## Journal of Criminal Law and Criminology

Volume 47 | Issue 4

Article 5

1957

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Bernard M. Bass

D.A.Dobbins

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### **Recommended** Citation

Bernard M. Bass, D. A. Dobbins, IBM Mark Sense Cards in Prison Classification and Criminological Research, 47 J. Crim. L. Criminology & Police Sci. 436 (1956-1957)

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### IBM "MARK SENSE" CARDS IN PRISON CLASSIFICATION AND CRIMINOLOGICAL RESEARCH

### BERNARD M. BASS AND D. A. DOBBINS

Bernard M. Bass is research consultant to the Department of Institutions and Associate Professor of Psychology at Louisiana State University. He has served as personnel consultant to various industries, as contract research director for the USAF Aero-Medical Laboratories, and for the Office of Naval Research Group Psychology Branch. He is the author of 60 articles in the areas of leadership, statistics, personnel assessment and stress.

D. A. Dobbins, M.A.—Personnel and Industrial Psychology. Following three years with private industry he became associated with the Louisiana Department of Institutions as Research Statistician. Concurrent with research work, he is presently completing requirements for the Ph.D. in Psychology at Louisiana State University. He is author of six research reports in the areas of delinquency and statistics. The authors express their appreciation to Messrs. [Maurice H. Sigler, Reed Cozart, Kenyon J. Scudder, and J. W. Allgood for their many contributions to this undertaking.— EDITOR.

A new streamlined method of gathering, recording and correlating information on inmates of the Louisiana State Penitentiary at Angola has recently been inaugurated. It saves time, reduces the need for skilled clerical personnel, and makes much more information available than the old, and with greater accuracy and speed.

The new system makes use of IBM "Mark sense" cards which have been adopted by the Division of Research of the Louisiana Department of Institutions for the gathering of data, reporting and research on each of the state's 100,000 yearly admissions to its mental, tuberculosis and general hospitals, guidance centers and correctional institutions.

### THE OLD SYSTEM AND THE NEW

In the past, background data for new admissions to the Louisiana State Penitentiary were obtained during the initial classification interview. This information, which was later forwarded to the central office of the State Department of Institutions, consisted of approximately 35 items of a relatively static nature, such as crime committed, sentence, date of commitment, race, sex and nativity.

Clerical personnel at the prison organized the results of the classification interview and typed the information on standard admission forms. When these forms reached the central office, another staff of clerks translated the various items into numerical codes which were next passed to key-punch operators who punched IBM master cards.

This procedure required three clerical operations and the data passed through numerous hands, making the probability of clerical error very high.

During the classification interview, professional interviewers now record information on a standardized checklist which is then transposed onto "Mark Sense" IBM cards (Figures 1, 2, & 3) by clerks. This is the only point at which clerks are needed

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Pigure 1. Louisiana State Penitentiary Admission Card Number 1.

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in the new process, and they no longer need to be proficient typists. These cards are sent to the central office where all further work is performed by IBM automatic machines, releasing personnel at both the prison and the Division of Research for other work.

### MARK SENSING

Mark sensing is a procedure by which a specially printed IBM card is marked with an electrographic pencil to denote certain information. Through the use of the Mark Sensing Reproducer these marks are automatically converted into punched holes in the card corresponding to the relative positions of the pencil marks. The punched hole thus assumes the same numerical value as the mark which was originally made. This procedure permits the collection of record or research data on IBM cards at the source of the data without any additional clerical or key-punch work. Its major utility is in the elimination of typing information on standardized forms. After admission, any additional information received (parole, discharge, etc.) is matched with the original punched card by collation and is punched directly in the original card. After an inmate is admitted and discharged, there is only one master card on file. The three mark sense cards are machine merged into one standard 80 column IBM master card.

### MARK SENSE CARDS

Both prison and Division of Research personnel collaborated in planning the new reporting system. In addition to the traditional routine information, many new items were suggested, discussed, and added or discarded. The final items for the

Item	Punch Column	Mark Sense Column
1. Inmate number	prepunched	
2. Crime committed	1-9*	1-3
3. Date of commitment	10-15	4-5
4. Years sentenced	1621	6-7
5. Parish of commitment	22-27*	8-9
6. Age at commitment	28-30	10
7. Year of birth	31-36	11-12
8. Years in Louisiana	37-39	13
9. Place of residence	40-45*	14-15
0. Size of community of residence (rural-		
urban)	46-48	16
1. Occupation	49-57	17–19
2. Veteran's status	58-60	20
3. Race and marital status	61-63	21
4. Educational attainment	64-66	22
Returns section		
1. Reason for return	67–69	23
2. Date of return	70-75	24-25
3. Number of months away	76-80	26-27

TABLE I

\* The asterisk indicates items that are marked from printed codes. (Figs. 2 & 3 also.)

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Figure 2. Louisiana State Penitentiary Admission Card Number 2.

### BASS AND DOBBINS

Item	Punch Column	Mark Sense Column
1. Inmate number	prepunched	
2. Number of prior escapes		1
3. Number of previous commitments-LSP	4-6	2
4. Number of previous commitments-elsewhere	7–9	3
5. Type admission	10-12*	4
6. Number of juvenile commitments	13-15	5
7. Age at first arrest	16-18	6
8. Marital history	19-21	7
9. Number of dependents.		8
10. Economic status	25-27	9
11. Nurture	28-30*	10
12. Number of times changed schools	31-33	11
13. Father's occupation		12
14. Mother's occupation	37–39	13
15. Educational grade attained by father	40-42	14
16. Educational grade attained by mother	43-45	15
17. Psychobiological history-inmate	46-48	16
18. Psychobiological history-father	49-51	17
19. Psychobiological history-mother		18
20. Number of siblings	55-57	19
21. Siblings-correctional or penal history	58-60	20
22. Siblings-mental hospital or treatment history		21
23. Religiosity of inmate	64-66	22
24. Religiosity of father		23
25. Religiosity of mother	70–72	24
26. Otis Intelligence Quotient		25
27. Literacy-grade achievement	76–78	26
28. Duty assignment		27

TABLE II

mark sense system were chosen for their potential usefulness in future research and their practical usefulness in prison administration. Some items were based on surveys of criminological literature; others were based on suggestions from experienced prison administrators. When the final cards were completed, over 60 items had been selected, almost twice as many as previously.

The new procedure has resulted in a drastic reduction in effort and time, for both the prison and the Division of Research. At the same time twice as many variables are now recorded. By reducing its clerical staff, the Research Division has been able to acquire the services of professionally trained research personnel. Conversely, the level of skill required for the prison recording system has been lowered since typing is no longer required. Emphasis has been taken off "data-gathering" and placed on productive analysis. In addition, the Division is now able to function as a service organization for the institutions in the field. The prison benefits by being able to obtain mass inmate information in only a fraction of the time previously required. Reporting is no longer a one-way process. The intensive use of IBM equipment has made possible a rapid "feed-back" of requested information to the reporting institution. 1956] .

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# Figure 3. Louisiana State Penitentiary Admission Card Number 3.

### Admission Card No. 1

The first admission card (Figure 1) is filled out and sent to the Division of Research within one month after admission. The items on this card are obtained from court papers and routine interviews. Since inmates are admitted in a numerical sequence, inmate numbers are pre-punched in the cards, interpreted in advance, and stacked in order ready for use. The items appearing on this card are shown in Table I.

Items 5 and 9 above are used for demographic and statistical analyses of inmate distribution. These items also yield the number and residence of out-of-state offenders. Item 10 makes possible a comparison of rural and urban commitment rates. Items 1 through 3 under "Returns" apply only to inmates who violate parole, return from escape, or from observation at mental institutions. The heavy black lines (Punch columns 61-63) indicate a "double-punch" column. Two pencil marks are made in each of these columns. The double punch can be used to advantage when the item may be classified into two or three major headings, each of which is broken down into smaller subheadings.

### Admission Card No. 2

This card (Figure 2) is filled out and sent to the Division of Research from one to two months after the inmate is admitted. Much of this information requires documentation from FBI records and files of other correctional institutions. The card gathers information concerning the antecedent environmental conditions which may have contributed to delinquency. A rather comprehensive social and environmental history is compactly recorded on the  $3\frac{1}{2}'' \times 7\frac{3}{8}''$  card. The items are shown in Table II.

Items 26 and 27 are used to gather psychological test information. Test data can be even more useful to the prison staff if test scores of thousands of inmates are systematically collected. In this manner prisoners' achievement and aptitude scores

Item	Punch Column	Mark Sense Column
1. Inmate number	1–15	1-5
2. Date of exit	16-21	6–7
3. Type of exit	22-24*	. 8
4. Time confined	25-27	9
5. Number of times paroled	28-30	10
6. Good time lost	3133	11
7. Age on exit	34-36	12
8. Place paroled (parish or state if outside La.)	37-42	13-14
9. Place paroled—size of community	43-45	15
10. Number of times before parole and pardon boards	46-48	16
11. Disciplinary reports-number	49-51	17
12. Disciplinary reports-reason (space for 5 reports)	52-66	18-22
13. Custody	67-69	23
14. Cause of death	70-72	24
15. Vocational training received	73–75	25
16. Primary job specialty	76-80*	26-27

TABLE III

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may be evaluated in reference to other inmates. Mark sense reporting is uniquely suitable in the construction of local norms.

### EXIT CARD

The exit card (Figure 3) is submitted at the time the inmate leaves the prison with the staff expectation that he will not return (i.e., parole, pardon, or final discharge). A brief summary of each inmate's institutional adjustment and training appears on this card. The items are shown in Table III.

The information on this card should prove useful in future follow-up studies. Patterns of institutional adjustment may be predictive of later social adjustment. Occupational follow-ups of inmates who participated in the prison vocational training programs should provide a basis for the guidance and revision of future programs.

From time to time the Division will re-evaluate its reporting program. By statistical analysis and conferences with reporting personnel, unreliable and non-productive items will be discarded in favor of better ones.

In summary, the initiation of mark sense reporting has substantially improved the speed and accuracy of reporting and is providing the necessary data for profitable future research. In addition, the prison administration has at its fingertips much of the information needed for reports, budgets, and construction planning, information which can be obtained without the cumbersome, time-consuming hand-tallying of the past.