RESEARCH IN Corrections

Volume 2, Issue 1 February 1989

Supported by the Robert J. Kutak Foundation and the National Institute of Corrections

THE COST OF CORRECTIONS: IN SEARCH OF
THE BOTTOM LINE Douglas C. McDonald, Ph.D. Page I

THE COST OF CORRECTIONAL SERVICES: EXPLORING
A POORLY CHARTED TERRAIN Alan M. Schuman Page 27

CORRECTIONS "PROPORTIONATE VALUE"

Chase Riveland Page 35

EARLIER VOLUMES IN THIS SERIES

Statistical Prediction in corrections, by Todd Clear, Ph.D., Vol. 1, Issue 1, March 1988.

The Effects of Diet on Behavior: *Implications for Criminology and Corrections*, by Diana Fishbein, Ph.D., and Susan Pease, Ph.D., Vol. 1, Issue 2, June 1988.

Pretrial Release: Concepts, Issues, and Strategies for Improvement, by Stevens H. Clarke, Vol. 1, Issue 3, October 1988.

FOREWORD

In the economic climate of the 1980s any discussion of correctional program choices rapidly focuses on the costs associated with sanctioning offenders in different ways. Both the increased cost of services and the problem of crowding throughout the corrections system demand that administrators become more adept at defining and analyzing costs. In this monograph, the fourth in the *Research in Corrections* series, Douglas McDonald offers both substantive cost information on prisons, jails, probation, and parole and a tutorial on the shortcomings of popular methods of computing corrections costs.

Dr. McDonald provides important insights into why corrections expenditures grew so rapidly in the decade between 1975 and 1985. He defines a framework for understanding the real or full costs of correctional services and discusses the widespread underreporting of costs.

In the practitioner responses, Alan Schuman, Director of the Social Service Division of the Superior Court of the District of Columbia, explores the benefits of community corrections from a cost perspective and calls for remedies to the generally poor state of cost information on community corrections programs. Chase Riveland, Secretary of Corrections, Washington State, places the question of an improved understanding of costs in the perspective of broader public perceptions of the value of correctional programs.

It is our hope that the monograph will be useful to both corrections practitioners and decisionmakers in the broad public policymaking arena.

Larry Solomon Acting Director, National Institute of Corrections

EDITOR'S NOTE

No issue has brought criminal justice more to the forefront of public policy than that of corrections costs. State spending for corrections throughout the nation has grown by more than 50 percent since 1980-the greatest increase of any state-funded service-and next year, Americans will spend close to \$10 billion to operate the nation's prisons.

As the costs of corrections continue to spiral upward, most states are asking: How much "punishment" can we afford? The answer depends on how much various types of punishment cost. Most policy discussions of the costs of imprisonment relative to those of other alternatives have been overly simplistic. The annual operating cost of prisons (usually quoted to be about \$14,000 per inmate) is generally compared with the annual cost of probation (about \$2,000 per probationer). Comparing these two figures fuels the popular notion that probation is far cheaper than prison.

But as Douglas McDonald makes painfully clear in this comprehensive monograph, reaching the "bottom line" on corrections costs is much more complicated. The annual operating cost of a prison does not reflect capital costs, fringe benefits and pensions, and other necessary expenditures; adding in these items more than doubles the annual cost. Other sanctions, such as jail, probation, and parole, involve cost complications as well.

Dr. McDonald, who has written extensively in criminal justice, reviews current knowledge on corrections costs, pointing out the critical gaps. His review should be of particular interest to budget analysts, state legislators, and corrections practitioners who are concerned with the cost implications of corrections policy.

Chase Riveland and Alan Schuman, in their practitioner reviews, provide another critical dimension to the cost issue. Both of these corrections officials have had extensive experience in managing their own operational budgets, and have been responsible for informing and educating those who fund correctional services. Here, they review Dr. McDonald's monograph to examine how his findings relate to the day-to-day concerns of the corrections practitioner. Mr. Riveland discusses the 'proportionate value' of different corrections services and considers what aspects of corrections seem worth paying for from the public's point of view. Mr. Schuman expands the cost discussion to include community corrections and discusses the impact of litigation on prison operating costs.

The next issue of *Research in Corrections* will present 'Intensive Supervision in Probation and Parole,' by James Byrne, Arthur Lurigio, and Christopher Baird.

Complimentary copies of this monograph and earlier volumes in the Research *in Corrections* series can be obtained by writing to the National Institute of Corrections' National Information Center, 1790 30th Street, Suite 130, Boulder, CO 80301.

Persons wishing further information on the series are asked to write to Joan Petersilia, The RAND Corporation, 1700 Main Street, Santa Monica, CA 90406-2138.

Joan Petersilia

THE COST OF CORRECTIONS: IN SEARCH OF THE BOTTOM LINE

Douglas C. McDonald'

INTRODUCTION

Several years ago, in testimony before a state legislative committee that was considering a change in sentencing law, I referred in passing to the \$15,000 per-inmate annual cost of operating the state's prison system. The commissioner of the state's prisons followed me to the microphone and disputed my figures: "Don't believe everything researchers tell you. I've just calculated that the annual cost is more like \$11,500. That has to be right; just divide my budget by the average daily population, and that's what you get." Meeting him in the corridor afterwards, I asked about pension and fringe benefit costs. "Oh yes, you're right," he said. "I forgot about them. They're not my costs."

The idea of "my costs" reflects a much broader problem in public accounting, one which complicates enormously the task of determining what correctional services-and other public services as well-actually cost. The task of the public manager is, in part, to administer appropriated funds. Consistent with this emphasis on budget administration, public accounting methods were designed primarily to track dollars so that fraudulent use of public funds could be prevented or detected. Cost analysis has taken a back seat to funds control, and the way expenditures are counted and reported reflects this. For example, the unit of analysis is the agency rather than the service performed. Where different services are provided by a single agency, the costs of these services are often not disentangled. Where different agencies contribute to the same governmental service, public accounts generally fail to consolidate the costs of that service. Rather than separate capital from operating expenses, many reporting systems conflate the two or draw the line dividing them in different ways. Because determining the actual cost of a service is not a central preoccupation of government, rules about how debt should be capitalized, or depreciation calculated, have not been adopted. The result is widespread variation in how costs are computed (when somebody actually makes an attempt to compute them) and a pervasive underreporting of costs.

In the environment in which correctional managers now work, it is important to have a clear and precise understanding of the fiscal consequences of different choices. During the decade between 1975 and 1985, the cost of operating correctional institutions in the United States rose by nearly 240 percent, and all levels of government spent large sums-a total of about \$10.5 billion-to

¹Several people provided helpful reviews, assistance, and unpublished data. I am especially grateful to Sue Lindgren of the Bureau of Justice Statistics, John Curry of the Bureau of the Census' Government Finance Division, and Joan Jacoby of the Jefferson Institute.

expand their correctional systems.² Since then, growth has remained strong, and prospects appear quite bleak for a significant reduction in spending in the foreseeable future unless dramatic changes are made in sentencing policies. Rising faster than the gross national product, spending for corrections will have to be fueled either by raising tax revenues or by spending less for other government programs, a painful choice for political leaders and taxpayers alike.

Even if correctional managers were faced with a zero-growth future, just bringing existing facilities up to standards is and will continue to be extremely costly. As of October 1987, forty-five states, the District of Columbia, Puerto Rico, the Virgin Islands, and an undetermined number of county and municipal governments were under court orders to remedy conditions in their prisons and jails. In mid-1984 (according to the most recent survey available), 46 percent of all jails holding at least 100 inmates-which, taken as a group, held about 74 percent of all the nation's jail inmates at that time-were under court orders to reduce overcrowding or improve their recreational and/or medical facilities and services. In most, if not all, instances, the courts are making demands that cost money to satisfy. In one dramatic case, Judge Frank M. Johnson ordered, in *James v. Wallace*, that the Alabama prison system be improved. This order resulted in a corrections budget in 1976 of \$55 million, \$35 million of which was said to be caused directly by the judge's decision⁴

This essay presents a discussion of correctional costs, how they are conceived or misconceived, calculated and miscalculated, and how they behave-that is, why they vary from place to place and over time, why they have increased so dramatically in so many jurisdictions, and how they differ among the various types of correctional services. Because my expertise is primarily in elucidating the implications of different policy choices, and because I have little training in professional accounting and none in administering correctional facilities, I have steered almost clear of a review of accounting rules. More detailed and competent discussions of them can be found elsewhere. I have also chosen to avoid the topic of cost-inefficiencies, waste, and how to control them. My aim is, rather, to explore the gross costs of correctional services, including per-capita expenditures, to indicate the problematic nature of the data commonly used and published, and to explore how these costs might be estimated more accurately. I shall present some information that has not been published elsewhere and indicate where I see softness in the published data. My assumption is that the kind of information discussed may be of interest to decisionmakers in the correctional policymaking arena, and not just in correctional administration.

I have not been able to avoid a tension in this discussion between presenting substantive information and discussing methodological matters. This paper is intended to be part sourcebook and part tutorial. Some readers may find the result maddening. A straightforward presentation of costs and cost-related

¹See Table 1 on p. 13.

²Status Report: State Prisons and the Courts,' *The National Prison Project Journal*, ACLU National Prison Project, 13, Fall 1987, p. 24.

^{&#}x27;Reported in Charles Prigmore and Richard T. Crow, 'Is the Court Remaking the American Prison System?' Federal Probation, 40, June 1976, p. 8.

3

issues, with only a few qualifications and quibbles, would perhaps make easier and more satisfying reading. However, such a discussion would reinforce the notion I want to challenge, namely, that the data we commonly use for costs in corrections are misleading. The corrective for this is to take at least a short journey into a more abstract discussion of how costs should be conceived of and computed. In the following, I have tried to balance the discussion somewhere between the two poles of abstract methodology and substantive cost information.

This is not intended as a review of the entire field or all the literature on the subject. Instead, it is a selective discussion of points that I hope have general significance.

ESTIMATING THE COST OF CORRECTIONAL PROGRAMS

Prisons. According to the Census Bureau's survey of audited expenditures, state governments spent between \$4.28 and \$4.80 billion for their correctional systems during 1985.⁵ This amounted to an annual average operating expenditure of \$9,550 to \$10,700 per inmate.⁶ During the same year, the federal government spent roughly \$501 million to operate its adult prison system, or \$12,500 per inmate.⁷ According to other widely used sources, however, the expenditure was substantially higher. The American Correctional Association's annual survey reports that state and federal budgets for operating the nation's prison systems totaled \$7.9 billion in that same year.' Translated into per-capita terms, the average annual budgeted amount was \$16,400 for each inmate. The Corrections Yearbook computed from its survey of agency budgets that operating costs averaged \$14,591 per inmate that year. The highest estimate was more than half again as much as the lowest of the three.

The actual cost was probably higher than all three, largely because we can be assured that some categories of direct costs were not picked up in any of the surveys. Given the existing data, however, it is difficult to estimate how much higher the real expenditure was. The Census Bureau's figures are probably the best estimates of base operating costs, simply because they were derived from audited expenditures rather than budgets and because Census Bureau examiners followed uniform rules to distinguish different types of costs. They also

⁵State figures represent aggregate expenditures for institutional operations, reported in *Government Finances in* 1984-1985, Washington, D.C.: U.S. Department of Justice, 1985, Table 47. The total of \$527 million reported spent by state governments for institutional operations is not separated into adult and juvenile corrections, but is categorized as 'other and combined'; hence, a range is represented, rather than a single figure.

⁶Average number of prisoners from Bureau of Justice Statistics, *Prisoners in 1985*, Washington, D.C.: U.S. Department of Justice, 1986, Table 2.

⁷Annual budget reported in George M. Camp and Camille Graham Camp, *The Corrections Year-book*, South Salem, N.Y.: Criminal Justice Institute, 1986, p. 23. Average daily population is reported in Bureau of Justice Statistics, *Prisoners in 1985*, Washington, D.C.: U.S. Department of Justice. 1986. Table 2.

⁸American Correctional Association, 1986 Directory: Juvenile and Adult Correctional Departments, Institutions, Agencies, and Paroling Authorities, College Park, Md., 1986, pp. x, xi.

followed the same rules in deciding what to include and what to exclude. But because there is wide variation from state to state in activities and costs that agency budgets cover, and because the annual budget surveys don't tell us what is or is not in them, it is difficult to know how much confidence to place in these figures.

Jails. Reliable estimates for the costs of the nation's 3,300 local jails are even harder to come by. The Census Bureau's survey of government finances estimated that county and municipal governments spent a total of \$3 billion in fiscal year 1985 to operate jails and detention centers. This amount included both adult and juvenile institutions, but extrapolating from limited data, we can estimate that county and local expenditures for adult jails alone totaled roughly \$2.3 billion that year. On a per-prisoner basis, this averaged \$8,679 per year, or \$23.78 per day. Again, some cost elements were systematically excluded from these figures (principally, pension fund contributions), so the costs are low by some undetermined percentage.

Few other surveys of jail costs exist. One undertaken by the Criminal Justice Institute for its *Corrections Yearbook* polled all jails in the United States holding more than 250 prisoners in 1985. Four dozen responded, about one-fifth of all jails meeting the size criterion. ¹² These 48 jurisdictions reported spending an annual average of \$13,803 per prisoner, or \$37.82 per day. Costs ranged from a low of \$1,080 per year in Alabama's Jefferson County jail to a high of \$40,077 per year in New York City's adolescent detention center. Again, it is difficult to determine how much confidence should be placed in the accuracy of these figures, absent a description of the accounting methods used by each county to calculate rates. Moreover, the selected sample consisted of larger jails and may not necessarily be representative of the entire set of adult jails in the country. The bottom line is that none of the estimates of average jail costs seems strong enough to stand on.

Probation and Parole. Very few data are available on nationwide expenditures for probation and parole. The Bureau of Justice Statistics (BJS) reports that the total direct expenditure during fiscal year 1985 for both activities at the 'state and local, but not federal, levels amounted to \$1.5 billion. Of this total, all but \$10.4 million went for agency operations; the remainder represented capital

⁹Bureau of Justice Statistics, 'Justice Expenditure and Employment Final Report, 1985, unpublished document, Table 42.

¹⁰According to the same Bureau of Justice Statistics report, 72 large county governments sampled by the Bureau of Census reported that 77.5 percent of their expenditures for institutional corrections went to adult facilities. Applying that proportion to the total combined expenditure for adults and juveniles in both county and municipal jails yields \$2.3 billion for adults alone. (Ibid., Tables 42 and 50.)

¹¹At midyear 1985, there were approximately 265,000 persons in U.S. jails (Bureau of Justice Statistics, *Jail Inmates*, 1985, Washington, D.C.: U.S. Department of Justice, 1987, Table 1.

¹²Camp and Camp, The Corrections Yearbook, 1985, pp. 67-68. The sample reported here represents about half of all jails having more than 250 persons, but Charles Dewitt counts 214 jails of this size in 1983. See Dewitt, New Construction Methods for Correctional Facilities, Washington, D.C.: U.S. Department of Justice, 1986, Fig. D.

expenses¹³ No information is given for probation activities alone, or parole separately. Again, these data underestimate the actual operating costs because they, like all data developed by the Bureau of the Census for its survey of government finances, omit certain categories of fringe benefit and retirement fund contributions. These and other local sources also tend to overlook certain categories of direct expenditures made for either probation or parole, because those expenditures are picked up in other departments' budgets.

The Criminal Justice Institute, in its *Corrections Yearbook* (1985), reports that its national survey of probation agencies found the estimated cost of supervising one probationer for a year to range from \$156 in Connecticut to \$1,500 in the federal system. The average cost for the 44 agencies reporting was \$584. Because the *Yearbook* provides no description of the methodology followed to compute these costs, we cannot assess their accuracy. Probation is a local responsibility in many states, and it is likely that the state-level agencies that reported the costs to the authors of the *Yearbook* passed on estimates of varying quality obtained from local departments. ¹⁵

Probation costs vary in relatively direct proportion to the caseload size-that is, the number of probationers supervised by a single probation officer-and to the salary levels of officers. Various forms of beefed-up probation supervision programs (e.g., intensive-supervision probation) usually involve smaller caseloads, which come at a higher per-capita cost. The annual cost of intensive supervision in Georgia during 1982, for example, was reported to be \$1,595 per probationer, compared with \$275 for regular supervision during the same period.¹⁶

To the best of my knowledge, no national survey of parole supervision costs exists. The cost is often difficult to identify, because in many jurisdictions parole supervision costs are not separated from the larger agency costs, which often include those of the parole board and, in many jurisdictions, probation services as well. To give some idea of the magnitude of the costs, a study of New York expenditures in 1978 estimated that parole supervision cost about 7 percent of the average per-capita cost of incarceration in the state's prisons."

The Need for Special Studies. An extensive list could be assembled here of the various estimates for different forms of correctional programs in different jurisdictions. But it is more useful, I think, for the reader to understand that the vast majority of estimates used to represent total costs are of questionable accuracy.

¹³Justice Expenditure and Employment Final Report, 1985, Table 43.

¹⁴Camp and Camp, *The Corrections Yearbook*, 1985, pp. 74-75.

¹⁵Determining the cost of probation supervision is difficult because of all the general problems with public accounting systems and their reports, but also for reasons peculiar to the structure of many probation departments. Probation agencies are multiservice agencies, providing-in addition to correctional supervision-services to adult courts in the form of presentence investigations, operating intake in the family courts, and other activities. If separate subdivisions do not exist to perform each of these activities, and if the accounting systems do track these functional areas separately, singling out the cost of probation supervision is quite difficult.

[&]quot;Billie S. Erwin, Evaluation of Intensive Probation Supervision in Georgia, Atlanta: Georgia Department of Offender Rehabilitation, 1984.

[&]quot;Douglas McDonald, The Price of Punishment: Public Spending for Corrections in New York, Boulder, Colo.: Westview Press, 1980, pp. 62-63.

Most are derived from agency expenditures-or worse, from budgets-and consequently they ignore several important categories of costs. What is needed is better agreement and understanding about what should be counted as costs. Because the cost of a service is of dependent upon how that service is delivered in each jurisdiction, and because there is such variation among jurisdictions in how costs are shared among agencies, special studies must be undertaken if accurate estimates of costs are to be obtained.

WHAT SHOULD COUNT AS A COST?

The basic problem in correctional cost analysis is that many expenditures that should be counted as costs of providing a particular service are overlooked. The relationship of several broad classes of costs is illustrated in Figure 1.

Moving from right to left in Figure 1: The total cost of a particular correctional service should logically include both direct costs, or those expenditures made by an agency of government to provide the service in question, and *indirect costs*, those costs borne by government or nongovernmental parties to support a particular correctional activity. Although these latter costs-the indirect governmental and indirect social costs-are real, their calculation is often difficult; speculative, and controversial, and will not be discussed further in this paper.

Direct costs consist of both *operating* costs and *capital* costs. It is important to distinguish between the two, because each provides benefits to different clients and publics. The rule is that operating costs are incurred to provide a service to the current client population, whereas expenditures for the expansion or replacement of capital stock benefit future generations as well.

Amortizing Capital Expenditures. The true cost of delivering a service in a particular year should include operating costs incurred during that year and some portion of the capital expenditures made that year. Determining precisely what proportion of the capital cost should be incorporated into the current cost estimate depends how long the capital resource will be used-how many years the cost should be spread over. The simplest method is to spread the cost of the facility evenly across all the years the facility provides useful service-the so-called 'straight-line" method of allocation. Most analyses of correctional costs fail to amortize capital spending and therefore understate the actual cost of operations.

Financing. The costs of purchasing correctional assets, if financed by borrowing, should be considered current operating costs, although they rarely are in public accounts. The portion that should be assigned to the annual (or daily, or

¹⁸For a clear discussion of the concept and the various methods, see Gail S. Funke and Billy L. Wayson, "What Price Justice? A Handbook for the Analysis of Criminal Justice Costs." unpublished document written for the National Institute of Justice-supported National Baseline Information Project of the Jefferson Institute and the Institute for Economic and Policy Studies, Washington, D.C.. pp. 64-69.

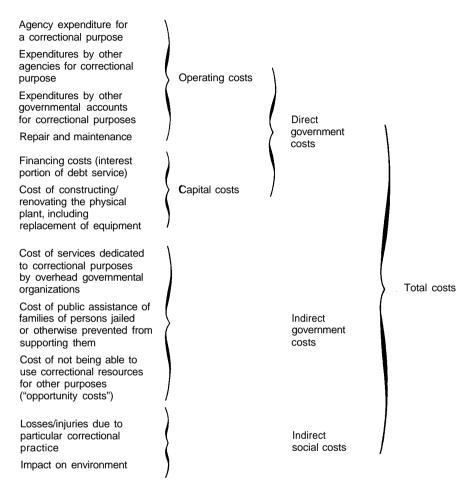


Fig. 1-Components of correctional costs

whatever) operating cost is the amount of interest paid on the debt during the time period measured.

Expenditures by Other Agencies. The direct costs other agencies incur in serving a correctional agency's mission must also be counted as direct costs, although they are typically overlooked because of the exclusive focus on the correctional agency's expenditures. For example, teachers in prisons and jails are sometimes paid not by the correctional agency, but by local school districts. Doctors and other medical workers might be paid by local or state departments of public health and mental hygiene. In-hospital care is often charged to the public hospital rather than to the correctional agency. Utility bills in correctional facilities are sometimes paid by departments of public works. Departments of transportation often provide the vehicles used to move prisoners. In some instances, a local department may have a special program that is financed not by the local government but by a state or federal government, and these costs might not show up in the department's expenditure reports. Failure to count the costs of services provided by other agencies and other levels of government may result in signficant undercounting of the total direct cost of a correctional service.

Disentangling Costs Within an Agency. In instances where a single agency performs a variety of different services, the costs of those services are often conflated with one another because the control of the agency's funds is more important than a precise determination of what each separate service costs. For example, probation departments typically provide both a correctional service-the supervision of offenders-and an investigative service to the court in support of the judges' sentencing function. Likewise, local sheriffs' departments are often structured as multipurpose agencies. They operate jails, patrol highways, and answer calls for service that do not involve law enforcement duties. When public accounts do not track expenditures for these separate functions (indeed, that is often difficult because the same people perform many different duties), teasing out the cost of a discrete correctional service usually requires not only a reanalysis of raw expenditure reports, but often new data collection as well.

Expenditures from Other Accounts: Fringe Benefits and Pensions. Finally, some costs are paid not out of any department's budget, but from general government accounts. In many jurisdictions, fringe benefits and contributions to employee retirement funds are not assigned to agency budgets but are transferred from the general fund into a separate account for all government employees as a group. Because personnel expenses represent such a large proportion of expenditures for correctional services, failure to count the added costs of benefits and pension plans results in the loss of a major expense item.

Whereas determining the cost of fringe benefits is quite straightforward, putting a true dollar figure on pension costs is much more difficult. This is due largely to the special nature of these costs. Pensions are a form of additional compensation to employees which is deferred either until employees reach retirement age or until they put in a specified number of years of service. As such, these obligations constitute a debt to employees. Funds to pay off these debts come

from government contributions to retirement systems and earnings received on investments of these contributions.

Government accountants use different methods for measuring the cost of retirement compensation, and inadequate financial reporting practices compound the confusion. 19 Some governments recognize the cost of pension benefits at the moment when cash payments are paid out to the retired worker. Others recognize it when the liability for a future benefit is created-that is, when the worker earns an increment of his or her future benefit payment. Determining the actual cost of a government service is presently obscured by the first method of computing pension costs, because costs in the form of liabilities are not being counted when they are created. (Lacking a method of matching liabilities to fund contributions, pension systems so designed also tend to build up large liabilities that are not offset by regular government contributions. The unfunded liabilities have to be paid, consequently, not by those who used the government service, but by later generations of taxpayers.) The method preferred by the standard-setting authorities involves making predictions about the size of those future costs and contributing some portion of them in the present. Contributions can be made to the retirement fund in amounts that will ensure that an employee's retirement benefits will be paid out of the funds that were set aside by the government for that purpose during his working lifetime.

The virtue of the latter method, from our point of view, is that it provides a way of measuring a piece of correctional spending for current operations. If the estimates are accurate, one needs only to track down the amount contributed by the government during any given year to the correctional staff person's retirement.²⁰

Whether or not these contributions can be taken as accurate indicators of actual cost is thrown in doubt, however, by studies of current funding practices in public pension systems. According to some studies, current contributions in many places do not match the liabilities that employees are incurring for future benefits. A 1975 study by the U.S. General Accounting Office of state and local pension systems estimated that the unfunded liabilities of those systems-the gap between what governments will have to pay and the assets that will be on hand to cover them-was between \$150 and \$175 billion, about the same as the entire outstanding credit market debt of state and local governments at that time. This gloomy picture was reinforced by Frank Arnold's 1983 survey of all 144 state-administered pension plans. He estimated that assets covered only about 45 percent of total projected liabilities. The unfunded liability in these

¹⁹For a discussion of the great variability and deficiencies in the reporting practices of public pension systems, see John E. Peterson, Public Pension System Financial Disclosure, Washington, D.C.: Government Finance Research Center, 1983.

²⁰Public budgets and published expenditure audits rarely indicate the amounts contributed on behalf of employees in specified agencies, but those who administer the pension funds can usually compute the amounts.

²¹Comptroller General of the United States, Funding of State and Local Government Pension Plans: A National Problem, Washington, D.C.: General Accounting Office, August 1979.

10 DOUGLAS C McDonald

state plans alone was estimated to be \$170 billion.²². (This exceeded by *two and a half times* the total long-term state debt in 1978.²³)

Uniformed employee pension systems, at least those for police and firefighters, tend to be more fully funded than others, but it is not known, in the aggregate, how much smaller the unfunded liability in these systems is or, correspondingly, how much larger the actual cost of current corrections services is, properly computed. Studies of unfunded liabilities indicate that the cost could be substantially larger than is commonly perceived. It is safe to assume, consequently, that pension contributions for correctional workers represent a low estimate of retirement costs.

Correctional pension contributions in New York give some idea of how large these costs can be. During 1976-1977, contributions by state government to the retirement fund for state prison employees equaled 23.6 percent of all salary and wage payments-none of which came from the department's budgeted funds. (This was in addition to expenditures for other fringe benefits, which added another 12.7 percent.) During the same year, pension contributions for city jail employees in New York City averaged 35 percent of all salary and wage payments, all of which were paid by a general government account. Some additional fringe benefits were paid out of that general account, the result being that these extradepartmental costs equaled 46 percent of all salary payments that year. In fiscal year 1987, these costs accumulated at a rate that was only slightly lower. Excluding pension contributions from estimates of correctional spending in these jurisdictions would have undercounted greatly the actual direct cost of those services.

The proportion of all pension and fringe costs covered by correctional department budgets, and how much larger the cost of operations would be if these were fully included in jurisdictions where agency budgets exclude them, has not been systematically determined. According to the American Correctional Association's *Vital Statistics in Corrections*, 1986, the average fringe and pension rate of the 86 jurisdictions that responded to a survey was reported to be 24.14 percent of salary. Whether these costs were included in department budgets was not indicated, nor do we know the method by which these rates were calculated, or whether the withholdings cover 100 percent of the liabilities.

²²State and Local Public Pension Funding: Theory, Evidence, and Implications, Ph.D. dissertation, Harvard University, 1983. cited in Herman B. Leonard, *Unchecked Balances: The Quiet Side of Public Spending*, New York: Basic Books. 1986. pp. 34-35. Based on his review of other evidence, Leonard suspects that Arnold's estimates may even be too optimistic.

²³Leonard, *Unchecked Balances*, p. 35.

²⁴McDonald, The Price of Punishment, note 12, Chap. 2.

²⁵Ibid., pp. 112-113.

²⁶The total pension cost and part of the fringe costs that were not included in the department's budget represented 46 percent of the uniformed officers' salary payments, and 30.5 percent of the civilians'. (Letter dated January 20, 1988, from Judith Keefer, City of New York Department of Correction; the equivalent rates in fiscal year 1978 were 42.5 percent and 32 percent, respectively.)

HOW MUCH HIGHER ARE REAL COSTS LIKELY TO BE?

Several studies give an indication of the difference between true costs and what correctional authorities perceive as the costs of jailing. Funke and Wayson (1977) estimated that operating costs of local jails in the state of Washington were underreported by 28 percent.²⁷ A 1982 study by the Center for Justice Planning, conducted for the National Institute of Corrections, computed costs and found an identical underreporting of expenditures for 34 "constitutional" jails in the figures correctional administrators provided.²⁸ McDonald found that about 36 percent of estimated total expenditure for New York City's jail operations was paid not by the Department of Correction, but by other agencies and other accounts, and that state prison costs were consequently underreported by about 22 percent. (The degree of underreporting-and the estimated total cost-would have been even higher had estimates of depreciation and the interest portion of the debt service been included.)²⁹ Roughly similar findings were also obtained in other studies³⁰

If audited and reported costs equal about 60 to 75 percent of total direct costs across the nation (which is not unreasonable to expect), the actual cost of operating public correctional programs is about 33 to 66 percent higher than is usually reported.³¹

HOW MUCH AND WHY HAVE COSTS GROWN SO RAPIDLY?

Even though the periodic surveys of correctional costs provide incomplete information on total costs of operations, they do provide a good picture of how costs have changed in recent years. The most reliable source is the Bureau of the Census's annual survey of government finances, whose accounting methods have been consistent from year to year, except for a change adopted in 1971.

Operating costs nationwide, exclusive of capital expenditures, increased 470 percent between 1971 (the first year when operating and capital costs were reported separately in government reports) and 1985. Growth was fastest at the federal level, where a 532 percent increase was posted during this period, although spending in the federal system is only about 1/20 of the expenditure at state and local levels. Growth at the state level was also explosive: 519

²⁷G. S. Funke and B. L. Wayson, *Comparative Costs of State and Local Facilities*, Washington, D.C.: Correctional Economics Center, 1977.

²⁸ The Costs of Constitutional Jails, Washington, D.C.: National Institute of Corrections, 1982, p. 24.

²⁹McDonald, The Price of Punishment, p. 112.

³⁰Coopers and Lybrand, *The Cost of Incarceration in New York City*, Hackensack, N.J.: National Council on Crime and Delinquency, 1978; and G. P. Falkin et al., *Revising Connecticut's Sentencing Laws: An Impact Assessment*, Alexandria, Va.: Institute for Economic and Policy Studies, 1981.

³⁰The use of these two percentages may seem contradictory, but if 75 percent of the total +F 1 cost of a program is covered by a department's budget, the 25 percent not counted is equivalent to 33 percent of that budget. If 60 percent is budgeted, the uncounted 40 percent equals 66 percent of it.

percent during this 14-year period. This is especially significant because states shouldered the major burden of correctional spending.³² Local spending for correctional operations also increased substantially, by 385-percent (see Table 1).

The big boom, however, was in capital spending. Correctional agencies at all levels of government scrambled to purchase, build, and rehabilitate facilities to handle their swelling client populations. Between 1971 and 1985, state governments spent a total of \$6.05 billion for capital outlays (not including the cost of servicing the debt on borrowed capital). Local governments during this period spent approximately \$3.8 billion, most of it for prisons and jails. In 1977, 92 percent of all capital outlays in corrections by state and local governments combined went for institutional expansion and improvement. In 1985, institutions commanded 99 percent of all capital spending. By that year, annual capital expenditures were about 700 percent higher than they were in 1971.

What accounted for these enormous increases? In large part, the increase was illusory: Costs rose as the dollar's purchasing power dropped. The value of the dollar eroded only slightly between 1952 and the mid-1960s, but an inflationary surge was ignited in the latter years of that decade when federal spending for domestic and military purposes far exceeded available tax revenues. Inflation proceeded apace throughout the 1970s and into the early 1980s, so that by 1985, a 1971 dollar was worth only 38 cents. Three-quarters of the increase in correctional spending between 1971 and 1985 was due, consequently, to inflation and the dollar's corresponding loss of purchasing power. The "real" increase in correctional spending, deflated for inflation, was therefore 122 percent for operations, rather than 470 percent (the increase not adjusted for inflation). Annual capital spending was really about 200 percent higher in 1985 than in 1971, not the 700 percent reflected in the dollar differences.

This real doubling of spending for operations between 1971 and 1985 resulted mainly from the growing offender population and correctional workforce. The numbers of offenders (adults and children) incarcerated increased 102 percent.³⁴ Probation and parole populations increased significantly, but the size of that change cannot be computed, because no surveys of probation and parole populations were made between 1965 and 1976. The workforce grew correspondingly. In October 1971, the Bureau of the Census counted 177,600 correctional

³²In fiscal year 1985, state governments paid the lion's share of all corrections costs-62 percent. Counties footed the bill for 24.5 percent, and the remainder was split between municipal governments (8.1 percent) and the federal government (5.4 percent) (see Table 1). In all, corrections expenditures represented about 28 percent of all civil and criminal justice spending that year (which totaled \$45.6 billion) and approximately 0.8 percent of direct governmental expenditures for all purposes. (Computed from data in "Justice Expenditure and Employment Final Report, 1985," Tables 1 and 2.)

³³Expenditure and Employment Data for the Criminal Justice System: 1977, Tables 48, 49, and "Justice Expenditure and Employment Final Report, 1985," Tables 42, 43.

³⁴State and federal prison populations increased 154 percent and jail populations increased by about 77 percent, while the numbers of children in custody declined by 14 percent. Bureau of Justice Statistics Bulletins, *Prisoners* 1925-81 (1982). *Prisoners in 1985* (1986). *Children in Custody* (1986), Washington, D.C.: U.S. Department of Justice; 1971 jail data estimated. from 1970 and 1972 census figures, reported in Margaret Cahalan, "Trends in Incarceration in the United States Since 1880," *Crime & Delinquency*, 25, 1979, p. 14; 1971 figure on children in custody and 1985 jail population from personal communication with BJS personnel.

Table 1

DIRECT EXPENDITURES FOR CORRECTIONAL OPERATIONS
AND CAPITAL OUTLAY: 1971-1985

(In \$ thousands)

	Actual Costs		Inflation-Adjusted Cost in Constant 1971 Dolla	
Level	Operations	Capital	Operations	Capita1
1971				
Federal	106,024	4,777	-	-
State	1,179,821	143,283	-	-
Local	788,215	68,953	-	-
1972				
Federal	125,524	7,748	121,507	7,500
State	1,270,238	107,538	1,229,590	104,097
Local	840,037	71,245	813,156	68,965
1973				
Federal	149,474	21,380	136,171	19,477
State	1,435,259	98,661	1,307,521	89,881
Local	943,285	92,149	859,333	83,948
1974				
Federal	170,133	44,396	139,679	36,449
State	1,688,071	124,458	1,385,906	102,180
Local	1,091,427	121,911	896,062	100,089
1975				
Federal	196,009	20,769	147,399	15,618
State	2,015,826	177,174	1,515,901	133,235
Local	1,283,389	150,147	965,109	112,911
1976				
Federal	242,886	13,466	172,692	9,574
State	2,276,335	198,448	1,618,474	141,097
Local	1,485,243	169,134	1,056,008	120,254
1977				
Federal	253,555	45,163	169,375	30,169
State	2,561,067	285,953	1,710,793	191,017
Local	1,609,475	178,853	1,075,129	119,474
1978				
Federal	305,314	31,860	189,295	19,753
State	2,855,318	321,645	1,770,297	199,420
Local	1,813,931	194,642	1,124,637	120,678
1979		,		,
Federal	324,582	29,379	181,582	16,393
State	3,173,302	358,197	1,770,703	199,874

Table 1 (continued)

	Actual	Costs	Inflation-Adjusted Costs in Constant 1971 Dollar		
Level	Operations	Capital	Operations	Capital	
1980					
Federal	375,000	12,000	184,125	5,892	
State	3.693,931	563,578	1.813.720	276,717	
Local	2,030,232	226,010	996,844	110,971	
1981					
Federal	403,000	10,000	179,335	4,450	
State	4,203,970	639,887	1,870,767	284,750	
Local	2,321,014	290,951	1,032.851	129,473	
1982					
Federal	499,000	14,000	209,580	5,880	
State	4,887.192	672,600	2.052.621	282,492	
Local	2,638,840	337,315	1,108,313	141,672	
1983					
Federal	555,000	21,000	225,885	8,547	
State	5,610,585	712,655	2,283,508	290,051	
Local	2,990,917	512,206	1,217,303	212,131	
1984					
Federal	632,000	49,000	246,480	19,110	
State	6,313,548	847,262	2,462,284	330,432	
Local	3,328,554	598,537	1,298,136	233,429	
1985					
Federal	670,000	50,000	251,920	18,800	
State	7,304,000	1,066,000	2,746,304	400,816	
Local	3,826,000	633,000	1,438,576	238,008	

NOTE: The figures for 1985 differ from those published by the Bureau of Justice Statistics in Justice Expenditure and Employment, 1985. BJS figures for 1985 were obtained from a special survey by the Bureau of the Census, using the methodology of the 1971-1979 Expenditure and Employment in the Criminal Justice System series. That series was discontinued in 1979, so expenditure amounts were obtained from the Bureau of the Census' general surveys of government finances. The Bureau modifies these data each year for the BJS to publish in its post-1979 Justice Expenditure and Employment series, but the methods of data collection and analysis differ from those used in the earlier series. For the sake of consistency, I have used the 1984 and 1985 Bureau of the Census figures from the general government finance survey rather than the 1985 figures from the special survey done for the BJS.

SOURCES: All 1971-1979 data from various annual reports in the Expenditure and Employment Data for Criminal justice System series, Washington D.C.: U.S. Department of Justice (1971: Tables 4, 5; 1972: Tables 4, 39; 1973 through 1975: Tables 4, 39; 1975: Tables 4. 40; 1976: Tables 4A. 45; 1977: Tables 4. 47; 1978: Tables 4A. 47; 1979: Tables 4, 44). 1980-1984 federal data and 1982-1984 state/local data from unpublished sources provided by US. Department of Commerce, Bureau of the Census. 1980-1981 state and local spending from justice Expenditure and Employment Extracts: 1980 and 1981, Washington, D.C.: U.S. Department of Justice, 1985, Tables 2 and 21. 1985 data from U.S. Bureau of the Census, Government Finances in 1984-1985, Washington, D.C.: U.S. Government Printing Office, 1986, Table 8

workers at all levels of government in the adult and juvenile systems. By 1985, the number had grown by 120 percent, to 394,700. The cost of that larger labor force increased at a slightly slower rate. October payroll costs had risen 115 percent in real terms between 1971 and 1985, from \$129,119,000 to \$277,285,000 in constant 1971 dollars.³⁵ Higher manpower costs thereby account for much of the increase in the real cost of operating correctional facilities during that period.

Changes in capital spending are explained by a different dynamic. In the late 1960s and early 1970s, the combined state and federal prison population was stable, having declined from the 1961 peak of 220,000 prisoners. During the mid-1980s, in contrast, prisoner populations were swelling at a fast clip, and money was needed to build or acquire tens of thousands of new cells each year.

THE IMPACT OF LITIGATION ON CAPITAL SPENDING AND OPERATING COSTS

Capital spending was also spurred by court orders to improve conditions in prisons and jails and to relieve overcrowding. Precisely how much more costly correctional services have become as a result of judicial intervention is not known in the aggregate, but we have some indications. Harriman and Straussman examined spending for capital and agency operations in 14 state prison systems that were ordered by the courts to improve conditions prior to 1979. They found marked increases in capital spending in 12 of the 14 in the years following imposition of the order, above and beyond what would have been required to accommodate larger inmate populations at the levels of service that prevailed before the orders. The increase in annual capital expenditures per state prisoner during the third through fifth years following the court order averaged 164 percent. (Wyoming increased its per-prisoner capital expenditure by 744 percent.) The 14 states as a group had significantly more ambitious plans on the drawing boards in 1979 than were found in other states that were not laboring under a court order at that time.

Operating costs also increased, although Harriman and Straussman measured this increase not in per-capita terms but in the proportion of total state operating expenditures dedicated to state prisons. During the third through fifth years following the courts' decisions, state prison budgets represented an average of 10.7 percent of the total states' budgets for operations, an increase of 7.1 percent, on average, over budgets adopted during the five years before the decisions came

³⁵Payrolls, in constant dollars, did not rise as high as the number of workers. Adjusting for inflation, the average per-capita payroll cost in October 1985 was 4 percent less than that in 1971. This means that the correctional workers' pay raises did not keep ahead of inflation during this period. (Computed from data in U.S. Department of Justice, Bureau of Justice Statistics, *Justice Expenditure and Employment in the United States*, 1971-79, Washington, D.C.: U.S. Government Printing Office, 1984, Table 7, p. 41; and "Justice Expenditure and Employment Final Report, 1985," Table 4, p. 3.

³⁶Computed from data in Linda Harriman and Jeffrey D. Straussman, 'Do Judges Determine Budget Decisions? Federal Court Decisions in Prison Reform and State Spending for Corrections,' *Public Administration Review*, 43, 1983, Table 1.

down. Litigation was more prevalent before 1979 in those states that spent less on a per-capita basis, and the litigation brought expenditures in these states closer to the levels found in states not faced with court orders. (Per-capita costs, degree of-overcrowding, and incarceration rates were strongly correlated, according to a study of prisons in 1977 by Mullen and Smith. States with high incarceration rates-most of them in the South-were more likely to be overcrowded at the time and had lower per-capita prison costs.)³⁷

THE EXTENT AND CAUSES OF VARIATION IN PRISON COSTS

Even though litigation may have reduced the variation among states in percapita expenditures for imprisonment, wide differences remain. Table 2 shows the approximate fiscal year 1985 per-prisoner operating costs in state and federal departments of correction. These costs were derived from information about agency budgets rather than audited expenditures, and no adjustments were made to improve the estimates of the full direct costs because of the lack of sufficient information.³⁸

Although the deficiencies in the data obscure the true range of variation in percapita costs in the U.S. prison systems, it is nonetheless clear from Table 2 that the differences are substantial. The most expensive system in the country (Alaska's) was 4.5 times more costly than the least expensive (Mississippi's). The estimated average per capita expenditure, based on the available data, was \$18,217. Several states showed per-capita costs substantially below and above that mark.

These differences stem primarily from the cost and utilization of staff labor-a key resource in corrections. Table 3 compares the most expensive systems with the least expensive during fiscal year 1985, based on the average starting salary in each state, after the probationary period of employment, and the ratio of line-level, nonsupervisory staff to inmates in each state.³⁹ The average post-probation starting salary in the most expensive states for which we have data was \$18,222, and the average inmate/staff ratio was 3.5 to 1. In the least costly systems, the average starting salary was \$13,488 and the average inmate/staff ratio was 6.3 to 1.

A statistical study of interstate variation in per-capita imprisonment costs conducted in the late 1970s found that 85 to 90 percent of this variation could be accounted for by differences in inmate/staff ratios and average entry-level

³⁷Joan Mullen and Bradford Smith, *American Prisons and Jails*, Vol. III, Washington, D.C.: U.S. Government Printing Office, 1980, p. 117.

³⁸They also had to be recomputed from tables in *The Correctional Yearbook* because capital costs were not excluded from operating expenditures in the table and were consequently included in the average per-capita cost.

³⁹Average staff salary would have been the better indicator of labor cost, but these figures are not readily accessible. A survey published in January 1987, "COs in Demand in Many States," *Corrections Compendium*, pp. 9-11, probably undertaken in late 1986, lists average salary and starting salary, but the response rate from state departments was too low for the survey to be useful here.

Table 2

APPROXIMATE PER-CAPITA OPERATING COSTS TO DEPARTMENTS OF CORRECTIONS: STATE AND FEDERAL ADULT PRISON SYSTEMS, FY 1985

State	cost (\$)	State	cost (\$)
Alabama	12,213	Nebraska	20,718
Alaska	39,822	Nevada	9,910
Arizona	20,792	New Hampshire	23,529
Arkansas	$8,709^{a}$	New Jersey	24,174
California	21,589	New Mexico	33,635
Colorado	18,891	New York	19,611
Connecticut	16,109	North Carolina	13,622
Delaware	21,349	North Dakota	$13,174^{a}$
Florida	12,402	Ohio	10,873
Georgia	13,334 ^b	Oklahoma	17,626 ^b
Hawaii	17,915	Oregon	22,608
Idaho	13,459	Pennsylvania	13,491
Illinois	20,946	Rhode Island	19,638
Indiana	13,978 ^c	South Carolina	11,056
Iowa	24,859	South Dakota	11,926
Kansas	14,524	Tennessee	14,332
Kentucky	19,804	Texas	10,097
Louisiana	10,416	Utah	31,486
Maine	30,430	Vermont	27,189
Maryland	14,317	Virginia	15,920 ^b
Massachusetts	25,052	Washington	24,370
Michigan	23,842	West Virginia	11,926
Minnesota	20,412	Wisconsin	19,524 ^d
Mississippi	8,501	Wyoming	$13,255^{e}$
Missouri	12,170	Federal BOP	14,806
Montana	12,353 ^d		

NOTE: Coats computed, unless otherwise specified, from operating budgets and average daily populations reported by departments to the Criminal Justice Institute and published in *The Corrections Yearbook*, South Salem, NY: Criminal Justice Institute, 1986, pp. 8-9, 22-23.

^aComputed from operating cost in American Correctional Association, *Directory 1986*, p. xi.

^bFY 1985

 $^{\rm c}$ Computed from data provided by the Indiana Department of Corrections.

^dPer-capita cost could not be computed for lack of information on operating costs of adult system; figures here were submitted by departments and reported in *The Corrections Yearbook*.

^eComputed from figures for state penitentiary only; excludes female and juvenile corrections.

Table 3

PER-CAPITA COSTS, STARTING SALARIES FOR CORRECTIONAL
OFFICERS, AND LINE-LEVEL NONSUPERVISORY STAFF IN MOST
COSTLY AND LEAST COSTLY PRISON SYSTEMS: FY 1985

State	Per-Capita	Average Starting Salary (\$)	Inmate/Staff Ratio
	Most Costly	Prison Systems	
Alaska	39,822	26,520	4.1
New Mexico	33,635	14,576	2.7
Maine	30,430	NA	NA
Utah	31,486	17,701	5.0
Vermont	27,189	13,208	3.4
Massachusetts	25,052	25,206	2.6
New Jersey	25,174	19,312	3.2
Iowa	24,857	17,118	3.0
Washington	24,370	18,432	4.0
Michigan	23,842	19,377	NA
New Hampshire	23,529	15,652	3.6
	Least Costly	Prison Systems	
Missouri	12,170	14,292	33.0
West Va.	11,966	12,279	4.8
So. Dakota	11,926	11,274	5.1
So. Carolina	11,056	12,890	6.2
Ohio	10,873	15,038	8.2
Louisiana	10,416	13,620	3.5
Texas	10,097	18,792	5.2
Nevada	9,910	17,201	6.0
Arkansas	8,709	13,316	5.8
Mississippi	8,501	12,857	6.5

SOURCES: See notes to Table 2 for per-capita costs; salary and staff/inmate ratio information from Criminal Justice Institute, *The Corrections Yearbook 1986*, pp. 40-42.

salary. Whether this relationship still holds so powerfully has not been tested, although it is likely that the findings would be similar.

COST VARIATION WITHIN A SYSTEM: IS THERE AN OPTIMAL SIZE FOR FACILITIES?

Costs also vary substantially from one facility to another within a single prison system. These differences are clearly related to many of the same features that produce differences among state systems. In a study of fiscal year 1978 costs in New York State's prison system, which had 32 facilities at the time, McDonald found that larger prisons were less expensive on a per-prisoner basis, on average, than smaller ones. In addition, the average per-capita cost of operating maximum-security prisons was lower than the cost of minimum-security camps, which in turn were less expensive than medium-security facilities. Community-based work-release facilities were the most expensive to operate that year, on the whole. These cost differences resulted in large part from variations in the way each type of facility was staffed. Maximum-security prisons were larger, on average, and had fewer staff persons for each inmate than other facilities. As the staff/inmate ratio increased, so did cost.

Examining cost variation among different types of facilities within a single system raises an interesting question: Is a prison of a particular size more cost-effective than others? The unit cost of a wide variety of goods and services produced by private firms decreases as output grows, up to a certain level of production, and then begins to increase. In other words, increasing output permits a firm to achieve economies of scale up to the point where the cost per unit stabilizes. The finding that larger prisons are cheaper on an average per-capita basis suggests that economies of scale can also be achieved in the provision of correctional services. Is there an optimal size for a prison, from the point of view of operational costs?

Because prisons differ from one another in a variety of important ways in addition to population size, this question cannot be answered unless one holds constant the effects of all dimensions except for size and cost. One early attempt to do this was Block's application in 1976 of microeconomic theory to data on California prisons and jails. He found some evidence that unit costs varied according to the size of the prisoner population when several other features of prisons were held constant. He recognized, however, that his analysis was extremely tentative and that the findings were only suggestive. ⁴² In their 1984 study, Schmidt and Witte analyzed facilities in the Federal Bureau of Prisons and

⁴⁰Mullen and Smith, American Prisons and jails, p. 369.

⁴¹McDonald, *The Price of Punishment*, pp. 17-23. Depreciation and the interest potion of debtservice charges were not included in the computations of costs. Had they been, the operating costs of maximum-security facilities would have been somewhat higher, and the gap between them and the cost of other facilities wider.

⁴²Michael K. Block, *Cost, Scale Economies, and Other Economic Concepts,* Washington, D.C.: Correctional Economics Center, American Bar Association, 1976.

concluded that "prisons are cheapest to run when they are quite large but not behemoth."⁴³ The statistical tests they applied to cost and program data revealed that the cost per capita decreased as a function of population size until the number of prisoners reached about 900. Above 1,300 prisoners, per-capita costs began to increase. Schmidt and Witte concluded, therefore, that the optimal size for a prison, from the perspective of cost, is one that houses between 700 and 1,500 inmates. Moreover, their findings indicated that percapita costs are lower, other things being equal, if inmates are given relatively ample living space, are housed in single cells, and have fewer sanitary facilities available. These data support the notion that it is not cost-effective to squeeze more prisoners into smaller spaces (probably because staffing costs will rise in these circumstances). The authors indicate that prisons of the commonly preferred size, i.e., holding approximately 500 persons, will be less efficient than larger-sized ones, but they also recognize that such prisons may be desirable for reasons other than pure cost-based efficiency. 44 These studies raise important questions that are not fully answered, because the logic of the analyses-using microeconomic theories of profit-seeking firms to understand public agenciesinvolves taking some large leaps. Rather than accepting the finding that 700- to 1,500-bed facilities are more cost-efficient in all systems and adopting this as a design principle, corrections policymakers should undertake similar studies of other systems to clarify the relationship between size and cost.

THE COSTS OF IMPRISONING ADDITIONAL PEOPLE AND SAVINGS FROM DECARCERATING OTHERS

A related matter that deserves systematic research, and one that is now poorly understood, is the marginal cost of imprisoning additional persons and the marginal savings of imprisoning fewer. (Also poorly understood are marginal costs and savings of all types of correctional services, institutional and noninstitutional.) Estimates of these marginal costs are frequently computed to quantify the implications of changing policies. The most common method of such calculation is to determine the average annual or per diem operating cost of incarceration in the facility or system in question and then multiply this cost by the number of beds needed or not needed. Even if it were possible to determine the actual direct operating cost of a facility, this method would yield gross overestimates of costs or savings. Many costs are quite fixed and vary little with changes in inmate population. For example, adding ten, fifty, or even a hundred inmates to a medium-sized prison generally requires no larger administrative and support staff. The cost of equipment, for example, remains relatively fixed. But other costs, e.g., those of food, medicines, and personal effects, vary more directly with changes in population levels. Because so many of the costs of imprisonment are relatively fixed, the cost of adding additional prisoners is actually much less than the average cost per prisoner in a facility. The same

⁴³Peter Schmidt and Ann D. Witte, *An Economic Analysis of Crime and Justice*, Orlando, Fla.: Academic Press, Inc., 1984, p. 355.

⁴⁴Ibid., pp. 357-363.

holds for the reverse dynamic: The marginal savings incurred by not incarcerating or decarcerating prisoners is much less than the average cost.

To determine the marginal cost of producing one more unit of output-in this case, incarcerating one more prisoner-one must know how each of the various cost components in the correctional system varies as the number of inmates changes. Because certain economies of scale might be achieved for some of these components, we cannot assume that the marginal cost is exactly the same at any and all population levels. For example, if a facility is fully staffed but operating at 80 percent of capacity, the marginal cost of housing more prisoners will be very low. The marginal cost of adding prisoners to a facility operating at or above capacity will typically be higher, especially if staffing levels have to be increased. Moreover, the way costs vary will depend upon a variety of factors that are peculiar to the correctional system in question-staffing policies are especially important here because 'staff salaries, fringe benefits, and retirementfund contributions represent such a large proportion (typically around threequarters) of all operating costs. It is therefore not possible to assert that the marginal cost of adding one more prisoner (or the marginal saving of subtracting one) is some specifiable percentage of the average cost in all jurisdictions. Analysis of costs in the particular system or facility in question is needed. Given the intense interest- in correctional costs and the consideration given to different penal strategies, it is remarkable that so little attention has been given to the analysis of marginal costs.⁴

THE FUTURE OF CORRECTIONAL COSTS

In 1984, Rich and Barnett produced estimates of future state prison populations, using a mathematical model that extrapolated crime, incarceration, and demographic patterns found in eight sample states during the early 1980s to U.S. Bureau of the Census projections of population growth between that time and the year 2020. They concluded that prison populations would continue to rise into the early 1990s. The 'birth dearth' that followed the post-World War II baby boom would then begin to affect prison admissions, and the number of persons behind bars would decline slightly for about a decade. Around the turn of the century, levels were predicted to rise again and continue upward through 2020. This paralleled and extended Blumstein, Cohen, and Miller's projections for Pennsylvania, which forecast a similar decline starting in around 1990.

⁴⁵For a plain-English discussion of marginal costs, see Funke and Wayson, "What Price Justice?" More technical discussions are given in Block, *Cost, Scale Economics, and Other Economic* Concepts, and Schmidt and Witte, Economic Analysis. For an example of estimating the savings incurred by diverting specified numbers of offenders from jails into nonincarcerative sentencing options, see Douglas Corry McDonald, *Punishment Without Walls: Community Service Sentences in New York City*, New Brunswick, N.J.: Rutgers University Press, 1986, pp. 190-263.

⁴⁶Thomas F. Rich and Arnold I. Barnett, "Model-Based U.S. Prison Population Projections," *Public Administration Review*, 45, November 1985, pp. 780-789.

(Blumstein and his colleagues made no guesses about what would happen in the twenty-first century.) 47

Reality has had a habit of outstripping forecasts, however, at least with regard to prison population projections. Rich and Barnett forecast a slightly less than 10 percent increase between 1983 and the point in the early 1990s when the predicted downturn is to occur. But by 1985, only two years later, state prison populations had increased by almost 17 percent. They estimated that by 2020, prison populations would grow between 20 and 25 percent over 1983 levels. But between 1983 and 1986 alone, those populations grew 30 percent. Similarly, Blumstein, Cohen, and Miller's earlier projection of Pennsylvania prison populations, based on models that fit 1970-1977 data quite well, badly underestimated subsequent growth. In contrast to the forecast population level of about 9,500 in 1985, there were 14,227 persons in prison by the end of that year-approximately 50 percent more than estimated.

The projections fell short partly because the forecasters could not anticipate changes in sentencing policy and partly because they did not capture adequately the subtle and possibly changing interactions among age, race, crime, and criminal justice processing. The prison population may taper off in the 1990s, but there are other forces at work which have not yet been included in model-based projections, and these forces may continue to propel population levels forward. For example, the baby boom never really stopped in the black and Hispanic. communities, and these groups will constitute an increasingly large proportion of the young male cohort in the coming decades. The number of young white non-Hispanic men in their twenties began to drop in 1984, but the cohort of blacks in their twenties will continue to grow until 1989 and will then diminish only very slowly. In 2005, for example, that number will be only slightly lower than current levels-about the same as in 1982.⁵⁰ (Projections of Hispanic populations were not available at the time of this writing, but Hispanic birthrates have been higher than those of white non-Hispanics.) Because young black and Hispanic men have higher arrest and incarceration rates than whites. and because there is some evidence that those rates are increasing⁵¹-perhaps the result of the worsening socioeconomic conditions of blacks and Hispanicsthe slowdown in prison populations that has been forecast may not come to pass.

⁴⁷Alfred Blumstein, Jacqueline Cohen, and Harold D. Miller. "Demographically Disaggregated Projections of Prison Populations," *Journal of Criminal Justice.* 8. 1980. pp. 1-26.

⁴⁸BJS, *Prisoners in 1985*, p. 1.

⁴⁹Ibid., p. 2.

⁵⁰Computed from data in U.S. Bureau of the Census, *Estimates of the Population of the United States, by Age, Sex. and Race: 1980 to 1985*, Current Population Reports, Series P-25, No. 985, Washington, D.C.: U.S. Government Printing Office, 1986, Table 1.

⁵¹Van Alstyne's study found that the proportion of black males aged 16 to 19 arrested for a felony in New York State increased 23 percent between 1970 and 1984. Even more troubling was the increase in felony arrest rates for those who already have prior felony convictions on their record: about 150 percent for the 16 to 19 age group, and about 70 percent for those between 20 and 29. (Demographically Disaggregated Male Felony Arrest Trends: New York State (1970-1984). NYS Division of Criminal Justice Services, 1986, pp. 62, 72.) This latter trend is especially explosive in New York State because nearly all those convicted of a second felony must be sent to prison.

It is not difficult to imagine the US. prison population doubling in the next ten years. The current rates of growth are pointing in that direction. Without significant changes in sentencing policies, the demand for prison and jail cells will continue to rise. If the prison population doubles, state and federal governments will have to-construct in short order as many cells as now exist to handle the demand, to say nothing of replacing outworn or substandard facilities. The cost of this construction, based on a reported average cost per bed of \$51,000, will be approximately \$26 billion in constant 1986 dollars, exclusive of financing charges, for prisons alone. ⁵²

Jail populations have also been rising quickly: Between 1978 and 1985-the most recent years for which data are available-the number of persons held in jail has been increasing at an average of 8.8 percent per year. Jail populations will also double in a little more than a decade, if this rate continues. Assuming again an average construction cost of nearly \$49,000 per bed, doubling the size of America's jail capacity would cost approximately \$12 billion in constant 1986 dollars. The cost of operating both jails and prisons would thus probably be about double the current cost, in constant 1986 dollars.

These estimates assume no upgrading of existing facilities. Unfortunately, a large proportion of the existing correctional facilities do not meet accepted standards and are in need of capital improvement. A Bureau of Justice Statistics survey found that 62 percent of all inmates housed in state prisons were being held in units smaller than 60 square feet, the American Correctional Association (ACA) minimum standard. If new cells were built for all these inmates at the average cost of construction that prevailed in 1985 (as reported in *The Corrections Yearbook*), the total capital expenditure required would be about \$11 billion constant 1985 dollars, exclusive of financing costs and perhaps such additional costs as those of site acquisition and development. This is, admittedly, a very rough estimate, but it is probably in the ballpark. Although we cannot calculate similar estimates for jails because we lack recent data on space utilization, it would be reasonable to assume that a very large proportion of all jails fall short of ACA standards and that the costs to remedy conditions would be counted in billions of dollars as well.

FOOTING THE BILL

Given these conditions, correctional administrators will find themselves in an increasingly tight bind, and the dilemma facing legislators will become sharper. State and local revenues are not increasing quickly enough to pay for these kinds of increases without other services being sacrificed.

⁵²Average cost per bed computed using data in *Corrections Compendium*. February 1988, p. 8.

⁵³Bureau of Justice Statistics. Jail Inmates. 1985. Washington, D.C.: U.S. Department of Justice; 1978 data from BJS, *Jail Inmates*, 1984.

⁵⁴ Population Density in State Prisons, Washington, D.C.: U.S. Department of Justice, 1986, Table 5, p. 4.

Between 1971 and 1985, corrections costs rose faster than any other category of state and local government spending. Whereas all state and local government expenditures combined rose at an average annual rate of 10.1 percent during this period; corrections costs grew 14.9 percent, on average, each year-50 percent faster.⁵⁵ These increases might have been taken in stride had not both state and local governments faced tightening restrictions on revenues.

Within a few years of the passage of Proposition 13 in California in 1978, 51 new expenditure controls or revenue restrictions were placed on state and local government spending powers. Personal income taxes were lowered in 35 states, and sales taxes were reduced in 19. Federal aid to these governments also began to shrink in 1980. Whereas the ratio of federal aid to state/local revenue had been rising for at least the prior 25 years, peaking in 1978 at 32 percent (a level three times higher than that of 25 years earlier), the federal government's general revenue-sharing program took several deep cuts, first during the Carter administration, and then during the Reagan administration. ⁵⁶ By 1986, the general revenue-sharing program was dead, and many local governments were left for the first time without any direct federal assistance.

In the early 1980s, many state and local governments were cutting budgets, incurring general fund deficits, and laying off workers. This was happening at the same time the demand for local assistance was increasing because so many people were being thrown out of work. Increasing corrections costs were consequently covered by pulling money out of other types of services and by raising local taxes. The trend toward reducing taxes was reversed, and a frenzied scramble for revenue ensued at both state and local levels.

Unfortunately, the ability to raise revenues locally depends upon the underlying health of the state's or locality's tax base. Many regions have not fared well in the recent economic recovery. Indeed, growth has been sluggish in many areas, with quite high unemployment rates (and, consequently, high demands for a variety of state and local services and assistance). Pains will therefore be the sharpest in this fend-for-yourself federalism in those many states that have high incarceration rates, poor populations relative to the rest of the country, and, by extension, weaker tax bases. Most Southern states are so characterized.

Local governments will fare worse than state governments, because their revenue bases are narrower, and local corrections will thereby face harsher conditions than state correctional agencies. According to the National Association of Counties' estimates, county-funded justice and public safety programs receive approximately one-third of all general revenue-sharing dollars. 58 With the decline of federal assistance, continued increases in local correctional costs will

⁵⁵J.S. Bureau of the Census, Government Finances in 1984-1985, Series GF85, No. 5, Washington, D.C.: U.S. Government Printing Office, 1986, Table B, p. XI.

⁵⁶Thomas R. Swartz, "A New Urban Crisis in the Making," *Challenge*, September/October 1987,

pp. 35-37. 57 John Herbers, "The New Federalism: Unplanned, Innovative, and Here to Stay," *Governing*, October 1987, p. 30.

⁵⁸Cited in Susan D. Crubb, "Huber supports justice programs before House," County News (newspaper of The National Association of Counties), October 5, 1987, p. 8.

have to be covered by cuts in other services or parallel increases in tax revenues, or both. In the poorer states, the limits on raising tax revenues are such that increased corrections spending will probably come at the expense of other services.

Barring dramatic reversals, corrections administrators will have to attend even more to the task of cost management, and legislators will have more difficult choices to make. It would seem that having more accurate information about costs, better reporting systems, and accounting methods better oriented to cost analysis in the public sector would be welcome, and perhaps even imperative, if corrections managers are to make intelligent decisions about how scarce resources should best be used.

•			

THE COST OF CORRECTIONAL SERVICES: EXPLORING A POORLY CHARTED TERRAIN

Alan M. Schuman Director, Social Services Division, Superior Court, District of Columbia

INTRODUCTION

This review is offered from the perspective of a community corrections policymaker. The primary focus will be on the research findings of Douglas McDonald's monograph and their relevance for corrections policies. My frame of reference spans more than 25 years as a practitioner and manager in all phases of the criminal justice system. My comments will include some general reactions to the monograph and a discussion of some of the specific findings and their potential implications.

GENERAL REACTIONS

McDonald has raised many relevant cost analysis issues that should be considered by every policy decisionmaker in the criminal justice system. Two words that come to mind when reflecting on this monograph are awareness and *comprehensiveness*.

The reader becomes aware of the many hidden costs that must be considered when calculating the total cost of correctional services and the wide diversity of cost analysis formulas used to prepare budgets in various jurisdictions. The author has made painfully clear the lack of any uniform formula for calculating correctional costs on a local, state, or national level. And I will consider a whole series of different questions when commenting on or reviewing correctional costs in my community.

McDonald suggests an accurate and comprehensive formula that should be considered as a standardized approach to analyzing correctional costs. We must all talk a common cost analysis language at federal, state, and local levels. At the very least, this monograph points **out** the lack of any systematic cost analysis of correctional institution building and correctional operations costs. It challenges us to abandon our old accounting methods and develop and adapt comprehensive and more accurate cost data.

The monograph is *comprehensive* in that it addresses implicit correctional costs that result from current policy concerning significant issues. Such issues include the impact of litigation and its cost for operating correctional institutions, optimal correctional facility size, the hidden and often uncalculated pension and fringe benefit costs, and privately financed and managed correctional facilities. These issues are rarely discussed in cost analysis and cost effectiveness terms. Readers are made aware of criminal justice cost issues facing us today and in the future.

28 ALAN M. SCHUMAN

The author graphically pictures the enormously spiraling costs involved in continuing to build correctional facilities at the currently projected rate. These costs do not even include the cost of improving current correctional facilities to the level of the American Correctional Association (ACA) standards of acceptability. This cost was estimated to be \$11 billion in constant 1985 dollars, exclusive of financing costs and other costs such as those of site acquisition and development.

I cannot review this monograph without automatically thinking of sentencing alternatives as a realistic fiscal necessity for future correctional services. Such alternatives must provide protection and cost savings to communities while simultaneously reducing the likelihood of repeat offenses.

Although this cost analysis treatise gives little attention to front-end correctional services such as probation, the findings reported lead me to think of other options. The fact that probation issues are addressed near the end of the monograph is significant. As the author indicates, very limited cost analysis data are available. Nevertheless, the major front-end, or nonincarceration, sentence-probation-is presented after all of the discussion about incarceration, the *last* step in the criminal justice system. This is probably symptomatic of society's view of probation as a sentence. It increases my own resolve to address the major role that the many forms of probation must play in the cost analysis scenario and to remind the criminal justice decisionmakers of one of the most viable and cost-effective sentencing alternatives.

EFFECTS OF THE LACK OF COST DATA ON COMMUNITY CORRECTIONS

The lack of specific cost analysis data pertaining to probation is a reflection of the limited foresight community corrections leaders have shown. This monograph stimulates me to call for initiatives and indicators that will help to clearly define the cost of community corrections.

McDonald's monograph provides community corrections with an opportunity to improve its image. Precise cost analysis developed for community corrections through national associations such as the American Probation and Parole Association (APPA) and the National Association of Probation Executives (NAPE) would provide objective data for legislators to enable them to accurately weigh the alternatives when making budgetary decisions. This would have a very positive impact on the image of community corrections and would allow us to make budget presentations that reflect current sound business practices.

A standardized formula for analyzing and presenting the costs of community corrections would engender a higher trust level from legislators. Today, because of current accounting practices, corrections policymakers seldom include all of the hidden costs. This leads to public skepticism or perhaps even a perception of mismanagement. When all costs are included in reporting the actual cost of corrections, and these costs are made public, decisionmakers will be in a better position to consider community services costs and programs, Surely, this will

lead to more emphasis on early intervention alternatives. Diverting offenders from corrections at every entry point is the most cost-effective and safest solution for our 'communities.

McDonald makes brief mention of intensive supervision programs (ISP), specifically, the Georgia program, which has an annual cost of \$1,595 per probationer, as compared with \$275 for regular probation. These costs are dramatically lower than incarceration costs. Based on available data, the average per-inmate expenditure for incarceration in state facilities was \$18,217. This is approximately 11 times the cost of ISP.

Ironically, ISP is, in many ways, the original modem-day design for probation services. The new ISP concept actually depicts local communities' original image of how probation services should operate. ISP provides the type of comprehensive surveillance services, restitution payments, drug testing and treatment, employment verification, and networking with other community services that should be expected of all probation agencies that are adequately funded.

Analysis of the early data indicates that few new crimes are committed by probationers while in ISP programs. The preponderance of violations are technical and their enforcement is preventive in nature. Thus, the community is protected from additional crimes. Many ISP programs, including those in Georgia, New Jersey, Philadelphia, and the District of Columbia, actually select participants from institutional populations. If incarcerated populations are acceptable as probationers to those states and cities, surely the next logical step in an expansion of this design is to develop programs for all properly classified probationers.

As the community becomes aware of the fact that probation officers see probationers from five to seven days per week and have current information on their employment and substance-abuse habits, that probation officers randomly spotcheck probationers in their residences at any time of the day or evening, and that probationers are required to put in many hours of community service as one of the conditions of probation, a new sense of confidence in community corrections will begin to evolve.

In her report, *Expanding Options for Criminal Sentencing*, ¹ Joan Petersilia disclosed projections of prison populations in the larger states, showing an increase of from 25 percent to 98 percent over the next eight years. The accompanying spiraling costs of incarceration make the development of effective community correctional services an attractive and ultimate conclusion.

The challenge really falls on us, the community corrections managers, to insure that relevant program goals, objectives, and evaluation mechanisms are in place.

^{&#}x27;Published by The RAND Corporation, Report R-3544-EMC, November 1987.

30 ALAN M. SCHUMAN

Another of the findings. in McDonald's monograph dramatizes the futility of placing major emphasis on incarceration as the primary solution for treating and reducing future criminal activity. He reports that, using as the constant the 1971 dollar, the average 1985 correctional institution payroll is 4 percent less than it was in 1971. If salaries, correctional services, and institutional programs are not increased and staff/inmate ratios are becoming more unbalanced, how can we have any expectations for rehabilitation of the incarcerated populations who will eventually be released to the community? If we can be relatively sure that institutional resources are not increasing, then we can be equally sure that we will demonstrate no improvement over our 100-year history of not rehabilitating incarcerated offenders. We can also assume that the same approximate percentage of released offenders will again be incarcerated at additional costs to the taxpayers.

Since we are dealing with a finite number of dollars allocated to the criminal justice system, our direction should be toward more sophisticated front-end services. For every offender we can treat successfully in a community setting short of incarceration, we will be saving the taxpayers a considerable amount of money. Packaging our programs properly and using the cost analysis data presented in this monograph, we can be successful. Given McDonald's findings that local governments have a narrower or smaller revenue base from which to build or update institutions, community sentencing alternatives provide the only reasonable option.

LITIGATION: JUDICIAL RESPONSIBILITIES

The section of McDonald's monograph that discusses the impact of litigation and the cost of operating correctional facilities raises a provocative and fascinating issue. The data reveal that jurisdictions in which correctional systems are under court order evidence a considerable increase in correctional services and capital spending costs. We find that the courts-like the legislative and executive branches-are placing their emphasis on institutional correctional facilities and services, which constitute the last, most. severe, and most costly phase of the criminal justice system. What we continue to see is court-ordered services being placed on our least effective and most costly phase of the system. Should the judiciary, with its power to impose change, address the total system's needs? If the judiciary becomes involved, should it play a more proactive role in reviewing the quality of services of the total system, beginning with programs oriented toward diversion from the criminal justice system? With probation, pretrial services, and other community-based programs under the direct supervision of the judiciary in many jurisdictions, is the judiciary not, then, in an advantageous position to see the cost effectiveness of a balanced allocation of criminal justice resource dollars?

We cannot ignore the importance of judicial sentencing guidelines and their potential impact on the length of prison sentences. We cannot ignore the fact that many offenders are incarcerated because adequate probation services, drug treatment facilities, or proper mental health services are not available to them while they remain in the community. Many judges would welcome the

opportunity for offenders to pay their debt to society in a properly staffed and funded community setting rather than being incarcerated.

The legislative, executive, and judicial branches of local and state governments should jointly address the criminal justice system's problems. The cost-analysis issues McDonald addresses should play a major part in any joint planning efforts. Each branch of government has a major stake in the solution of the criminal justice system's problems and should, at the very least, have all available data present when making major policy decisions that impact so dramatically on the citizenry.

The monograph reports very limited cost-analysis data for probation and parole. This is a very significant statement in itself. As an administrator aware of the dearth of cost data for community corrections, I recognize that the lack of precise data could very well be one of the major reasons that community corrections-probation in particular-does not have the credibility to demand more funding. According to my experience, McDonald is incorrect when he reports that parole officers' caseloads are close to or exceed ISP levels, bringing the per-capita costs of parole to the approximate cost level of ISP. Most major ISP programs, including those in Georgia and New Jersey, have officer/offender ratios of approximately 1:15. Parole caseloads are significantly higher. Community-corrections administrators must advocate, in collaboration with national organizations including the National Institute of Corrections and the Bureau of Justice Statistics, a major effort to capture and tabulate standardized, consistent, and accurate cost-analysis data on community corrections. At the very least, communities should be aware of the cost implications to them in deciding on criminal justice issues.

ISSUES CONCERNING PRIVATELY FUNDED AND MANAGED CORRECTIONAL FACILITIES

The question of privately financed and managed correctional facilities is a major issue facing the public sector criminal justice system. This monograph focuses on the costs of correctional facilities, again the back end of the criminal justice system. It would have been particularly interesting to see some data on the costs of services provided by private vendors who contract these services to community service agencies.

In some communities, the partnerships established between private and public sector service providers represent some of the most innovative, cost-effective, and exciting service models. These partnerships have played a major role in preventing many offenders from being incarcerated. It is probable that information on the costs of private facility services is not readily available, especially at a national level. This should be a high-priority cost-analysis project.

The Prison Officers Association reported recently that some of its members had met with managers of private correctional institutions. Association officials visited three facilities. The first one, a facility in Northern California, houses about 80 parole violators; the second, a 350-bed detention facility in Texas, is

32 ALAN M. SCHUMAN

operated on behalf of the U.S. Immigration and Naturalization Service; and the third, a 360-bed prison in Tennessee, houses both male and female prisoners serving sentences of up to 7 years. The major conclusions reached were that these facilities (1) were not properly staffed; (2) lacked privacy for prisoners; (3) did not have adequate physical plants; (4) paid their staffs very low salaries; and (5) gave staff training low priority. In one facility, there was a not, with some signs that inmates were cruelly treated. I present these data to caution that costs are only one of the elements to be considered in operating a correctional institution that meets constitutional standards. Some correctional administrators are concerned that states will become dependent on the services of privately run facilities, after which the private institutions will increase their costs to the same or higher levels as those of publicly run institutions.

Privately financed institutions can cut costs by paying lower salaries and can reduce costs even further by providing no or minimal pension and fringe benefit packages. However, lower salaries could attract less-qualified staff who would require extensive high-quality training, and this would offset some of the cost savings. My personal observation has been that privately funded agencies offer lower salaries and have-very high staff turnover rates. In fact, many of the best qualified private sector staff eventually apply for public sector probation positions that offer more job security and higher salaries. The high turnover rate must impact the quality of services that are provided, a factor that should be considered in any cost-analysis formula.

Another problem facing private companies is the cost of insurance premiums. Insurance costs have more than doubled as a result of legal actions recently taken against private operators.

FUTURE CORRECTIONAL COSTS: POLITICAL ISSUES

The issue dealt with in the final section of the monograph-future correctional costs-is, in many ways, the most important issue and the one least likely to be predicted with any accuracy. The discussion of the projected overall population decline following the baby boom is quite relevant. An increase among black and Hispanic populations is projected. This could very well result in an increasingly larger proportion of young male offenders in the coming decades. This would have a decided impact on prison population projections.

To a large extent, the factors that work against future cost projections are found in the realm of political policy decisions. A good example is the issue of drug usage and distribution in major U.S. cities. The citizens of the District of Columbia have reacted strongly to rampant use and distribution of drugs, leading to the creation several years ago of an operation known as Project Clean Sweep. This project is a special-emphasis police operation that has aggressively joined the battle against street drugs. In many ways, it has been very successful; it has achieved nearly 30,000 drug arrests since its inception. At the same time, this has resulted in a tremendous overload to all phases of the criminal justice system-pretrial, probation, institutionalization, parole, and prosecution. At the end of 1987, approximately 75 percent of all probationers and

incarcerated offenders were serving time for drug-related offenses. The project to rid the community of drug users and distributors has been a major factor in increasing the numbers of offenders serving sentences in institutional settings. The resulting overcrowding has led to court-ordered institutional ceilings in nearly all of the institutions operated by the Department of Corrections.

An additional \$50 million has been earmarked to build an 800-bed rehabilitation facility. But the building of the facility is only the initial cost. The costs to operate and staff it must then be factored in. What if a policy decision were made to provide in-patient and out-patient intensive treatment services for drug offenders? This could have a major impact on correctional costs. As it is, the Department of Corrections' operating budget increased from nearly \$162 million in fiscal year 1986 to \$187 million in fiscal year 1987.

This example is given to emphasize the impact political decisions can have on correctional costs and on the size of prison populations.

In the District of Columbia, new legislation requires mandatory prison sentences for persons convicted of drug distribution. This has resulted in shifting the problem of drug distribution to the juvenile population. The increase in the number of juvenile convictions for drug distribution has increased nearly 200 percent in the last few years. What cost impact does this have on the juvenile justice system? How many additional man-days of costly institutionalization will result from this legislative change?

The movement toward federal, state, and local judicial sentencing guidelines to insure equity in sentencing practices among judges can also have a dramatic impact on correctional costs. How can we include sentencing practices in projections of future correctional costs? Various factors result in offenders falling into certain grid placements on sentencing guideline charts. What dramatic changes would occur in correctional costs if grids were modified to include more use of community corrections rather than incarceration? The financial impact would be considerable.

I have given an example from each of the three branches of government to emphasize a key point. Each body of government can and does play a major role in determining correctional costs.

While reviewing McDonald's monograph, I could not help but think of the importance of comprehensive planning and cooperation among the different branches of government in determining criminal justice policies. I could not help but think about a process in which goals and objectives are mutually decided by the three branches of government and then costed out in a careful and consistent manner.

Douglas McDonald is to be commended for giving us useful ideas for improving the accuracy of cost analysis and for bringing to our attention the importance of cost analysis in making criminal justice decisions.

CORRECTIONS "PROPORTIONATE VALUE"

Chase Riveland Secretary, Washington Department of Corrections

Douglas McDonald's paper adeptly documents the intricacies and dilemmas facing corrections professionals today in explaining to policymakers, and the public, the cost of doing business. Ironically, Albert Einstein was able to summarize an entire theory of relativity in the simple formula $E = MC^2$. In contrast, a formula for the "cost of corrections" today might well look like this:

COST = # of persons in age-at-risk x fixed variables x court-mandated conditions x bargaining-unit influence x sentencing policies x operant correctional philosophy x releasing practices x judicial trends x fringe benefits x management practices x unemployment rate x prosecutorial practices x law enforcement practices x perceptions of public opinion x economic conditions - # of diverted offenders, etc.

No wonder, as McDonald points out, we find it so difficult to assure lawmakers and the citizenry that the product or service they are buying is of value.

COST VS. PERCEIVED VALUE

According to successful marketing and sales persons, the consumer doesn't mind paying any price for something as long as he or she feels the cost and the value are proportionate. An economy subcompact and a Rolls Royce can both move a consumer from one location to another in about the same amount of time. Yet some consumers are eager to pay a much larger 'cost' for amenities that they value as proportionate, even if some of those amenities are intangibles, such as status, image, or recognition. Likewise, many citizens find it easier to believe that their neighborhoods will be safer, that retribution will more fully be exacted, and/or that crime rates will go down if more persons are incarcerated. The perception that they will be safer frequently leads citizens and lawmakers alike to be willing to pay the 'cost of corrections,' regardless of the dollar amount.

One optimistic hypothesis suggested in McDonald's paper is that a citizenry or lawmaking body enlightened by data on the 'real costs' of corrections would more rationally decide sentencing and correctional policy. Some undoubtedly would, but many would probably continue to pay any 'cost' as long as the perception of the 'proportionate value' remained the same. I would venture to guess that those persons buying a Rolls Royce would be little deterred by a \$5,000 increase in the cost of the same car. A painting and frame with a 'real cost' value of only a few dollars may well be purchased for millions by a consumer who attributes an intrinsic proportionate value to the item.

In one example of a legislative body's reaction to comparative investment of public dollars, the lawmakers were faced with the option of investing \$250,000

36 CHASE RIVELAND

in resources to conclude a condition-of-confinement suit or almost certainly investing three or four times that amount in legal fees to pursue further litigation. Despite all advice from legal counsel and corrections professionals, they chose the litigation route. Their collective interpretation was that the 'proportionate value" of not being "shoved around by a court" was worth the extra "cost." This scenario has repeated itself countless times across the country.

SHOULD THE EFFORT BE MADE?

Having made a case for the occasional irrationality of the consumer, I do not mean to suggest that more clearly articulating the "costs of corrections" specifically, and the cost of government in general, is less than a worthy goal. The lack of completeness and definition, and the similarity of "cost figures" within and across jurisdictions has hampered corrections practitioners in their efforts to compare facility designs and construction methods, actual costs of various corrections programs, and even such basic data as staffing ratios. Clearly, any efforts toward developing clarity in the "cost of corrections" would be useful in the day-to-day operational decisions corrections practitioners make, as well as in influencing public policy.

SAME DANGERS

If one looks at earlier efforts, however, one can become weary at the prospect of the process. Federal attempts to develop consistent reporting from states in programs ranging from Medicare/Medicaid to welfare programs to transportation systems have historically relied on one of three approaches: voluntary compliance, mandated compliance, or 'you won't get your money if you don't tell it to us this way." All of these approaches suffer from the different data, information, budgeting, and accounting systems operating in the states. The second and third options may partially influence changes toward congruent systems if the threat is sufficient or enough money is available, but few have been notably successful.

There are occasions when government, in its attempts to get a better handle on its costs, has simply driven the costs up higher by introducing more sophisticated accounting systems, which in turn require more highly skilled staff to operate them, driving the cost of administrative overhead continually higher.

Corrections practitioners who have contact with lawmakers-and who attempt to influence them-have for a long time used the "cost of corrections" in a variety of ways. On one occasion, I appeared before two different legislative committees on the same day. At the first-a sentencing policy committee that I was encouraging to consider a bill that would limit the number of persons incarcerated and would create new diversionary programs--I prophetically warned that failure to act would result in a future requirement for several new prisons at \$50,000 per cell in construction costs, followed by several millions of dollars annually in new operating costs. I also pointed **out** that investing in 'low-cost' diversion programs was a much 'better deal for the taxpayer' fiscally.

Later that same day, in an appearance before a committee controlling construction funds, I quite proudly described what fine and efficient people we were for planning and designing a new institution that could be erected for only \$48,000 per cell, much less than the national average for the same type of facility.

To use basically the same "cost" figures to encourage less incarceration in the morning and to enlist support for funding a new prison in the afternoon borders on being manipulative. Yet this is not uncommon.' Many jurisdictions and practitioners are trapped into trying to leverage all solutions at once in order to control or contain present and projected crises. In reality, I was simply trying to describe to two different groups of consumers the "proportionate value* of what they would be buying (or cost-avoiding). Such appeals are frequently made to persons who are primarily concerned with the 'proportionate cost" of something during a two- or four-year term of office, when many programs are competing for finite resources.

Fifteen-year cycle comparisons, "bow wave" costs, and comparative or ratioed statistics all may have little impact on a person whose priority is the next election. Specific committees, task forces, or staff groups may be well-informed and may pursue data-driven decisionmaking, but frequently the larger legislative (and/or executive) bodies are- driven by less rational "perceptual proportionate values."

THE OTHER DANGERS OF FIXATING ON THE COST OF CORRECTIONS

Many jurisdictions, facing spiraling construction and operating costs, procrastinate or simply don't make the necessary investments, even after establishing policy and laws that drive more and more persons into correctional custody. The resources don't follow the policy decisions. Probation and parole officers with unmanageable caseloads, overcrowded prisons and jails with high levels of idleness and a dearth of programming, and the intervention of the courts are the most frequent results of such behavior., In some instances, the practitioner who displays "correctional costs" in a well-intended manner is simply told to 'make do," with the underlying theme being 'wait until it's a crisis-then we'll deal with it.'

Presenting the "cost of corrections" by itself may set up a scenario in which existing resources are targeted for elimination as a result of an emotional reaction to the presented data. In one jurisdiction, for example, the operating budget of the correctional system increased by over 850 percent in a 7-year period. That fact presented by itself could make the system a prime target for those looking for "efficiency targets of opportunity." But that jurisdiction's entire state budget actually increased by 780 percent, the fringe benefit and retirement benefits of all state employees went up 910 percent (in total dollars),

¹Only the argument for the new prison was successful on the occasion described.

²"Bow wave" appears to be a Pacific Northwest budgetary colloquialism referring to decisions made today that will incur greater cost or will require increased funding in the future.

38 CHASE RIVELAND

and the costs of three other agencies increased at a rate that exceeded that of the corrections agency.

One also must remember that the hidden "costs of corrections," as identified by McDonald, also exist in other governmental programs. Fringe benefits, retirement funding, financing costs, and services from other agencies are in most jurisdictions equally "hidden" in elementary education, higher education, social service, and transportation agencies.

Finally, overreliance on "cost of corrections" data has driven many lawmaking bodies to look for cheap alternatives. Early release programs, privatization, boot camps, and an array of other temporary fixes have been adopted as quick, cheap fixes. Although some of these may be legitimate long-term pieces of a total solution, they usually surface in response to "cost of corrections" problems and allow jurisdictions to put off "biting the bullet" of making sound policy decisions that are data-driven, futuristic, and value-filled.

In general, the dangers of developing a **more** sophisticated system of determining the "cost of corrections" should not be prohibiters but, rather, possible results of which the practitioner must be aware. Conversely, the practitioner needs increasingly sophisticated cost-benefit information to manage wisely and to fulfill the public official's responsibility of providing the best service to the public as efficiently and effectively as possible.

THE COST OF COMMUNITY CORRECTIONS

Although frequently touted as a major part of "the solution" to major capital construction and ongoing institutional operating costs, community corrections programs (including probation/parole, community residential facilities, diversion, and early release programs) have risen and fallen in popularity like the tide.

Probation and parole, in particular, are referred to as part of the problem one day and part of the solution the next. Although the largest number of offenders in the country are in this type of correctional custody, the refrain of "probation (or parole, or rehabilitation) doesn't work" has sounded loudly. Most jurisdictions have allowed caseloads to rise so high, and have concurrently allowed standards to drop so low (while maintaining very high public expectations), that the predictions of the doomsayers are bound to come true. Only the intensive supervision programs seem to retain a semblance of what most community corrections practitioners would feel are adequate resources to truly provide for offender punishment, restitution, rehabilitation, and community safety. Yet, even when early release and diversionary programs become part of the "solution" to the overcrowding problem, the resources seldom flow proportionately to allow them to be fully or well done-or even fairly tested. Few courts have assisted probation and parole programs to obtain resources; rather, the courts have generally added an element of fear for the community corrections practitioners by finding them to be civilly liable when one of the many thousands of offenders goes awry.

Ironically, the most touted programs in the country have the resources only to see a client once or twice weekly, and the average "supervision" probably consists of seeing the average offender once a month or less. If the attempt to monitor, let alone modify, behavior is to be a serious one, a much greater investment must be made, although that investment would still be modest compared with the cost of building prisons. The correctional community, lawmaking bodies, and budget decisionmakers certainly have not followed a dollar-driven corrections-cost approach to resolving the corrections problem. The "perceptual proportionate value" has been not in synch with the displayed dollar costs or cost savings.

Washington State, as an example, chose in 1981 (effective in July 1984) to eliminate parole, the Parole Board, and what would typically be known as probation. With few exceptions, probation was reduced to loose "monitoring," the collection of court obligations, and a reasonably clear statement that neither treatment nor rehabilitation were to be expected, nor would violations result in significant sanctions. Will it work? The jury, and the statistics, are out.

What is known is that offenders will not be called to task for technical violations, so the recidivism statistics will improve. Caseloads have risen;⁴ public expectations haven't changed; yet authority, assumptions, and philosophy have been a collage of competing beliefs among a variety of interest groups, "the public" not being one of those actively involved.

WHAT IS UNADDRESSED?

McDonald's observations about unaccounted-for costs and differences between reported costs are for the most part quite accurate. He might also add several others, including the following:

- 1. State/local differences between jurisdictions. The length of time sentenced persons spend and the number (or percentage) who serve their sentences in local facilities versus state facilities vary greatly. The numbers of offenders supervised by state, county, and municipal "probation officers" also vary widely-as do the reportable costs.
- 2. *Standards*. The standards expected by different jurisdictions vary greatly, depending on jurisdictional expectations, involvement of the judiciary, state law, local expectations, etc.
- 3. Litigutive atmosphere. Although the "cost of corrections" has risen considerably due to a nationwide series of conditions-of-confinement/civil rights suits, at the state level the degree of tort claim liability varies dramatically. Some jurisdictions (state and county) spend considerable amounts of money on attorney general, in-house counsel, indigent defense, court time, and staff costs for defending against tort claims. Millions of dollars-some accounted for, a great deal invisible in correctional budgets-are expenditures for litigation, which differ widely by jurisdiction.

³Some sex offenders and first-time offenders.

⁴Although caseloads are now being lowered through "workload reduction plans," new resources, and a shift of standards.

40 CHASE RIVELAND

4. *Transportation costs*. In some states, sheriffs deliver newly sentenced prisoners to the state system; in others, the state system incurs the cost of pickup from county facilities. The geographic spread of correctional facilities also may significantly increase costs.

- 5. Revenues. Jurisdictions vary widely in the costs they recover. Supervision fees, board and room charges, corrections industries sales, agricultural product sales, surplus land sales, rental of "cell space," and the like all can lower the cost of corrections, but this revenue is seldom reported or deducted from expenditures.
- 6. Intangible cost savings. Some incapacitated offenders do not commit crimes while incarcerated or while being closely supervised because of that custody; some are rehabilitated; and some are deterred. How many? What is the dollar figure or "cost"? No one knows, but neither do we know the cost of those families thrown on welfare due to incarceration or that of people who might have been productive, tax-paying citizens if they were not incarcerated.

IS THERE SOMETHING THAT MIGHT HELP?

Certainly it is unlikely that a national reporting system will be developed that will assure standardized reporting of 'costs of corrections" in the near future. Yet the premise has merit, and the attempt is worthwhile.

It might well be useful to develop one or more *models* that would list the majority of costs and savings incurred by an average jurisdiction; other jurisdictions could then adapt the models by plugging in local ratios.

SUMMARY

Unquestionably, the issues that McDonald raises about the failure to explicitly state the "cost of corrections" are valid ones. And there is no question that practitioners, the public, legislators, and executive branch officials should all become knowledgeable about the facts relating to costs in order to manage, choose, legislate, and govern wisely and efficiently.

Yet a hidden assumption seems to be that if we have a better financial data, we all make-or influence-better decisions. Missing; or avoided, in the discussion are those things that fit into the "proportionate cost" argument. What really are our values? What do the people of our nation, states, counties, and municipalities expect regarding public safety, treatment of those arrested, convicted, or sentenced, and subsequent reintegration of offenders into our communities? How do these values rank with public interests in environmental preservation, health care, education, transportation, and economic development? Can it all be clarified by more explicit dollar statements? Does the Rolls Royce or fine arts consumer hesitate over the cost of something he finds to be of "proportionate value?"

Our problem in the era of the willing consumer may be not so much to affix the 'proportionate cost" as to better determine the "proportionate value."

BIOGRAPHIES



Douglas C. McDonald

Trained as a sociologist at Columbia University, where he received his Ph.D.. Douglas McDonald specialized in what used to be called "political economy--the social/economic/political development of nations. He later became Interested in legal policy issues and began doing studies of criminal justice reform. In 1978. he became director of the Citizens' Inquiry on Parole and Criminal Justice, Inc., where he published several books. He then moved to the Vera Institute of Justice. a private research and criminal justice action organization in New York City. He is currently a senior social scientist at Abt Associates. Inc., a Cambridge-based research organization dedicated to research on a wide variety of social policy matters. His new book on private prisons and jails will be published later this year.



Alan M. Schuman

Since 1972, Alan Schuman has been the Director of the Social Services Division for the Superior Court, District of Columbia, responsible for adult, juvenile, and family social services for Washington, D.C. He was a staff member of the President's Crime Commission for the District of Columbia, 1965-67, and earlier served as Director of Youth Services and Superintendent of the Lorton Youth Center, Department of Corrections, Washington, D.C. He received his MSW in Psychiatric Social Work from Loyola University. Chicago, and is a Graduate Fellow of the Institute for Court Management. He has served for ten years as Co-Director of the National Center for State Courts/Institute for Court Management and Adult Probation Seminar. Mr. Schuman serves on numerous local and national boards relating to the criminal justice system and is a co-founder and former Vice-President of the National Association of Probation Executives.



Chase Riveland

Chase Riveland received his MSW from the University of Wisconsin in 1971. He is presently the Secretary of the Washington Department of Corrections. Prior to accepting this position, he served as Executive Director of the Wisconsin Division of Corrections. He has also held corrections positions of Superintendent, Regional Chief, Supervisor. and Probation and Parole Officer. Mr. Riveland has been associated with several major building and renovation protects. The Washington Department of Corrections is an integrated correctional system which includes community corrections, prisons, and industries.