | Company | Policy owner had an accident; insurance company refused to pay; said they had cancelled policy, but customer had received computer-generated renewal notice; cancellation notices were never transmitted to computer files; judge said they had to pay |
| 7217 | ? | Govt | Y | 5 | I | DP operator | Operators destroyed traffic tickets issued to their and other's cars; uncovered when meter maid became suspicious |
| 7218 | $?$ | Govt | Y | 2 | 1 | Adrin assist | 100 punch cards for unregistered voters entered into registration list, perpetrator needed the cooperation of someone in another department to gain access, but that person was not identified; two witnesses overheard telephone conversation; A:44 employed 13 years |
| 7219 | $?$ | Edue | N | 1 | I | StuJent | Student copied 5000 passwords from system file, using text editor |
| 7220 | $?$ | Comp serv | N | 1 | I | Exemployee | Obtained credit reports using ID number of legitimate subscriber |
| 7221 | 7 | Comp serv | N | 1 | 1 | Employee | Employee tried to change credit data about himself by submitting forms; discovered whei. n observant keypunch operator noticed perpetrator name and wondered why an employee was submitting forms for changing his own record |
| 7222 | $?$ | Comp serv | Y | $?$ | I | Programmer | Programmers and others took software and sold to marketer |
| 7223 | $?$ | Sales/mfc | Y | 2 | I | Programmer | Two programers scheduled to be laid off took program listings of secret processes to be patented |
| 7224 | 80,000 | Sales/mfc | N | 1 | 1 | Programmer | Got safeguarded info one record at a time; was trapped selling output list to agent |
| 7225 | $?$ | Govt | N | 1 | I | Comp specialist | Tax record checking logic sold to persons to guide deduction claims |


| ID | Loss (\$) | Type of Orqanization | Conspiracy | No. of Perp. | Ingout | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7226 | $?$ | $?$ | N | 1 | 1 | Employee | Data vulnerable to in-house access. Personnel salaries were printed out |
| 7227 | 2,485 | $?$ | N | 1 | I | Exemployee | Former employee stole a progran and sold it; discovered when perpetrator returned to company to ask for an updated copy of the progran |
| 7228 | ? | Educ | N | 1 | 0 | Outsider | Phony professor visited and raided U.S. computer centers; obtained info and programs; started a software mall-ordcr house; discovered when one company found that he was selling copies of their top secret computer programs |
| 7229 | 215 | Comm/publ | N | 1 | ? | $?$ | Extra hole punched in phone bill to get 1000 kr benefit |
| 7230 | 215 | Comm/publ | N | 1 | ? | $?$ | Punched extra hole in phone bill to get 1000 kr benefit |
| 7231 | 3,500 | Trans/util | $?$ | $?$ | $?$ | $?$ | A magnetic ink character recognition (micr) imprinter was used to imprint correct micr code on 14 phony checks; in manual handling, clerk noticed different color of phony checks |
| 7232 | 40,000 | Govt | N | 1 | 1 | Employee | Put own address on pay records for former employees for four months; received checks; discovered when computer rejected misspelled name of a former employee |
| 7233 | 61,800 | Medical | $\mathbf{Y}$ | 2 | 1 | A in | Accounts receivable insurance checks diverted and marked uncollectable; administrator and manager depos'sed payments from insurance company in dummy accounts |
| 7234 | 290,000 | Govt | N | 1 | I | Keypunch operator | Keypunch error set property tax rate base $\$ 7,000,950$ too high, revenue lost; discovered when an erroneous tax bill was received |
| 7235 | $?$ | Finance | N | 1 | 0 | Outsider | When reader failed to read a check, the center punched a substitute document and got into system through a card entry run to keep system running smoothly, a custoner had issued a payroll check from his payroll account; someone photompied it. put in different namos and cashed checks, which we.. ent to bank; since micr strip did not photocopy, computer rajected it and put substitute in; detected when customer became curious about checks charged to him |
| 7236 | $?$ | $?$ | N | 1 | I | Controller | Controller embezzled by setting up dumny vendor in accounts payable; uncovered in process of computerization of manual systese |

Type of

| ID | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | Invout | Position | Descrirtion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7237 | 8,300 | Pinance | $Y$ | 6 | 1/0 | Secretary | Defaced micr codes on own checks after crediting payee, destroyed checks |
| 7238 | $?$ | Govt | N | 1 | I | Binployee | Welfare employee input extra cards to produce unauthorized grants |
| 7239 | 1,150,000 | Finance | N | 1 | I | Mgr | Assistant office manager sold firm's stock holdings, kept receipts; erased computer tapes; suspicions aroused with the appearance of inconsistencies in firm's records |
| 7240 | 2,500 | Finance | N | 1 | I | Employer | Withheld items fran data bank he prepared for submission to data processing; made false entries to reconcile |
| 7241 | 1,000,000 | Govt | N | 1 | 0 | Pharmacist | False medical prescription claims for deceased persons processed; discovered when soneone wondered why claims were being filed for two dead people |
| 7242 | 600,000 | Finance | Y | 2 | 0 | Gangster | Used bank codes to send telex or cable to get money from Korean bank; bank executive gave out secret code to gangsters but was never brought to trial; rumors that he was with CIA |
| 7243 | $?$ | Sales/mfc | $Y$ | $?$ | I | Operator | Drug company EDP employees asked pay raise or would mishandle invoices; employees got raise were later replaced |
| 7244 | 28,000 | Govt | N | 1 | 1 | Consultant | In course of legal work, consultant took care of keys to various offices and had access to systems, forms, info, etc.; filled out and cashed phony grant 10Us from data in computer file |
| 7245 | 28,800 | Trans/util | N | 1 | 1 | Employee | Entered cards for phony damage claims against ships; sent sums to dumny acounts; discovered by chance when coded a shipping rate incorrect |
| 7246 | 164,000 | $?$ | N | 1 | I | Accounts <br> receivable <br> clerk | Falsified invoice info and then transferred funds into his own account |
| 7247 | 2,800 | Govt | Y | 3 | I | DP mgr | Employees sold 250 hours computer time to loan industry without detection for two months; industry was unaware of illegality of actions |
| 7248 | 840 | Educ | N | 1 | 1 | Conputer center director | Director of computer center at a college obtained outside DP job and ran programs associated with it on college's sigma 5 without paying school |


| IL | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7249 | ? | Comp serv | N | 1 | 0 | Student | High school student found password in waste basket, used time and got data; discovered when a computer operator noticed a requested file that was unusual for the particular account number; further monitoring revealed a practice of calling and reading (fishing expeditions) ; Purpose: to play games |
| 7250 | 7 | bduc | $Y$ | 5 | I | Student | Students replaced business output data with antigovernment slogans |
| 7251 | 100,000 | Govt | $Y$ | $?$ | 1 | Employee | Defrauded telephone system; rewired an exchange for own use; modified equipment to allow free access to outgoing trunk lines; discovered by post office investigation division; perpetrators were mostly P.O. employees in their 20 s with university degrees; 5 year scheme |
| 7252 | $?$ | Educ | N | 1 | I | Student | By assigning console to reader, student took siver the rest of the system from remote job entry |
| 7253 | $?$ | ? | Y | 2 | 1/0 | Operator | Operator performed computer services for others while working |
| 7254 | $?$ | Comp serv | Y | 2 | 1/0 | Salesman | Sold free computer time cheap to customer for kickback; uncovered by a financial executive analyzing computer use |
| 7255 | 70 | ? | Y | 2 | 0 | Student | Students from nearby university misused control console and got in main CPU for loss to company, stale time by getting their remote terminal identified as the cintrol console of the TS service |
| 7256 | $?$ | ? | N | 1 | 0 | Outsider | Unknown person used, 3ssword to get on Univac 1108; played games; computer center later changed password procedure, adopting a voice validation procedure |
| 7257 | $?$ | Govt | N | 1 | I | Politictan | Requisitioned mailing list printout for use in political re-election campaign |
| 731 | $?$ | Educ | N | 1 | I | Student | Semi-privileged user put a trojan horse progran in library for file maintenance waited until operator executed program in privileged mode, got into soft catalog and found top executive; altered top executive to start another priviledged job; erased trail; discovered by system programmers when a orash occurred |
| 732 | ? | Sales/mfc | Y | $?$ | I | Employee | Employees returned from strike and sabotaged on-line inventory and order system |


| ID | Loss (\$) | Type of Organization | Conspiracy | No, of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 733 | ? | Sales/mf | N | 1 | 1 | Employee | Disgruntled employee threw disk packs from 5th floor <br> window data lost |
| 734 | 3,000 | $?$ | N | 1 | 0 | Software vendor | Software program designad to fail at certain times and need revisions; problem revealed after extensive manufacturer tests and threats of legal action to be taken against supplier |
| 735 | $?$ | Educ | $\boldsymbol{Y}$ | 3 | I | Student | Students found their account had gained privileged status tr run restricted programs; bug was fixed after sevaral pranks were played |
| 736 | $?$ | Educ | N | 1 | 7 | ? | Someone entered a program which copied itself and filled space |
| 737 | 500 | $?$ | N | 1 | 1 | Employee | Interconnect cables cut |
| 738 | 7 | Sales/mfc | N | 1 | I | Programmer | Out of revenge, write routine into sophisticated program and screwed up program for months |
| 739 | 70,000 | Govt | Y | 2 | 0 | Outsider | Br 'be offered for theft of driver address tape usially sold by bureau; operator did not take bribe but contacted officials, who notified police |
| 7310 | 1,000,000 | Ind | $Y$ |  | 0 | Thieves | Burglary suspects had output listing of affluent supermarket owners; unknown how they got list or who compiled it; A: $26,29,37,63$ |
| 7311 | ? | Govt | $?$ | , | $?$ | $?$ | Hidden transmitters in CPU at a security agency, capable of transmitting to outside truck with electronic receiving equipment |
| 7312 | $?$ | Comm/publ | N | 1 | I | Operator | Deciphered telephone company codes and gave management unlisted phone numbers from protected files to show how poor data security was |
| 7313 | $?$ | Educ | Y | 2 | I | Operator | Student employee took files, cards, tapes, used computer without authorization; had operator accomplice |
| 7314 | 8,000 | Educ | Y | ? | 0 | Thieves | Thieves cut wires and removed a computer communications adapter in on-1ine system |
| 7315 | 70,000 | Comp serv | $\mathbf{Y}$ | 1 | 0 | Operator | Girlfriend switched programs on innocent boyfriend computer operator when he was not looking and tried to sell to service bureau customer; A:19 |
| 7316 | $?$ | Govt | $\mathbf{Y}$ | $?$ | 1/0 | Employee | Government forms stolen; falsified requisition forms processed by computer and submitted; shipments made and diverted before arriving at delivery place over a several year span |


| 12 | Lass (\$) | Type of Organization | Cons) racy | No, of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2317 | $?$ | Sales/mfc | 7 | $?$ | $?$ | ? | Micro file of plans of PGI controller and TBM and GE disk drives missing |
| 7318 | 200,000 | $?$ | N | 1 |  | Bx-comp oper ator | Broke in and took 22 reels of custcmer and marketing data, held for ranson; ranson paid |
| 319 | 100,000 | $?$ | N | 1 | I | Manager | False physical counts of inventory entered into computer records; internal security firm was called in to investigate shortages one departwent head was responsible for test counting inventory items, feeding data into computer, and running spot counts during day; failed to record counts for later processing into conputer |
| 1330 | $?$ | Tisance | $\mathbf{Y}$ | ? | 1 | Company | Sale of computer progran to general partner firm without disclosing; violation uncovered in routine sEC audit |
| 7321 | 5,000 | Prof/org | $\mathbf{Y}$ | 3 | 1/0 | DP mgr | Sold list of discharged secvicemen to insurance men for possible clients |
| 7322 | $?$ | Govt | N | 1 | 1 | County assessor | Took fee for sale of bunty computer program to other government ar program was from a computerized prope: Appraisal system A:55 |
| 7323 | 24,500 | Sales/mfc | \% | 1 | ? | ? | Stole conputer circuit diagran |
| 7324 | $?$ | Govt | ? | 7 | ? | $?$ | Code for nuclear reaction simulation transmitted to USSR via Sweden |
| 7325 | 1,500,000 | Finance | N | 1 | 1 | Teller | Manipulated hundreds of accounts through teller terminal; caught by hookie bet |
| 7326 | 200,000,000 | Finance | Y | 22 | 1/0 | Company | Bquity funding created 64,000 fake policies and sold them to reinsurers |
| 7327 | 4,000 | Finance | Y | 2 | 1/0 | Programer | Programmed transfer of $\$ 100$ from 41 sequential accounts to wife's account; officials became suspicious when patrons complained about unauthorized withdrawals from their accounts |
| 7328 | 33,000 | Finance | Y | 2 | 1/0 | Clerk | Made checks to former shareholders but sent to a friend; erased records |
| 7329 | 300,000 | Sales/mfe | N | 1 | I | Operations mgr | With help of computer, issued forged corporation drafts and cashed; programed computer to advise master computer that so much money should be credited to a particular account; caught when perpetrator vent on vacation before one forged check had returned and was seen defore perpetrator could destroy original A: 46 |

Type of

| ID | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7330 | 8,000 | -inance | Y | 2 | 1 | Employee | Created 10 phony savings accounts using branch terminal; 908 passbook ioans vere entered against each of the phony accounts; instructions for noncollection of loans vas entered, each loan taken out against dumny savings accounts was withdrawn and converted to cashy amount used to open savings accounts was also withdrawn |
| 7331 | $?$ | Sale $/$ /mf | Y | 2 | 1 | Programmer | Modified program for men's clothing store to put invoices into aging status and suppress statement printing; purchased clothing without paying |
| 7332 | 40,000 | Educ | ? | ? | 1 | ? | Payroll system manipulated to keep terminated teachers' records active to process payroll checks |
| 7333 | $?$ | Govt | N | 1 | 1 | Employee | Sold salary raises to other employees: altered records in night runs |
| 7334 | 15,000 | 6. | N | 1 | I | Coo dinator | Collected time cards of terminated employees and issued computerized pay warrants |
| 7335 | 2,000,000 | Pinal , | Y | 2 | 1/0 | Operator | Boyfriend tricked operator into wiring money from western bank to NY bank account by getting her to type numbers into the console; absconded with $\$ 2.5$ miliion; bank did not have an adequate system of message verification or a properly discriminating personnel security control |
| 7336 | 1,500,000 | Pinance | $Y$ | 36 | 0 | Fraud ring | Coded 450 phony auto registrations; reported cars stolen; got insurance |
| 7337 | 150 | Pinance | N | 1 | 1 | DP messenger | DP messenger made withdrawals of $\$ 150$ from passbook accounts belonging to others |
| 7338 | 1,800 | $?$ | $\mathbf{Y}$ | 3 | 1/0 | Claims processor | Claims processors and outsiders submitted fraudulent claims for services; detection through accidental means; required intense policy investigation to prove; although relatively little involved with knowledge of computer prograns, still a computer abuse because the volume of claims required automated systems less amenable to close supervision of personnel |
| 7339 | $?$ | 7 | N | 1 | 1 | Conty <br> operator | Computer operator made program change to collect $\$ .10$ from each employee's check |
| 7340 | $?$ | Finance | ? | ? | I | Employse | $\$ 200$ insurance premium payments recorded as $\$ 100$, and $\$ 100$ embezzled |


| ID | Loes ( $\$$ ) | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7341 | - 0,000 | Pinance | N | 1 | 1 | Branch mgr | Bank branch manager fuggled accounts using computer input |
| 7342 | 25,000 | Trans/util | $Y$ | 2 | 1/0 | Customer rep | Outside person went to Con Ed customers and entered into agreement with with thom in which, instead of paying monthly bills to Con Ed, customers gave representative half the face amount of the bill in cash each month; insider, by forging punch cards, affected credit on those acounts so it would appear the bill had been paid |
| 7343 | 800,000 | Finance | $\mathbf{Y}$ | ? | 0 | Thieves | Tapped wires, broke code, and diverted interbank transfer to Bahamas |
| 7344 | 5,800 | $?$ | N | 1 | 1 | Employee | Tampered with punched card to lower record debt to employer |
| 7345 | $?$ | Gevt | N | 1 | ? | 7 | Updated autonobile registration with false information |
| 7346 | ? | Educ | N | 1 | ? | ? | Theft of accourt password and use of computer services |
| 7347 | $?$ | Edvz | N | 1 | I | Student | Student was given an account number and limited conputer time; wrote a bandit progran that masqueraded as the computer syscem to get others' secret account numbers; frogram would simulate a system malfunction and would sign off; victim would think he had been subjected to a system crash and would start over; his account number would be known by perpetrator, and his account would be rapidly depleted |
| 7348 | 1,850 | Comp serv | N | 1 | I | Student | Student was given a demonstration user name when in a school computer program; later installed tome terminal; called in by phone to activate school computer with proper codes; extracted info to play |
| 7349 | 2,000 | $?$ | $\boldsymbol{Y}$ | 3 | 0 | Outsider | Third party sold computer services which were unauthorized |
| 7350 | 500 | $?$ | N | 1 | 1 | Comp <br> analyst | Analyst sold computer time at low rate when supposed to be testing; uncovered by accident when president asked manager how he could sell time so cheaply? manager knew nothing about it and investigated |
| 741 | $?$ | ? | $?$ | ? | $?$ | 7 | Damage to memory stalks by pointed instrument |
| 742 | $?$ | Educ | Y | 3 | 1 | Student | Students disrupted computer services by crashing system; methods of crashing unknown |
| 743 | 2,000,000 | Comp secv | $\mathbf{Y}$ | 4 | 1/O | President | Gasoline poured on equipment and ignited, destroying IBM 360/40 |


| ID | Loss | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Descrip-inn |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 744 | $?$ | Finance | N | 1 | 1 | Comp operator | Operator shot computer with handgun out of frustration |
| 745 | $?$ | Finance | N | 1 | ? | ? | Screwdriver attack on core |
| 746 | 10,000 | Gevt | 7 | ? | ? | ? | During computer installation, wires and cables cut on three occasions |
| 747 | ? | Govt | Y | 4 | I | President | Criminal records sold to detective agency, sold info on job applicants |
| 748 | $?$ | Educ | $Y$ | 5 | I | Student | Five students printed list of all accounts in system with password |
| 749 | $?$ | Educ | Y | 5 | 1 | Employee | Computer user and account information taken but not used |
| 7410 | $?$ | ? | $Y$ | ? | 1/7 | Printer operator | Printer operator paid to stop program and make duplicates of crucial reports needed for information leak |
| 7411 | 20,000 | Sales/mfc | $\mathbf{Y}$ | 3 | I | Comp <br> operator | While working alone on nightshifts, erased and substituted invoice numbers on accounts receivable progran to reflect a credit of sale for stolen merchandise; manipulated computer to juggle the record of stock |
| 7412 | $?$ | $?$ | N | 1 | I | Ex-programer | Fired employee returned for flow chart he had been working on, but janitor caught him in the act |
| 7413 | $?$ | Conep serv | $Y$ | $?$ | 1/0 | Investment counselor | Used computer center to list clients with certain savings, who would be willing to transfer to certificates; received payment from clients |
| 7414 | $?$ | Comp serv | N | 1 | 1 | Employee | Mailing house employee offered customer list on magnetic tape for sale to competitor; caught when competitor pretended to accept offer |
| 7415 | $?$ | Comp serv | N | 1 | 1 | Student | Student used school terminal to crack security of a major TS nervice; found there was no read protection on any location in the core; wrote dump program, printed out operating system, and from that listing. along with tips from programmers at the service and an obsolete system manual, worked out entire system; printed out the account name and line number of every terminal logged on to the system, located buffers, and wrote a program to eavesdrop on whatever was being typed on a terminal by printing out contents of buffers; got privileged access but did not do much with it |


| ID | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7416 | ? | Finance | N | 2 | 1/0 | Comp operator | Salesman, helped by computer operator, changed input data to make che unc alified qualified; sold insurance to unqualified for kickback |
| 7417 | $?$ | Govt | N | 1 | 0 | Ex-convict | Received stolen cars from other countries; made new records using government computer; caught when no paper for cars were found |
| 7418 | 85,000 | Trans/util | Y | 4 | 1/0 | Computer clerk | When a driver came in with a collection slip for inventory pick-up, computer clerk would give him a document to return before exiting. System was breached when clerk entered a driver's false collection slip in the computer, thereby allowing release of driver |
| 7419 | $?$ | $?$ | N | 1 | 1 | Executive | Secretary saw executive call up on display and read safeguarded information stored in firm's computer; suspected of using inside info to guide speculations in comnodity markets and causing financial injury to employer; since it was secretary's word against his, no action was taken |
| 7420 | 8,578 | $?$ | N | 1 | 1 | Janitor | Monthly pay increase entered in eryror as hourly increase; discovered when an accountent noticed perpetrator was doing exceptionally well for a janitor, bettter than the boss; investigation began; worker refused to repay; A: 36 |
| 7421 | 125,000 | Sales/mfc | $\mathbf{Y}$ | $?$ | 1 | Employee | Collusion in an order entry system, fraudulent clothing orders and nonshipments of clothing products; caught by auditors |
| 7422 | $?$ | Ind | N | 1 | I | Programmer | Unwarranted refund computed and sent to customer repeatealy; due to error computer was not programed to clear an account when a refund was made; customer finally cashed refund check and sent in a personal check; next month he received a check for double the amount of the refund; this continued until the amount became so large that the insurance company finally noticed the error |
| 7423 | $?$ | Finance | N | 1 | 0 | Ridnapper | Kidnap ranson was deposited on-line and withdrawn by cashcard |
| 7424 | 22,000 | Finance | N | 1 | 1 | Supervisor | Put false vouchers through collection company computer, which then issued perpetrator's false insurance refund checks; discovered by a clerk who noticed a very large refund check being mailed |


| ID | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | In/oul | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7425 | 10,000 | Govt | N | 1 | 1 | Employee | When monitoring duties were added to inpui responsibilities, perpetrator initiated multiple unemployment checks and deleted them froun disk records; discovered in audit |
| 7426 | 5,300 | Finance | N | 1 | 1 | V.p. | V.P. of EDP changed savings program to ignore withdrawals from his account; made fictitious deposits to own account and withdrew from another branch |
| 7427 | 200,000 | Govt | Y | 5 | 1/0 | Cashier | For five years, added names to printout of DMV applicants; got and sold driver licenses |
| 7428 | 55,000 | Sales/mfc | Y | 7 | 1/0 | Employee | Phony operation used store's central department computer center to steal and forge credit cards; charged merchandise to woounts of customers? A:19,24,30 and others |
| 7429 | 8,000 | Comp serv | N | 1 | 1 | Employee | Stole 2 million ;en from automatic cash dispensers using counte: ceit cards; A:32 |
| 7430 | ? | Ind | Y | 2 | 1 | Company | U.S. dollars bought and sold between banks for francs; computer systems were rigged to print out confirmations of foreign exchange deals but not to - कcord such transactions on the banks' books. To onceal losses from forward curcency transactions, manipulated transactions were carried out at rates that did not conform to the market; A:53,47 |
| 7431 | 992,000 | Govt | Y | $?$ | 0 | Outsiders | Check kiting scheme involved misprogramning the city computer to issue checks to fictitious corporate accounts; funds were then laundered by passing them through various banks; plot broken by help of informer involved in laundering |
| 7432 | $?$ | Finance | N | 1 | 1 | DP mgr | EDP chief altered checks so they were not machine readable and had to be done manually by himy he then made new check amounts and diverted money |
| 7433 | 150,000 | Finance | N | 1 | 1 | Employee | Sank employee built a command into an EDP program which deducted $\$ 1$ from every tax credit over a certain amount and paid it into his account; bank clien*s assumed $\$ 1$ deduction was for services; discce ted when auditors noticed large number of transactions in one account |
| 7434 | 100,000 | Sales/m'c | N | 1 | 1 | Account ant | Used computer to pad payroll until IRS audited his personal returns |


| ID | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7435 | 160,000 | Finance | N | 1 | 1 | Computer <br> liaison <br> officer | Computer liaison officer entered bogus tansactions into record bank and manipulated accounts through innocent computer staff; drew checks for amounts less than ceiling requiring authorizatiov, $u=$ :ng facsimile signature of ranking machine. At eni of minth, he reconciled conputer-generated accounts |
| 7436 | 2,569 | Comp serv | - | 1 | 1 | Keypunch operator | Hired to keypunch and verify) punched own account n.isber into five others' deposits, when attempted to withdraw money, teller called security personnel, who called FBI |
| 7437 | $?$ | Govt | $Y$ | 5 | 1 | Employee | Payroll office employees altered files and fed phony data into computer for unearned overtime and vacation payz method of capture not disclosed for fear of tipping off potential initators |
| 7438 | 73,525 | Govt | Y | 4 | 1/0 | Terminal operator | Caseworker completed forms authorizing transactions for emergency assistance; transactions were fed into terminal and 173 unauthorized checks were printed and mailed to phony recipients in six months; discovered by auditor when a new quality control system was implemented |
| 7439 | $?$ | Govt | Y | 2 | 1/0 | Employee | Official at agency changed input data to give vife unamployment benefits; discovered when checks were produced at wrong pay cycle |
| 7440 | 600,000 | Finance | N | 1 | $?$ | Engineer | Set up fictitious companies and used then to obtain loans and to pump false info into data banks; 1970-74 |
| 7441 | 1,000.000 | 7 | Y | ? | 0 | Gang | Phony credit school specializing in credit procedures planted gang members in businesses, fed false info into data banks to which employers subscribed; using and selling credit, ring's operations drained up to $\$ 1$ million from banks and finance companies; caught wt en an undercover agent arranged for the purchase of credit credentials |
| 7442 | ? | Sales/mfC | Y | 2 | 1 | Bmployee | Deducted $\$ 0.02$ extra weekly from each employee's withholding tax and credited self; caught when an employee noticed that deductions did not add up |
| 7443 | 1,320 | Pinance | ? | $?$ | $?$ | ? | Account short by ATM activities, card stolen; PIN in misaddress file; by blocking the account one of the ATMs captured the card |
| 7444 | ? | Pinance | $\mathbf{Y}$ | 2 | 1/0 | Employee | Attempted to cash spurious check but failed when insider did not alter controls as planned |


| ID | Loss (5) | $\begin{gathered} \text { Type of } \\ \text { Organization } \end{gathered}$ | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7445 | 182,500 | Pinance | * | 1 | I | Mgr | Set up fake firms and tricked other employees into issuing credit notes and checks to them; shredded credit documents and replaced with new letters of remittance to the loan institution's bank so that the entire amount was credited to her own account; this went on for forr years because the bank did not send a confirmation or every transfer bo payer |
| 7446 | 164,250 | Pinanc. | N | 1 | 1 | Mgr | Owner of a firm tricked loan institution it paying out an amount in excess of firm's economic capacity; perpetrator manipulated EDP input to pay $\sigma, c$ a sum in excess of the amount of installment cont act; firm went bankr upt |
| i447 | 67,300 | ? | N | 1 | 1 | Employee | Counterfeit punch card enabl_. perpetrator to deposit incorrect amounts in his account |
| 7448 | 67,000 | ? | N | 1 | 1 | Employee | Obtained 86 false paychecks for himself from emplejer's computer |
| 7449 | 66,000 | Govt | y | 3 | 1/0 | clerk | Put unauthorized punch card payment vouchers for child allowances into computer; forged signatures of officials who should have made authorizations: punch card supervisor did not recognize forgeries and sent cards to EDP center, which authorized the transfer of amounts to fictitious persons |
| 7450 | 5,000 | Trars/util | N | 1 | I | Clerk | Clerk added overtime for other employees by name but with own ID number; payroll system idertified employees by ID number, but input data, such as hours worked, by name: got false overtime: caught by audstor who noticed excessive overtime pay |
| 7451 | ? | Govt | * | 1 | 1 | Employee | Bmployee of a network planning team put DMV system into irrecoverable crash to discredit state's use of IBM system 370/158 for educational time-sharing and to demonstrate fallibility of IBM's OS/MVI operating system |
| 7452 | ? | ? | N | 1 | 1 | Employee | User sigred on with another user's password and stole disk space |
| 7453 | $?$ | Govt | n | 1 | 1 | Data service director | County computer and staff used for private business? jobs contracted for as consultant |
| 7454 | ? | Educ | N | 1 | 7 | ? | Picked phons lock; used terminal to access outside TS system |
| 7455 | 2,800 | ? | Y | 16 | I | Engineer | Sixteen engineers tampered with machine to print computer plans on copier; used computer about 204 of available time for lucrative purposes |


| ID | Loss ( 5 ) | $\begin{gathered} \text { Type of } \\ \text { Organization } \end{gathered}$ | Conspiracy | No. of Perp. | Invout | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7456 | ? | ? | * | 1 | 1 | Comp <br> oper ator | Computer operator established own service bureau business by writing programs for salary (payroll) instruction, testing and running them in company computer; discovered when he forgot printouts in computer room |
| 7457 | * | Ind | * | 1 | 1 | Staff member | Nanes and data on employees away at school extracted from computer files and supplied to a political party for their campaign; use was authorized by an official who was also a member of the political party |
| 751 | ? | ? | ? | ? | ? | ? | Intentionally erased magnetic tape by passing it through strong magnetic field; accused of sabotage, but since tape itself was not damaged court ruled no offense comitted |
| 752 | 15,000 | $?$ | Y | ? | 0 | Radical <br> organiza- <br> tion | Time bombs caused 600 million yen damage to company's computer facilities |
| 753 | 100,000 | Comp serv | y | ? | I | company | Conspiracy to destroy business; wiretapping; burned plant, two competitive computer firms traded charges of sonspiracies and criminal activities |
| 754 | 110,000 | Sales/mfc | Y | 12 | 1 | Employee | Tvelve employees belonging to a Russian spy ring disclosed secrets about Western electronic data processing techniques to an East European secret service; caught taking components, manuals, tapes and circuit photos of computers |
| 755 | ? | Sales/mfe | Y | 13 | 1/0 | Comp oper ator | Manipulated computers and tank garges to hide diversion of oil to other companies; barge only recorded $1 / 2$ of oil being placed in tank for delivery to other fuel companies; employees involved were a computer console operator, oil barge captain, and owners of independent oil firms who received the stolen property; A: 61,51,29,10 6 others |
| 756 | ? | $?$ | ? | ? | ? | ? | Competitors of a rental agency were underbid by small amounts; suspected password leak to compronise rental agency files; confirmations to home owners a possible leak then passwords were changed, close underbidding was elikinated |
| 757 | ? | $?$ | N | 1 | I | Employee | Stole mag-tape: used to address labels for union organizing activities; unauthorized access to files traced to stolen tape that 11 people had access to |


| ID | Lose (\$) | Type of Orgazization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 758 | 7 | Comp serv | N | 1 | I | Clerk | Borrowed safeguarded county birth record tapes had private computer service bureau prepare for updating; wanted information put on a CRT terminal in his office because clerk was tired of old-fashioned method of referring to computer printout |
| 759 | 200,000 | Sales/mfc | $Y$ | 12 | 1/0 | Employee | Inventory data in computer maripulated; furniture noted as misplaced; all 12 employees had access to books showing location of each piece of furniture in warehouse |
| 7510 | $?$ | Govt | N | 1 | 1 | Systems analyst | Wrote program to get safeguarded data, birth dates, employment records for trustee election racer caught by another employee suspicious of ris actions; A:44; employed seven years; $\$ 21,000$ annual salary |
| 7511 | $?$ | Govt | N | 1 | I | Director | Took six magnetic tapes to update files of Chicago Title \& Trust Co., a nonclient; fired for unauthorized programning; employed seven years \$21,000 annual salary |
| 7512 | $?$ | $?$ | ? | $?$ | $?$ | $?$ | Took printout of Wallace supporters, cash, letterhends, volunteers' names; entry to campaign headquarters had to be made with a key; no suspects |
| 7513 | $?$ | Educ | N | 1 | I | Student | Student turned on paper tape at terminal and in eight hours got all tape and passwords |
| 7514 | 1,000,000 | Sales/mfc | N | 1 | 1 | Ex-employee | Former employee stole program |
| 7515 | $?$ | Govt | N | 1 | 1 | Ex-employee | Mid-level executive worked at OSI from $1 / 75$ to $6 / 75$; stole a copy of a computer program, used phone lines to defraud OSI, and tried to become a consultant to PEA on computer security; OSI did computer work for FEA, and perpetrator tapped into computer that contained proprietary FEA files |
| 7516 | 12,000,000 | Comp serv | Y | ? | 1 | Company | BASS ticket outlet alledgedly got copy of proprietary software from third party |
| 7517 | 7 | Govt | N | 11 | 1 | $\begin{aligned} & \text { DA } \\ & \text { inspector } \end{aligned}$ | Used special computer link to get DMV info for friend |
| 7518 | 56,000 | Pinance | N | 1 | 0 | Outsider | Posed as handyman in DP center and instructed computer to issue him checks; discovered three months after he left; unknown who hired hisi as a handyman |
| 7519 | 1,000,000 | $?$ | N | 1 | I | Executive employee | Inserted data for false suppliers and truckers; paid himself; $\$ 25,000$ annual salary; had received several plaques over the years from company auditors for excellent ounditions of his records |


| ID | Lass (\$) | $\begin{aligned} & \text { Type of } \\ & \text { Organization } \end{aligned}$ | Conspiracy | No. of Perp. | Inyout | Pasition | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7520 | 20,000 | Ind | N | 1 | 1 | Canp oper ator | Conputer operator took cash receipts, renoved input documents; custoners complained about accounts not being credited but ver pacified for several months by offering apologies for computer trouble |
| 7521 | $?$ | ? | N | 1 | I | Conp oper ator | Operator prepared a duplicate time card for a shipping department employee; checks were signed mechanically and totzied to prove that amount dispersed agreed with total on payroll register after removing computer-generated duplicate paycheck, operator forged employee's signature and cashed check by second endorsement |
| 7522 | ? | Comp serv | $\boldsymbol{Y}$ | 3 | 7/0 | Gang | Credit card ring aitered credit ratings via oredit verification computers; higher credit ratings allowed purchase of much merchandise; A:33, 30, 19 |
| 7523 | ? | Govt | Y | $?$ | 1/0 | Employee | Fed false info into corputer to issue $A D C$ checks to friends |
| 7524 | $?$ | Pinance | $\Psi$ | 9 | 1 | Company | Phony conputer run used to cover reused collateral operations; insurance company accused of fraud by SEC |
| 7525 | 126,000 | Finance | $y$ | ${ }^{2}$ | \% | Ex-cashier | Fcrmer ten year employee cashier quit to start a disco when he got upset over pranotion pt A, scts; cost hisk more than expected so went to bank and persupded a former colleague to let him take some documents to computer entry port; inserted forged debit slips; would have succeeded if bank had not changed its methods while he was gone |
| 7526 | 799 | Finance | N | 1 | 1 | Telle: | Teller withdrew fron an account and altered tape to hide; surprise audit found shortage: $\mathrm{A}: 21$; employed four months |
| 7527 | 190,500 | Sales/mfe | $s$ | 1 | 1 | Payroll <br> supervisor | Inflated payroll totals to make blank checks; printed checks and forged signatures; A:35; employed 18 years |
| 7528 | 7 | Gove | N | 1 | I | F-erk | Clerk changed time charges held in computer for consultant services |
| 7529 | 56,000 | Finance | $Y$ | 4 | 1/0 | EP employee | Employee in automatic data processing section of bank fixed program to reduce checks to elght stockholders; issued check to fictitious person for total and mailed to outside cohorts, who deposited checks and irew money, discoversd when another bank enployee became suspictinv of itaroe deposite asd $\approx$ thdrawals |


| ID | Loss (\$) | Type of Organization | Conspiracy | No, of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7530 | 15,062 | Finance | $Y$ | 2 | 1/0 | Mgr | Altered DP system to credit totals of customer service charges to his own account instead of income account; no auditing procedure for checking service uccount or income account; uniknown callet phoned bank about theft; auditors traced back deposit slips to find offset |
| 7531 | 910 | Pinance | N | 1 | I | Operator | Perpetrator's job was to resubmit mutilated checks by placing them in an envelope encoded with the account number of the check; she had two checking accounts and would write a check on one and deposit it in the other; then mutilate the check so computer would reject it and return it to be placed in an envelope; she would then resubmit it with regular checks. By causing her checks to be rajected several times, she was able to keep her checks from clearing |
| 7532 | 1,800 | Finance | N | 1 | 1 | Progr ammer | Cashed checks on own account; entered delete card in computer to remove check before it was charged to account. Discovered by observant teller |
| 7533 | 200,000 | Finance | Y | 2 | 1/0 | Systems officer | Fixed DP system to debit general ledger account and credit accomplice's accounts at other branches; discovered during routine audit when an unsupported debit was found in the general ledger; eight deposit slips totaling the same anount were found; $\$ 14,000-$ \$17,999 annual salary; motive: gambling debts |
| 7534 | 4,000 | Finance | N | 1 | I | $\begin{aligned} & \mathrm{DP} \\ & \mathrm{mgr} \end{aligned}$ | Entered dumny deposit into own savings account through a testing terminal; fixed computer to divert withdrawals against savings to another account; made withdrawals and deposited into checking; next morning returned computer program to original state; $\$ 14,000-$ $\$ 17,999$ annual salary; motive: living beyond means |
| 7535 | 21,000 | Finance | N | 1 | I | DP staff | Designed way to inflate an account by a computer entry; opened a chec)ing account at bank under different name and wrote checks against account, during routine audit, bank found checking account and deposits made into it by means of a computer entry without documentation |
| 7536 | 7,257 | Finance | N | 1 | 1 | Control <br> clerk | Deposited checks into own account from another account crossed out ABA numbers so computer would reject checks; when checks returned for balancing, substituted stolen checks for own check; first account was then never debited yet other account was credited for amount of deposit; discovered in normal audit of examining proof differences |


| ID | Loss (5) | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7537 | 27,967 | Finance | N | 1 | 1 | Accounts receivable <br> clerk | Cleck made up new punch cards and sent to check printer; created and used bugus checks in place of those of customer with same name; caught when forged authorization would not verify |
| 7538 | 65,000 | Finance | n | 1 | 1 | v.p. | Channeled funds from various intertal and customer accounts arto own account, routine audit found unexplained credits in personal checking account; concealed for six years; A: 40 ; enployed 14 years |
| 7539 | 7 | Finance | * | 1 | I | DP <br> supervisor | Introduced a minus at beginning of tr al balance to conceal withdrawals without putting books out of balancer minuses did not appear on printouts, fallow employee noticed suspicious actions which led to discovery |
| 7540 | 90,000 | Finance | N | 1 | 1 | Comp <br> oper ator | Took account balance card to keypunch and raised balance; when statements came out, changed balance of statements by changing card; unaware that a computer printed out all numbered passbook transactions: caught when routine audit found nothing corresponding with a $\$ 1000$ deposit to account |
| 7541 | 1,000 | Finance | N | 1 | 1 | Teller | Made fraudulent deposit to own account from another account; entered transactions into machine; then got key from lax supervisor to remove total from machine but not computer; tore off tape and threw away brought in passbook next day to update |
| 7542 | 75,000 | Govt | N | 1 | 1 | Keypunch operator | Produced 86 false payroll vouchers payable through Swedish postal system; wrote false punch tape, disengaged computer memory, sent listings of vouchers to be expected to post office; post office needed more than four months to uncover; A: 25 |
| 7543 | ? | Finance | Y | ? | 0 | Outsider | Con men made off with proceeds of numerous loans on basis of bogus TRW reports; only checking done by bank was by calling numbers given by applicants for place of work; all numbers located in one fictitious location |
| 7544 | $?$ | Comp serv | Y | 7 | 1/0 | Clerk | Six men paid a clerk to alter computerized credit records of poor-risk client:s by deleting bad info and/or adding good; normal duty was to verify that necessary changes in a given credit record were made; tip-off to FB: came from one who had been approached and offered a clean credit slate for $\$ 600$ |
| 7545 | $?$ | Comp serv | Y | ? | 1/0 | Terminal operator | Operator falsified data for gang, doctoring credit reports for poor risks |


| ID | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7546 | 2,817 | Finance | s | 1 | 1 | Mgr | Embezzled money, concealed by ocliputer entriles; A:37; motive: travel expenses |
| 7547 | 100,000 | Pinance | Y | 23 | 1/0 | Claims examiner | For four years, claims examincr filled out forms with real policy numbers, false claims, and a code directing the claim check to be mailed to claimants instead of doctors; claim forms passed to keypunch operator who chncked it persons were insured by Blue Cross, which they werer machine and program only checked for errors, not fraud; plan was wrecked when a person involved in scheme filled out his own form erroneously and claim was rejected; claim went to quality control supervisor, who called doctor and learned operation was never done; audit traced crime to examiner; $\mathrm{A}: 26$; employed six years; 12 were arraigned: At $26,27,22,51,22,26,23,51,36,35,23$ |
| 7548 | 2,500,000 | Trans/util | 7 | ? | $?$ | ? | Fraud in water account billing; $\$ 2.5$ million missiag; possible kickback for employees not billing large water accounts; possible leaky pipe |
| 7549 | 380,000 | ? | N | 1 | 1 | Progr ammer | Programmer sliceû oft, not rounded, fractional shares and put into own account |
| 7550 | $?$ | Ind | N | 1 | I | Credit <br> clerk | Made bogus credit slips and put customers payments to own account |
| 7551 | 1,250 | Finance | $Y$ | 2 | 0 | ? | Daily ATM withdrawals fron account; two cardholders said cards stolen |
| 7552 | 418,000 | Finance | Y | 3 | 1/0 | V.P. | Falsification of bank records and check kiting to cover up account deficiencies |
| 7553 | 64,000 | Govt | Y | 3 | 1/0 | Social worker | Fictitious payment cards fed into computer; authorized payment to fraudulent bank accounts on basis of punch card infor money was paid into 18 to 20 accounts at several banks from $5 / 74$ to $9 / 75$; caught when an auditor picked a fake punch card that had no corresponding file |
| 7554 | 146,300 | Finance | N | 1 | 0 | Housepainter | Withdrew maximum from many ATMs, driving full speed, using shortcuts; had liquidated all assets; still on the loose |
| 7555 | 17,600 | Govt | Y | 2 | 1/0 | State official | Used social security system for six monthe to obtain benefits for registered fictiti us children; computer got suspicious when number grew to 12 |

ID Loss (\$)

Type of
$7556 \quad 2,050$ Organization Conspiracy No, of Perp. $\qquad$ In/out Position
 Description
Pinance $N$ I 1 Treasurer
deposits by manipulating computer for two months; output showed rebate to customer for overpayment on a loan but it was not reflected in the general ledger nor was customer issued a check. Resulting discrepancy was used to cover stolen deposits; suspect did not realize output copies went to auditor: A:50 to auditor: A:50

For eight years, inserted fabricated account in memory banks of computer, directing union benefit checks to be mailed to a relative; spot audit checks to be mailed to a relative; spot audit dropped. A second audit again revealed account so computer memory was dumped; it was found that all computer memory was dumped; it was found that all checks were made to one person instead of a hospita A: $38,37,37, .39$

Consultant bribed an operator to manipulate computer so normal safeguards were overridden: issued 447 duplicate medical billings doctors were apparently unaware that they were being paid more than once for services performed; profit for consultant came when he collected fees which were based on a percentage of state payments to doctors

Supervisor inserted improper vendor code, diverting checks to sister

Input own name in employer's computer as receiver of payments

Made counterfeit postal account payment cards; applied a false stamp for debiting in bookkeeping department; sums from a fictitious sender and fictitious account number were then credited to own

Computer time stolen by use of passwords found on discarded cards; operators noticed stranger submitting weekend runs; caught; confessed; repaid stolen time

Police chief may have altered own driving record through network terminal; discoversd during routine inspection of printouts whici included changes made, date and time

Firm rented computer time to customers connected through a phone hookup; perpetrator used others passwords, charged time to their accounts, produced tapes for tool machine . discovered when customers complained about high bills; A:42

| ID | Lass (\$) | Type of Organization | Conspiracy | to. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 761 | 100,000 | Educ | N | 1 | 1 | Progr atm - | Programmer pulled computer wires; disgruntled over being laid off; A:34 |
| 762 | 7 | Govt | $?$ | ? | 7 | $?$ | Printout of safeguar info on soundness of national banks stolen: employer.1 suspected because only a few people had knowledge of info stored in a locked file cabinet |
| 763 | $?$ | Pinance | $\boldsymbol{Y}$ | 2 | 0 | Electronics specialist | Alleged conspiracy to compromise bank's on-line system for TV news show; electronics specialist charged CBS with asking him to break the accounting system of a bank electronically |
| 764 | 7 | Govt | N | 1 | 1 | Mgr | Manager of computer center sold personal info to outsiders not authorized to use it |
| 765 | $?$ | Govt | N | 1 | 1 | Supply <br> clerk | Used terminal to locate items to steal; programmed system to prepare fraudulent requisitioning documents; obtained and sold items |
| 766 | 3 | ? | N | 1 | I | Progr ammer | Fired employee went to clean out desk and wrote program that destroyed accounts receivable six months later; company published ads pleading with customers to pay debts, but company went bankrupt |
| 767 | ? | Govt | N | 1 | 0 | Soviet diplamat | Diplomat tried to secruit enployees of a computer manufacturing firm with access to Pentagon computers |
| 768 | 1,500 | Govt | N | 1 | I | Comp oper ator | Made own tape of tax assessment info and sold it; director discovered unauthorized computer time and called in investigators; A:33; employed five years |
| 769 | ? | Ind | Y | ? | I | Comp $n$ y | Illegally tapped computer banks of credit bureaus; telephoned credit bureaus, claiming a subscription to their service; obtained codes; used info to harass debtors |
| 7610 | ? | ? | Y | ? | $\bigcirc$ | Company | Fifty-six insurance companies employed informants to gain access to FBI and IRS computerized oriminal history files and get info on policy holders; posed as doctors nurses; made simple phone calls |
| 7611 | ? | Educ | Y | 12 | I | Student | Employees upgraded their own and friends' transcripts through computer |
| 7612 | 40,000,000 | Ind | Y | 17 | 1 | President | Used computer to inflate inventories and revenue to mislead stock buyers |
| 7613 | ? | Camp serv | $\mathbf{Y}$ | 2 | 1/0 | Clerk | Through an inside clerk, salesman improved persons' credit ratings in bureau files for a fee |


| ID | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7614 | 10,000 | Sales/mfc | Y | 2 | 1/0 | Ex-proтrapmer | A former store programmer returned and ran sales slips with computer codes filled in through the register and then cancelled; took slips to customer service department to get refund and had refunds sent to cohort; discovered when an employee overheard a refund request and mentioned it to the salesman who supposedly sold the merchandise; $\mathrm{A}: 26,25$ |
| 7615 | 5,800 | Educ | N | 1 | 1 | Stugent | Fifteen computer parts taken singly, possibly to build system to tap main computer |
| 7616 | $?$ | $?$ | N | 1 | 1 | Employee | Illegally copied computer tape |
| 7617 | 7 | Finance | N | 1 | I | Teller | From $1 / 73$ to $12 / 75$, altered asta so that overdrafts of friends would not appear; for compensation received a new roof, two necklaces, and beer; A:45; employed 30 years |
| 7618 | 8,200 | Finance | $?$ | $?$ | ? | ? | Unauthorized withdrawals by daily ATM use; account holder never received card |
| 7619 | 400 | Finance | $?$ | ? | $?$ | $?$ | Unauthorized withdrawal following removal of hold on ATM account |
| 7620 | 1,000 | Finance | $?$ | ? | ? | ? | Unauthorized withdrawal; ATM cards and PIN still at institution; card use stopped on the same day machines were instructed to capture so fraudulent card was never recovered |
| 7621 | 30,000 | Finance | Y | 6 | 1/0 | Bank clerk | Clerk had access to computer which showed dormant accounts. enabling withdrawal of $\$ 30,000$; five accomplices made withdrawals under surveillance by bank security cameras |
| 7622 | 9,585 | Finance | N | 1 | 1 | Comp operator | Operator put deposits in own account instead of correct account through computer; a spot check discovered the missing funds |
| 7623 | 90,000 | Finance | Y | 33 | $\because$ - | Employee | Two employees processed bogus claims through computer terminal; 31 others charged with receiving and negotiating bogus claim checks; A:31,34 |
| 7624 | $?$ | Govt | Y | ? | 1/0 | Comp operator | Rigged computers to approve fraudulent duplicate medicaid bills and kick out vouchers for payment of bills |
| 7625 | 1.176 | Sales/mfc | 5 | 1 | I | Payroll <br> clerk | For two months, entered wrong info in computer to steal from employer; A:24 |


| ID | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7626 | 17,000 | Sales/mfc | N | 1 | 1 | Ex-super- <br> visor | Cleck programed fictitious data to issue vendor checks; fed into computer; checks were retrieved before being sent to vendors and placed for deposit only in own account, clerk was a former bank employee and knew the people she dealt with facilitating the scheme; motive: in debt; A:46 |
| 7627 | 14,000 | Finance | $N$ | 1 | 1 | Ex computer operator | Between 5/74 and 3/76, made false entries in bank records in bank computers |
| 7628 | 150,000 | Finance | N | 1 | 0 | Outsider | Due to apparent clerical error, savings account was given the same number as that of a corporation; account holder withdrew funds and took to Oregon; A:36 |
| 7629 | $?$ | Finance | N | 1 | ? | $?$ | Cash card stolen from home; later PIN stolen, used for withdrawals |
| 7630 | 21,240 | Govt | N | 1 | 1 | Wage officer | When doctors claimed expenses, wage officer put figure on payroll computer; doctors would be paid salaries and expenses rogether at end of month; rules allowed expenses to be paid direct to doctors immediately so perpetrator would pay doctors by computer and then have a hand-issued check for the same amount made out, which she paid into her own account, caught when a doctor called the department personally to get expenses paid immediately and found a check already issued; a checkup revealed a claim also in the computer; A:32; two year scheme |
| 7631 | ? | Govt | N | 1 | 1 | Wage officer | When terminated doctors left, computer was progranmed not to issue further salary checks, but details were not erased. After a short time, perpetrator would re-employ them on the computer and intercept salary checks which she would endorse fraudulently and pay into her own account; A:32 |
| 7632 | 950 | Pinance | N | 1 | 1 | Computer operator | Used position as program maker in a computer system to produce counterfeit cash cards with the computer; cashed |
| 7633 | 14,269 | Govt | Y | 4 | 1/0 | Computer operator | Conputer operator created food stamp accounts for bogus identities; caught $\mathrm{b}_{2}$ entering funny names such as "King Kong Baby"; two cohorts; A:23,22,31 |
| 7634 | 608,000 | Comp serv | N | 1 | 1 | President | For four years added hours to employee records and added fic:itious employees; took pay; discovered by auditors; A:55 |
| 7635 | 109,000 | Finance | N | 1 | 7 | ? | Got accounts in false names; withdrew money with false identification |


| ID | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7636 | 13,430 | ? | N | 1 | 1 | Bmployee | From 1971-76 falsified punch cards, got unjustified loans and compensation |
| 7637 | 5,100 | ? | N | 1 | 1 | Employee | Falsified punch cards |
| 7638 | 1,347 | Pinance | N | 1 | I | Employee | Used falsified punch cards to transfer funds from bank's account to own |
| 7639 | 218,000 | Finance | N | 1 | ? | ? | Withdrew from false accounts, falsified automatic banking cards and used |
| 7640 | 70,000 | Govt | N | 1 | 0 | Prisoner | Prison inmate used prison computer shop to penetrate the IRS system through the commercial TS network employed by the prison and the tax agency; filed eight fraudulent $\mathbf{w - 2}$ forms and returns for tax refunds |
| 7641 | $?$ | Comp serv | Y | $?$ | 0 | Student | Used minicomputer from father to get passwords and access unilink service |
| 771 | 7 | Educ | Y | 8 | 1 | Computer operator | Employees shut off air conditioning and power in labor dispute over rotation assignments |
| 772 | $?$ | Finance | N | 1 | 0 | Outsider | Man fed up with computers; smashed window of bank; fed nonsense into terminal; police came when he tripped alarm; A:35 |
| 773 | 15,000 | Sales/mfc | N | 1 | 1 | Employee | Terminated employee destroyed key file that cost $\$ 15,000$ to generate |
| 774 | ? | Govt | Y | 3 | I | Keypuncher | ```Keypunchers disgruntled over pay raise deleted arrest records of }75\mathrm{ people; discovered when terminals were wired to detect tampering``` |
| 775 | 100,000 | Sales/mfc | $\mathbf{Y}$ | ? | 0 | Looters | During blackout, looters destroyed Wang mini-computer and financial data |
| 776 | 2,100,000 | Finance | Y | 5 | I | Employee | Altered computer and bookkeeping systems to conceal brokerage firm's failure to obtain p'ysical possession of stocks for customers |
| 777 | $?$ | Sales/mfc | Y | 2 | 1 | Supervisor | When fired, stole 500 financial tapes and disks which contained all the future financial plans of IOC in Europe; security guards, accustomed to strange working hours helped load the tapes in car; held for ransom; called ex-boss and demanded $\$ 400,000 ; A: 25$ |
| 778 | 17,000,000 | Govt | Y | $?$ | I | $?$ | Gang used army logistics system to order, move and store computerized inventory items at convenient locations |

## Type of

| ID | Type of |
| :--- | :--- | :--- | :--- |
| Organization |  |


| ID | Loss (\$) | $\begin{gathered} \text { Type of } \\ \text { Organization } \end{gathered}$ | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7715 | 312,000 | Sales/mfe | Y | 4 | 1 | Executive | Three of four partners in a wholesaling firm operated a carpet outlet store on the side; they know the details of the order flow procedure and the only input that would generate an invoice ticket was a delivery ticket; they placed orders with the firm for carpeting and by-passed normal delivery process by picking up the material in a rented van at the will-call desk to conceal the actual destination from personne1. An employee, an ex-convict, destroyed the fake delivery tickets because of threats to expose his past; uncovered when firm manager found an undestroyed delivery ticket for which there was no documentation |
| 77: | ? | Educ | N | 1 | 1 | Student | Worked part-time in the registrar's computer area and got unearned Phi Beta Kappa status by changing his and others' grades |
| 7717 | 200,000 | Comp serv | Y | $?$ | 1/0 | Employee | Upgraded computerized credit ratings for 30 people |
| 7718 | ? | Ind | Y | 2 | 1/0 | Police chief | Police chief sold safeguarded criminal histories stored on the state's computerized crime data network |
| 7719 | -18,000 | Finance | Y | 4 | 1/0 | Teller | Used computer terminal to locate inactive savings accounts and transferred money to fictitious accounts; used money to cover debts at a social club with three friends, who made the withdrawals and split the money; discovered when a customer complained; A: $26,30,27,29$ |
| 7720 | 23,000 | Sales/mfc | N | 1 | 1 | Payroll <br> clerk | Created fictitious employee and time records and cashed payroll checks |
| 7720 | 25,000 | Pinance | N | 1 | 1 | v.p. | Over 14 months, manipulated internal clearance account, transferred funds to other accounts - his personal checking, his mother's, and a school account for which he was treasurer; concealed by false entries on records; A:44; $\$ 40,000$ annual salary; employed 22 years; motive: gambling debts |
| 7722 | ? | Finance | ? | ? | 1/7 | Employee | Computer records altered to conceal increasing company deficit |
| 7723 | 24,187 | Pinance | N | 1 | 1 | Employee | Made false entries on bank records |
| 7724 | 6,000 | Pinance | Y | 11 | 1 | Employee | Manipulated computer to allow withdrawals from cuscomer accounts; A:22 plus ten others, ages unknown |
| 7725 | 109,000 | Govt | N | 1 | I | Payroll supervisor | Set up duany accounts and overcharged schools for salaries; took money |


| ID | Loss (3) | $\begin{gathered} \text { Type of } \\ \text { Organization } \end{gathered}$ | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7726 | 450,000 | Pinance | N | 1 | 1 | v.p. | Responsible for conversion to new system; diverted money from accounts |
| 7727 | 2,750,000 | Govt | N | 1 | 1 | Enployee | Programed fake employee names in payroll; checks were printed; losses totalled $\$ 2.75$ million in nine months |
| 7728 | ? | Comp serv | Y | ? | I | Employee | Employees went into the customer info file (CIF) at night, transferred quarterly savings accounts to their own CIF numbers and then back after having made from $\$ 10,000$ to $\$ 12,000$ through ATMs over a weekend |
| 7729 | ? | Govt | Y | 3 | 1/0 | Comp operator | Operator produced checks on unemployment account and had others cash them |
| 7730 | $?$ | Govt | N | 1 | 0 | Outsider | Collected interest while waiting to get computer error corrected; interest collected bought him a car and a pool; A:36 |
| 7731 | $?$ | Ind | Y | 3 | I | Company | Wrote off and took as income customer s, unclaimed credit balances |
| 7732 | 64,000 | ? | N | 1 | I | Clerk | For one year, fed phony payroll into EDP; entered names on payroll list of those on vacation, sick or no longer with the company, collected extra cash wages from voucher for self; co-workers noticed discrepancies in wage statements, and a colleague found empty payroll envelopes with names on them in a wastebasket in the suspect's office |
| 7733 | 91,000 | Finance | N | 1 | 1 | Employee | Over 3.5 years, set up 35 false payroll accounts at bank where employed; put cash in accounts by granting fake persons a payroli account loan; when he cashed a check on his personal account, and it was checked by the bookkeeping department, he replaced it with a check drawn on an imaginary account, signed and stamped by him |
| 7734 | 1,000,000 | Ind | Y | 7 | I | Manager | For five years, programmers keyed a row of switches on computer panel that would boost the number of trifecta winners at dog tracks; phony tickets were printed for extra winners created by computer; cashed more winning tickets than sold |
| 7735 | ? | Prof/org | Y | 2 | 1 | Longshoreman | Had someone else fraudulently insert his longshoreman badge into computerized system at hiring center to check him in as being available for fill-in work; improperly $\quad=-\quad$ benefits while working on docks elsewhere; A:3? |


| 15 | Loss (5) | $\begin{gathered} \text { Type of } \\ \text { Organization } \end{gathered}$ | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7736 | 17,000 | Govt | Y | 4 | 1/0 | Accountant | Accountant stole and forged cancelled city employee payroll checks; finance department official became aware of missing checks when a store manager brought one in; three accomplices; A: $26,31,23,22$; employed three years; $\$ 1,222 /$ monthly salary |
| 7737 | 1,000 | Govt | ? | ? | ? |  | IBM machines gave $\$ 5$ ticket when 25 c ticket was inserted; problem surfaced when youngster offered a TV reporter a $\$ 5$ ticket for $\$ 3$ |
| 7738 | 4,885 | Finance | Y | 2 | - | Outs: der | Made phony ATM deposits; withdrew, and mailed to cardholder accomplice |
| 7739 | 500,000 | Sales/xfc | Y | ? | 1/? | Employee | Input false payment info into DP system for two years; underbilled for plastic bags sold to another company; probably used flagging code that would falsely prompt the CPU to indicate certain amounts receivable as paid |
| 7740 | 171,756 | Pinance | Y | 2 | 1/0 | $\begin{aligned} & \text { Margin } \\ & \text { clerk } \end{aligned}$ | For two years, changed stock purchase records to allow loans; wrote and cashed checks |
| 7741 | ? | F'nance | Y | 7 | 1/7 | Programmer | Phony account, bogus sales, checks produced, 211 computer records erased; caught when ore person involved informed FBI |
| 7742 | 40, 000 | ? | Y | 5 | I/O | Employee | Computer-relayed tace results allowed bets in Tijuana befcre official result; one person radiced in winning horses to another, who phoned info to a computeroperated message service. Messages were then relayed to a man near the betting window; an employee inside set the track clock back $1.5-2$ minutes, lengthening the bet-taking deadline; A: $22,22,44,30,40$ |
| 7743 | 60,000 | Finance | N | 1 | 0 | $\begin{aligned} & \text { Camera } \\ & \text { dealer } \end{aligned}$ | Registered the latest of his photo-suppiy companies as a Visa credit card merchant; obtained a list of credit card holders and numbers and forged names on sales slips for fake purchases; deposited them in bank and had them transferred to a Swiss bank account; when he requested a seco.id transfer, the bank refued and called in postal inspectors who discovered scheme through signatures; A:33 |
| 7744 | 11,000 | Finance | N | 1 | 1 | Employee | Falsified bank receipts |
| 7745 | ? | Govt | ? | ? | ? | ? | Rate changes made on payment card |
| 7746 | 75,000 | Finance | Y | 2 | - | Outsider | Withdrew from $\$ 1,000,000$ which bank recorded in error for $\$ 1,000$ |


| ID | Loss (\$) | Type of Organization | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7747 | 55,000 | Govt | $\mathrm{Y}$ | $2$ | 1/0 | County <br> buyer | Entered invoices for payment to fictitious vendors; deposited checks and withdrew; discovered when officials in county auditor's office found false invoices; A:38,27 |
| 7748 | 60,000 | Finance | Y | 5 | 1/0 | Employee | From late 1976 to mid 1977, processed fraudulent Blue Cross claims; mailed checks to fictional names; $A: 35,27,42,49,28$ |
| 7749 | 1,000 | Pinance | N | 1 | 0 | Outsider | Customer inserted plastic bank card and code to activate ATM; stranger asserted it was broken so customer walks away, leaving machine hot for several seconds; stranger pushed in withdrawal amounts |
| 7750 | 3,000 | Finance | N | 1 | 0 | Maid | For three months, maid intercepted ATM and code in mail and used before owner realized |
| 7751 | 1,200 | Finance | $?$ | ? | ? | ? | Withdrew $\$ 1,200$ from ATM; card owner denies card was used |
| 7752 | 32,200 | Finance | $Y$ | 5 | 1/0 | Keypunch supervisor | Two Blue Cross employees processed $18-20$ phony claims fnr selves and others; three nonemployees received part of insurance money in exchange for use of their names and card numbers; later destroyed checks; A: 26,30 |
| 7753 | 39,000,000 | Ind | $Y$ | 6 | 1 | Official | Used program to freeze liabilities, raise value of auto insurance stock |
| 7754 | 78,000 | Fir ance | N | 1 | 1 | $\begin{aligned} & \text { Ex-DP } \\ & \text { operator } \end{aligned}$ | Entered phony deposit record by phone; withdrew by check; employed two months; A:29 |
| 7755 | 144,000 | Sales/mfc | Y | 2 | 1 | Mgr | Used employer's computers without authorization to operate private business of arranging sheet music for publishers; A:41,44; employed from 1972 to 1977 |
| 7756 | ? | Sales/mfc | N | 1 | 1 | Programmer | Inserted trapdoors in developing UNIX for PDP-11 for Bell labs; motive: prank and challenge |
| 7757 | $?$ | Govt | N | 1 | 1 | Student | For two to three weeks, wiped out programs and inserted obscene ones |
| 7758 | 10,000 | Govt | Y | 2 | $\pi$ | Maintenance engineer | For two months, subcontractor employees used time for Own business; also stole equipment; A:28,30 |
| 7759 | $?$ | Sales/mfc | $\mathbf{Y}$ | ? | 1 | Company | Disclosed safeguarded beer price info on software demu to competitor |
| 7760 | ? | Educ | Y | 3 | 1 | Student | Gave themselves unauthorized privileged access via phone lines and reserved memory in campus computer |


| ID | Loss (\$) | Organiz on | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 781 | $?$ | Scles/mfc | N | 1 | I | Employee | Fanployee left, taking programs on cape |
| 782 | $?$ | Educ | Y | 2 | 1 | Student | Attempted to alter student records in computer; A: 18,20 |
| 783 | 200,000 | Educ | ? | ? | ? | 7 | One thousand printed circuit and sther control boards removed from IBM 360/40 |
| 784 | 30,000 | Finance | N | 1 | 0 | Outsider | Withdrew from deposit made by bank's error in giving two accounts the same number; subject vanished; A:26 |
| 785 | 89,000 | Govt | N | 1 | 1 | Programmer | Contract programner issued checks using name of former city treasurer; A:40 |
| 786 | 23,000 | Govt | Y | 3 | 1/0 | Computer operator supervisor | Created false info and transmitted it to a computer, bypassing normal authorization proceduces; info reactivated terminated cases, sending payment checks to persons specified rather than former recipients; perpetrator cashed checks; investigation was initiated when other offices received computergenerated documents which were issued whenever the status of a case was changed and these did not match any of their own cases |
| 787 | ? | Cump serv | N | 1 | $\bigcirc$ | Outsider | Computer credit card mail fraud |
| 788 | 1,350 | Ind | $?$ | 7 | $?$ | $?$ | Withdrawal from ATM using stolen ATM card |
| 789 | 108,314 | Govt | N | 1 | 1 | Employee | Issued and cashed 72 checks to former employees caught when an employee received a $W$-2 forim showing more than she received and complained |
| 7810 | 104,000 | Finance | N | 1 | 1 | Ex-controller | Impersonated the company's corporate treasurer to order fedwire transfer to western bank; bank detected odd info in the notice of the impending transaction and called the company to verify |
| 7811 | 100,000 | Finance | N | 1 | $\bigcirc$ | Coin dealer | Keypunch error deposited $\$ 100,000$, withdrew; spent $\$ 26,000$ before capture; error discovered during routine audit; A:55 |
| 7812 | 927,000 | Finance | N | 1 | 0 | Bookkeeper | Keypunch error credited wrong account; holder wrote several checks; skipped; discovered when a client questioned about his wired transfer; A:52 |


| ID | Loss (\$) | $\begin{gathered} \text { Type of } \\ \text { Organization } \end{gathered}$ | Conspiracy | No. of Perp. | In/out | Position | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7813 | 70,000 | Prof/org | Y | 5 | 1/0 | clerk | Clerks stored bet in computer until home stretch; cancelled if bet was loser; one of two bettors would be the last person in line at window and would place bets just before machines were locked by steward but would not give clerk money; if bet was a loser, clerks would cancel and if it won, clerks would print winning ticket; clerks received $\$ 5-100$ tips; caught when state's computer detected their computer assigning a 15 -digit code to every ticket, whether |
| 7814 | 300,000 | Sales/mic | Y | 4 | I | Reception- <br> ist | Computer and records burned, auditors turned up a mysterious entry of $\$ 141,000$, between March and August, checks totalling $\$ 300,000$, were written against their balance |
| 7815 | $?$ | Ind | ? | ? | ? | ? | Person linked to on-line user with a phony story and tried to get user to give a password for a directory |
| 7816 | ? | Ind | x | 3 | I | Student | Students used guest access allowed by a legitimace user to create mischief, change passwords, order manuals, etc. |


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| Three data sets were used to estimat distributions between various variab embézzlement (BF\&E) cases of $\$ 10,000$ cases of various types, and cases of distributors. | nt and f inter ars or der the | itional proba in bank fraud computer-re rom drug manu | ility and ated crime acturers and |
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|  | ${ }^{2}$ USECT | fieds (this pagel | $\begin{array}{\|c\|} \hline \text { 22. PRICE } \\ \hline \end{array}$ |


[^0]:    *One industry in our sample, academic institutions, is an exceptica to this use pattern. Here the primary uee of computers tends to be for problem solving. It is largely this difference in system task that is responsible for the fact that intellectual game playing is the dominant form of computer abuse in universities.

[^1]:    ${ }^{\text {a }}$ Total number of cases with data on $\epsilon$ variable is 272 . Rounding error may cause totals to deviate from one.
    ${ }^{\mathrm{b}}$ See Abbreviations and Definitions.
    ${ }^{C}$ Firet four positions are mutually exclusive and exhaustive; in conspiracy cases the position of the highest ranking perpetrator is listed. The category branch manager stands alone and is reported whether or not a branch manager was the highest ranking perpetrator.

[^2]:    $\mathrm{a}_{\text {Total }}$ number of cases with data on each variable is 286. Rounding error may cause totals to deviate from one.
    $\mathrm{b}_{\text {First }}$ four positions are mutually exclusive and exhaustive; in conspiracy cases the position of the highest ranking perpetrator is listed. The category branch manager stands alone and is reported whether or not a branch manager was the highest ranking perpetrator.

[^3]:    atotal number of cases with data on each variable is 286.
    brirst four positions are mutually exclusive and exhaustive; in conspiracy cases the position of the higheot ranking perpetrator is listed. The category branch manager stands alone and is reported whether or not a branch manager was the highest ranking perpetrator.

[^4]:    $a_{\text {Total }}$ number of cases with data on each variable is 286 . Rounding errors may cause totals to deviate from one.
    $b_{\text {First }}$ four positions are mutually exclusive and exhaustive; in conspiracy cases the position of the highest ranking perpetrator is listed. The category branch manager stands alone and is reported whether or not a branch manager was the higkest ranking perpetrator.

[^5]:    a Total number of cases with data on each variable is 284 . Rounding errors may cause totals to deviate fran one.
    bank size: small =up to $\$ 10,000,000$ in deposits. medium $=\$ 10,000,000-\$ 100,000,000$ in deposits. large $=$ over $\$ 100,000,000$ in deposits.

[^6]:    a Total number of cases with data on each variable is 274 . Rounding errors may cause totals to deviate fram one.
    ${ }^{\mathrm{b}}$ See Abbreviations and Definitions.

[^7]:    $a_{\text {Total }}$ number of cases with data on each variable is 274 . Rounding errors may cause totals to deviate fram one.
    ${ }^{\mathrm{b}}$ See Abbreviations and Definitions.

[^8]:    atotal number of cases with data on each variable is 286 . Rounding errors may cause totals to deviate fran one.
    $b_{\text {potential }}$ loss--total lass to bank exclusive of any recovery in thousands of dollars.
    CFirst four positions are mutually exclusive and exhaustive; in conspiracy cases the position of the highest ranking perpetrator is listed. The category branch manager stands alone and is reported whether or not a branch manager was the highest perpetrator.

[^9]:    atotal number of cases with data on each variable is 286 . Rounding errors may cause totals to deviate from one.

[^10]:    a Total number of cases with data on each variable is 285. Rounding errors may cause totals to deviate from one.
    boss size--total loss to bank exclusive of any recovery in thousands of dollars.
    ${ }^{\text {c Bond--the }}$ fidelity coverage per incident in thousands of dollars. Bond size:
    small $=\$ 0-\$ 499$. medium $=\$ 500-\$ 4999$. large $=\$ 5000$ and over.

[^11]:    $a_{\text {Total }}$ number of cases with data on each variable is 285 . Rounding errors may cause totals to deviate from one.
    Bank size: small $=$ up to $\$ 10,000,000$ in deposits.
    medium $=\$ 10,000,000-\$ 100,000,000$ in deposits.
    large = over $\$ 100,000,000$ in deposits.
    ${ }^{\mathrm{C}}$ Loss size-total loss to bank exclusive of any recovery in thousands of dollars.

[^12]:    a Total number of cases with data on each variable is 285 . Rounding errors may cause totals to deviate from one.
    $b_{\text {Bank size: }}$ small $=$ up to $\$ 10,000,000$ in deposits.
    medium $=\$ 10,000,000-\$ 100,000,000$ in deposits.
    large $=$ over $\$ 100,000,000$ in deposits.
    ${ }^{\text {CPoter }}$ ial loss--total loss to bank exclusive of any recovery in thousands of dollars.

[^13]:    $a_{\text {Total }}$ number of cases with data on each variable is 136. Rounding errors may cause totals to deviate fron one.
    $b_{\text {First }}$ four positions are mutually exclusive and exhaustive; in conspiracy cases the position of the highest ranking perpetrator is listed. The category branch manager stands alone and is reported whether or not a branch manager was the highest perpetrator.
     concealed:
    short $=0-6$ months. medium $=7-24$ months. long $=$ over 25 months.

[^14]:    a Total number of cases with data on each variable is 136 . Rounding errors may cause totals to deviate from one.
    birst four positions are mutually exclusive and exhacstive; in conspiracy cases the position of the highest ranking perpetrator is listed. The category branch manager stands alone and is reported whether or not a branch manager was the highest ranking perpetrator.
    CTime concealed is the total length of time activity is concealed:
    short $=0-6$ months.
    medium $=7-24$ months.
    long = over 25 months.

[^15]:    ${ }^{a_{\text {Banks }}}$ are not required to report Hobbs Act cases to the FDIC. Hence these cases are a subset of all Hobbs Act cases that occurred in this time period-cases which were (mistakenly) reported to FDIC.
    brheats and threat hoaxes are differentiated according to the credibility of the threat as detailed in the FDIC reports.
    ${ }^{C}$ In one case $\$ 50,000,000$ was demanded. If this case is amitted, the average demand is $\$ 39,420$.

[^16]:    $a_{\text {Total }}$ number of cases with data on each variable is 458 . Rounding errors may cause totals to deviate from one.
    ${ }^{\text {b See Abbreviations and Definitions. }}$

[^17]:    $a_{\text {Total }}$ number of cases with data on each variable is 458 . Rounding errors may cause totals to deviate from one.
    ${ }^{\mathrm{b}}$ See Abbreviations and Definitions.

[^18]:    a Total number of cases with data on each variable is 458 . Rounding errors may cause totals to deviate fram one.
    ${ }^{\mathrm{b}}$ See Abbreviations and Definitions.

[^19]:    atotal number of cases with data on each variable is 232 . Rounding errors may cause totals to deviate fram one.

[^20]:    $a_{\text {Total }}$ number of cases with data on each variable is 216 . Rounding errors may cause totals to deviate from one.

[^21]:    a Total number of cases with data on each variable is 243 . Rounding errors may cause totals to deviate from one.
    ${ }^{\text {b See Abbreviations and Definitions. }}$

[^22]:    $a_{\text {Total number of }}$ nuses with data on each variable is 243 . Rounding errors may cause totals to deviate from one.
    $\mathrm{b}_{\text {See }}$ Abbreviations and Definitions.
    $C_{\text {There }}$ were only seven cases in which a student was the perpetrator, two of which involved very 1 arge losses.

[^23]:    $a_{\text {Total }}$ number of cases with data on each variable is 380 . Rounding errors may cause totals to deviate from one.
    ${ }^{\mathrm{b}_{\text {See }}}$ Abbreviations and Definitions.

[^24]:    $a_{\text {Total }}$ number of cases with data on each variable is 381 . Rounding errors may cause totals to deviate from one.
    $\mathrm{b}_{\text {See }}$ Abbreviations and Definitions.

[^25]:    a Total number of cases with data on each variable is 381. Rounding errors may cause totals to deviate from one.
    $\mathrm{b}_{\text {See }}$ Abbreviations and Definitions.

[^26]:    a Total number of cases with data on each variable is 350 . Rounding errors may cause totals to deviate from one.
    bsee Abbreviations and Definitions.

[^27]:    $a_{\text {Total number }}$ of cases with data on each variable is 350 . Rounding errors may cause totals to deviate from one.
    $\mathrm{b}_{\text {See }}$ Abbreviations and Definitions.

[^28]:    $a_{\text {Total }}$ number of cases with data on each variable is 350 . Rounding errors may cause totals to deviate from one.
    $\mathrm{b}_{\text {See }}$ Abbreviations and Definitions.

[^29]:    a Total number of cases with data on each variable is 388 . Rounding errors may cause totals to deviate from one.
    $\mathrm{b}_{\text {See }}$ Abbreviations and Definitions.

[^30]:    a Total number of cases with data on each variable is 317 . Rounding errors may cause totals to deviate from one.
    ${ }^{\mathrm{b}}$ See Abbreviations and Definitions.

[^31]:    $\mathrm{a}_{461}$ sample points were available for these calculations.

[^32]:    $\mathrm{a}_{461}$ incidents were available for these calculations.

