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SERVICE INTEGRATION FOR DEINSTITUTIONALIZATION (SID)
REPORT OF A THREE-YEAR RESEARCH AND DEMONSTRATION
PROJECT. VOLUME 5. COST/BENEFIT ANALYSIS

VIRGINIA SERVICE INTEGRATION FOR DEINSTITUTIONALIZATION
PROJECT

PREPARED FOR
SOCIAL AND REHABILITATION SERVICE

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THE SID REPORT

VOLUME 5

COST/BENEFIT ANALYSIS

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SERVICE INTEGRATION FOR DEINSTITUTIONALIZATION

A Report of a Three-Year Research and Demonstration Project

This is Volume 5 of Eight Volumes:

- Volume 1: Summary
- Volume 2: Implementation Procedures
- Volume 3: Automated Information System
- Volume 4: Findings
- Volume 5: Cost/Benefit Analysis
- Volume 6: Legal Issues
- Volume 7: Plan for Extension
- Volume 8: Addendum

April 9, 1975

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Ever since the Garden of Eden man has been concerned with allocation problems created by scarce means and unlimited ends. Then it was allocating four fig leaves between two people; now it is spending billions of dollars to pacify millions of people.

Hanley H. Hinrichs

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I. INTRODUCTION

There is clearly a limit to resources available to state agencies for service provision. Agencies are mandated by state and federal statutes and regulations to provide certain services to specific client groups. Concurrently, funds available to pay for the services are regulated. Since resources are finite it is prudent that those available be utilized in the most efficient and effective way possible and that an accounting of the allocation be made.

Cost/benefit analysis is a useful tool for analyzing the economic results of a course of action. It does not, however, provide ready-made decisions since dollar valuations cannot be attached to every significant variable in the model. Also, while empirical in method, it does rest upon assumptions and projections.

The consulting firm of Booz-Allen-Hamilton, Inc. was contacted to work with project staff in developing a methodology for a cost/benefit analysis of the SID project.* The methodology was to be of sufficient detail to allow SID staff to conduct data entry and analysis independently.

This Volume presents SID's implementation of the cost/benefit methodology. There are three sections: methodology and assumptions underlying the model; results; discussion and conclusions.

* The full report entitled "Methodology for a Cost/Benefit Analysis of the Service Integration for Deinstitutionalization Project" was appended as Appendix Z to the January 1974 SID Progress Report.

II. METHODOLOGY

A. FRAMEWORK

The framework for the cost/benefit analysis is defined by four considerations:

- 1) the analytical question to be addressed which in turn depends on the goal and objectives of the SID project and on the intent of the analysis;
- 2) the point of view to be taken for defining costs and benefits;
- 3) the target group of clients to be studied using the methodology developed;
- 4) the time frame for the analysis.

Each element is discussed in turn.

1. Analytical Question

The central purpose of SID is to establish a systematic procedure for the orderly deinstitutionalization of residents of state institutions. That goal will be achieved when clients adjust to community living and do not return to institutions, when movement toward independent living situations is made by clients, when comprehensive and continued care of clients in a community setting are available, and when improved integration of community services takes place.

The SID model assumes that any person can reside in a community setting rather than a state institution, given sufficient service resources in the community. The analyt-

ical question is derived from the assumption that SID's systematic deinstitutionalization procedure is successful, i.e., that clients once placed in the community continue to remain there. In analytic terms, then, the question addressed by the analysis is: Do the benefits of deinstitutionalizing a client and maintaining him in the community, using the SID model, exceed the costs?

Formulation of the question in this manner results in a direct answer to the question of differential costs and benefits associated with community living versus institutional living.

2. Perspective

The choice of perspective depends primarily upon who is to use the cost/benefit analysis results and for what purpose. It is expected that persons at all levels of government will use them when confronted with the task of opting for or against programs geared toward deinstitutionalization. Thus, the costs and benefits of successful deinstitutionalization are classified from the perspective of society-at-large. Costs and benefits from other perspectives--such as federal, state, and local governments--are calculated separately so that costs and benefits for such subgroups are available.

3. Target Group

The target group of clients selected for the cost/benefit analysis are those mentally ill and mentally retarded clients who are judged to be successfully deinsti-

tutionalized. Juvenile offender clients have been excluded as explained in paragraph IIB below.

Recidivists are dropped from the analysis, as are clients judged likely to be re-institutionalized, since these persons represent a failure in the community services delivery system and an abridgment of the SID goal. The analytical question as defined (see paragraph IIA1, above) precludes inclusion of this group for the current analysis.

4. Time Frame

The time frame chosen must balance the necessity of including future streams of costs and benefits with the inherent risk of making projections.

It is tempting to select the term of the project as the time frame since this would allow exclusive use of empirical data and would not require reliance upon the uncertainties involved with projections into the future. However, that time period is too short to obtain a meaningful answer to the analytic question.

Adoption of the lifetime of the SID clients would have the advantage of accounting for all future cost and benefit streams. However, given the uncertainties of projecting housing, income, and other service needs over decades, a time frame of ten years (or the client's lifetime, if expected to be less than ten years) has been chosen.

B. EXCLUSION OF JUVENILE OFFENDER CLIENTS FROM THE TARGET GROUP

The analytical question and the time frame for conducting the analysis for mentally ill and retarded clients do not apply to juvenile offender clients. For the mentally ill and mentally retarded group, the cost/benefit method analyzes the economic consequences over a relevant period of time (ten years) of implementing one course of action (deinstitutionalization) versus another (continued institutionalization). With juvenile offenders, it is not realistic to assume that one alternative occurs to the exclusion of the other. The juvenile offender will be released at least at age 21.

The central economic question regarding the juvenile offender client group is:

Is there any long-term dollar advantage to releasing juveniles under a planned, service-integrating, service-monitoring procedure (such as SID) over releasing them without this kind of elaborate social machinery?

To answer this question, a longitudinal survey of many years duration is required. Thus, the juvenile offender client group has been excluded from the present analysis.*

C. STRATIFICATION OF DEINSTITUTIONALIZED CLIENTS

The net economic effect of the deinstitutionalization effort can be determined by analyzing the costs and benefits

* A methodology has been developed by Booz-Allen-Hamilton, Inc. and given to appropriate officials in the Department of Corrections for their consideration.

in the deinstitutionalization of a target group of clients. However, if the target group is analyzed only as a whole, valuable information about portions of the group may be obscured. For example, clients being supported by welfare versus clients being supported by their own earnings are likely to have very different costs and benefits from society's viewpoint.

The target group has been stratified by those factors most likely to affect the results and each stratum is analyzed separately. Three variables were judged to have the most influence on costs and benefits associated with deinstitutionalization and maintenance: housing, employability, and primary source of funds.

1. Housing

The client's type of housing is used as the primary indicator of level of disability. The types of living arrangements are grouped into three categories:

-Intensive Care (IN) (containing nursing home, home for adults giving close supervision, and training school for the blind)

-Intermediate Care (IM) (containing boarding house/residential hotel, home for adults giving moderate supervision, foster home, halfway house, V.R. residential facility, and group home)

-Family or Independent Care (FI) (containing relative/guardian's home or own home or apartment)

2. Employability

Prognosis for employment rather than employment status is used. If labor-market conditions are such that oppor-

tunities for employment exist and if the SID model is operating successfully in locating employment for clients, then employability will equal employment. Employability is more stable than employment as it is not affected by the success or failure of the model or society.

Employability is broken into three categories:

- Employable Full Time (FE) (the client is employable full time in a competitive environment)
- Employable Part Time (PE) (the client is employable part time in a competitive environment or is employable full/part time in a sheltered workshop)
- Not Employable (NE) (the client has physical, emotional, or mental problems that will most likely always preclude him from being gainfully employed)

3. Primary Source of Funds

Money payments to the client to be used at his discretion (as contributions toward housing or supportive services, or for food, clothing, or other necessities) are broken into two groups:

- Private (PR) (at least 50% of support comes from client's savings, assets, employment, family/guardian of client, Social Security income--earned or retirement, other disability benefits, or pension)
- Public (PU) (at least 50% of support comes from public assistance income grant, Supplemental Security Income, Medicaid, or Medicare)

The three variables just described, with their accompanying categories, form a matrix of 18 cells or strata. Some of the cells are realistically contradictory or non-plausible. For example, it is unlikely that there are

clients employed full time, living in intensive care arrangements, and receiving public (or private) funds. After exclusion of such cells, there are likely to be no more than 15 active cells. Since the number of clients in the target group is small, this "cell-loss" will enhance the analysis.

Data are collected and processed on a per client basis for each specific living arrangement, employment position, income source, and other service provided. As detailed in paragraph E, below, clients were assigned to strata when empirical data were collected for the last time (December 31, 1974). This procedure proved more reliable than trying to assign each client to a stratum when deinstitutionalization first occurred since there tended to be a "settling-in" period before a client's situation stabilized and his future became more predictable.

A major reason for stratification is to allow decision-makers to determine those types of clients for which it is relatively more cost/beneficial to implement a program of deinstitutionalization. Consequently, costs and benefits for each stratum are analyzed separately.

Clients may be expected to shift from one stratum to another across time. The decision-maker may need to know the extent of, and the economic implication of, this phe-

nomenon. Therefore, cross-tabulations are made to show the relationship between descriptor variables at the time of client release and at the time of projection.

D. COST AND BENEFIT ELEMENTS

Conceptually, specific cost and benefit elements result from effects or consequences of SID model operation. Since these effects are virtually limitless in number, the task becomes one of sorting, selection, and categorization to make the analysis manageable.

The myriad of SID model-associated happenings have been categorized into ten principal model effects which, from the perspective of society-at-large, were then classified as costs or benefits. There are six major cost elements and four major benefit elements. Some of these elements have been divided into smaller but distinct units (called "items") for clarification.*

1. Cost Elements

a. Community Supportive Services

These include costs or services provided by agencies, facilities and other organization to SID clients in the community for meeting their social, physical, psychological, and educational needs. Supportive services are arranged by SID on behalf of the client and are provided by community resource persons. Both ongoing service

* Appendix A contains a chart showing for each cost and benefit element and item its components and the terms included in each component.

delivery costs and the costs associated with start-up of services are included.

b. Client Maintenance

The housing and subsistence items comprising this element may not be mutually exclusive since some housing facilities also provide subsistence. They are separated for data entry purposes but are combined in the final analysis.

c. Service Integration Costs

This element includes personnel costs not included in Items 1a, 1b, or 1d incurred by SID staff, A&P teams, institution staff, and community service providers in the process of deinstitutionalizing successful clients and maintaining them in the community. Costs incurred during assessment, determination of placement, and client tracking and service monitoring of the target group are taken into account.

d. Deinstitutionalization Costs

These are the costs incurred by the institution in the process of releasing SID clients.

e. Lost Economic Productivity

This is an implicit cost element. Should the relative or guardian of a client decide to quit his job in order to care for the client, the lost labor represents a lost contribution to economic productivity.

f. Community-Related Costs

Intangible, external effects of the SID model which relate to the reactions of community citizens toward placement of SID clients in their community are included in this element. Fear, confusion, and misunderstanding are all feasible reactions which cannot be measured and assigned a commonly acceptable or reasonable cost.

2. Benefit Elements

a. Savings of Institutional Costs

If a SID client lives in a community rather than an institution, society saves the cost of providing institutional care for the client.

b. Increased Economic Productivity

This is the client's contribution to economic productivity, i.e., his or her labor valued as the market dictates.

c. Psychosocial (Client)

Improvements in a client's well-being resulting from community placement are intangible effects that can be quantified but not easily valued in dollars. SID does measure these effects but does not attempt to put a dollar value on them for purposes of the cost/benefit analysis.

d. Psychosocial (Community)

Community placement of SID clients and SID service integration efforts affect the community. There is, hope-

fully, an increased public awareness of the problems and needs of the mentally ill and mentally retarded client. Also, service providers may achieve greater integration and develop information upon which to base resource development. These benefits are not feasibly measured in dollar terms, however.

E. DATA COLLECTION AND ADJUSTMENTS

Empirical data for the cost/benefit analysis were collected from the time each client was first placed into the community until December 31, 1974. At the data cutoff date, housing, source of income, employability, and support service requirements were projected over the next ten years of the client's life.

Projected lifespans were determined on the basis of actuarial tables (Commissioner's Ordinary Table, 1974, Federal Tax Facts). Projections for each client's service requirements in the community were based on the empirical data gathered during his community tenure and on the judgments of SID staff and service providers working with the client.

Clients were assigned to strata and analysis of data proceeded on a per stratum basis.

Data were adjusted for a number of economic factors which could not be measured directly.

1. Fringe Benefits

These are considered to be a portion of the compensation a worker receives for his labor. Fringe benefit rates are included in the direct labor costs for all personnel who in one way or another serve the client.

2. Overhead

The overhead factor is applied to the direct labor costs of all employee groups thereby accounting for the additional indirect costs of providing a service.

3. Inflation

Costs and benefits incurred over a period of time change in dollar amounts as a function of inflation (or deflation). The rate or pattern of future inflation cannot be accurately estimated. Therefore, the analysis conducted disregards the inflation/deflation phenomenon.

Ignoring future inflation patterns does not detract from the quality of cost-benefit comparisons made in the analysis since there is no reason to assume that an increase or decrease in relative dollar values of costs versus benefits will occur over time.

4. Discount Rate (Opportunity Costs)

Capital invested in the past, when viewed in the present, has expanded in dollar amount because of investment earnings over time. Dollars invested in the future will have had no opportunity to accrue earnings. Because of this economic phenomenon, today's dollar is more valuable than the same dollar ten years from now over and above inflation reasons.

All monetary values in the analysis are treated in terms of today's dollars. To correct for the "lack-of-opportunity" of future dollars, these are discounted to present dollar values.

5. Adjustment Factor

In addition to the above adjustments, an "adjustment factor" is necessary to account for the cost of unrecorded, non-direct service delivery time spent in such activities as arranging for a service, determining client eligibility, producing reports, attending staff meetings, etc. The adjustment factor is estimated to be a percentage of direct labor costs and is a dollar value added to the documented costs of providing a specific service to a client.

F. SUMMARY

The purpose of the cost/benefit analysis in the SID project is to provide another tool for the evaluation of a service-integrating model for deinstitutionalization. The results can be interpreted only in the context of other data generated by the project.

The methodological approach addresses economically measurable costs and benefits incurred in the successful operation of the SID model in deinstitutionalizing and maintaining mentally ill and mentally retarded clients in the community projected over a period of ten years. Costs and benefits are determined from the perspective of society-at-large.

To refine the analysis, clients are stratified by housing, employability, and source of income. Clients are expected to occupy no more than 15 of the possible 18 cells.

Data are entered on an individual client basis for each of five cost and two benefit elements to which dollar values can be attached. (One other cost element and two benefit elements are intangible.) The dollar amounts used throughout the analysis are expressed in terms of today's dollar value and represent costs and benefits related only to the target group of successfully deinstitutionalized clients.

III. RESULTS

This section describes the resultant sample of clients included in the cost/benefit analysis, specifies the calculation methods associated with the analysis, and presents the cost/benefit findings.

A. SAMPLE

A total of 52 clients met the criteria for inclusion in the cost/benefit analysis. These clients were either mentally ill or mentally retarded and were judged to be and likely to remain successfully deinstitutionalized. Table 1 presents a breakdown of the sample of clients by institution

of residence prior to placement.*

The majority of the client sample came from Western State Hospital (WSH). This result is due largely to the fact that the processing of clients from that institution began several months before clients from Lynchburg Training School and Hospital or Southside Virginia Training Center entered the project and about one year before the first clients from Central State Hospital were processed.

Clients from WSH have, on the average, been residing in the community longer than clients from the other three institutions. (See Table 2.) The actual time spent in the community by individual clients ranges from one month to 18 months. The average length of time spent in the community for all 52 clients is 8.5 months.

Ten additional clients were once included in the analysis but later dropped due to re-entry into an institution. (See Table 3.) Even if clients were subsequently re-released, as three were, they no longer met the terms set by the analytical question.

* Tables 1-22 are presented at the end of Section III, RESULTS, p. 34.

The demographic characteristics of the sample of 52 clients were found to be as follows:*

- The mean age at assessment was 52.76 years.
- 53.8% are female.
- 82.7% are white.
- 7.7% are married.
- 5.8% have one or more children over the age of 18.
- The mean length of the last institutionalization was 13.23 years.
- The mean number of prior institutionalizations was 1.27.
- 12.5% have a committee assigned.
- 69.4% of the clients expressed a desire to live outside the institution while 4.1% wished to remain in the institution.
- 51.9% are of normal appearance.
- 72.5% are completely mobile.
- 39.2% are moderately, severely, or profoundly retarded or of undeterminable intelligence despite testing.
- The mean grade level attained in a regular school setting is 4.53 years.
- Institution staff held that 32.7% could be either completely or partially self-supporting in the community.
- 52.9% were held by institution staff as able to use public transportation.
- The percentage of institutional costs borne by the Commonwealth of Virginia and/or third party payers was 87.3% at WSH and 100% at the other three institutions.

* See Appendix B for Assessment Digest on the resultant sample of clients.

These discrete facts yield a picture of isolated individuals with a potential for normalcy but with few family or community supports.

The A&P teams prescribed a wide variety of housing types and ancillary services for these clients. Tables 4 and 5 summarize the prescriptions written.*

Types of housing prescribed ranged from the most intensive arrangement (nursing home) to the most independent (independent living). Several supportive services were prescribed for each client with most falling into the areas of physical and social/psychological health.

Table 6 presents a matrix showing the initial and final (December 31, 1974) housing modes for the clients.

Four clients have moved from one housing type to another: one from a foster home to a home for adults giving close supervision, one from a boarding house to a home for adults giving moderate supervision, one from his own apartment to a foster home, and one from a boarding house to an apartment.

Clients were assigned to strata based on their housing, employability, and primary source of income as of December 31, 1974. (For a description of the stratification variables, see IIC, above.) Placing the 11 housing types

* See Appendix C for Prescription Digest on the sample of clients.

shown in Table 6 in the three housing strata, a comparison between client location in initial and final housing strata can be made. Table 7 presents the results.

Only three clients (5.8% of the total) have moved from one housing strata to another. Clients are very evenly distributed among the three housing strata at the time of close-out for analysis.

Table 8 shows the distribution of clients among the categories included in the employability and income variables.

54% of the clients are employable at least on a part-time or sheltered basis as judged by the broker advocate assigned. 58% are receiving at least half their income from public sources.

Twelve of the 18 cells produced by the intersecting of the three housing, three employability, and two income strata contain clients. Table 9 shows each client's stratum (cell) assignment, age, and projected remaining lifetime. The mean age and the mean projected remaining lifetime for clients falling into each stratum are also presented.

Strata 1, 2, 4, 8, 12, and 13 are empty. A client who is employable full time, living in an intensive care situation, supported by public (stratum 1) or private (stratum 2)

funds is not likely to exist. Similarly, it is not likely that a person in family/independent care and employable full time will require funds from public sources (stratum 13). Clients may have entered strata 4, 8, and 12 had the sample size been larger.

Of those strata containing clients, the number included ranges from one (strata 7 and 15) to 10 (stratum 5). The mean age ranges from 18.0 years (stratum 7) to 79.8 years (stratum 6); the mean projected remaining lifetime ranges from 9.5 years (stratum 6) to 58.6 years (stratum 7).

A summary of individual stratum data also appears in Table 10 accompanied by summary data for the major housing, employability, and income categories. The smallest number of clients falling into any of the large categories is 10 (Employed Full Time).

The mean age of those clients in intensive care is double that of clients living in family/independent care (69.0 years versus 34.5 years). Those clients who are not employable are, on the average, more than twice the age of those clients employable full time (66.5 years versus 30.2 years). Clients receiving public funds are slightly older, on the average, than those supported by private sources (57.8 years versus 47.2 years).

These data suggest that the younger the client the more apt he is to be (a) living with family or independent-

ly (b) employable full time and (c) maintained by private funds.

B. CALCULATION METHODS IN TREATING THE DATA

The manner in which adjustments were calculated and assumptions accommodated in treating the cost and benefit data follows.

1. Fringe Benefit and Overhead Rates

Most professional service providers interacting with SID clients in the community were employees of the Commonwealth of Virginia. The current fringe benefit rate for these employees is 12.0%. However, it is not unusual for private firms to offer fringe benefit packages of 15% or even 17%. Assuming that the Commonwealth will one day be competitive with private industry, a 15% fringe benefit rate was used to adjust all salaries.

The overhead rate is defined as all costs incurred by an agency in other than direct service provision. In the SID program all salaries other than broker advocate salaries and all other costs (electronic data processing, rent, etc.) constitute 65% of the total budget. Accounting personnel for the Department of Mental Health and Mental Retardation and the Department of Welfare indicated that the rates for their respective agencies were between 40% and 50%. Since it was difficult to arrive at a figure consistent among all agencies involved, the higher SID overhead rate of 65% was used throughout.

Using the overhead rate of 65% and the fringe benefit rate of 15% means that all salaries of personnel serving SID clients were increased by 80%. For example, if a social worker whose hourly salary is \$5.50 spent one hour with a client, the calculation is:

$$[\$5.50 + (\$5.50 \times .8)] = \$9.90$$

Any direct expenditure for goods or supplies, such as medication, was determined separately from salary or service.

2. Adjustment Factor

An adjustment factor of 40% times direct service-time costs was used to increment the actual costs associated with both SID staff and other service provider time. Inquiries of SID broker advocates regarding how much non-direct service provision was involved in their work routine produced a range of responses but averaged at 45%. Welfare department reports in Massachusetts and West Virginia indicate that 34% and 38% respectively of their staff time is spent in indirect service delivery.

Extending the examples used in paragraph B1, above, the formula for calculating the cost of the social worker's time becomes:

$$[\$5.50 + (\$5.50 \times .8)] + .4[\$5.50 + (\$5.50 \times .8)] = \$13.86$$

The basic hourly salary of \$5.50 therefore expands to a cost of \$13.86 when consideration is given to overhead, fringe benefit, and non-service delivery activity.

3. Discount Factor

When projecting dollar values of costs and benefits over the next 10 years a discount rate of 8.0% was used to convert future dollars to present dollars. Studies often use both 5% and 10% discount rates to test the sensitivity of the analysis to these rates. SID opted for a mid-range value.

4. Projections

Projections regarding each client's costs and benefits over the next 10 years (or the client's lifetime if expected to be less than 10 years) were based on:

- 1) the client's history of costs and benefits during his or her observed period of community tenure;
- 2) the broker advocate's prediction of the client's future service needs;
- 3) in those cases where the foregoing did not provide adequate information, a comparison among clients in the same strata with respect to a specific cost or benefit dollar value.

Projections of costs were based on a liberal assessment of what the client would be likely to require in the way of services. For example, if a client is currently employed in a sheltered workshop (or is on the waiting list for entry to a workshop), it was assumed that he would remain in such an employment situation for the entire period even though a certain percentage of persons in sheltered employment do move to more independent situations and contribute further to society through payment of higher taxes.

It was further assumed that a person salaried at the level of a SID broker advocate would follow each client for the full period at a frequency only slightly below that of the first year of follow-up. It is unlikely that contact by a client advocate would be required so frequently over a long time period.

5. Society Costs versus Total Costs

All costs and benefits are presented from the point of view of society-at-large except where otherwise stated. As discussed above, society costs and benefits are separately defined as those attributable to federal, state, or local governmental entities. Total costs and benefits include private dollars such as those contributed by the family of the client or the client personally.

For example, if a client's institutionalization cost \$6,000 per year and the state paid \$5,000 and the family \$1,000 of this cost, the "savings of institutional costs" from society's point of view is \$5,000 per year while the total benefit is valued at \$6,000 per year.

The difference between societal and total costs and benefits is probably underestimated in the analysis since it is not possible to accurately attach a dollar value to all private costs and benefits. For instance, what does it cost a parent to have his child at home and, on the other hand, what are the benefits from such? In these cases, private costs and benefits are not included in the analysis.

6. Federal, State, Local Contributions

For each individual stratum, dollar values attached to each cost were distributed among federal, state, and local sources. The percentages used for the distribution were based on discussion with agency personnel regarding the proportion of their budget received from each source. If a portion of their monies came from private sources, these were included in the total but not the societal cost.

To illustrate: SID funding is 89% federal and 11% state until the fall of 1975 when Title XX is expected to take over funding of the program. At that time, the funding percentages will change to 75% federal and 25% state.

Dollar values attached to each benefit were also distributed among the funding sources. In the case of "savings of institutional costs" the cost of each client's last ward assignment was used as the cost from which to ascertain funding sources and future projections. The reimbursement offices of the institutions were able to provide data regarding which funding source(s) presently met these costs. The client's contribution to society through personal labor was calculated as the value of the taxes paid to federal and state sources. Another aspect of client labor or earnings is the effect on the economy of

the client's utilization of money; it was not possible to attach a dollar value to this benefit.

With the exception of the SID program, no attempt was made to predict how funding mixes for the various agencies will change. It is quite likely that these will alter over time but no sound basis for making specific predictions were available.

C. FINDINGS

The cost/benefit findings (valued in discounted present dollars) are presented with respect to (a) analysis of individual strata and (b) analysis of aggregate strata. Detailed findings associated with each analysis appear in a series of Exhibits attached at Appendices D and E.

Appendix D contains exhibits presenting summary data for individual strata. Five data displays are provided for each stratum and are referred to as Exhibits I, II, III, IV, and V. These are organized on a stratum basis and since there are five different exhibits for each of the 12 strata there is a total of 60 displays. The contents for each stratum are:

- 1) Exhibit I ("Summary of Economic Costs and Benefits") - provides the dollar values attached to each cost and benefit element as well as the ratio of economic benefits over economic costs;
- 2) Exhibit II ("Average Annual Cost and Benefit Dollars Over All Clients in Stratum") - the average dollar amount and the sum of the averages are shown for each cost and benefit element and major item for each of the ten years under analysis;

- 3) Exhibit III ("Cost and Benefit Dollars Over the Next 10 Years") - the raw dollar values for each element and major item on a per client basis and a sum of the averages is provided;
- 4) Exhibit IV ("Sources and Recipients of Cost/Benefit Dollars") - breaks down the sum of the averages for the stratum into federal, state, and local funding components;
- 5) Exhibit V ("Total Cost/Benefit Dollars Versus Societal Cost/Benefit Dollars") - compares the differential between public versus public plus private contributions and receipts.

Appendix E contains displays presenting data aggregated across selected strata. Ten different groupings are presented: eight groups based on the stratification variables (see margins of Table 10); a "Nursing Home Care" group of clients from strata 5 and 6 and living in nursing homes; and, the total group of 52 clients.

The five Exhibits described above are at Appendix E for the "Nursing Home Care" group of clients. Only two Exhibits are presented for each of the other groups:

- 1) Exhibit I ("Summary of Economic Costs and Benefits") - same as for individual strata;
- 2) Exhibit II ("Average Annual Cost and Benefit Dollars Over All Clients in Stratum") - same as for individual strata except that calculations are presented only for cost and benefit elements (not items).

1. Findings in Individual Strata

Table 11 presents data excerpted from each Exhibit I in Appendix D. It provides a comparison among strata with regard to the benefit/cost ratios (i.e., average economic benefits divided by average economic costs). It also shows the average net benefits per client.

The only stratum for which costs exceeded benefits was stratum 5 which contains clients who are in intensive care housing, not employable, and receiving at least half their income from public sources. Ratios of benefits to costs for the other strata ranged from 1.52 to 11.86. Average net benefits per client over the 10 years ranged from \$13,000 to over \$46,000 in those strata where the ratio exceeded 1.00. In stratum 5, the average net cost per client for 10 years was \$395.93.

Exhibit II for each stratum lists average dollar values of cost and benefit elements per client for each year in the 10-year period. (Exhibit II for stratum 9 is shown as Table 12 as a representative example.) Note that values in 1974 are generally lower than those in 1975. This is because the average length of community tenure to date is 8.5 months thus making 1975 the first full year considered in the analysis for most clients.

Due to the 8% discount rate used, the pattern in all strata between 1975 and 1983 is a steady decrease in dollar amounts. Services were projected to continue at the current rate of provision unless the client's record clearly indicated an increase or decrease in certain rates.

Table 13 is derived from Exhibits II and shows the proportional contributions of cost and benefit elements.

Maintenance (housing and subsistence) was the major cost in all strata except stratum 16. The proportion of supportive services costs varied from 3.1% to 62.0% of the

total while service integration and deinstitutionalization costs together did not comprise over 25% in any stratum and generally fell under 10% of total costs.

As would be expected, the major benefit item was the savings of institutional costs. Most clients are not gainfully employed and taxes paid by persons earning under \$200 per month are insignificant compared to savings of institutional costs ranging up to \$8,500 per year.

Table 14 presents the proportional contributions of the components of the on-going service delivery item.

Job training/placement services constituted a large percentage of costs for clients who are partially employable or in a sheltered workshop. This is because such workshops are supported by public funds in addition to their contracts with private industry. For those not in sheltered employment, physical health and social/psychological health costs made up most of the total. Few educational services are provided for the clients in the sample.

With maintenance and supportive services as the major cost elements, it is reasonable to ask by how much these would have to be increased in order for the benefit/cost ratio to be reduced to break-even. Table 15 provides this information.

Excluding stratum 5 (which has a benefit/cost ratio of slightly less than 1.00), maintenance costs would have to be incremented by 0.95 (or nearly doubled) as a mini-

mum (stratum 18) and raised by a factor of 16.92 as a maximum (stratum 6). Supportive services would also have to increase substantially to bring the benefit/cost ratios to break-even.

Exhibit III for each stratum shows the dollar values of the costs and benefits for each client. (Exhibit III for stratum 9 is shown as Table 16 as a representative example.) An examination of the dollar values among clients reveals a great deal of variation. This is due in part to the varying length of time clients are expected to live, different housing modes included within each stratum, and varying supportive services required. Table 17 provides the ratios of benefits to costs for each client.

There is wide variation between individual client benefit/cost ratios. This is true even within certain of the strata (e.g., strata 6, 14, and 16). However, only two clients outside stratum 5 have benefit/cost ratios under 1.00 (clients #25 and #47).

Exhibits IV show the sources and recipients of cost/benefit dollars and Table 18 summarizes these data.

On the societal cost side, the federal sources carry much of the load in maintaining the deinstitutionalized client:

- the federal contribution to costs is over 75% in five strata (14 clients) and over 50% in 10 strata (48 clients);

-the state contribution to costs is over 50% in one stratum (one client) and less than 25% in eight strata (34 clients);

-the local contribution is more than 20% in two strata (four clients) and less than 8% in the remaining 10 strata (48 clients).

On the benefit side, these proportions for state and federal sources are reversed:

-federal sources receive more than 30% of the benefits in two strata (14 clients) while they receive less than 8% in six strata (20 clients);

-state sources receive more than 80% of the benefits in 10 strata (38 clients) and over 65% in the remaining two strata (14 clients);

-since local sources do not contribute to the cost of institutionalization or levy income taxes, no benefits accrue to these sources.

Data can be ordered in still another way to compare the relative contributions of federal and state funding. Table 19 presents the benefit/cost ratios when the federal and state costs and benefits are isolated separately.

When federal monies are considered, only stratum 6 has a benefit/cost ratio greater than 1.00. From the point of view of the Commonwealth of Virginia, the benefit/cost ratios decidedly favor community residence with values ranging from 1.89 to 113.67.

Bearing in mind that many private costs and benefits are not obviously measurable, Table 20 compares the benefit/cost ratios from society's point of view with the total dollar values attributable to costs and benefits.

There are no extreme differences between the ratios although using the total societal costs does alter most

ratios slightly. For the sample of clients studied, the private sector (at least outside the family) is not absorbing costs or receiving benefits at a significant level.

2. Findings Across Strata

Table 21 is based on Exhibits I at Appendix E and presents the benefit/cost ratio and the average net benefits per client for the 10-year period for each group.

The benefit/cost ratio was greater than 1.00 in every instance and the ratios interrelate in the expected ways:

-The ratio for those in Nursing Home Care was less than that for clients in Intensive Care which was less than that for those in Intermediate Care which in turn was less than that for those in Family/Independent Care.

-Similarly, those receiving primarily Public Funds had a lower ratio than those receiving primarily Private Funds.

The overall benefit/cost ratio for the entire group of 52 clients was 1.98. The average net benefits per client ranged from \$2,500 over 10 years for clients in Nursing Home Care to \$29,000 over the period for clients Employable Full Time.

Table 22 is derived from Exhibits II of Appendix E and shows the proportional contributions of cost and benefit elements.

As in the individual strata, maintenance comprised the largest proportion of costs while savings of institutional costs contributed most to the dollar value of the benefit elements. The proportion of supportive services to the total cost varied, with the presumably least active clients (in Intensive Care and Not Employable) receiving the fewest supportive services. Service integration and deinstitutionalization costs comprised less than 11% of the total for any group.

An inspection of the Exhibits II themselves reveals the same pattern noted in the individual strata displays, i.e., increased costs between 1974 and 1975 followed by a steady decrease in present dollar amounts through 1983.

Table 1

CLIENTS INCLUDED IN THE COST/BENEFIT ANALYSIS

<u>Institution of Residence</u>	<u>n</u>	<u>%</u>
Western State Hospital (WSH)	32	61.5
Central State Hospital (CSH)	2	3.8
Lynchburg Training School & Hospital (LTSH)	11	21.2
Southside Virginia Training Center (SSVTC)	<u>7</u>	<u>13.5</u>
TOTAL	52	100.0

Table 2

AVERAGE PERIOD IN THE COMMUNITY FROM PLACEMENT TO DECEMBER 31, 1974

<u>Institution of Residence</u>	<u>Average Period (in Months)</u>
WSH	10.3
CSH	3.0
LTSH	6.4
SSVTC	<u>5.1</u>
TOTAL	8.5

Table 3

CLIENTS ONCE INCLUDED IN THE ANALYSIS/
DROPPED DUE TO REINSTITUTIONALIZATION

<u>Institution of Residence</u>	<u>n</u>	<u>%</u>
WSH	9	90.0
CSH		
LTSH		
SSVTC	<u>1</u>	<u>10.0</u>
TOTAL	10*	100.0

*Of these 10 clients, 2 have been terminated from the project and 3 have been re-released.

Table 4
 IDEAL HOUSING PRESCRIBED
 FOR CLIENTS INCLUDED IN THE COST/BENEFIT ANALYSIS

<u>Community Housing</u>	<u>n</u>	<u>%</u>
Boarding House/ Residential Hotel	4	7.7
Foster Home	8	15.4
Halfway House	4	7.6
Group Home	7	13.4
Nursing Home	7	13.5
Home for Adults	6	11.5
Relative	12	23.1
Independent Living	1	1.9
V.R. Residential Facility	2	3.8
Other	1	1.9
TOTAL	52	99.8

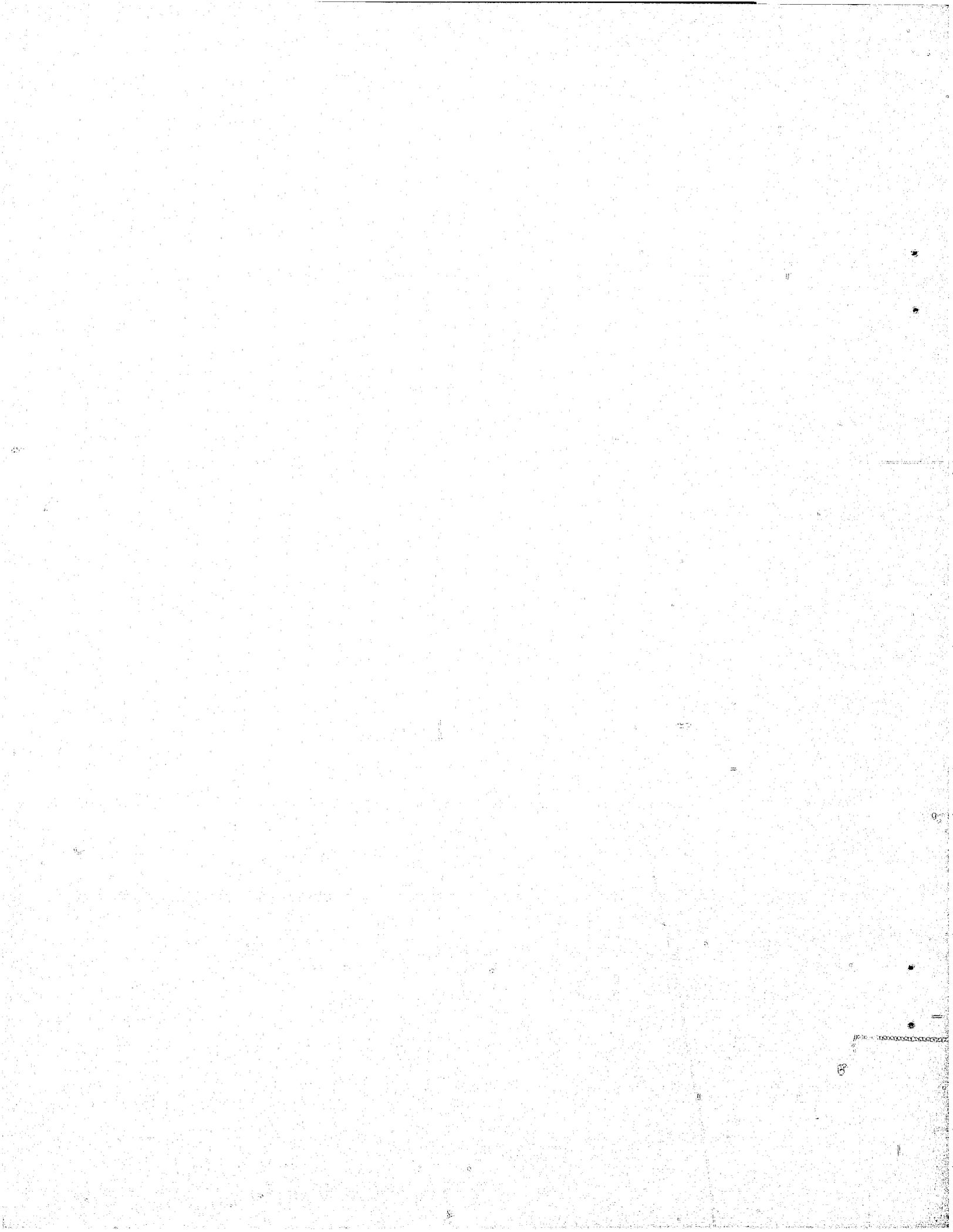


Table 5

SUMMARY OF PRESCRIPTION DECISIONS MADE FOR CLIENTS INCLUDED IN THE COST/BENEFIT ANALYSIS

PRESCRIPTION DECISION				HOUSING*																	
				Boarding House/ Res. Hotel		Foster Home		Halfway House		Group Home		Nursing Home		Home for Adults		Relative		Other		TOTAL	
Pr IN	Pr OUT	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	N	%		
		52	100.0	11	9.2	26	21.8	10	8.4	16	13.4	9	7.6	20	16.8	18	15.1	9	7.6	119	99.9

*HOUSING includes first, second, and third choices.

ANCILLARY SERVICES**														
JOB TRAINING/PLACEMENT					PHYSICAL HEALTH				SOCIAL/PSYCHOLOGICAL HEALTH				ED	
Elderly	VEC/VR	VR	VR	Shelt	Dental	Medical	Fam Plg/	Activity		Family	Continuum	Social	Adult	
Act Ctr	Counsel	Eval/Ref	Job Trg	Wkshop	Care	Care	Sex Ed	Ctr/Day	Care	C.A.T.	Counsel	of M.H. Services	Club	Ed
n	17	15	10	8	6	21	52	13	7	27	21	40	31	7
%***	32.7	28.8	19.2	15.4	11.5	40.4	100.0	25.0	13.5	51.9	40.4	76.9	59.6	13.5

- **Mean No. Job/Training Placement services prescribed per client = 1.15
- Mean No. Physical Health services prescribed per client = 3.23
- Mean No. Social/Psychological Health services prescribed per client = 3.31
- Mean No. Educational Services prescribed per client = 0.29

***Percentages in this row based on number of clients receiving prescriptions (52).

Table 6

COMPARISON BETWEEN CLIENTS' INITIAL AND FINAL HOUSING TYPES

Final Housing	Initial Housing (Time of Placement)										TOTAL	
	Nursing Home	Home for Adults/ Close Super	Home for Adults/ Mod Super	Training School/ Blind	Boarding House/ Res Hotel	Foster Home	Halfway House	VR Res'd't Facility	Group Home	relative/ Guardian		Own Home/ Apt
Nursing Home	9											9
Home for Adults/ Close Super		7				1						8
Home for Adults/ Mod Super			7		1							8
Training School/ Blind												
Boarding House/ Res Hotel					2							2
Foster Home						5				1		6
Halfway House												
VR Res'd't Facility												
Group Home								2				2
Relative/ Guardian									13			13
Own Home/ Apt					1					3		4
TOTAL	9	7	7	4	6	2	13	4		52		

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Table 7

COMPARISON BETWEEN CLIENTS' INITIAL AND FINAL HOUSING STRATA

Final Housing Strata	Initial Housing Strata (Time of Placement)			TOTAL	(%)
	Intensive Care	Intermediate Care	Family Care		
Intensive Care (IN)	16	1		17	(32.7)
Intermediate Care (IM)		17	1	18	(34.6)
Family/Independent Care (FI)		1	16	17	(32.7)
TOTAL (%)	16 (30.8)	19 (36.5)	17 (32.7)	52	(100.0)

Table 8
EMPLOYABILITY STRATA

<u>Strata Labels</u>	<u>Number of Clients (%)</u>	
Employable Full-Time (FE)	10	(19.2)
Employable Part-Time (Sheltered) (PE)	18	(34.6)
Not Employable (NE)	24	(46.2)
TOTAL	52	(100.0)

INCOME STRATA

<u>Strata Labels</u>	<u>Number of Clients (%)</u>	
Public (PU)	30	(57.7)
Private (PR)	22	(42.3)
TOTAL	52	(100.0)

Table 9

AGES AND PROJECTED REMAINING LIFETIMES FOR EACH CLIENT
AND ACROSS STRATA

Stratum 3	<u>Client Number</u>	<u>Age (in Years)</u>	<u>Projected Remaining Lifetime (in Years)</u>	
intensive care; employable part- time; public funds (IN; PE; PU)	1	43	35.6	
	2	67	16.9	
	3	52	24.0	
	Average	N=3	54.0	25.5
<hr/>				
Stratum 5				
intensive care; not employable; public funds (IN; NE; PU)	4	66	17.5	
	5	76	9.1	
	6	80	7.5	
	7	67	13.8	
	8	76	11.6	
	9	78	8.3	
	10	91	5.4	
	11	68	16.2	
	12	57	24.0	
	13	33	44.6	
	Average	N=10	69.2	15.8

Table 9 (2)

Stratum 6	Client Number	Age (in Years)	Projected Remaining Lifetime (in Years)
Intensive care; not employable; private funds (IN; NE; PR)	14	82	8.7
	15	76	11.6
	16	87	5.1
	17	74	12.6
Average	N=4	79.8	9.5

Stratum 7	Client Number	Age (in Years)	Projected Remaining Lifetime (in Years)
Intermediate care; employable full-time; public funds (IM; FE; PU)	18	18	58.6
Average	N=1	18	58.6

Stratum 9	Client Number	Age (in Years)	Projected Remaining Lifetime (in Years)
intermediate care; employable part-time; public funds (IM; PE; PU)	19	65	15.0
	20	63	19.6
	21	55	21.7
	22	63	19.6
	23	52	27.9
	24	25	52.1
	25	28	44.6
Average	N=7	50.1	28.6

Table 9 (3)

Stratum 10	<u>Client Number</u>	<u>Age (in Years)</u>	<u>Projected Remaining Lifetime (in Years)</u>
Intermediate care; employable part-time; private funds (IM; PE; PR)	26	53	23.2
	27	62	16.9
	28	62	20.3
	29	59	22.4
Average	N=4	59.0	20.7

Stratum 11			
Intermediate care; not employable; public funds (IM; NE; PU)	30	58	19.6
	31	67	16.9
	32	77	11.0
	33	90	5.7
	34	53	23.2
	35	64	15.6
Average	N=6	68.2	15.3

Table 9 (4)

Stratum 14	<u>Client Number</u>	<u>Age (in Years)</u>	<u>Projected Remaining Lifetime (in Years)</u>
family care; employable full-time; private funds (FI; FE; PR)	36	34	39.1
	37	63	16.2
	38	38	35.6
	39	34	43.7
	40	21	55.8
	41	23	49.3
	42	19	57.7
	43	19	53.0
	44	33	40.0
Average	N=9	31.6	43.4
<hr/>			
Stratum 15			
family care; employable part-time; public funds (FI; PE; PU)	45	19	53
	Average	N=1	19.0
<hr/>			
Stratum 16			
family care; employable part-time; private funds (FI; PE; PR)	46	48	31.2
	47	43	35.6
	48	16	55.8
Average	N=3	35.7	40.9

Table 9 (5)

	<u>Client Number</u>	<u>Age (in Years)</u>	<u>Projected Remaining Lifetime (in Years)</u>
Stratum 17			
family care; not employable; public funds (FI; NE; PU)	49	54	26.3
	50	30	47.4
Average	N=2	42.0	36.9
Stratum 18			
family care; not employable; private funds (FI; NE; PR)	51	54	26.3
	52	38	40.0
Average	N=2	46.0	33.2

Table 10

INDIVIDUAL STRATUM DATA:
NUMBER OF CLIENTS, AVERAGE CLIENT AGE, AVERAGE PROJECTED REMAINING LIFETIME

<p>Intensive Care</p> <p>N = 17</p> <p>L = 16.0</p> <p>A = 69.0</p>	<p>Public Funds</p> <p>$N_1 = 0$</p> <p>$L_1 =$</p> <p>$A_1 =$</p>	<p>$N_2 = 0$</p> <p>$L_2 =$</p> <p>$A_2 =$</p> <p>Private Funds</p>	<p>$N_3 = 3$</p> <p>$L_3 = 25.5$</p> <p>$A_3 = 54.0$</p>	<p>$N_4 = 0$</p> <p>$L_4 =$</p> <p>$A_4 =$</p>	<p>$N_5 = 10$</p> <p>$L_5 = 15.8$</p> <p>$A_5 = 69.2$</p>	<p>$N_6 = 4$</p> <p>$L_6 = 9.5$</p> <p>$A_6 = 79.8$</p>	
	<p>Intermediate Care</p> <p>N = 18</p> <p>L = 24.1</p> <p>A = 56.3</p>	<p>$N_7 = 1$</p> <p>$L_7 = 58.6$</p> <p>$A_7 = 18.0$</p>	<p>$N_8 = 0$</p> <p>$L_8 =$</p> <p>$A_8 =$</p>	<p>$N_9 = 7$</p> <p>$L_9 = 28.6$</p> <p>$A_9 = 50.1$</p>	<p>$N_{10} = 4$</p> <p>$L_{10} = 20.7$</p> <p>$A_{10} = 59.0$</p>	<p>$N_{11} = 6$</p> <p>$L_{11} = 15.3$</p> <p>$A_{11} = 68.2$</p>	<p>$N_{12} = 0$</p> <p>$L_{12} =$</p> <p>$A_{12} =$</p>
	<p>Family/Independent Care</p> <p>N = 17</p> <p>L = 41.5</p> <p>A = 34.5</p>	<p>$N_{13} = 0$</p> <p>$L_{13} =$</p> <p>$A_{13} =$</p>	<p>$N_{14} = 9$</p> <p>$L_{14} = 43.4$</p> <p>$A_{14} = 31.6$</p>	<p>$N_{15} = 1$</p> <p>$L_{15} = 53.0$</p> <p>$A_{15} = 19.0$</p>	<p>$N_{16} = 3$</p> <p>$L_{16} = 40.9$</p> <p>$A_{16} = 35.7$</p>	<p>$N_{17} = 2$</p> <p>$L_{17} = 36.9$</p> <p>$A_{17} = 42.0$</p>	<p>$N_{18} = 2$</p> <p>$L_{18} = 33.2$</p> <p>$A_{18} = 46.0$</p>

Public Funds	Private Funds	Employable Full-Time	Employable Part-Time or Sheltered Workshop	Not Employable
N = 30	N = 22	N = 10	N = 18	N = 24
L = 23.7	L = 31.8	L = 44.9	L = 28.14	L = 17.8
A = 57.8	A = 47.2	A = 30.2	A = 48.6	A = 66.5

N_i = Number of clients assigned to stratum i
 L_i = Projected remaining lifetime of average client in stratum i
 A_i = Age of average client in stratum i

N = 52

Table 11
BENEFIT/COST RATIO AND AVERAGE NET BENEFIT

<u>Stratum</u>	<u>N</u> <u>(1974)</u>	<u>N</u> <u>(1983)</u>	<u>Benefit/Cost</u> <u>Ratio</u>	<u>Average</u> <u>Net Benefit</u>
3 (IN;PE;PU)	3	3	1.71	\$18,222.65
5 (IN;NE;PU)	10	7	0.99	- 395.93
6 (IN;NE;PR)	4	2	11.86	46,534.83
7 (IM;FE;PU)	1	1	5.72	39,418.71
9 (IM;PE;PU)	7	7	1.52	13,999.96
10 (IM;PE;PR)	4	4	1.91	19,237.06
11 (IM;NE;PU)	6	5	2.46	25,566.47
14 (FI;FE;PR)	9	9	3.78	27,892.62
15 (FI;PE;PU)	1	1	4.18	36,869.50
16 (FI;PE;PR)	3	3	3.64	29,173.64
17 (FI;NE;PU)	2	2	5.17	38,044.13
18 (FI;NE;PR)	2	2	1.79	12,826.51

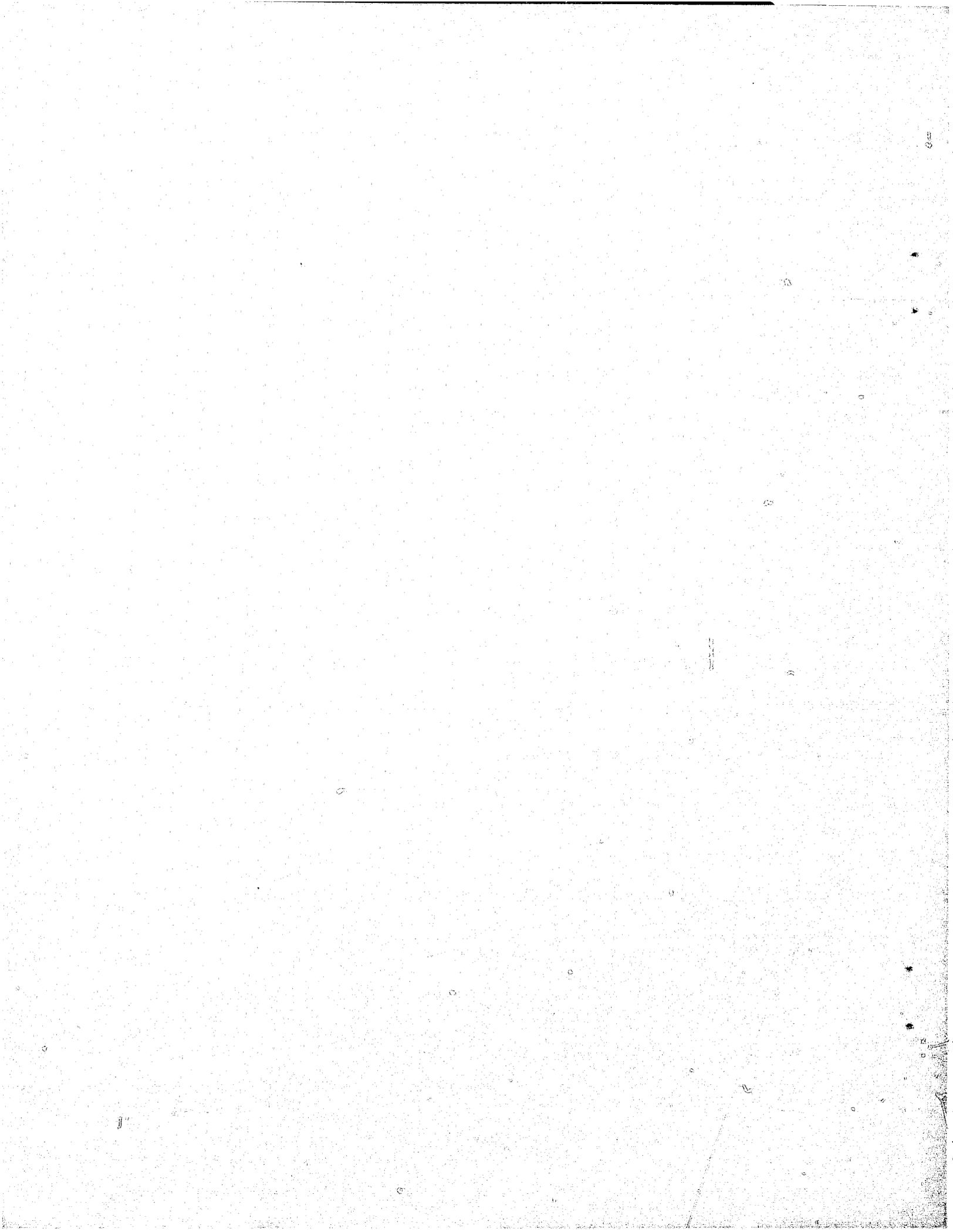


Table 12

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM = 9

COST ELEMENTS	N ₇₄ =7	N ₇₅ =7	N ₇₆ =7	N ₇₇ =7	N ₇₈ =7	N ₇₉ =7	N ₈₀ =7	N ₈₁ =7	N ₈₂ =7	N ₈₃ =7	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	984.31	1,425.95	1,446.04	1,339.75	1,240.18	1,149.05	1,063.01	983.71	911.15	843.67	11,386.82
A. On-going Service Delivery Costs	943.41	1,425.95	1,446.04	1,339.75	1,240.18	1,149.05	1,063.01	983.71	911.15	843.67	11,365.92
(1) Job Training/Placement Services	715.22	410.37	968.83	897.61	830.91	769.86	712.21	659.08	610.47	565.25	7,638.76
(2) Physical Health Services	104.45	116.73	109.88	101.92	47.24	87.31	83.77	74.75	69.23	64.11	933.22
(3) Social/Psych Health Services	97.23	264.94	245.24	227.21	219.33	194.87	185.26	168.63	154.52	143.08	1,852.57
(4) Educational Services	47.68	131.92	122.09	113.11	104.70	97.01	89.75	83.05	76.93	71.23	937.27
B. Costs of Service Start-up	20.90										20.90
2. Client Maintenance	1,019.81	1,992.26	1,843.80	1,708.26	1,581.32	1,465.15	1,355.42	1,254.30	1,161.79	1,075.74	14,457.85
3. Service Integration Costs (SIC Costs)	412.71	92.79	85.87	79.56	73.65	68.24	63.13	58.42	54.11	50.10	1,035.58
A. Assessment Costs	98.48										98.48
B. Cost of Placement Decision	139.33										139.33
C. Cost of Filling Prescription	88.61										88.61
D. Client Tracking & Monitoring Costs	86.29	92.79	85.87	79.56	73.65	68.24	63.13	58.42	54.11	50.10	712.16
4. Deinstitutionalization Costs	27.96										77.96
5. Lost Economic Productivity											
TOTAL COSTS	2,444.79	3,511.00	3,375.71	3,127.57	2,895.15	2,682.44	2,481.56	2,296.43	2,127.05	1,969.51	26,911.71

* All dollars valued at 1974 prices

Table 13

PROPORTIONAL CONTRIBUTIONS OF COST AND BENEFIT ELEMENTS

Stratum	% of Costs Attributable To:				% of Benefits Accruing From:	
	Supportive Services	Maintenance	Service Integration	Deinst.	Saving of Inst. Costs	Increased Econ. Production
3* (IN;PE;PU)	30.6	64.8	4.4	0.2	96.7	3.3
5 (IN;NE;PU)	3.1	94.4	2.4	0.1	100.0	
6 (IN;NE;PR)	10.4	65.7	23.1	0.8	100.0	
7* (IM;FE;PU)	5.3	88.2	6.3	0.2	100.0	
9 (IM;PE;PU)	42.3	53.7	3.9	0.1	99.7	0.3
10 (IM;PE;PR)	41.1	51.2	7.6	0.2	98.5	1.5
11 (IM;NE;PU)	8.1	85.4	6.3	0.2	100.0	
14 (FI;FE;PR)	41.8	46.8	11.0	0.3	94.0	6.0
15* (FI;PE;PU)	23.0	69.6	7.2	0.2	99.8	0.2
16* (FI;PE;PR)	62.0	29.6	8.1	0.3	95.5	4.5
17* (FI;NE;PU)	3.2	87.1	9.3	0.4	100.0	
18* (FI;NE;PR)	9.0	83.7	7.1	0.3	100.0	

1974 is less than 4.

Table 14

PROPORTIONAL CONTRIBUTIONS TO ON-GOING SERVICE DELIVERY ITEMS

Stratum	Job Trg/Placement Services	Physical Health Services	Soc/Psych Health Services	Education Services
3* (IN; PE; PU)	81.7	9.0	9.3	
5 (IN; NE; PU)	18.6	60.2	21.2	
6 (IN; NE; PR)	10.8	50.1	39.1	
7* (IN; PE; PU)		100.0		
9 (IN; PE; PU)	67.2	8.0	16.6	8.2
10 (IN; PE; PR)	76.6	11.3	12.1	
11 (IN; NE; PU)		22.8	77.2	
14 (FI; FE; PR)	38.5	27.9	33.6	
15* (FI; PE; PU)		33.6	31.2	35.2
16* (FI; PE; PR)	61.6	9.7	11.7	17.1
17* (FI; NE; PU)		52.3	47.7	
18* (FI; NE; PR)		31.2	68.8	

*N in 1974 is less than 4.

Table 15

FACTOR BY WHICH MAINTENANCE OR SUPPORTIVE SERVICE COSTS MUST BE INCREASED
FOR BENEFIT/COST RATIO TO EQUAL "1"

Stratum	Incremental Factor for Maintenance Cost	Incremental Factor for Supportive Services Cost ⁺
3* (IN; PE; PU)	1.09	2.30
5 (IN; NE; PU)	-0.01	
6 (IN; NE; PR)	16.52	
7* (IM; FE; PU)	5.34	
9 (IM; PE; PU)	0.97	1.23
10 (IM; PE; PR)	1.78	2.22
11 (IM; NE; PU)	1.71	
14 (FI; PE; PR)	5.93	6.64
15* (FI; PE; PU)	4.58	
16* (FI; PE; PR)	8.93	4.26
17* (FI; NE; PU)	4.79	
18* (FI; NE; PR)	0.95	

⁺ Factor for Supportive Services given only when this element comprised at least 30% of the total cost for the stratum.

* N in 1974 less than 4.

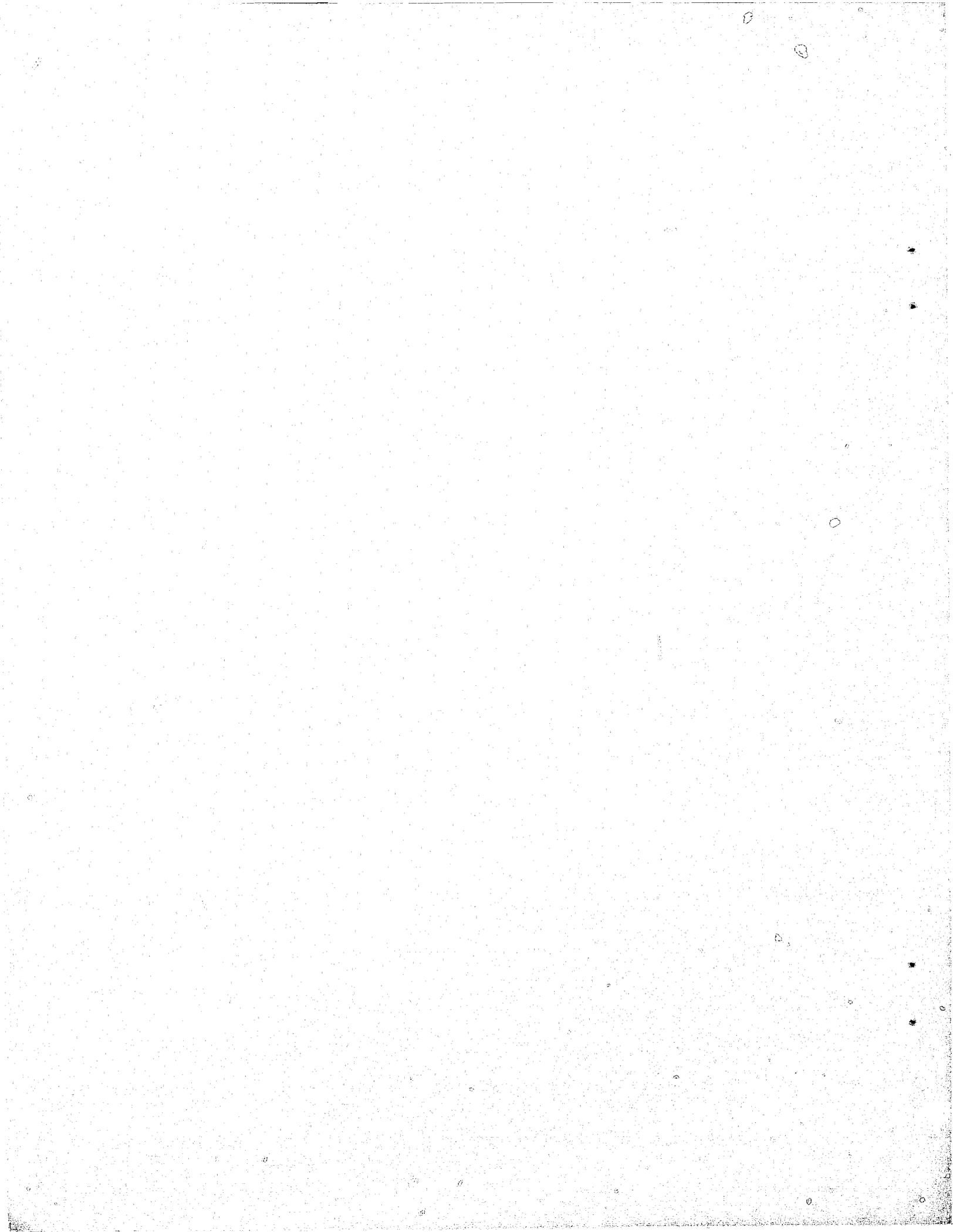


Table 16

Exhibit III

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS*

STRACH - 9

COSTS OVER 10 YEARS

COST ELEMENTS	CL 19	CL 20	CL 21	CL 22	CL 23	CL 24	CL 25	CL	CL	CL	Sum of the Averages
1. Community Supportive Services	4,378.07	16,275.50	5,101.86	14,726.28	8,398.12	7,394.67	13,433.29				11,380.62
A. On-going Service Delivery Costs	4,355.07	16,271.27	5,091.66	14,712.17	8,344.23	7,379.93	13,407.24				11,365.92
(1) Job Training/Placement Services	1,611.71	13,246.99	13,767.40	12,862.66			11,980.57				7,638.76
(2) Physical Health Services	493.16	1,498.60	1,324.26	601.00	340.09	819.01	761.15				925.32
(3) Social/Psych Health Services	2,243.13	1,025.68		1,248.51	8,004.14		665.57				1,854.57
(4) Educational Services						6,540.92					937.27
B. Costs of Service Start-up	23.07	4.23	10.20	14.11	53.89	14.74	26.05				20.90
2. Client Maintenance	15,237.74	18,577.82	11,234.95	16,206.94	6,079.21	12,472.32	21,395.99				14,457.85
3. Service Integration Costs (SID Costs)	745.05	896.64	1,021.58	1,442.25	979.06	926.94	1,258.54				1,038.58
A. Assessment Costs	79.83	59.88	71.26	161.91	137.62	69.55	109.31				98.48
B. Cost of Placement Decision	134.26	78.15	193.79	111.89	108.86	188.69	159.67				139.33
C. Cost of Filling Prescription	105.62	286.08	12.73	93.04	82.47	19.05	21.27				88.61
D. Client Tracking & Monitoring Costs	425.34	472.53	743.80	1,075.41	650.11	649.65	968.29				712.16
4. Deinstitutionalization Costs	33.55	33.55	33.55	33.55	20.51	20.51	20.51				27.96
5. Lost Economic Productivity											
TOTAL COSTS	20,394.41	35,783.51	27,391.94	32,409.02	15,476.90	20,814.44	36,108.33				26,911.21

* All dollars valued at 1974 prices.

Table 17

BENEFIT/COST RATIOS FOR EACH CLIENT AND FOR EACH STRATA

Stratum	Stratum Ratio	Client # (Ratio)									
3*		1	2	3							
(IN; PE; PU)	1.71	(1.14)	(1.34)	(3.05)							
5		4	5	6	7	8	9	10	11	12	13
(IN; NE; PU)	0.99	(1.96)	(0.69)	(3.82)	(0.96)	(0.61)	(0.94)	(0.95)	(1.44)	(1.50)	(0.48)
6		14	15	16	17						
(IN; NE; PR)	11.86	(23.47)	(87.66)	(2.04)	(26.94)						
7*		18									
(IM; FE; PU)	5.72	(5.71)									
9*		19	20	21	22	23	24	25			
(IM; PE; PU)	1.52	(2.62)	(1.40)	(1.85)	(1.18)	(1.53)	(2.18)	(0.68)			
10		26	27	28	29						
(IM; PE; PR)	1.91	(1.15)	(2.95)	(1.88)	(2.30)						
11		30	31	32	33	34	35				
(IM; NE; PU)	2.46	(2.74)	(2.18)	(2.23)	(2.63)	(3.46)	(1.61)				
14		36	37	38	39	40	41	42	43	44	
(FI; FE; PR)	3.78	(31.54)	(17.43)	(2.09)	(1.50)	(30.44)	(1.43)	(1.24)	(44.10)	(10.73)	
15*		45									
(FI; PE; PU)	4.18	(4.18)									
16*		46	47	48							
(FI; PE; PR)	3.64	(16.46)	(0.83)	(11.12)							
17*		49	50								
(FI; NE; PU)	5.17	(4.66)	(5.80)								
18*		51	52								
(FI; NE; PR)	1.79	(1.70)	(1.90)								

*N in 1974 is less than 4.

Table 18

PROPORTION OF COSTS AND BENEFITS ATTRIBUTABLE TO FEDERAL, STATE, LOCAL SOURCES

Stratum	N (1974)	% of Costs Borne By			% of Benefits Accruing To		
		Federal Sources	State Sources	Local Sources	Federal Sources	State Sources	Local Sources
3*							
(IN;PE;PU)	3	39.4	40.3	20.3	3.0	97.0	
5							
(IN;NE;PU)	10	60.8	36.3	3.0	30.9	69.1	
6							
(IN;NE;PR)	4	59.0	39.3	1.7	34.4	65.6	
7*							
(IM;FE;PU)	1	6.7	59.8	33.5		100.0	
9							
(IM;PE;PU)	7	68.2	24.1	7.7	0.3	99.7	
10							
(IM;PE;PR)	4	73.3	20.4	6.2	7.9	92.1	
11							
(IM;NE;PU)	6	78.9	15.0	6.1	18.2	81.7	
14							
(FI;FE;PR)	9	69.1	23.8	7.1	13.8	86.2	
15*							
(FI;PE;PU)	1	86.6	11.2	2.1	0.2	99.8	
16*							
(FI;PE;PR)	3	76.0	21.4	2.6	4.6	95.4	
17*							
(FI;NE;PU)	2	95.1	4.5	0.4	2.0	98.0	
18*							
(FI;NE;PR)	2	91.9	6.7	1.4	15.4	84.6	

N in 1974 is less than 4.

Table 19

BENEFIT/COST RATIOS CALCULATED SEPARATELY FOR FEDERAL AND STATE SOURCES

<u>Stratum</u>	<u>Federal Sources</u>	<u>State Sources</u>
3 [*] (IN; PE; PU)	0.13	4.10
5 (IN; NE; PU)	0.50	1.89
6 (IN; NE; PR)	6.92	19.77
7 [*] (IM; FE; PU)	0.00	9.55
9 (IM; PE; PU)	0.01	6.29
10 (IM; PE; PR)	0.21	8.61
11 (IM; NE; PU)	0.57	13.43
14 (FI; FE; PR)	0.75	13.66
15 [*] (FI; PE; PU)	0.01	37.16
16 [*] (FI; PE; PR)	0.22	16.20
17 [*] (FI; NE; PU)	0.11	113.67
18 [*] (FI; NE; PR)	0.30	22.74

*
N in 1974 is less than 4.

Table 20

SOCIETAL BENEFIT/COST RATIOS VERSUS TOTAL BENEFIT/COST RATIOS

<u>Stratum</u>	<u>Societal Benefit/Cost Ratio</u>	<u>Total Benefit/Cost Ratio</u>
3 [*] (IN;PE;PU)	1.71	1.96
5 (IN;NE;PU)	0.99	0.99
6 (IN;NE;PR)	11.86	11.85
7 [*] (IM;FE;PU)	5.72	5.72
9 (IM;PE;PU)	1.52	1.55
10 (IM;PE;PR)	1.91	2.06
11 (IM;NE;PU)	2.46	2.45
14 (FI;FE;PR)	3.78	4.87
15 [*] (FI;PE;PU)	4.18	4.31
16 [*] (FI;PE;PR)	3.64	3.69
17 [*] (FI;NE;PU)	5.17	5.17
18 [*] (FI;NE;PR)	1.79	1.79

* N in 1974 is less than 4.

Table 21

BENEFIT/COST RATIO AND AVERAGE NET BENEFIT
(Combined Strata)

<u>Combined Strata</u>	<u>N (1974)</u>	<u>N (1983)</u>	<u>Benefit/Cost Ratio</u>	<u>Average Net Benefit</u>
Intensive Care	17	12	1.43	\$13,524.38
Intermediate Care	18	17	1.94	20,325.92
Family/Independent Care	17	17	3.57	28,068.55
Nursing Home Care	9	5	1.06	2,474.47
Not Employable	24	18	1.71	18,023.89
Employable Part-Time	18	18	1.90	19,667.00
Employable Full-Time	10	10	3.94	29,045.21
Public Funds	30	26	1.55	15,383.22
Private Funds	22	20	3.36	28,092.35
Total	52	46	1.98	20,799.49

Table 22

PROPORTIONAL RELATIONSHIPS AMONG COST AND BENEFIT ELEMENTS
(Combined Strata)

Combined Strata	% of Costs Attributable To:				% of Benefits Accruing From:	
	Supportive Services	Maintenance	Service Integration	Deinst.	Saving of Inst. Costs	Increased Econom. Production
Intensive Care	7.6	89.0	3.4	0.1	99.4	0.6
Intermediate Care	32.3	62.2	5.4	0.1	99.6	0.4
Family/Independent Care	34.8	55.5	9.4	0.3	96.1	3.9
Nursing Home Care	1.4	96.5	2.0	0.1	100.0	
Not Employable	4.5	91.2	4.1	0.1	100.0	
Employable Part-Time	40.8	53.8	5.2	0.1	98.3	1.7
Employable Full-Time	38.7	50.3	10.6	0.3	94.8	5.2
Public Funds	15.7	80.5	3.7	0.1	99.6	0.4
Private Funds	38.0	52.0	9.7	0.3	96.7	3.3
Total	21.0	73.7	5.1	0.2	98.4	1.6

IV. DISCUSSION AND CONCLUSIONS

The methodology of the cost/benefit analysis addressed the question of whether the benefits of deinstitutionalizing a mentally ill or mentally retarded client and maintaining him in the community, using the SID model, exceed the costs.

To answer this question, a number of steps were taken:

- 1) A stratification matrix based on three variables was used to group clients;
- 2) Measurable costs and benefit elements were identified;
- 3) Necessary adjustments for fringe benefits, overhead, and other factors were identified and rates attached to each;
- 4) Projections regarding the individual client's service requirements over the next ten years were made by the broker advocate assigned;
- 5) Dollar amounts for each measurable cost and benefit element were calculated on an individual client basis for each of the 52 individuals in the sample;
- 6) Calculations resulting in benefit/cost ratios for each of 12 strata containing clients and each of ten aggregate strata groups were carried out.

Inspection of the data suggest two major conclusions:

- 1) It is cost-beneficial to place and maintain clients in the community;
- 2) Benefits accruing to state funding sources through deinstitutionalization far exceed those accruing to federal funding sources.

Caution must be attached to conclusions drawn from the data presented. Even though the relationships among the benefit/cost ratios from the various strata and groupings yield logical and plausible results and even though SID staff

made a concerted and consistent attempt to overestimate costs and underestimate benefits, there are limitations to be considered in interpreting the findings:

- 1) Sample Size: Only 52 clients are included in the sample and these are residents of only two regions in the Commonwealth. A larger sample size including clients from other regions would increase the generalizability of the findings.
- 2) Community Tenure: The average client spent 8.5 months in the community prior to December 31, 1974. Over 90% of the data attached to both costs and benefits over the 10-year time span of analysis were based on projections. A much longer follow-up period for community residents is required so that observational data rather than projections can contribute in greater proportion to the numerical analysis.
- 3) Sensitivity to Altered Assumptions: The sensitivity of the data to changes in the discount rate or the assumption that costs and benefits will be affected similarly by inflation/deflation circumstances were not tested.
- 4) Confounding of Maintenance and Supportive Services: In calculating costs, supportive services were broken out separately from maintenance wherever possible; in calculating benefits, supportive services (i.e., professional care rendered by institutional staff) formed an indeterminable part of "total institutional costs" throughout the analysis. It is not clear to what extent lumping supportive services with maintenance in arriving at benefit dollar amounts affected the resultant benefit/cost ratios. Without imposing an entirely new accounting system on institutional personnel, there would be no satisfactory resolution to this methodological impasse.

In addition, the psychosocial benefits to the client and community associated with community placement of institutional residents are not measured in the cost/benefit analysis. They are formally addressed in other facets of

Appendix A
Cost and Benefit Elements

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SID

COST AND BENEFIT ELEMENTS
Terms Included in Each Component

Cost Elements and Items

Components

Element 1. Community Supportive Services

Item A. Ongoing Service Delivery Costs

- . Job Training/
Placement Services (1) Cost per Service Unit - Salaries and fringe benefits of service providers
- . Physical Health Services (2) Number of Service Units - Overhead expenses
- . Social/Psychological Services (3) Source of payment - Direct cost of material, supplies
- . Educational Services

Item B. Costs Service Start-Up

- . Job Training/
Placement Services (1) Cost per contract (SID and service providers) includes cost of resource search by provider - Salaries and fringe benefits of service provider
- . Physical Health Services (1) Cost per contract (SID and service providers) includes cost of resource search by provider - Overhead expenses
- . Social/Psychological Services (2) Sources of payment - Direct costs of materials, supplies
- . Educational Services

Element 2. Client Maintenance

Item A. Housing

- | | |
|---|---|
| <p>(1) Cost per month of providing housing and any inseperable maintenance costs, e. g., meals in boarding homes, health services in nursing homes.</p> <p>(2) Number of months during which client resided in housing facility</p> <p>(3) Sources of payment</p> | <p>- Salaries and fringe benefits of house employees</p> <p>- Overhead expenses</p> <p>- Direct cost of materials, supplies, etc.</p> |
|---|---|
-

Item B. Subsistence

- | | |
|---|---|
| <p>(1) Amount per month</p> <p>(2) Number of months received</p> <p>(3) Sources of income</p> | <p>- Client income minus client payments towards housing and/or supportive services</p> |
|---|---|
-

Element 3. Service Integration

Item A. Assessment

- (1) Cost of gathering and furnishing assessment information on client - Salaries and fringe benefits of SID staff (BA)
 - (2) Sources of payment - Overhead expenses (SID)
 - Direct costs
-

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Item B. Determining Placement and Writing Prescription

- (1) Cost of Placement and writing prescriptions - Salaries and fringe benefits of A&P team and other resource persons
 - (2) Sources of payment - Overhead expenses
 - Direct costs
-

Item C. Filling Prescription

- (1) Cost of filling prescription - Salaries and fringe benefits of SID staff (BA)
 - (2) Sources of payment - Overhead expenses (SID)
 - Direct costs
-

Item D. Final Decision

- | | | |
|---|---|---|
| (1) Cost of final decision on placement | - | Salaries and fringe benefits of A&P team members and BA |
| (2) Sources of payment | - | Overhead expenses |
| | - | Direct costs |
-

Item E. Tracking and Monitoring

- | | | |
|---|---|---|
| (1) Costs of client tracking and monitoring | - | Salaries and fringe benefits of SID staff and community resource contact person |
| (2) Sources of payment | - | Overhead expenses (SID and community resource) |
| | - | Direct costs |
-

Element 4. Deinstitutionalization Costs

- | | | |
|---------------------------------------|---|---|
| (1) Cost per client release procedure | - | Salaries and fringe benefits of institution staff |
| (2) Sources of payment | - | Overhead expenses |
| | - | Direct costs |
-

Element 5. Lost Economic Productivity

- (1) Cost of client's relative/
guardian giving up employ-
ment to care for client - Monthly salaries and fringe
benefit of relative/guardian
 - Number of months relative/
guardian is out of work
because of client
-

Element 6. Community-Related Costs

- (1) Cost to community of
client release and
community placement - Fear
- Confusion
- Dislike

Benefit Elements

Components of Each Element

Items Included in Each Component

Element 1. Savings of Institutionalization Costs

- (1) Differential treatment costs
- (2) Depreciation
- (3) Recipients of benefits

- Cost per patient day (maintenance and operating costs)-- type of treatment plan
- Depreciation for institution (equipment and buildings)

Element 2. Increased Economic Productivity

- (1) Value of client's labor as a contribution to economic growth

- Salary and fringe benefits of client

Element 3. Psychosocial (Client)

- (1) Benefits of community living on client's psychological and social well-being
 - Life satisfaction
 - Behavior
 - Social adjustment

(2) Recipients of benefits

Element 4. Psychosocial (Community)

- (1) Benefits of client placement on community
 - Increased public awareness
 - Better understanding
 - Service integration

(2) Recipients of benefits

Appendix B
Assessment Digest

 * ASSESSMENT DIGEST *

NUMBER OF CLIENTS PROCESSED: 52

CUST/BENEFIT CLIENTS

 BACKGROUND DATA

VARIABLE	N	%	VARIABLE	N	%
INSTITUTION OF RESIDENCE			RACE		
WSH	32	61.5	WHITE	43	82.7
CSH	2	3.8	BLACK	9	17.3
LISH	11	21.2	OTHER	0	0.0
SSVTC	7	13.5	TOTAL	52	100.0
TOTAL	52	100.0			
CITY OF RESIDENCE			MARITAL STATUS		
BUENA VISTA	1	2.0	SINGLE (NEVER MARRIED)	36	69.2
HARRISONBURG	2	3.9	MARRIED	4	7.7
LEXINGTON	2	3.9	WIDOWED	6	11.5
PORSMOUTH	4	7.7	DIVORCED	3	5.8
STAUNTON	10	19.2	SEPARATED	1	1.9
WAYNESBURG	2	3.9	OTHER	0	0.0
			TOTAL	52	100.0
COUNTY OF RESIDENCE			IN INSTITUTION THIS TIME		
AUGUSTIA	13	25.0	LESS THAN 1 YR.	9	17.3
BATH	1	2.0	1 - 3 YRS.	5	9.6
HIGHLAND	2	3.9	4 - 10 YRS.	15	28.8
RUCKERIDGE	2	3.9	11 - 20 YRS.	11	21.2
RUCKINGHAM	7	13.5	OVER 20 YRS.	12	23.1
TOTAL	51	98.0	TOTAL	52	100.0
AGE AT ASSESSMENT			* MEAN = 13.23 YRS. (N = 52)		
UNDER 18	1	1.9	S.D. = 12.44 YRS.		
18 - 65	36	69.2	RANGE = .26 TO		
OVER 65	15	28.8	44.49 YRS.		
TOTAL	52	100.0			
MEAN = 52.76 YRS. (N = 52)			TYPE ADMISSION		
S.D. = 20.94 YRS.			FIRST	22	42.3
RANGE = 10.14 TO			READMISSION	19	36.5
90.42 YRS.			TRANSFER	11	21.2
			TOTAL	52	100.0
SEX					
MALE	24	46.2			
FEMALE	28	53.8			
TOTAL	52	100.0			

VARIABLE	N	%
ADMISSION STATUS		
VOLUNTARY/SELF	4	7.4
INVOLUNTARY/OTHER	3	5.9
INVOLUNTARY	33	64.7
COURT ORDER	5	9.8
OTHER	6	11.8
TOTAL	51	100.0

VARIABLE	N	%
COMMITTEE ASSIGNED		
UNKNOWN	0	0.0
NO	42	87.5
YES	6	12.5
TOTAL	48	100.0

VARIABLE	N	%
INSTITU. HAS PLANS TO MOVE		
UNKNOWN	3	6.0
NO	31	62.0
YES	16	32.0
TOTAL	50	100.0

VARIABLE	N	%
PRIOR INSTITUTIONALIZATIONS		
NONE	18	34.6
ONE	14	36.5
2 - 3	8	15.4
MORE THAN 3	7	13.5
TOTAL	52	100.0

MEAN = 1.27 (N = 52)
 S.D. = 1.36
 RANGE = .00 III
 4.00

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FAMILY RESOURCE DATA

VARIABLE	N	%
PARENT/GUARDIAN INFORMATION		
UNKNOWN	27	51.4
NO LIVING PAR/GUARD	7	13.5
1 LIVING PARENT	8	15.4
2 LIVING PARENTS	6	11.5
LIVING GUARDIAN(S)	2	3.8
TOTAL	52	100.0

VARIABLE	N	%
UNKNOWN IF ANY WILL		
HAVE CLIENT IN HOME	1	5.0
NONE WILL	4	20.0
HAVE CLIENT IN HOME	4	20.0
1 PARENT WILL	6	30.0
HAVE CLIENT IN HOME	1	5.0
BOTH PARENTS WILL	1	5.0
HAVE CLIENT IN HOME	1	5.0
GUARDIAN(S) WILL	1	5.0
HAVE CLIENT IN HOME	1	5.0
TOTAL	18	100.0

VARIABLE	N	%
MARITAL STATUS/FATHER		
UNKNOWN	2	8.7
MAR/CL'S MOTHER	6	26.1
MAR/OTHER	0	0.0
SEP/CL'S MOTHER	1	4.3
SEP/OTHER	0	0.0
SINGLE (NEVER MAR)	0	0.0
DIVORCED (SINGLE)	3	13.0
WIDOWED (SINGLE)	0	0.0
DECEASED	11	47.0
TOTAL	23	99.9

MARITAL STATUS/MOTHER		
UNKNOWN	3	13.0
MAR/CL'S FATHER	6	26.1
MAR/OTHER	4	17.4
SEP/CL'S FATHER	2	8.7
SEP/OTHER	0	0.0
SINGLE (NEVER MAR)	0	0.0
DIVORCED (SINGLE)	1	4.3
WIDOWED (SINGLE)	3	13.0
DECEASED	4	17.4
TOTAL	23	99.9

MARITAL STATUS/GUARDIAN		
UNKNOWN	0	0.0
MARRIED	3	60.0
SEPARATED	0	0.0
SINGLE (NEVER MAR)	0	0.0
DIVORCED (SINGLE)	1	20.0
WIDOWED (SINGLE)	1	20.0
IN COURT OR STATE	0	0.0
TOTAL	5	100.0

SPOUSE INFORMATION		
UNKNOWN	2	3.8
NO LIVING SPOUSE	46	88.5
HAS LIVING SPOUSE	4	7.7
TOTAL	52	100.0

SPOUSE WILL		
UNKNOWN	0	0.0
NOT HAVE CLIENT IN HOME	3	75.0
HAVE CLIENT IN HOME	1	25.0
TOTAL	4	100.0

CHILD(REN) INFORMATION		
UNKNOWN	1	1.9
NO CHILDREN	38	73.1
HAS CHILD UNDER 18	3	5.8
HAS CHILD 18 OR OVER	10	19.2
TOTAL	52	100.0

VARIABLE	N	%
ADULT CHILD WILL		
UNKNOWN	3	33.3
NOT HAVE CLIENT IN HOME	5	55.6
HAVE CLIENT IN HOME	1	11.1
TOTAL	9	100.0

OTHER INTERESTED PARTIES WILL		
UNKNOWN	14	37.3
NOT HAVE CLIENT IN HOME	25	50.9
HAVE CLIENT IN HOME	4	7.0
TOTAL	51	100.0

CLIENT'S LIVING PREFERENCE		
UNKNOWN	5	10.2
CAN'T MAKE DECISION	2	4.1
NO PREFERENCE	6	12.2
LIVE ALONE	4	8.2
LIVE W/ PARENT/GUARDIAN	8	16.3
LIVE W/SPOUSE	1	2.0
LIVE W/CHILD	2	4.1
LIVE IN STATE INSTITU.	2	4.1
LIVE ELSEWHERE	19	38.8
TOTAL	49	100.0

PREVIOUSLY LIVED WITH		
NO ONE (ALONE)	4	7.7
PARENT(S)	21	40.4
GROWN CHILD	3	5.8
SPOUSE	4	7.7
OTHER RELATIVE	7	13.5
FRIEND(S)	1	1.9
OTHER	12	23.1
TOTAL	52	100.1

PREVIOUSLY LIVED IN		
HOUSE OWNED SELF/FAM	19	36.5
HOUSE RENTED SELF/FAM	10	19.2
APARTMENT	0	0.0
BOARDING HOUSE/HOTEL	2	3.8
NURSING HOME/REG. SIT	4	7.7
OTHER	17	32.7
TOTAL	52	99.9

CONTINUED

1 OF 5

 PHYSICIAN CONCLUSION DATA

VARIABLE	N	%	VARIABLE	N	%
GENERAL PHYSICAL CONDITION			SPECIFIC TREATMENT REGIMEN		
EXCELLENT	0	0.0	UNKNOWN	0	0
GOOD	33	63.5	NONE	5	9
FAIR	18	34.6	YES	47	90
POOR	1	1.9	TOTAL	52	100
TOTAL	52	100.0			
OVERALL APPEARANCE			CONTINUE TREAT. REGIMEN		
NORMAL	27	51.9	UNKNOWN	3	6
UNATTRACTIVE	16	30.8	NO	11	21
TELL IS RETARDED	6	11.5	YES	33	63
OBVIOUS STIGMATA	2	3.8	TOTAL	47	90
MIGHT BE SHUCKING	1	1.9			
TOTAL	52	99.0			
MOBILITY			RECEIVES MEDICATION		
COMPLETELY MOBILE	37	72.5	UNKNOWN	0	0
WALK W/DIFFICULTY	3	5.9	NO	16	31
WALK/STAIRS & PUSH.	5	9.8	YES	36	69
WALK W/ ASSISTANCE	1	2.0	TOTAL	52	100
MOBILE IN WHEEL CHAIR	2	3.9			
NEEDS HELP W/ WH CHAIR	3	5.9	EMPLOYMENT LIMITS/PHYS		
IMMOBILE/BEDFAST	0	0.0	UNKNOWN	1	2
TOTAL	51	100.0	NO	23	45
			YES	27	52
			TOTAL	51	100
INTELLIGENCE			SPECIAL DIET REQUIRED		
ABOVE AVERAGE	2	3.9	UNKNOWN	0	0
AVERAGE	15	29.4	NO	44	84
HARDENLINE RETARDED	5	9.8	YES	8	15
MILDLY RETARDED	7	13.7	TOTAL	52	100
MODERATELY RETARDED	11	21.6			
SEVERELY RETARDED	7	13.7			
PROFOUNDLY RETARDED	0	0.0			
UNDETERMINABLE/TESTED	2	3.9			
UNKNOWN/NOT TESTED	2	3.9			
TOTAL	51	99.0			
RELATIONS WITH OTHERS					
INDIFFERENT	3	5.8			
HOSTILE	0	0.0			
FRIENDLY/PER HOSTILITY	21	40.4			
FRIENDLY	24	46.2			
SUBMISSIVE	1	1.9			
OTHER	3	5.8			
TOTAL	52	100.1			

BODY SYSTEM RECEIVED	PROBLEM IN PAST		CURRENTLY PRESENT		CURRENTLY BEING TREATED	
	N*	%	N*	%	N*	%**
CENTRAL NERVOUS	16	9.0	17	9.4	6	35.3
CIRCULATORY	16	9.0	18	10.0	5	16.7
GASTRO-INTESTINAL	3	1.7	4	2.2	0	0.0
GENITAL-URINARY	6	3.4	6	3.3	0	0.0
METABOLIC	4	2.2	5	2.8	1	20.0
MUSCULAR/SKELETAL	20	11.2	12	6.7	4	33.3
NEOPLASM	3	1.7	2	1.1	1	50.0
RESPIRATORY	5	2.8	4	2.2	1	25.0
HECTAL	1	0.6	0	0.0	0	
RESPIRATORY	2	1.1	3	1.7	0	0.0
SENSE ORGANS	10	5.6	12	6.7	1	8.3
SKIN/LYMPH	10	5.6	10	5.6	2	20.0
MENTAL	15	8.4	15	8.3	4	26.7
SPEECH/LANGUAGE	8	4.5	9	5.0	0	0.0
INTELLIGENCE	22	12.4	22	12.2	5	15.6
BEHAVIORAL	23	12.9	26	14.4	5	11.5
OTHER	14	7.9	15	8.3	2	13.3
TOTAL	178	100.0	180	99.9	31	17.2

* N = NO. OF CLIENTS HAVING AT LEAST ONE PROBLEM WITH THE DESIGNATED BODY SYSTEM
 ** CURRENTLY TREATED PERCENTAGE BASED ON CURRENTLY PRESENT

 EDUCATIONAL HISTORY DATA

VARIABLE	N	%	VARIABLE	N	%
REGULAR SCHOOLING			WANTS TO CONTINUE EDUCATION		
UNKNOWN	5	10.2	UNKNOWN	6	12.0
NONE	10	20.4	NOT APPLICABLE	21	42.0
COMPLETED 1-3 GRADES	12	24.5	NO	15	30.0
COMPLETED 4-7 GRADES	8	16.3	IN REG. ACADEMIC SET.	0	0.0
COMPLETED 8 GRADES	3	6.1	IN VOCATIONAL SCHOOL	4	8.0
COMPLETED 9-11 GRADES	4	8.2	IN SPECIAL ED. SET.	0	0.0
COMPLETED 12 GRADES	3	6.1	IN G.E.D. PROGRAM	0	0.0
COMPLETED 13-15 GRADES	1	2.0	IN OTHER SET.	4	8.0
COMPLETED 16 GRADES	2	4.1	TOTAL	50	100.0
COMPLETED 17 OR MORE	1	2.0			
TOTAL	49	99.9			
* MEAN = 5.43 YRS. (N = 44)					
S.D. = 5.08 YRS.					
RANGE = .00 TO 17.00 YRS.					

SPECIAL UNGRADED CLASS		
UNKNOWN	4	24.3
NONE	27	73.0
COMPLETED 1-3 GRADES	0	0.0
COMPLETED 4-7 GRADES	1	2.7
COMPLETED 8 GRADES	0	0.0
COMPLETED 9-11 GRADES	0	0.0
COMPLETED 12 GRADES	0	0.0
COMPLETED 13 OR MORE	0	0.0
TOTAL	37	100.0
* MEAN = 4.00 YRS. (N = 1)		
S.D. = YRS.		
RANGE = 4.00 TO 4.00 YRS.		

SPECIAL SCHOOL OUTSIDE INST.		
UNKNOWN	9	23.1
NO	24	71.8
YES	2	5.1
TOTAL	39	100.0

SCHOOL IN INSTITUTION		
UNKNOWN	9	23.1
NO	23	59.0
YES	7	17.9
TOTAL	39	100.0

EMPLOYMENT HISTORY DATA

VARIABLE	N	%	VARIABLE	N	%
EMPLOYMENT CAPABILITY			JOB PREFERENCE IN COMM.		
SELF-SUPPORTING	5	9.6	UNKNOWN	4	7.7
PART SELF-SUPPORTING	12	23.1	NOT APPLICABLE	16	30.8
NEEDS ED. OR TRG.	10	19.2	NONE	3	5.8
INCAPABLE	24	46.2	HAS PREFERENCE	29	55.8
OTHER	1	1.9	TOTAL	52	100.1
TOTAL	52	100.0			
MOTIVATION			HAS DRIVER'S LICENSE		
VERY HIGHLY MOTIV.	7	13.5	UNKNOWN	2	3.8
SOMEWHAT MOTIV.	16	30.8	NO	48	92.3
QUESTIONABLE MOTIV.	3	5.8	YES	2	3.8
NOT WELL MOTIV.	3	5.8	TOTAL	52	99.4
NOT MOTIV. AT ALL	4	7.7			
OTHER	4	7.7	HAS ACCESS TO CAR		
TOTAL	37	71.5	UNKNOWN	0	0.0
			NO	1	1.9
			YES, ACCESS	1	1.9
			YES, OWNS CAR	0	0.0
			TOTAL	2	3.8
JBS IN INSTITUTION			ABLE TO USE PUB. TRANS.		
UNKNOWN	1	2.0	UNKNOWN	5	9.6
NONE	19	36.5	NOT APPLICABLE	12	23.1
1 JOB	15	28.8	NO	7	13.5
2 - 3 JOBS	16	30.8	YES	27	51.9
TOTAL	51	100.1	TOTAL	51	99.0
MEAN = 1.08 (N = 50)			WILLING TO USE PUB. TRANS		
S.D. = 1.07			UNKNOWN	1	2.0
RANGE = .00 TO 3.00			NO	0	0.0
			YES	20	39.2
			TOTAL	27	52.8
			CLIENT HAS PROP/ASSETS		
LOC. EVAL. IN INSTITUTION			UNKNOWN	4	7.7
UNKNOWN	7	13.5	NO	31	59.6
NONE	20	38.8	YES	14	27.1
UNREADY TRG/NO RE-EVAL	1	1.9	TOTAL	49	94.4
UNREADY TRG/PLAN RE-EV	2	3.8			
READY TRG/NO REFERRAL	0	0.0	* MEAN = \$ 3,511 (N = 45)		
READY TRG/REFERRED	2	3.8	S.D. = \$ 16,247		
IN TRG PROGRAM	1	1.9	RANGE = \$ 0 TO \$ 100,000		
OTHER	1	1.9			
TOTAL	34	66.7			
VOC. TRG. IN INSTITUTION					
UNKNOWN	1	2.0			
NONE	36	72.0			
TRG IN 1 PROGRAM	10	20.0			
TRG IN MORE THAN 1	3	6.0			
TOTAL	50	100.0			

 COST OF INSTITUTIONALIZATION

INSTITUTION: WSH

PAYER	N	%
1 - COMMONWEALTH OF VA.	15	46.9
2 - CLIENT/FAMILY	1	3.1
3 - THIRD PARTY	4	12.5
1 AND 2	0	0.0
1 AND 3	9	28.1
2 AND 3	1	3.1
1, 2 AND 3	1	3.1
BREAKDOWN NOT AVAILABLE	1	3.1
TOTAL	32	99.9

WITH 32 CLIENTS, AVERAGE COST PER CLIENT MONTH = \$ 206.54

	MEAN	%
COMMONWEALTH PAYS	\$ 195.62	66.0
CLIENT/FAMILY PAYS	\$ 15.86	5.3
THIRD PARTY PAYS	\$ 63.07	21.3
UNACCOUNTED FOR	\$ 21.99	7.4
TOTAL	\$ 206.54	100.0

INSTITUTION: CSH

PAYER	N	%
1 - COMMONWEALTH OF VA.	2	100.0
2 - CLIENT/FAMILY	0	0.0
3 - THIRD PARTY	0	0.0
1 AND 2	0	0.0
1 AND 3	0	0.0
2 AND 3	0	0.0
1, 2 AND 3	0	0.0
BREAKDOWN NOT AVAILABLE	0	0.0
TOTAL	2	100.0

WITH 2 CLIENTS, AVERAGE COST PER CLIENT MONTH = \$ 403.00

	MEAN	%
COMMONWEALTH PAYS	\$ 403.00	100.0
CLIENT/FAMILY PAYS	\$.00	0.0
THIRD PARTY PAYS	\$.00	0.0
UNACCOUNTED FOR	\$.00	0.0
TOTAL	\$ 403.00	100.0

INSTITUTION: LTSM

PAYER	N	%
1 - COMMONWEALTH OF VA.	7	63.6
2 - CLIENT/FAMILY	0	0.0
3 - THIRD PARTY	0	0.0
1 AND 2	0	0.0
1 AND 3	4	36.4
2 AND 3	0	0.0
1, 2 AND 3	0	0.0
BREAKDOWN NOT AVAILABLE	0	0.0
TOTAL	11	100.0

WITH 11 CLIENTS, AVERAGE COST PER CLIENT MONTH = \$ 253.95

	MEAN	%
COMMONWEALTH PAYS	\$ 226.80	89.3
CLIENT/FAMILY PAYS	\$.00	0.0
THIRD PARTY PAYS	\$ 27.15	10.7
UNACCOUNTED FOR	\$.00	0.0
TOTAL	\$ 253.95	100.0

INSTITUTION: SSVTC

PAYER	N	%
1 - COMMONWEALTH OF VA.	6	85.7
2 - CLIENT/FAMILY	0	0.0
3 - THIRD PARTY	1	14.3
1 AND 2	0	0.0
1 AND 3	0	0.0
2 AND 3	0	0.0
1, 2 AND 3	0	0.0
BREAKDOWN NOT AVAILABLE	0	0.0
TOTAL	7	100.0

WITH 7 CLIENTS, AVERAGE COST PER CLIENT MONTH = \$ 412.86

	MEAN	%
COMMONWEALTH PAYS	\$ 353.86	85.7
CLIENT/FAMILY PAYS	\$.00	0.0
THIRD PARTY PAYS	\$ 59.00	14.3
UNACCOUNTED FOR	\$.00	0.0
TOTAL	\$ 412.86	100.0

MAN HOURS

INSTITUTION: WSH

HOURS SPENT COMPILING INFORMATION FOR

	<u>N</u>	<u>MEAN</u>	<u>Z</u>
FORMS 2 THROUGH 7	30	6 HRS. 21 MIN.	82.9
FORM 8	30	1 HRS. 19 MIN.	17.1
ALL ASSESSMENT FORMS (2 - 8)		7 HRS. 40 MIN.	100.0

INSTITUTION: CSH

HOURS SPENT COMPILING INFORMATION FOR

	<u>N</u>	<u>MEAN</u>	<u>Z</u>
FORMS 2 THROUGH 7	2	6 HRS. 30 MIN.	90.2
FORM 8	2	0 HRS. 42 MIN.	9.8
ALL ASSESSMENT FORMS (2 - 8)		7 HRS. 12 MIN.	100.0

INSTITUTION: LTSH

HOURS SPENT COMPILING INFORMATION FOR

	<u>N</u>	<u>MEAN</u>	<u>Z</u>
FORMS 2 THROUGH 7	11	8 HRS. 30 MIN.	82.8
FORM 8	11	1 HRS. 47 MIN.	17.2
ALL ASSESSMENT FORMS (2 - 8)		10 HRS. 25 MIN.	100.0

INSTITUTION: SSVL

HOURS SPENT COMPILING INFORMATION FOR

	<u>N</u>	<u>MEAN</u>	<u>Z</u>
FORMS 2 THROUGH 7	5	6 HRS. 4 MIN.	88.8
FORM 8	5	0 HRS. 40 MIN.	11.2
ALL ASSESSMENT FORMS (2 - 8)		6 HRS. 50 MIN.	100.0

Appendix C

Prescription Digest

 * PRESCRIPTION DIGEST *

NUMBER OF LLIE IS PROCESSED: 52

COST/BENEFIT CLIENTS

Reproduced from
best available copy.

 GENERAL DATA

VARIABLE	N	%	VARIABLE	N	%
INSTITUTION OF RESIDENCE			PRESCRIPTION HISTORY		
LTSM	11	21.2	NOT PREVIOUSLY COME		
WSH	32	61.5	BEFORE TEAM	45	86.5
SSVIC	7	13.5	CONTINUED INSTI PRESC		
CSH	2	3.8	BEFORE	4	7.7
TOTAL	52	100.0	CUMM PLMT PRESC BEFORE-		
CITY OF RESIDENCE			CUMM RFS. UNAVAIL	2	3.8
HUENA VISTA	1	2.0	CUMM PLMT PRESC BEFORE-		
HARRISONBURG	2	3.9	CL IN CUMM/BPKDN OF SEP	0	0.0
LEXINGTON	2	3.9	CUMM PLMT PRESC BEFORE-		
PURITSMOUTH	9	17.6	CL NOW REINSTI	0	0.0
STAUNTON	10	19.6	CUMM PLMT PRESC BEFORE-		
WAYNESBURG	2	3.9	EARLY RELEASE BY INST	0	0.0
COUNTY OF RESIDENCE			OTHER	1	1.9
AUGUSTA	13	25.5	TOTAL	52	99.9
BATH	1	2.0	REASONS STILL IN INSTI		
HIGHLAND	2	3.9	LEGAL REST/CAN'T LIFT	0	0.0
HICKBRIDGE	2	3.9	LEGAL REST/CAN HE LIFT	0	0.0
RICKINGHAM	7	13.7	PHYS COND/CUNTD CARE	0	0.0
TOTAL	51	99.9	BEHAV COND/CUNTD CARE	1	1.6
PRESCRIPTION DECISIONS			OVERALL COND/CUNTD CARE	0	0.0
COMMUNITY PLACEMENT	52	100.0	DANGER TO SELF	1	1.6
CONTINUE IN INSTITUTION	0	0.0	DANGER TO OTHERS	0	0.0
TOTAL	52	100.0	DISCHARGE/NO SEARCH	27	42.2
			DISCHARGE/NO RESRCE	5	7.8
			RECENTLY DISCHARGEABLE	13	20.3
			FAM MEM NO BRIDGE	4	6.3
			INSTI PROTECTIVE	1	1.6
			PLACED OUT/RETURNED	5	7.2
			CL REFUSED TO LEAVE	1	1.6
			INSTI RELIES UN CL	0	0.0
			OTHER	6	9.4
			TOTAL	64	100.2

COMMUNITY PLACEMENT PRESCRIPTIONS DATA

VARIABLE	N	%	VARIABLE	N	%
REASON FOR DECISION			2ND CHOICE HOUSING PRESC		
INAPPROP INSTI INIT	7	13.5	BOARDING HOUSE	3	7.0
INSTI DELETERIOUS	0	0.0	RESIDENTIAL HOTEL	0	0.0
NO FURTHER IMPROVE	20	38.5	FOSTER HOME/M.I.	2	4.7
ALTER PREFERABLE	23	44.2	FOSTER HOME/M.R.	7	16.3
OTHER	2	3.8	FOSTER HOME/J.O.	0	0.0
TOTAL	52	100.0	FOSTER HOME/OTHER	7	16.3
IDEAL HOUSING PRESC			3RD CHOICE HOUSING PRESC		
BOARDING HOUSE	3	5.8	BOARDING HOUSE	2	4.7
RESIDENTIAL HOTEL	1	1.9	RESIDENTIAL HOTEL	2	4.7
FOSTER HOME/M.I.	0	0.0	FOSTER HOME/M.I.	0	0.0
FOSTER HOME/M.R.	3	5.8	FOSTER HOME/M.R.	1	4.7
FOSTER HOME/J.O.	0	0.0	FOSTER HOME/J.O.	0	0.0
FOSTER HOME/OTHER	5	9.6	FOSTER HOME/OTHER	1	4.7
HALFWAY HOUSE/M.I.	1	1.9	HALFWAY HOUSE/M.I.	0	0.0
HALFWAY HOUSE/M.R.	2	3.8	HALFWAY HOUSE/M.R.	2	4.7
HALFWAY HOUSE/J.O.	0	0.0	HALFWAY HOUSE/J.O.	0	0.0
HALFWAY HOUSE/OTHER	1	1.9	HALFWAY HOUSE/OTHER	1	4.7
GROUP HOME/M.I.	0	0.0	GROUP HOME/M.I.	0	0.0
GROUP HOME/M.R.	5	9.6	GROUP HOME/M.R.	1	4.7
GROUP HOME/J.O.	0	0.0	GROUP HOME/J.O.	0	0.0
GROUP HOME/OTHER	2	3.8	GROUP HOME/OTHER	0	0.0
NURSING HOME	7	13.5	NURSING HOME	1	4.7
HOME FOR ADULTS	6	11.5	HOME FOR ADULTS	0	0.0
RESIDE W/RELATIVE	12	23.1	RESIDE W/RELATIVE	4	7.7
INDEP. LIVING	1	1.9	INDEP. LIVING	1	4.7
TRG SCHOOL/BLIND	0	0.0	TRG SCHOOL/BLIND	0	0.0
V.R. RES. FACIL	2	3.8	V.R. RES. FACIL	0	0.0
OTHER	1	1.9	OTHER	1	4.7
TOTAL	52	99.8	TOTAL	23	44.7

VARIABLE	N	%
INCOME SUGGESTIONS		
OWN RESOURCES/INCOME	27	25.7
FAMILY'S RESOURCES	13	12.4
S.S.I.	16	15.2
PUBLIC ASST	22	21.0
MEDICAID	13	12.4
MEDICARE	3	2.9
SUC. SEC. DISABILITY	5	4.8
OTHER DISABILITY	1	1.0
VOC REHAB BENEFITS	5	4.8
OTHER	0	0.0
TOTAL	105	100.2
* MEAN SUGG/LL = 2.02 (N = 52)		
S.D. = 1.11		
RANGE = 0.00 TO 5.00		

VARIABLE	N	%
OTHER PRESCRIPTION AREAS		
JOB TRG/PLACEMENT PRESC		
ELDERLY ACTIVITY LTR	17	28.3
EMP COUNSEL/VEC	4	6.7
EMP COUNSEL/V.R.	11	18.3
EVAL & REF/V.R.	10	16.7
JOB TRG/V.R.	8	13.3
SHELT WKSHOP	6	10.0
OTHER	4	6.7
TOTAL	60	100.0
PHYSICAL HEALTH PRESC		
DENTAL CARE	21	12.5
FAM PLG/SEX ED	13	7.7
REV PHARM INTAKE	10	6.0
MANGMT TRG/BLIND	0	0.0
PHYSICIAN	52	31.0
PHARM W/SUPERVISION	22	13.1
PHARM W/O SUPERVISION	12	7.1
PHYSICAL THERAPY	4	2.4
PROTHESSES	7	4.2
PUB HLTH NURSE ASSGN	15	8.9
VISUAL EVAL	3	1.8
AURAL EVAL	1	0.6
OTHER	8	4.8
TOTAL	168	100.1

VARIABLE	N	%
SUC/PSYCH HEALTH PRESC		
ACTIVITY CNTR/DAY CARE	7	4.1
BEHAVIOR MOD	4	2.3
C.A.T.	27	15.1
DAY HOSP PRUG	0	0.0
FAMILY COUNSEL	21	12.2
GROUP THERAPY	4	2.3
INDIV THERAPY	3	1.7
REV PT'S DIAGNOSIS	13	7.6
LEGAL AID	9	5.2
PROTECT PAYEE ASSGN	1	0.6
MEN HLTH AFTERCARE	40	23.3
PRGR OFFICER ASSGN	0	0.0
SOCIAL CLUB MEM	31	17.0
OTHER	12	7.0
TOTAL	172	100.0

VARIABLE	N	%
EDUCATION PRESC		
ADULT ED	7	46.7
G.E.D. PROGRAM	0	0.0
HEARING THERAPY	0	0.0
HOME TEACHING	0	0.0
PART-TIME SPEC CLASS	0	0.0
POST-H.S. PROGRAM	0	0.0
REGULAR CLASS	0	0.0
SPECIAL CLASS	2	13.3
SPEECH THERAPY	4	26.7
VISITING TEACH ASSGN	0	0.0
OTHER	2	13.3
TOTAL	15	100.0

VARIABLE	N	%
SUMMARY: OTHER AREAS PRESC		
JOB TRG/PLCMT	60	100.0
PHYSICAL HLTH	168	100.0
SUC/PSYCH HEALTH	172	100.0
EDUCATION	15	100.0
TOTAL	415	100.0
* MEAN JOB TRG PL = 1.15 (N = 52)		
S.D. = 0.72		
RANGE = 0.00 TO 3.00		
* MEAN PHYS HLTH = 3.23 (N = 52)		
S.D. = 1.37		
RANGE = 1.00 TO 7.00		
* MEAN SUC/PSYCH = 3.31 (N = 52)		
S.D. = 1.50		
RANGE = 1.00 TO 6.00		
* MEAN EDUCATION = 0.29 (N = 52)		
S.D. = 0.61		
RANGE = 0.00 TO 2.00		
* MEAN ALL OTHER = 7.98 (N = 52)		
S.D. = 2.52		
RANGE = 3.00 TO 14.00		

CONTINUED INSTITUTIONALIZATION PRESCRIPTION DATA

VARIABLE	N	%
REASON FOR DECISION		
TRMT SERV NEEDED	0	0.0
ED/ING SERV NEEDED	0	0.0
EVAL SERV NEEDED	0	0.0
MAINTEN SERV NEEDED	0	0.0
OTHER	0	0.0
TOTAL	0	0.0
LYNCHBURG		
BEH MODIFICATION PRG	0	0.0
CONSTRUCTIVE ACT PRG	0	0.0
ED PRG IN INST	0	0.0
GROUP THERAPY	0	0.0
INDEPENDENT LIVING AREA	0	0.0
INDIVIDUAL THERAPY	0	0.0
MED/DENTAL TREATMENT	0	0.0
PLAY THERAPY	0	0.0
RECREATIONAL PRG	0	0.0
REMOTIVATION PRG	0	0.0
REV PATIENT DIAGNOSIS	0	0.0
REV PHARMACEUT INTAKE	0	0.0
SELF-GOV UNIT	0	0.0
SHeltered WORKSHOP	0	0.0
VOCATIONAL EVALUATION	0	0.0
VOCATIONAL TRAINING	0	0.0
WORK ACTIVITY CENTER	0	0.0
WORK THERAPY PROGRAM	0	0.0
FAMILY PLANNING/SEX EDUCATION	0	0.0
SENSORY/MOTOR STIMULATION	0	0.0
CAMP ADJUSTMENT TRAINING (CAT)	0	0.0
FAMILY COUNSELING	0	0.0
VOL/HR WRK ASSIGNED	0	0.0
OTHER	0	0.0
TOTAL	0	0.0
* MEAN ELE PR =	(N = 0)	
S.D. =		
RANGE =	0.00 TO 0.00	

VARIABLE	N	Z
WESTERN STATE		
CHILDREN		
EDUCATION PROGRAM IN INST	0	0.0
GROUP PSYCHOTHERAPY	0	0.0
MEDICAL/DENTAL TREATMENT	0	0.0
RECREATIONAL THERAPY	0	0.0
ADULT		
BEHAVIOR MODIFICATION	0	0.0
CHRP	0	0.0
EVALUATION BY VDC REHAB	0	0.0
GROUP THERAPY	0	0.0
INDIVIDUAL THERAPY	0	0.0
LEGAL AID	0	0.0
MEDICAL/DENTAL TREATMENT	0	0.0
MENTAL HEALTH WORKER ASSIGNED	0	0.0
OCCUPATIONAL THERAPY	0	0.0
PHYSICAL FITNESS PROGRAM	0	0.0
REALITY ORIENTATION	0	0.0
RECREATIONAL THERAPY	0	0.0
REVIEW PATIENT'S DIAGNOSIS	0	0.0
REVIEW PHARMACEUTICAL INTAKE	0	0.0
SOCIAL CLUB MEMBERSHIP	0	0.0
TRG. PROG FOR BLIND (VCR)	0	0.0
WORK THERAPY	0	0.0
FAMILY PLANNING/SEX EDUCATION	0	0.0
COMM ADJUSTMNT TRAINING (CAT)	0	0.0
COMM READJUSTMNT PROGRAM (CRP)	0	0.0
FAMILY COUNSELING	0	0.0
OTHER	0	0.0
TOTAL	0	0.0
* MEAN ELE PR =	(N =	0)
S.D. =		
RANGE =	0.00 TO	0.00

VARIABLE

0 1

VARIABLE	0	1
SOUTHSIDE VIRGINIA		
FAMILY COUNSELING	0	0.0
VOL/MH WKR ASSIGNED (NOT FGP)	0	0.0
ACTIVITIES/DAILY LIVING	0	0.0
BEHAVIOR MOD PROGRAM	0	0.0
COMMUNITY ADJUSTMENT TRG	0	0.0
CONSTRUCTIVE ACTIVITY PROG	0	0.0
EDUCATION: ACADEMIC PROGRAM	0	0.0
FAMILY PLG/SEX EDUCATION	0	0.0
GROUP THERAPY	0	0.0
INDIVIDUAL THERAPY	0	0.0
MEDICAL/DENTAL TREATMENT	0	0.0
MOTOR SKILLS DEVELOPMENT	0	0.0
OMEGA PROGRAM	0	0.0
PRE-SCHOOL PROGRAM	0	0.0
PHYSICAL THERAPY	0	0.0
RECREATIONAL THERAPY	0	0.0
REMOTIVATION PROGRAM	0	0.0
REVIEW PATIENT'S DIAG	0	0.0
REVIEW PHARM INTAKE	0	0.0
SENSORY/MOTOR STIM	0	0.0
SHELTERED WORKSHOP	0	0.0
SPEECH THERAPY	0	0.0
VOCATIONAL EVALUATION	0	0.0
VOCATIONAL TRAINING	0	0.0
WORK ADJUSTMENT PROGRAM	0	0.0
WORK PLACEMENT	0	0.0
LANGUAGE DEVELOPMENT	0	0.0
FOSTER GRANDPARENTS PROGRAM	0	0.0
OTHER	0	0.0
TOTAL	0	0.0

* MEAN ELE PR = (N = 0)
 S.D. =
 RANGE = 0.00 TO 0.00

VARIABLE	N	Z
CENTRAL STATE		
GOOD GROOMING TRAINING	0	0.0
BEHAVIOR MODIFICATION	0	0.0
COMM ADJUSTMNT TRAINING (CAT)	0	0.0
EDUCATION PROGRAM	0	0.0
FAMILY COUNSELING	0	0.0
FAMILY PLANNING/SEX EDUCATION	0	0.0
GROUP THERAPY	0	0.0
INDIVIDUAL THERAPY	0	0.0
LEGAL AID	0	0.0
MEDICAL/DENTAL TREATMENT	0	0.0
MUSIC THERAPY	0	0.0
OCCUPATIONAL THERAPY	0	0.0
PSYCHOLOGICAL EVALUATION	0	0.0
REALITY ORIENTATION	0	0.0
RECREATIONAL THERAPY	0	0.0
REVIEW PATIENT'S DIAGNOSIS	0	0.0
REVIEW PHARMACEUTICAL INTAKE	0	0.0
SENSORY TRAINING	0	0.0
SHELTERED WORKSHOP (C.H.A.P)	0	0.0
SOCIAL CLUB MEMBERSHIP	0	0.0
VOCATIONAL EVALUATION	0	0.0
VOCATIONAL TRAINING	0	0.0
VOL/MH WRK ASSIGNED	0	0.0
WORK PLACEMENT	0	0.0
WORK RELEASE PROGRAM	0	0.0
ORIENTATION FOR NEW RESIDENTS	0	0.0
WARD GOVERNMENT	0	0.0
OTHER	0	0.0
TOTAL	0	0.0
* MEAN ELE PR =	(N = 0)	
S.D. =		
RANGE = 0.00 TO 0.00		

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: 3

N = 3

ECONOMIC BENEFITS

ECONOMIC COSTS

Savings due to Decreased Institutionalization Costs	\$ <u>42,607.12</u>
Increased Economic Productivity	\$ <u>1,448.15</u>
Total Economic Benefits	\$ <u>132,165.74</u>
Average Economic Benefits per Client	\$ <u>44,055.25</u>

1. Costs of Community Supportive Services	\$ <u>7,915.01</u>
2. Costs of Client Maintenance in the Community	\$ <u>16,744.90</u>
3. Service Integration Costs	\$ <u>1,133.23</u>
4. Deinstitutionalization Costs	\$ <u>39.46</u>
5. Costs of Lost Economic Productivity	\$ <u> </u>
Total Economic Costs	\$ <u>77,497.78</u>
Total Economic Costs per Client	\$ <u>25,832.60</u>

Ratio of Average Economic Benefits over Average Costs 1.70

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM = 3

COST ELEMENTS	N ₇₄ =3	N ₇₅ =3	N ₇₆ =3	N ₇₇ =3	N ₇₈ =3	N ₇₉ =3	N ₈₀ =3	N ₈₁ =3	N ₈₂ =3	N ₈₃ =3	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	985.96	1,463.39	880.47	815.74	755.12	699.64	647.26	598.96	554.78	513.69	7,915.01
A. On-going Service Delivery Costs	976.88	1,463.39	880.47	815.74	755.12	699.64	647.26	598.96	554.78	513.69	7,905.93
(1) Job Training/Placement Services	732.08	1,263.25	719.25	666.37	616.86	571.53	528.74	489.29	453.20	419.63	6,460.20
(2) Physical Health Services	117.62	88.25	81.67	75.67	70.04	64.90	60.04	55.56	51.46	47.85	712.66
(3) Social/Psych Health Services	127.18	111.89	79.55	73.70	68.22	63.21	58.48	54.11	50.12	46.41	732.87
(4) Educational Services											
B. Costs of Service Start-up	9.08										9.08
2. Client Maintenance	1,479.67	2,263.15	2,034.51	1,940.54	1,796.34	1,664.37	1,539.73	1,424.85	1,319.74	1,222.00	16,744.90
3. Service Integration Costs (SID Costs)	383.71	111.12	102.84	95.28	88.20	81.72	75.60	69.96	64.80	60.00	1,133.23
A. Assessment Costs	63.49										63.49
B. Cost of Placement Decision	141.52										141.52
C. Cost of Filling Prescription	53.39										53.39
D. Client Tracking & Monitoring Costs	125.31	111.12	102.84	95.28	88.20	81.72	75.60	69.96	64.80	60.00	871.83
4. Deinstitutionalization Costs	39.46										39.46
5. Lost Economic Productivity											
TOTAL COSTS	2,888.80	3,837.66	3,077.82	2,851.56	2,639.66	2,445.73	2,262.59	2,093.77	1,939.32	1,795.69	25,832.60

* All dollars valued at 1974 prices .

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - 3

	N74=3	N75=3	N76=3	N77=3	N78=3	N79=3	N80=3	N81=3	N82=3	N83=3	
<u>BENEFIT ELEMENTS</u>	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	4,139.46	5,703.02	5,278.07	4,890.06	4,526.69	4,194.12	3,880.02	3,590.56	3,325.73	3,079.39	42,607.12
2. Inc. Econ. Productivity	19.05	61.45	220.31	204.12	188.95	175.07	161.95	149.87	138.82	128.54	1,448.13
TOTAL BENEFITS	4,158.51	5,764.47	5,498.38	5,094.18	4,715.64	4,369.19	4,041.97	3,740.43	3,464.55	3,207.93	44,055.25

Exhibit III

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS*

STRACH - 3

COSTS OVER 10 YEARS

COST ELEMENTS	CL 1	CL 2	CL 3	CL 4	CL 5	CL 6	CL 7	CL 8	CL 9	CL 10	Sum of the Averages
1. Community Supportive Services	15,307.44	4,589.67	3,757.92								7,915.01
A. On-going Service Delivery Costs	15,373.89	4,585.01	3,755.90								7,905.93
(1) Job Training/Placement Services	13,056.58	2,575.56	3,745.45								6,467.20
(2) Physical Health Services	752.94	1,355.60									712.66
(3) Social/Psych Health Services	1,569.37	618.87	10.45								732.57
(4) Educational Services											
B. Costs of Service Start-up	18.56	6.66	2.02								9.08
2. Client Maintenance	15,770.74	18,324.54	16,130.20								16,744.90
3. Service Integration Costs (SID Costs)	2,168.88	585.80	642.00								1,135.23
A. Assessment Costs	81.02	50.90	58.54								65.49
B. Cost of Placement Decision	142.84	105.59	176.12								141.52
C. Cost of Filing Prescription	130.98	20.87	8.32								53.39
D. Client Tracking & Monitoring Costs	1,814.04	411.44	399.02								874.63
4. Deinstitutionalization Costs	33.55	42.42	42.42								39.46
5. Lost Economic Productivity											
TOTAL COSTS	33,379.61	23,545.43	20,572.74								25,832.60

* All dollars valued at 1974 prices

Exhibit III (2)

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS

STRATUM = 3 _____

BENEFIT ELEMENTS

BENEFITS OVER 10 YEARS

	CL ₁	CL ₂	CL ₃	CL ₄	CL ₅	CL ₆	CL ₇	CL ₈	CL ₉	CL ₁₀	Sum of the Averages
ings of Inst'carion Costs	37,785.36	31,470.02	58,565.97								42,607.12
reased Econ. Productivity	103.26		4,241.13								1,448.13
TOTAL BENEFITS	37,888.62	31,470.02	62,807.10								44,055.25

Exhibit IV

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS*

STRATUM = 3 N = 3

COST ELEMENTS

SOURCE OF FUNDS OVER 10 YEARS

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Averages</u>
1. Community Supportive Services	5,294.50	2,119.69	500.82	7,915.01
A. On-going Service Delivery Costs	5,290.99	2,115.10	499.84	7,905.93
(1) Job Training/Placement Services	5,144.66	1,169.42	146.12	6,460.20
(2) Physical Health Services	146.33	444.11	122.42	712.86
(3) Social/Psych Health Services		501.57	231.30	732.87
(4) Educational Services				
B. Costs of Service Start-Up	3.51	4.59	0.98	9.08
2. Client Maintenance	4,102.65	7,901.40	4,740.85	16,744.90
3. Service Interaction Costs (SID Costs)	777.69	355.54		1,133.23
A. Assessment Costs	56.51	6.98		63.49
B. Cost of Placement Decision		141.52		141.52
C. Cost of Filling Prescription	47.51	5.88		53.39
D. Client Tracking and Monitoring Costs	673.67	201.16		874.83
4. Deinstitutionalization Costs		39.46		39.46
5. Lost Economic Productivity				
TOTAL COSTS	10,174.84	10,416.09	5,241.67	25,832.60

*All dollars valued at 1974 prices

Exhibit IV (2)

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS

STRATUM = 3 N= 3

BENEFIT ELEMENTS

DISTRIBUTION OF FUNDS, OVER LIFETIME OF AVERAGE CLIENT

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Average</u>
<u>Savings of Institutionalization Costs</u>		42,607.12		42,607.12
<u>Increased Economic Productivity</u>	1,332.58	115.55		1,448.13
TOTAL BENEFITS	1,332.58	42,722.67		44,055.25

Exhibit V

SOCIETAL COSTS VERSUS TOTAL COSTS *

STRATUM = 3

N = 3

COST ELEMENTS	COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM	TOTAL SOCIETAL COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM
1. Community Supportive Services	7,931.39	7,915.01
A. On-going Service Delivery Costs	7,921.43	7,905.93
(1) Job Training/Placement Services	6,460.20	6,460.20
(2) Physical Health Services	712.86	712.86
(3) Social/Psych Health Services	748.37	732.87
(4) Educational Services		
B. Costs of Service Start-up	9.96	9.08
2. Client Maintenance	16,744.90	16,744.90
3. Service Integration Costs (SID costs)	1,133.23	1,133.23
A. Assessment Cost	63.49	63.49
B. Cost of Placement Decision	141.52	141.52
C. Cost of Filling Prescription	53.39	53.39
D. Client Tracking and Monitoring Costs	874.83	874.83
4. Deinstitutionalization Costs	39.46	39.46
5. Lost Economic Productivity		
TOTAL COSTS	25,845.98	25,832.60

*All dollars valued at 1974 prices

Exhibit V (2)

SOCIETAL COSTS VERSUS TOTAL COSTS

STRATUM - 3

N - 3

BENEFIT ELEMENTS

TOTAL BENEFITS OVER LIFETIME
OF AVERAGE CLIENT IN STRATUM

TOTAL SOCIETAL BENEFITS OVER LIFETIME
OF AVERAGE CLIENT IN STRATUM

Savings of Institutionalization Costs	42,607.12	42,607.12
Increased Economic Productivity	7,979.36	1,448.13
TOTAL BENEFITS	50,586.48	44,055.25

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: 5 N - 10

ECONOMIC BENEFITS

.. Savings due to Decreased Institutionalization Costs	\$ <u>43,374.86</u>
! Increased Economic Productivity	\$ <u> </u>
Total Economic Benefits	\$ <u>416,810.66</u>
Total Economic Benefits per Client	\$ <u>43,374.86</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>1,369.20</u>
2. Costs of Client Maintenance in the Community	\$ <u>41,300.36</u>
3. Service Integration Costs	\$ <u>1,065.02</u>
4. Deinstitutionalization Costs	\$ <u>36.21</u>
5. Costs of Lost Economic Productivity	\$ <u> </u>
Total Economic Costs	\$ <u>413,594.04</u>
Total Economic Costs per Client	\$ <u>43,770.79</u>

Ratio of Average Economic Benefits over Average Costs 0.99

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM - 5

COST ELEMENTS	N ₇₄ =10	N ₇₅ =10	N ₇₆ =10	N ₇₇ =10	N ₇₈ =10	N ₇₉ =10	N ₈₀ =9	N ₈₁ =9	N ₈₂ =5	N ₈₃ =	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	80.71	186.33	172.44	159.76	147.53	137.02	128.23	118.67	121.88	116.22	1,369.20
A. On-going Service Delivery Costs	68.38	186.33	172.44	159.76	147.53	137.02	128.23	118.67	121.88	116.22	1,356.67
(1) Job Training/Placement Services	8.98	33.52	31.02	28.74	26.60	24.65	25.33	23.14	24.43	25.55	252.56
(2) Physical Health Services	31.45	117.15	108.42	100.45	92.93	86.15	75.95	71.29	71.34	67.33	617.33
(3) Social/Psych Health Services	27.95	35.66	33.00	30.57	28.30	26.22	26.95	24.94	25.92	27.55	287.58
(4) Educational Services											
B. Costs of Service Start-up	12.33										12.33
2. Client Maintenance	3,048.50	5,726.01	5,299.34	4,909.78	4,544.95	4,211.03	3,702.72	3,426.49	3,424.68	3,076.86	41,300.36
3. Service Integration Costs (SID Costs)	380.98	112.55	89.88	83.17	76.98	71.33	67.44	62.40	61.36	58.93	1,065.02
A. Assessment Costs	102.24										102.24
B. Cost of Placement Decision	120.51										120.51
C. Cost of Filling Prescription	62.42										62.42
D. Client Tracking & Monitoring Costs	95.81	112.55	89.88	83.17	76.98	71.33	67.44	62.40	61.36	58.93	779.65
4. Deinstitutionalization Costs	36.21										36.21
5. Lost Economic Productivity											
TOTAL COSTS	3,546.40	6,024.89	5,561.66	5,152.71	4,769.81	4,411.38	3,898.39	3,607.56	3,608.00	3,181.99	43,770.79

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM = 5

	N ₇₄ =10	N ₇₅ =10	N ₇₆ =10	N ₇₇ =10	N ₇₈ =10	N ₇₉ =10	N ₈₀ =9	N ₈₁ =9	N ₈₂ =8	N ₈₃ =7	Sum of the Averages
<u>BENEFIT ELEMENTS</u>	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982		
1. Savings of Inst. Costs	4,211.09	5,994.46	5,547.78	5,139.95	4,758.02	4,408.44	3,917.22	3,584.02	3,009.86	2,804.02	43,374.86
2. Inc. Econ. Productivity											
TOTAL BENEFITS	4,211.09	5,994.46	5,547.78	5,139.95	4,758.02	4,408.44	3,917.22	3,584.02	3,009.86	2,804.02	43,374.86

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS*

STRACH - 5

COST ELEMENTS	COSTS OVER 10 YEARS										Sum of the Averages
	CL 4	CL 5	CL 6	CL 7	CL 8	CL 9	CL 10	CL 11	CL 12	CL 13	
1. Community Supportive Services	3,294.12	3.13	173.53	.11	1,139.28	1,058.24	733.74	2,340.46	3,023.48	1,149.28	1,369.20
A. On-going Service Delivery Costs	3,271.32		166.40		1,139.28	1,049.28	733.74	2,334.36	3,021.06	1,145.64	1,356.67
(1) Job Training/Placement Services									2,350.53		252.56
(2) Physical Health Services	2,207.98		166.40		1,139.28	1,049.28	733.74	1,049.95	1,057.09	1,145.64	817.23
(3) Social/Psych Health Services	973.34							1,264.40	562.04		237.65
(4) Educational Services											
B. Costs of Service Start-up	22.80	3.13	7.13	69.11		8.96		6.10	2.42	3.64	12.51
2. Client Maintenance	16,115.40	60,166.40	14,624.96	66,714.00	56,584.24	51,085.44	37,187.42	17,658.40	15,062.74	55,405.44	41,302.36
3. Service Integration Costs (SID Costs)	844.50	666.29	558.54	1,182.02	817.79	922.05	580.93	2,657.55	1,139.54	875.21	1,065.02
A. Assessment Costs	78.95	30.55	42.52	71.26	111.13	133.61	91.63	230.79	89.48	142.53	102.24
B. Cost of Placement Decision	167.83	145.46	100.70	134.26	134.26	172.31	89.51	79.20	91.50	90.10	120.51
C. Cost of Filling Prescription	173.89	15.27	50.65	76.36	3.52	82.98	10.18	41.05	107.90	62.42	62.42
D. Client Tracking & Monitoring Costs	423.83	475.01	364.67	900.14	568.85	533.15	389.61	2,306.81	651.06	578.16	779.65
4. Deinstitutionalization Costs	33.55	33.55	33.55	33.55	33.55	33.55	33.55	42.42	42.42	42.42	36.21
5. Lost Economic Productivity											
TOTAL COSTS	20,287.57	60,869.37	15,390.58	67,998.68	58,574.86	53,099.28	38,535.64	22,099.13	19,268.58	57,470.38	43,770.79

* All dollars valued at 1974 prices

Exhibit III (2)

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS

STRATUM = 5

BENEFIT ELEMENTS

BENEFITS OVER 10 YEARS

	<u>CL 4</u>	<u>CL 5</u>	<u>CL 6</u>	<u>CL 7</u>	<u>CL 8</u>	<u>CL 9</u>	<u>CL 10</u>	<u>CL 11</u>	<u>CL 12</u>	<u>CL 13</u>	Sum of the Averages
Savings of Insti'zation Costs	39,765.56	42,170.43	58,850.51	65,047.18	35,884.31	49,949.64	36,503.41	31,843.26	28,917.54	27,878.82	43,374.86
Increased Econ. Productivity											
TOTAL BENEFITS	39,765.56	42,170.43	58,850.51	65,047.18	35,884.31	49,949.64	36,503.41	31,843.26	28,917.54	27,878.82	43,374.86

Exhibit IV

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS*

STRATUM - 5 N - 10

COST ELEMENTS	SOURCE OF FUNDS OVER 10 YEARS			Sum of the Averages
	Federal	State	Local	
1. Community Supportive Services	703.05	506.67	158.48	1,369.20
A. On-going Service Delivery Costs	698.21	500.02	158.64	1,356.87
(1) Job Training/Placement Services	209.63		42.93	252.56
(2) Physical Health Services	488.58	327.89	0.76	817.23
(3) Social/Psych Health Services		172.13	114.95	287.08
(4) Educational Services				
B. Costs of Service Start-Up	4.84	6.65	0.84	12.33
2. Client Maintenance	25,137.30	15,019.93	1,143.13	41,300.36
3. Service Integration Costs (SID Costs)	755.31	309.71		1,065.02
A. Assessment Costs	91.00	11.24		102.24
B. Cost of Placement Decision		120.51		120.51
C. Cost of Filling Prescription	55.55	6.87		62.42
D. Client Tracking and Monitoring Costs	608.76	171.09		779.85
4. Deinstitutionalization Costs		36.21		36.21
5. Lost Economic Productivity				
TOTAL COSTS	26,595.66	15,872.52	1,302.61	43,770.79

*All dollars valued at 1974 prices

Exhibit IV (2)

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS

STRATUM = 5 N = 10

EFIT ELEMENTS

DISTRIBUTION OF FUNDS, OVER LIFETIME OF AVERAGE CLIENT

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Average:</u>
<u>Savings of Institutionalization Costs</u>	13,412.90	29,961.96		43,374.86
<u>Increased Economic Productivity</u>				
TOTAL BENEFITS	13,412.90	29,961.96		43,374.86

Exhibit V

SOCIETAL COSTS VERSUS TOTAL COSTS *

STRATUM = 5 N = 10

<u>COST ELEMENTS</u>	<u>COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>	<u>TOTAL SOCIETAL COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>
1. Community Supportive Services	1,388.80	1,369.26
A. On-going Service Delivery Costs	1,371.38	1,356.87
(1) Job Training/Placement Services	252.56	252.56
(2) Physical Health Services	817.23	817.23
(3) Social/Psych Health Services	301.59	287.08
(4) Educational Services		
B. Costs of Service Start-up	17.42	12.33
2. Client Maintenance	41,300.36	41,300.36
3. Service Integration Costs (SID costs)	1,065.02	1,065.02
A. Assessment Cost	102.24	102.24
B. Cost of Placement Decision	120.51	120.51
C. Cost of Filling Prescription	62.42	62.42
D. Client Tracking and Monitoring Costs	779.85	779.85
4. Deinstitutionalization Costs	36.21	36.21
5. Lost Economic Productivity		
TOTAL COSTS	42,790.39	43,770.79

*All dollars valued at 1974 prices

Exhibit V (2)

SOCIETAL COSTS VERSUS TOTAL COSTS

STRATUM - 5

N - 10

<u>BENEFIT ELEMENTS</u>	<u>TOTAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM</u>	<u>TOTAL SOCIETAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM</u>
1. Savings of Institutionalization Costs	43,374.86	43,374.86
2. Increased Economic Productivity		
TOTAL BENEFITS	43,374.86	43,374.86

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: 6

N = 4

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>50,819.08</u>
2. Increased Economic Productivity	\$ _____
Total Economic Benefits	\$ <u>178,004.92</u>
Total Economic Benefits per Client	\$ <u>50,819.08</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>445.79</u>
2. Costs of Client Maintenance in the Community	\$ <u>2,816.18</u>
3. Service Integration Costs	\$ <u>988.73</u>
4. Deinstitutionalization Costs	\$ <u>33.55</u>
5. Costs of Lost Economic Productivity	\$ _____
Total Economic Costs	\$ <u>16,690.65</u>
Total Economic Costs per Client	\$ <u>4,284.25</u>

Ratio of Average Economic Benefits over Average Costs 11.86

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM - _____

COST ELEMENTS	N ₇₄ = 4	N ₇₅ = 4	N ₇₆ = 4	N ₇₇ = 4	N ₇₈ = 4	N ₇₉ = 4	N ₈₀ = 3	N ₈₁ = 3	N ₈₂ = 3	N ₈₃ = 2	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	100.81	56.23	52.04	48.21	44.63	41.35	25.80	23.88	22.12	30.32	445.79
A. On-going Service Delivery Costs	92.74	56.23	52.04	48.21	44.63	41.35	25.80	23.88	22.12	33.72	437.72
(1) Job Training/Placement Services	47.32										47.32
(2) Physical Health Services	32.82	36.23	33.53	31.06	28.75	26.64	7.66	7.09	6.57	5.12	219.27
(3) Social/Psych Health Services	12.85	20.00	18.51	17.15	15.88	14.71	18.14	16.79	15.55	21.80	170.93
(4) Educational Services											
B. Costs of Service Start-up	8.07										8.07
2. Client Maintenance	525.80	531.15	491.58	455.44	421.59	390.62					2,816.18
3. Service Integration Costs (SID Costs)	313.98	96.11	88.95	82.41	76.28	70.68	74.58	69.02	63.93	52.79	988.73
A. Assessment Costs	79.95										79.95
B. Cost of Placement Decision	85.87										85.87
C. Cost of Filling Prescription	16.60										16.60
D. Client Tracking & Monitoring Costs	131.56	96.11	88.95	82.41	76.28	70.68	74.58	69.02	63.93	52.79	806.31
4. Deinstitutionalization Costs	33.55										33.55
5. Lost Economic Productivity											
TOTAL COSTS	974.14	683.49	632.57	586.06	542.50	502.65	100.38	92.90	86.05	83.51	4,284.25

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - 6

N74= 4 N75= 4 N76= 4 N77= 4 N78= 4 N79= 4 N80= 3 N81= 3 N82= 3 N83= 2

BENEFIT ELEMENTS	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	6,792.85	6,329.06	5,857.46	5,426.86	5,023.61	4,649.03	4,504.14	4,168.11	3,856.15	4,211.81	50,819.08
2. Inc. Econ. Productivity											
TOTAL BENEFITS	6,792.85	6,329.06	5,857.46	5,426.86	5,023.61	4,649.03	4,504.14	4,168.11	3,856.15	4,211.81	50,819.08

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS*

STRATUM - 6

COSTS OVER 10 YEARS

COST ELEMENTS	CL 14	CL 15	CL 16	CL 17	CL 18	CL 19	CL 20	CL 21	CL 22	CL 23	CL 24	Sum of the Averages
1. Community Supportive Services	189.28	7.28	611.95	841.39								1,649.70
A. On-going Service Delivery Costs	189.28	7.28	589.16	839.17								1,625.79
(1) Job Training/Placement Services	189.28											189.28
(2) Physical Health Services			589.16	249.12								838.28
(3) Social/Psych Health Services				590.05								590.05
(4) Educational Services												
B. Costs of Service Start-up		7.23	22.79	2.22								32.24
2. Client Maintenance			11,264.73									11,264.73
3. Service Integration Costs (SID Costs)	1,150.15	649.70	491.35	1,350.62								3,641.82
A. Assessment Costs	35.63	78.95	72.88	132.35								319.81
B. Cost of Placement Decision	24.61	50.34	111.89	156.64								343.48
C. Cost of Filling Prescription	19.00	12.63	25.10	9.67								66.40
D. Client Tracking & Monitoring Costs	1,070.91	507.78	281.48	1,051.96								3,912.13
4. Deinstitutionalization Costs	33.55	33.55	33.55	33.55								134.20
5. Lost Economic Productivity												
TOTAL COSTS	1,372.98	690.53	12,401.58	2,225.56								16,690.65

* All dollars valued at 1974 prices

Exhibit III (2)

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS

STRATUM - 6

BENEFIT ELEMENTS

BENEFITS OVER 10 YEARS

	CL 14	CL 15	CL 16	CL 17	CL	CL	CL	CL	CL	CL	Sum of the Averages
Savings of Insti'zation Costs	32,221.93	60,529.03	25,303.26	59,950.70							50,819.08
Increased Econ. Productivity											
TOTAL BENEFITS	32,221.93	60,529.03	25,303.26	59,950.70							50,819.08

Exhibit IV

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS*

STRATUM - 6 N - 4

COST ELEMENTS	SOURCE OF FUNDS OVER 10 YEARS			Sum of the Averages
	Federal	State	Local	
1. Community Supportive Services	128.01	245.96	71.82	445.79
A. On-going Service Delivery Costs	127.65	238.83	71.24	437.72
(1) Job Training/Placement Services	39.28		8.04	47.32
(2) Physical Health Services	88.37	112.34	18.76	219.47
(3) Social/Psych Health Services		126.49	44.44	170.93
(4) Educational Services				
B. Costs of Service Start-Up	0.36	7.13	0.58	8.07
2. Client Maintenance	1,689.71	1,126.47		2,816.18
3. Service Integration Costs (SID Costs)	709.07	279.66		988.73
A. Assessment Costs	71.16	8.79		79.95
B. Cost of Placement Decision		85.87		85.87
C. Cost of Filling Prescription	14.78	1.82		16.60
D. Client Tracking and Monitoring Costs	623.13	183.18		806.31
4. Deinstitutionalization Costs		33.55		33.55
5. Lost Economic Productivity				
TOTAL COSTS	2,526.79	1,685.64	71.82	4,284.25

*All dollars valued at 1974 prices

Exhibit IV (2)

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS

STRATUM = 6 N= 4

BENEFIT ELEMENTS

DISTRIBUTION OF FUNDS, OVER LIFETIME OF AVERAGE CLIENT

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Average</u>
1. <u>Savings of Institutionalization Costs</u>	17,492.43	33,326.65		50,819.08
2. <u>Increased Economic Productivity</u>				
TOTAL BENEFITS	17,492.43	33,326.65		50,819.08

Exhibit V (2)

SOCIETAL COSTS VERSUS TOTAL COSTS

STRATUM - 6 N - 4

<u>BENEFIT ELEMENTS</u>	TOTAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM	TOTAL SOCIETAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM
1. Savings of Institutionalization Costs	50,819.08	50,819.08
2. Increased Economic Productivity		
TOTAL BENEFITS	50,819.08	50,819.08

Exhibit V

SOCIETAL COSTS VERSUS TOTAL COSTS *

STRATUM = 6 N = 4

COST ELEMENTS	COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM	TOTAL SOCIETAL COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM
1. Community Supportive Services	449.69	445.79
A. On-going Service Delivery Costs	437.72	437.72
(1) Job Training/Placement Services	47.32	47.32
(2) Physical Health Services	219.47	219.47
(3) Social/Psych Health Services	170.93	170.93
(4) Educational Services		
B. Costs of Service Start-up	11.97	8.07
2. Client Maintenance	2,816.18	2,816.18
3. Service Integration Costs (SID costs)	988.73	988.73
A. Assessment Cost	79.95	79.95
B. Cost of Placement Decision	85.87	85.87
C. Cost of Filling Prescription	16.60	16.60
D. Client Tracking and Monitoring Costs	806.31	806.31
4. Deinstitutionalization Costs	33.55	33.55
5. Lost Economic Productivity		
TOTAL COSTS	4,288.15	4,284.25

*All dollars valued at 1974 prices

Exhibit V (2)

SOCIETAL COSTS VERSUS TOTAL COSTS

STRATUM - 6 N - 4

<u>BENEFIT ELEMENTS</u>	TOTAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM	TOTAL SOCIETAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM
1. Savings of Institutionalization Costs	50,819.08	50,819.08
2. Increased Economic Productivity		
TOTAL BENEFITS	50,819.08	50,819.08

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: 7

N = 1

ECONOMIC BENEFITS

.. Savings due to Decreased Institutionalization Costs	\$ <u>47,781.02</u>
.. Increased Economic Productivity	\$ _____
Total Economic Benefits	\$ <u>47,781.02</u>
Total Economic Benefits per Client	\$ <u>47,781.02</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>442.70</u>
2. Costs of Client Maintenance in the Community	\$ <u>7,375.68</u>
3. Service Integration Costs	\$ <u>523.42</u>
4. Deinstitutionalization Costs	\$ <u>20.51</u>
5. Costs of Lost Economic Productivity	\$ _____
Total Economic Costs	\$ <u>8,362.31</u>
Total Economic Costs per Client	\$ <u>8,362.31</u>

Ratio of Average Economic Benefits over Average Costs 5.71

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM - 7

COST ELEMENTS	N ₇₄ ⁻¹	N ₇₅ ⁻¹	N ₇₆ ⁻¹	N ₇₇ ⁻¹	N ₇₈ ⁻¹	N ₇₉ ⁻¹	N ₈₀ ⁻¹	N ₈₁ ⁻¹	N ₈₂ ⁻¹	N ₈₃ ⁻¹	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	56.71	57.23	52.96	49.07	45.12	42.08	38.93	36.03	33.37	30.90	442.70
A. On-going Service Delivery Costs	37.20	57.23	52.96	49.07	45.42	42.08	38.94	36.03	33.37	30.90	425.19
(1) Job Training/Placement Services											
(2) Physical Health Services	37.20	57.23	52.96	49.07	45.42	42.08	38.93	36.03	33.37	30.90	425.19
(3) Social/Psych Health Services											
(4) Educational Services											
B. Costs of Service Start-up	19.51										19.51
2. Client Maintenance	630.00	1,000.08	925.56	857.52	793.80	735.48	680.40	629.64	583.20	540.00	7,375.64
3. Service Integration Costs (SID Costs)	148.66	55.56	51.42	47.64	44.10	40.86	37.80	34.95	32.40	30.00	523.42
A. Assessment Costs	48.69										48.69
B. Cost of Placement Decision	54.43										54.43
C. Cost of Filling Prescription	29.92										29.92
D. Client Tracking & Monitoring Costs	15.62	55.56	51.42	47.64	44.10	40.86	37.80	34.95	32.40	30.00	390.38
4. Deinstitutionalization Costs	20.51										20.51
5. Lost Economic Productivity											
TOTAL COSTS	855.88	1,112.87	1,029.94	954.23	883.32	818.42	777.13	700.65	648.97	600.90	8,362.31

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - 7

	N74 ⁼¹	N75 ⁼¹	N76 ⁼¹	N77 ⁼¹	N78 ⁼¹	N79 ⁼¹	N80 ⁼¹	N81 ⁼¹	N82 ⁼¹	N83 ⁼¹	
<u>BENEFIT ELEMENTS</u>	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	4,100.24	6,475.89	5,993.34	5,552.76	5,140.15	4,762.51	4,405.84	4,077.15	3,776.44	3,496.70	47,781.02
2. Inc. Econ. Productivity											
TOTAL BENEFITS	4,100.24	6,475.89	5,993.34	5,552.76	5,140.15	4,762.51	4,405.84	4,077.15	3,776.44	3,496.70	47,781.02

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS*

STRATUM - 7

COSTS OVER 10 YEARS

COST ELEMENTS	COSTS OVER 10 YEARS										Sum of the Averages
	CL ₁₃	CL									
1. Community Supportive Services	442.70										442.70
A. On-going Service Delivery Costs	423.19										423.19
(1) Job Training/Placement Services											
(2) Physical Health Services											
(3) Social/Psych Health Services	423.19										423.19
(4) Educational Services											
B. Costs of Service Start-up	19.51										19.51
2. Client Maintenance	7,375.78										7,375.78
3. Service Interaction Costs (SID Costs)	523.42										523.42
A. Assessment Costs	48.69										48.69
B. Cost of Placement Decision	54.43										54.43
C. Cost of Filling Prescription	29.92										29.92
D. Client Tracking & Monitoring Costs	390.38										390.38
4. Deinstitutionalization Costs	20.51										20.51
5. Lost Economic Productivity											
TOTAL COSTS	8,362.31										8,362.31

* All dollars valued at 1974 prices

Exhibit III (2)

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS

STRATUM = 7

BENEFIT ELEMENTS

BENEFITS OVER 10 YEARS

	CL 18	CL	Sum of the Averages								
Savings of Insti'zation Costs	47,781.02										47,781.02
Increased Econ. Productivity											
TOTAL BENEFITS	47,781.02										47,781.02

Exhibit IV

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS*

STRATUM - 7 N - 1

COST ELEMENTS	SOURCE OF FUNDS OVER 10 YEARS		Local	Sum of the Averages
	Federal	State		
1. Community Supportive Services	197.78	212.20	32.72	442.70
A. On-going Service Delivery Costs	192.47	204.87	25.85	423.19
(1) Job Training/Placement Services				
(2) Physical Health Services	192.47	204.87	25.85	423.19
(3) Social/Psych Health Services				
(4) Educational Services				
B. Costs of Service Start-Up	5.31	7.33	6.87	19.51
2. Client Maintenance		4,609.80	2,765.88	7,375.68
3. Service Interruption Costs (SID Costs)	364.94	158.48		523.42
A. Assessment Costs	43.33	5.36		48.69
B. Cost of Placement Decision		54.43		54.43
C. Cost of Filling Prescription	26.63	3.29		29.92
D. Client Tracking and Monitoring Costs	294.98	95.40		390.38
4. Deinstitutionalization Costs		20.51		20.51
5. Lost Economic Productivity				
TOTAL COSTS	562.72	5,000.99	2,798.60	8,362.31

*All dollars valued at 1974 prices

Exhibit IV (2)

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS

STRATUM = 7 N = 1

BENEFIT ELEMENTS

DISTRIBUTION OF FUNDS, OVER LIFETIME OF AVERAGE CLIENT

Federal State Local Sum of the Average

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Average</u>
1. <u>Savings of Institutionalization Costs</u>		47,781.02		47,781.02
2. <u>Increased Economic Productivity</u>				
TOTAL BENEFITS		47,781.02		47,781.02

Exhibit V

SOCIETAL COSTS VERSUS TOTAL COSTS*

STRATUM = 7 N = 1

<u>COST ELEMENTS</u>	<u>COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>	<u>TOTAL SOCIETAL COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>
1. Community Supportive Services	442.70	442.70
A. On-going Service Delivery Costs	423.19	423.19
(1) Job Training/Placement Services		
(2) Physical Health Services	423.19	423.19
(3) Social/Psych Health Services		
(4) Educational Services		
B. Costs of Service Start-up	19.51	19.51
2. Client Maintenance	7,375.68	7,375.68
3. Service Integration Costs (SID costs)	523.42	523.42
A. Assessment Cost	48.69	48.69
B. Cost of Placement Decision	54.43	54.43
C. Cost of Filling Prescription	29.92	29.92
D. Client Tracking and Monitoring Costs	390.38	390.38
4. Deinstitutionalization Costs	20.51	20.51
5. Lost Economic Productivity		
TOTAL COSTS	8,362.31	8,362.31

*All dollars valued at 1974 prices

Exhibit V (2)

SOCIETAL COSTS VERSUS TOTAL COSTS

STRATUM = 7 N = 1

BENEFIT ELEMENTS

TOTAL BENEFITS OVER LIFETIME
OF AVERAGE CLIENT IN STRATUM

TOTAL SOCIETAL BENEFITS OVER LIFETIME
OF AVERAGE CLIENT IN STRATUM

1. Savings of Institutionalization Costs	47,781.02	47,781.02
2. Increase of Economic Productivity	40.00	
TOTAL BENEFITS	47,821.02	47,781.02

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: 9

N = 7

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>40,801.08</u>
2. Increased Economic Productivity	\$ <u>110.09</u>
Total Economic Benefits	\$ <u>286,378.16</u>
Total Economic Benefits per Client	\$ <u>40,911.17</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>11,386.82</u>
2. Costs of Client Maintenance in the Community	\$ <u>14,457.85</u>
3. Service Integration Costs	\$ <u>1,038.58</u>
4. Deinstitutionalization Costs	\$ <u>27.96</u>
5. Costs of Lost Economic Productivity	\$ _____
Total Economic Costs	\$ <u>188,378.55</u>
Total Economic Costs per Client	\$ <u>26,911.21</u>

Ratio of Average Economic Benefits over Average Costs 1.52

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM - 9

COST ELEMENTS	N ₇₄ ⁻⁷	N ₇₅ ⁻⁷	N ₇₆ ⁻⁷	N ₇₇ ⁻⁷	N ₇₈ ⁻⁷	N ₇₉ ⁻⁷	N ₈₀ ⁻⁷	N ₈₁ ⁻⁷	N ₈₂ ⁻⁷	N ₈₃ ⁻⁷	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	984.31	1,425.95	1,446.04	1,339.75	1,240.18	1,149.05	1,063.01	983.71	911.15	843.67	11,386.82
A. On-going Service Delivery Costs	963.41	1,425.95	1,446.04	1,339.75	1,240.18	1,149.05	1,063.01	983.71	911.15	843.67	11,365.92
(1) Job Training/Placement Services	714.22	910.32	968.83	897.61	830.91	769.06	717.21	659.08	610.47	565.25	7,638.76
(2) Physical Health Services	104.28	115.73	109.88	101.82	94.24	87.31	80.77	74.75	69.23	64.11	905.32
(3) Social/Psych Health Services	97.23	264.98	255.24	227.21	210.33	194.87	180.38	166.83	154.52	143.68	1,853.57
(4) Educational Services	47.48	111.92	122.09	113.11	104.70	97.01	89.75	83.65	76.93	71.23	937.27
B. Costs of Service Start-up	20.90										20.90
2. Client Maintenance	1,019.81	1,492.26	1,843.80	1,708.26	1,581.32	1,465.15	1,355.42	1,254.30	1,161.79	1,075.74	14,457.85
3. Service Integration Costs (SID Costs)	412.71	92.79	85.87	79.56	73.65	68.24	63.13	58.42	54.11	50.10	1,038.58
A. Assessment Costs	98.48										98.48
B. Cost of Placement Decision	139.33										139.33
C. Cost of Filling Prescription	88.61										88.61
D. Client Tracking & Monitoring Costs	86.29	92.79	85.87	79.56	73.65	68.24	63.13	58.42	54.11	50.10	712.16
4. Deinstitutionalization Costs	27.96										27.96
5. Lost Economic Productivity											
TOTAL COSTS	2,444.79	3,511.00	3,375.71	3,127.57	2,895.15	2,682.44	2,481.56	2,296.43	2,127.05	1,969.51	26,911.11

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - 9

N74⁻⁷ N75⁻⁷ N76⁻⁷ N77⁻⁷ N78⁻⁷ N79⁻⁷ N80⁻⁷ N81⁻⁷ N82⁻⁷ N83⁻⁷

<u>BENEFIT ELEMENTS</u>	<u>Year 1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>Sum of the Averages</u>
1. Savings of Inst. Costs	3,992.24	5,457.09	5,050.46	4,679.19	4,331.49	4,013.26	3,712.70	3,435.73	3,182.33	2,946.59	40,801.08
2. Inc. Econ. Productivity	36.36	9.35	10.37	9.62	8.89	8.24	7.63	7.05	6.53	6.05	110.09
TOTAL BENEFITS	4,028.60	5,466.44	5,060.83	4,688.81	4,340.38	4,021.50	3,720.33	3,442.78	3,188.86	2,952.64	40,911.17

CONTINUED

2 OF 5

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS*

STRATUM - 9

COSTS OVER 10 YEARS

COST ELEMENTS	CL 19	CL 20	CL 21	CL 22	CL 23	CL 24	CL 25	CL	CL	CL	Sum of the Averages
1. Community Supportive Services	4,378.07	16,275.50	15,101.86	14,726.28	8,398.12	7,394.67	13,433.29				11,386.82
A. On-going Service Delivery Costs	4,355.00	16,271.27	15,091.66	14,712.17	8,344.23	7,379.93	13,407.24				11,365.92
(1) Job Training/Placement Services	1,611.71	13,246.99	13,767.40	12,802.66			11,980.57				7,638.76
(2) Physical Health Services	491.16	1,498.60	1,324.26	1,001.00	320.39	819.01	761.15				595.32
(3) Social/Psych Health Services	2,248.13	1,025.68		1,248.51	8,004.14		665.52				1,853.57
(4) Educational Services						6,560.92					937.27
B. Costs of Service Start-up	23.07	4.23	10.20	14.11	53.89	14.74	26.05				20.90
2. Client Maintenance	15,237.74	18,577.82	11,234.95	16,206.94	6,079.21	12,472.32	21,395.99				14,457.85
3. Service Integration Costs (SID Costs)	745.05	896.64	1,021.58	1,442.25	979.06	926.94	1,258.54				1,038.58
A. Assessment Costs	79.83	59.85	71.26	161.91	137.62	69.55	109.31				98.48
B. Cost of Placement Decision	134.26	78.15	193.79	111.89	108.86	188.69	159.67				139.33
C. Cost of Filing Prescription	105.62	286.08	12.73	93.04	82.47	19.05	21.27				88.61
D. Client Tracking & Monitoring Costs	425.34	471.53	743.80	1,075.41	650.11	649.65	968.29				712.16
4. Deinstitutionalization Costs	33.55	33.55	33.55	33.55	20.51	20.51	20.51				27.96
5. Lost Economic Productivity											
TOTAL COSTS	20,394.41	35,783.51	27,391.94	32,409.02	15,476.90	20,814.44	36,108.33				26,911.21

* All dollars valued at 1974 prices .

Exhibit III (2)

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS

STRATUM = 9

BENEFIT ELEMENTS

BENEFITS OVER 10 YEARS

	<u>CL 19</u>	<u>CL 20</u>	<u>CL 21</u>	<u>CL 22</u>	<u>CL 23</u>	<u>CL 24</u>	<u>CL 25</u>	<u>CL</u>	<u>CL</u>	<u>CL</u>	Sum of the Averages
Savings of Insti'zation Costs	53,388.99	50,189.56	50,251.90	38,243.85	23,735.60	45,443.50	24,354.14				40,801.08
Increased Econ. Productivity		98.21	380.83	129.20			162.38				110.09
TOTAL BENEFITS	53,388.99	50,287.77	50,632.73	38,373.05	23,735.60	45,443.50	24,516.52				40,911.17

Exhibit IV

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS*

STRATUM = 9 N = 7

COST ELEMENTS	SOURCE OF FUNDS OVER 10 YEARS			Sum of the Averages
	Federal	State	Local	
1. Community Supportive Services	7,387.38	3,499.02	500.42	11,386.82
A. On-going Service Delivery Costs	7,387.20	3,487.42	495.30	11,365.92
(1) Job Training/Placement Services	6,065.79	1,533.19	39.78	7,638.76
(2) Physical Health Services	309.39	477.83	118.10	905.32
(3) Social/Psych Health Services	1,008.02	876.55		1,884.57
(4) Educational Services		599.85	337.42	937.27
B. Costs of Service Start-Up	4.18	11.60	5.12	20.90
2. Client Maintenance	10,244.47	2,634.96	1,578.42	14,457.85
3. Service Integration Costs (SID Costs)	712.71	325.87		1,038.58
A. Assessment Costs	87.65	10.83		98.48
B. Cost of Placement Decision		139.33		139.33
C. Cost of Filling Prescription	78.86	9.75		88.61
D. Client Tracking and Monitoring Costs	546.20	165.96		712.16
4. Deinstitutionalization Costs		27.96		27.96
5. Lost Economic Productivity				
TOTAL COSTS	18,344.56	6,487.81	2,078.84	26,911.21

*All dollars valued at 1974 prices

Exhibit IV (2)

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS

STRATUM = 9 N= 7

BENEFIT ELEMENTS

DISTRIBUTION OF FUNDS, OVER LIFETIME OF AVERAGE CLIENT

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Average:</u>
1. Savings of Institutionalization Costs		40,801.08		40,801.08
2. Increased Economic Productivity	107.79	2.30		110.09
TOTAL BENEFITS	107.79	40,803.38		40,911.17

Exhibit V

SOCIETAL COSTS VERSUS TOTAL COSTS*

STRATUM = 9 N = 7

<u>COST ELEMENTS</u>	<u>COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>	<u>TOTAL SOCIETAL COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>
<u>1. Community Supportive Services</u>	11,400.99	11,386.82
<u>A. On-going Service Delivery Costs</u>	11,377.84	11,365.92
(1) Job Training/Placement Services	7,638.76	7,638.76
(2) Physical Health Services	917.24	905.32
(3) Social/Psych Health Services	1,884.57	1,884.57
(4) Educational Services	937.27	937.27
<u>B. Costs of Service Start-up</u>	23.15	20.90
<u>2. Client Maintenance</u>	14,851.22	14,457.85
<u>3. Service Integration Costs (SID costs)</u>	1,036.58	1,038.58
<u>A. Assessment Cost</u>	98.48	98.48
<u>B. Cost of Placement Decision</u>	139.33	139.33
<u>C. Cost of Filling Prescription</u>	88.61	88.61
<u>D. Client Tracking and Monitoring Costs</u>	712.16	712.16
<u>4. Deinstitutionalization Costs</u>	27.96	27.96
<u>5. Lost Economic Productivity</u>		
TOTAL COSTS	27,318.75	26,911.21

*All dollars valued at 1974 prices

Exhibit V (2)

SOCIETAL COSTS VERSUS TOTAL COSTS

STRATUM - 9

N - 7

BENEFIT ELEMENTS

	TOTAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM	TOTAL SOCIETAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM
1. Savings of Institutionalization Costs	40,301.08	40,801.80
2. Increased Economic Productivity	1,551.42	110.09
TOTAL BENEFITS	42,352.50	40,911.17

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: 10

N = 4

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>39,767.88</u>
2. Increased Economic Productivity	\$ <u>593.47</u>
Total Economic Benefits	\$ <u>161,445.41</u>
Total Economic Benefits per Client	\$ <u>40,361.35</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>8,673.57</u>
2. Costs of Client Maintenance in the Community	\$ <u>10,811.32</u>
3. Service Integration Costs	\$ <u>1,605.85</u>
4. Deinstitutionalization Costs	\$ <u>33.55</u>
5. Costs of Lost Economic Productivity	\$ <u> </u>
Total Economic Costs	\$ <u>84,497.12</u>
Total Economic Costs per Client	\$ <u>21,124.29</u>

Ratio of Average Economic Benefits over Average Costs 1.91

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM - 10

COST ELEMENTS	N ₇₄ =4	N ₇₅ =4	N ₇₆ =4	N ₇₇ =4	N ₇₈ =4	N ₇₉ =4	N ₈₀ =4	N ₈₁ =4	N ₈₂ =4	N ₈₃ =4	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	454.96	1,218.45	1,127.66	1,044.76	967.11	896.07	828.97	767.12	710.55	657.92	6,673.57
A. On-going Service Delivery Costs	443.27	1,218.45	1,127.66	1,044.76	967.11	896.07	828.97	767.12	710.55	657.92	6,661.69
(1) Job Training/Placement Services	280.71	941.45	871.29	807.24	747.25	692.35	640.50	592.72	549.00	508.34	6,630.83
(2) Physical Health Services	122.88	129.3	120.15	111.32	103.64	95.48	85.33	81.73	75.71	70.12	950.37
(3) Social/Psych Health Services	57.68	147.19	136.22	136.20	116.82	108.24	100.14	92.67	85.84	79.49	1,059.48
(4) Educational Services											
B. Costs of Service Start-up	11.69										11.69
2. Client Maintenance	624.13	1,502.89	1,390.90	1,288.65	1,192.90	1,105.26	1,022.48	946.21	876.41	811.49	10,811.32
3. Service Integration Costs (SID Costs)	445.98	171.96	159.14	147.44	136.49	126.46	116.99	108.26	100.28	92.85	1,605.85
A. Assessment Costs	86.44										86.44
B. Cost of Placement Decision	181.93										181.93
C. Cost of Filling Prescription	64.08										64.08
D. Client Tracking & Monitoring Costs	113.53	171.96	159.14	147.44	136.49	126.46	116.99	108.26	100.28	92.85	1,273.49
4. Deinstitutionalization Costs	33.55										33.55
5. Lost Economic Productivity											
TOTAL COSTS	1,608.62	2,893.30	2,677.70	2,480.85	2,296.50	2,127.79	1,968.44	1,821.59	1,687.24	1,562.26	21,124.29

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM = 10

	N74=4	N75=4	N76=4	N77=4	N78=4	N79=4	N80=4	N81=4	N82=4	N83=4	
BENEFIT ELEMENTS	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	3,371.03	5,396.01	4,993.93	4,626.82	4,283.01	3,968.34	3,671.15	3,397.27	3,146.70	2,913.62	39,767.88
2. Inc. Econ. Productivity	29.65	83.59	77.36	71.67	66.35	61.47	56.87	52.63	48.74	45.14	593.47
TOTAL BENEFITS	3,400.68	5,479.60	5,071.29	4,698.49	4,349.36	4,029.81	3,728.02	3,449.90	3,195.44	2,958.76	40,361.35

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS*

STRATH - 10

COSTS OVER 10 YEARS

COST ELEMENTS	CL ₂₆	CL ₂₇	CL ₂₈	CL ₂₉	CL ₃₀	CL ₃₁	CL ₃₂	CL ₃₃	CL ₃₄	CL ₃₅	CL ₃₆	Sum of the Averages
1. Community Supportive Services	14,175.59	2,204.73	3,794.10	14,520.05								8,673.57
A. On-going Service Delivery Costs	14,154.83	2,193.04	3,784.09	14,515.50								8,661.68
(1) Job Training/Placement Services	12,125.46		2,114.51	12,285.35								6,633.83
(2) Physical Health Services	841.24	1,871.28	545.51	671.20								930.37
(3) Social/Psych Health Services	1,188.13	190.76	1,124.07	1,558.95								1,623.48
(4) Educational Services												
B. Costs of Service Start-up	20.57	11.69	10.01	4.55								11.69
2. Client Maintenance	14,465.74	13,734.81	15,044.74									10,822.32
3. Service Integration Costs (SID Costs)	1,990.98	1,063.00	1,543.43	1,825.95								1,635.65
A. Assessment Costs	121.44	71.26	99.79	53.23								86.44
B. Cost of Placement Decision	143.67	268.53	147.69	167.83								181.93
C. Cost of Filling Prescription	95.02	46.31	99.12	12.85								64.06
D. Client Tracking & Monitoring Costs	1,627.85	676.90	1,196.83	1,592.04								1,273.40
4. Deinstitutionalization Costs	33.55	33.55	33.55	33.55								33.55
5. Lost Economic Productivity												
TOTAL COSTS	30,665.66	17,036.09	20,415.82	16,379.55								21,124.29

* All dollars valued at 1974 prices . . .

Exhibit III (2)

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS

STRATUM - 10

BENEFIT ELEMENTS

BENEFITS OVER 10 YEARS

	<u>CL 26</u>	<u>CL 27</u>	<u>CL 28</u>	<u>CL 29</u>	<u>CL</u>	<u>CL</u>	<u>CL</u>	<u>CL</u>	<u>CL</u>	<u>CL</u>	<u>Sum of the Averages</u>
Savings of Insti'zation Costs	35,078.79	50,189.56	38,280.68	35,522.49							39,767.88
Increased Econ. Productivity	137.18			2,236.71							593.47
TOTAL BENEFITS	35,215.97	50,189.56	38,280.68	37,759.20							40,361.35

Exhibit IV

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS*

STRATUM - 10 N - 4

COST ELEMENTS	SOURCE OF FUNDS OVER 10 YEARS			Sum of the Averages
	Federal	State	Local	
1. Community Supportive Services	5,336.86	2,675.03	651.68	8,673.57
A. On-going Service Delivery Costs	5,344.22	2,667.07	650.59	8,661.88
(1) Job Training/Placement Services	5,262.40	1,278.56	89.87	6,630.83
(2) Physical Health Services	81.82	680.23	218.53	980.57
(3) Social/Psych Health Services		705.28	347.20	1,050.48
(4) Educational Services				
B. Costs of Service Start-Up	2.64	7.96	1.09	11.69
2. Client Maintenance	9,040.70	1,106.64	663.98	10,811.32
3. Service Integration Costs (SID Costs)	1,104.90	500.95		1,605.85
A. Assessment Costs	76.93	9.51		86.44
B. Cost of Placement Decision		181.93		181.93
C. Cost of Filling Prescription	57.03	7.05		64.08
D. Client Tracking and Monitoring Costs	970.94	302.46		1,273.40
4. Deinstitutionalization Costs		33.55		33.55
5. Lost Economic Productivity				
TOTAL COSTS	15,492.46	4,316.17	1,315.66	21,124.29

*All dollars valued at 1974 prices

Exhibit IV (2)

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS

STRATUM = 10 N = 4

BENEFIT ELEMENTS

DISTRIBUTION OF FUNDS, OVER LIFETIME OF AVERAGE CLIENT

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Averages</u>
1. Savings of Institutionalization Costs	2,634.95	37,132.94		39,767.88
2. Increased Economic Productivity	548.67	44.80		593.47
TOTAL BENEFITS	3,183.62	37,177.73		40,361.35

Exhibit V

SOCIETAL COSTS VERSUS TOTAL COSTS*

STRATUM = 10

N = 4

<u>COST ELEMENTS</u>	<u>COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>	<u>TOTAL SOCIETAL COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>
1. Community Supportive Services	8,701.85	8,673.57
A. On-going Service Delivery Costs	8,689.64	8,661.88
(1) Job Training/Placement Services	6,630.83	6,630.83
(2) Physical Health Services	980.57	980.57
(3) Social/Psych Health Services	1,078.24	1,050.48
(4) Educational Services		
B. Costs of Service Start-up	12.21	11.69
2. Client Maintenance	10,811.32	10,811.32
3. Service Integration Costs (SID costs)	1,605.85	1,605.85
A. Assessment Cost	86.44	86.44
B. Cost of Placement Decision	181.93	181.93
C. Cost of Filling Prescription	64.08	64.08
D. Client Tracking and Monitoring Costs	1,273.40	1,273.40
4. Deinstitutionalization Costs	33.55	33.55
5. Lost Economic Productivity		
TOTAL COSTS	21,152.57	21,124.29

*All dollars valued at 1974 prices

Exhibit V (2)

SOCIETAL COSTS VERSUS TOTAL COSTS

STRATUM - 10

N - 4

<u>BENEFIT ELEMENTS</u>	<u>TOTAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM</u>	<u>TOTAL SOCIETAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM</u>
1. Savings of Institutionalization Costs	39,767.88	39,767.88
2. Increased Economic Productivity	3,792.56	593.47
TOTAL BENEFITS	43,560.44	40,361.35

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: 11

N = 6

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>43,120.28</u>
2. Increased Economic Productivity	\$ _____
Total Economic Benefits	\$ <u>244,519.98</u>
Total Economic Benefits per Client	\$ <u>43,120.28</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>1,424.66</u>
2. Costs of Client Maintenance in the Community	\$ <u>14,985.67</u>
3. Service Integration Costs	\$ <u>1,110.62</u>
4. Deinstitutionalization Costs	\$ <u>32.86</u>
5. Costs of Lost Economic Productivity	\$ _____
Total Economic Costs	\$ <u>99,626.00</u>
Total Economic Costs per Client	\$ <u>17,553.81</u>

Ratio of Average Economic Benefits over Average Costs 2.46

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS*

STRUCTURE - 11

COSTS OVER 10 YEARS

COST ELEMENTS	CL10	CL 31	CL 32	CL33	CL 34	CL35	CL	CL	CL	CL	Sum of the Averages
1. Community Supportive Services	1,228.20	2,496.20	1,093.78	268.49	394.71	2,604.25					1,424.66
A. On-going Service Delivery Costs	1,228.19	2,493.31	1,093.78	112.50	385.31	2,563.29					1,389.17
(1) Job Training/Placement Services											
(2) Physical Health Services	410.15	150.54	608.10			607.13					317.16
(3) Social/Psych Health Services	814.04	2,342.77	425.65	112.80	385.31	1,956.66					1,072.21
(4) Educational Services											
B. Costs of Service Start-up	4.01	2.89		155.69	9.40	40.96					35.49
2. Client Maintenance	13,991.60	18,113.49	17,034.03	8,979.89	15,623.74	11,234.99					14,965.67
3. Service Integration Costs (SID Costs)	835.26	1,411.08	1,384.21	551.74	899.31	1,305.80					1,110.62
A. Assessment Costs	63.78	76.36	133.62	60.73	79.83	60.73					79.17
B. Cost of Placement Decision	67.13	117.49	179.02	86.94	116.14	160.22					121.16
C. Cost of Filing Prescription	58.41	30.55	62.31	52.60	35.94	63.15					50.49
D. Client Tracking & Monitoring Costs	645.94	1,186.68	1,009.26	351.47	666.40	1,021.70					859.80
4. Deinstitutionalization Costs	33.55	33.55	33.55	33.55	42.42	20.51					32.86
5. Lost Economic Productivity											
TOTAL COSTS	16,088.61	22,054.32	19,545.57	9,812.77	16,959.18	15,165.55					17,553.61

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - 11

	N74 ⁼⁵	N75 ⁼⁶	N76 ⁼⁶	N77 ⁼⁶	N78 ⁼⁶	N79 ⁼⁶	N80 ⁼⁶	N81 ⁼⁵	N82 ⁼⁵	N83 ⁼⁵	
<u>BENEFIT ELEMENTS</u>	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	4,223.42	5,773.43	5,343.23	4,950.44	4,582.58	4,045.31	3,971.23	3,674.96	3,403.91	3,151.77	43,120.38
2. Inc. Econ. Productivity											
TOTAL BENEFITS	4,223.42	5,773.43	5,343.23	4,950.44	4,582.58	4,045.31	3,971.23	3,674.96	3,403.91	3,151.77	43,120.38

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM = 21

COST ELEMENTS	N ₇₄ =6	N ₇₅ =6	N ₇₆ =6	N ₇₇ =6	N ₇₈ =6	N ₇₉ =6	N ₈₀ =6	N ₈₁ =5	N ₈₂ =5	N ₈₃ =5	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	163.72	174.76	161.74	149.86	138.72	128.53	141.86	131.28	121.60	112.59	1,424.66
A. On-going Service Delivery Costs	126.23	174.76	161.74	149.86	138.72	128.53	141.86	131.28	121.60	112.59	1,382.17
(1) Job Training/Placement Services											
(2) Physical Health Services	40.49	38.21	35.37	32.77	30.33	28.11	31.20	28.87	26.74	24.6	317.16
(3) Social/Psych health Services	87.43	136.55	126.37	117.09	108.39	100.42	110.66	102.41	94.86	87.82	1,022.01
(4) Educational Services											
B. Costs of Service Start-up	35.49										35.49
2. Client Maintenance	1,403.97	2,000.05	1,851.01	1,714.94	1,587.51	1,470.87	1,386.20	1,282.79	1,188.17	1,100.16	14,985.67
3. Service Integration Costs (SID Costs)	348.21	131.26	98.87	91.60	84.80	78.57	77.54	71.76	66.47	61.54	1,110.62
A. Assessment Costs	79.17										79.17
B. Cost of Placement Decision	121.16										121.16
C. Cost of Filling Prescription	50.49										50.49
D. Client Tracking & Monitoring Costs	97.39	131.26	98.87	91.60	84.80	78.57	77.54	71.76	66.47	61.54	859.80
4. Deinstitutionalization Costs	32.86										32.86
5. Lost Economic Productivity											
TOTAL COSTS	1,948.76	2,306.07	2,111.62	1,956.40	1,811.03	1,677.97	1,605.60	1,485.83	1,376.24	1,274.29	17,551.81

* All dollars valued at 1974 prices

Exhibit III (2)

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS

STRATUM - 11

BENEFIT ELEMENTS

BENEFITS OVER 10 YEARS

	CL 30	CL 31	CL 32	CL 33	CL 34	CL 35	CL "	CL "	CL "	CL "	Sun of the Averages
Savings of Insti'zation Costs	44,130.80	47,976.48	43,671.44	25,773.57	58,613.55	24,354.14					43,120.28
Increased Econ. Productivity											
TOTAL BENEFITS	44,130.80	47,976.48	43,671.44	25,773.57	58,613.55	24,354.14					43,120.28

Exhibit IV

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS*

STRATUM - 11

N = 6

COST ELEMENTS	SOURCE OF FUNDS OVER 10 YEARS			Sum of the Averages
	Federal	State	Local	
1. Community Supportive Services	111.35	1,000.94	312.47	1,424.66
A. On-going Service Delivery Costs	110.15	969.72	309.30	1,389.17
(1) Job Training/Placement Services				
(2) Physical Health Services	100.86	176.26	40.04	317.16
(3) Social/Psych Health Services	9.29	793.46	269.26	1,072.01
(4) Educational Services				
B. Costs of Service Start-Up	1.20	31.12	3.17	35.49
2. Client Maintenance	12,970.41	1,253.78	761.48	14,985.67
3. Service Integration Costs (SID Costs)	773.90	336.72		1,110.62
A. Assessment Costs	70.47	8.70		79.17
B. Cost of Placement Decision		121.16		121.16
C. Cost of Filling Prescription	44.94	5.55		50.49
D. Client Tracking and Monitoring Costs	658.49	201.31		859.80
4. Deinstitutionalization Costs		32.86		32.86
5. Lost Economic Productivity				
TOTAL COSTS	13,855.66	2,624.20	1,073.95	17,553.81

*All dollars valued at 1974 prices

Exhibit IV (2)

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS

STRATUM = 11 N = 6

BENEFIT ELEMENTS

DISTRIBUTION OF FUNDS, OVER LIFETIME OF AVERAGE CLIENT

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Averages</u>
1. Savings of Institutionalization Costs	7,871.42	35,248.86		43,120.28
2. Increased Economic Productivity				
TOTAL BENEFITS	7,871.42	35,248.86		43,120.28

Exhibit V

SOCIETAL COSTS VERSUS TOTAL COSTS*

STRATUM = 11

N= 6

COST ELEMENTS	COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM	TOTAL SOCIETAL COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM
1. Community Supportive Services	1,449.61	1,424.65
A. On-going Service Delivery Costs	1,402.19	1,389.17
(1) Job Training/Placement Services		
(2) Physical Health Services	329.17	317.16
(3) Social/Psych Health Services	1,073.02	1,072.01
(4) Educational Services		
B. Costs of Service Start-up	47.42	35.49
2. Client Maintenance	14,985.67	14,985.67
3. Service Integration Costs (SID costs)	1,110.62	1,110.62
A. Assessment Cost	79.17	79.17
B. Cost of Placement Decision	121.16	121.16
C. Cost of Filling Prescription	50.49	50.49
D. Client Tracking and Monitoring Costs	859.80	859.80
4. Deinstitutionalization Costs	32.86	32.86
5. Lost Economic Productivity		
TOTAL COSTS	17,578.76	17,553.81

*All dollars valued at 1974 prices

Exhibit V (2)

SOCIETAL COSTS VERSUS TOTAL COSTS

STRATUM - 11

N - 6

BENEFIT ELEMENTS

TOTAL BENEFITS OVER LIFETIME
OF AVERAGE CLIENT IN STRATUM

TOTAL SOCIETAL BENEFITS OVER LIFETIME
OF AVERAGE CLIENT IN STRATUM

1. Savings of Institutionalization Costs

43,120.28

43,120.28

2. Increased Economic Productivity

TOTAL BENEFITS

43,120.28

43,120.28

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: 14 N = 9

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>35,682.29</u>
2. Increased Economic Productivity	\$ <u>2,259.95</u>
Total Economic Benefits	\$ <u>341,480.21</u>
Total Economic Benefits per Client	\$ <u>37,942.24</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>4,203.77</u>
2. Costs of Client Maintenance in the Community	\$ <u>4,702.54</u>
3. Service Integration Costs	\$ <u>1,109.68</u>
4. Deinstitutionalization Costs	\$ <u>33.63</u>
5. Costs of Lost Economic Productivity	\$ _____
Total Economic Costs	\$ <u>90,446.64</u>
Total Economic Costs per Client	\$ <u>10,049.62</u>

Ratio of Average Economic Benefits over Average Costs 3.78

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM = 14

COST ELEMENTS	N ₇₄ = 9	N ₇₅ = 9	N ₇₆ = 9	N ₇₇ = 9	N ₇₈ = 9	N ₇₉ = 9	N ₈₀ = 9	N ₈₁ = 9	N ₈₂ = 9	N ₈₃ = 9	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	815.44	527.22	480.65	423.13	391.66	362.89	335.71	312.88	287.75	266.43	4,203.27
A. On-going Service Delivery Costs	789.09	527.22	480.65	423.13	391.66	362.89	335.71	312.88	287.75	266.43	4,177.41
(1) Job Training/Placement Services	263.64	217.92	201.69	166.65	157.41	141.22	130.64	120.89	111.38	103.68	1,408.32
(2) Physical Health Services	316.49	125.56	116.40	107.67	99.64	92.34	85.43	81.28	73.22	67.50	1,165.45
(3) Social/Psych Health Services	205.97	180.74	162.75	150.81	139.59	129.33	119.64	110.71	102.55	94.95	1,403.04
(4) Educational Services											
B. Costs of Service Start-up	26.35										26.36
2. Client Maintenance	587.96	610.68	565.16	521.61	484.71	449.10	415.44	380.02	356.11	329.71	4,202.54
3. Service Integration Costs (SID Costs)	421.11	102.08	94.48	87.53	81.03	75.07	69.46	64.27	59.53	55.12	1,109.68
A. Assessment Costs	121.23										121.23
B. Cost of Placement Decision	110.58										110.58
C. Cost of Filling Prescription	45.75										45.75
D. Client Tracking & Monitoring Costs	115.55	102.08	94.48	87.53	81.03	75.07	69.46	64.27	59.53	55.12	804.12
4. Deinstitutionalization Costs	33.63										33.63
5. Lost Economic Productivity											
TOTAL COSTS	1,858.15	1,239.98	1,140.29	1,034.27	957.40	887.06	820.63	757.17	703.39	651.28	10,049.62

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - 1

	N74= 9	N75= 9	N76= 9	N77= 9	N78= 9	N79= 9	N80= 9	N81= 9	N82= 9	N83= 9	
BENEFIT ELEMENTS	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	4,279.13	4,655.67	4,308.76	3,992.02	3,695.37	3,423.88	3,167.46	2,931.17	2,714.97	2,513.86	35,662.29
2. Inc. Econ. Productivity	296.62	291.07	269.38	249.58	231.03	214.96	198.03	183.27	169.74	157.17	2,259.95
TOTAL BENEFITS	4,575.75	4,946.74	4,578.14	4,241.60	3,926.40	3,637.94	3,365.49	3,114.44	2,884.71	2,671.03	37,942.24

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS*

STRATUM - 14

COSTS OVER 10 YEARS

COST ELEMENTS	CL 36	CL 37	CL 38	CL 39	CL 40	CL 41	CL 42	CL 43	CL 44	CL 45	Sum of the Averages
1. Community Supportive Services	796.50	1,322.31	4,789.01	9,701.22	779.26	1,192.88	16,998.65	27.18	2,228.91		4,203.77
A. On-going Service Delivery Costs	758.72	1,302.04	4,774.04	9,677.49	777.14	1,178.28	16,955.40	27.18	2,187.10		4,177.41
(1) Job Training/Placement Services	23.94	66.81	290.52	280.88	711.14		13,056.62		48.60		1,608.72
(2) Physical Health Services	112.72	448.33	1,396.72	6,158.57	58.64		1,320.69		935.45		1,165.65
(3) Social/Psych Health Services	617.55	736.90	3,087.30	3,238.04	7.16	1,178.28	2,559.09		1,203.05		1,203.04
(4) Educational Services											
B. Costs of Service Start-up	40.27	20.27	14.97	23.73	2.12	14.60	52.25	27.18	41.81		26.36
2. Client Maintenance			13,305.97	17,683.62		11,333.28					4,702.54
3. Service Integration Costs (SID Costs)	938.61	1,341.35	741.75	1,032.56	447.82	1,695.78	1,796.66	796.03	1,196.62		1,109.68
A. Assessment Costs	62.52	75.34	96.45	219.55	45.81	167.99	232.72	107.80	80.89		121.23
B. Cost of Placement Decision	57.13	94.20	99.46	156.65	82.05	232.29	211.18	181.44	123.03		138.58
C. Cost of Filling Prescription	61.08	55.84	83.82	22.62	8.29	24.69	41.90	54.94	48.58		45.75
D. Client Tracking & Monitoring Costs	749.88	1,156.17	460.01	633.74	711.67	1,260.81	1,310.86	751.85	944.13		1,061.17
4. Deinstitutionalization Costs	33.55	33.55	33.55	33.55	33.55	42.42	42.42	25.04	25.04		33.63
5. Lost Economic Productivity											
TOTAL COSTS	1,784.66	2,697.21	18,870.28	28,450.95	1,260.63	14,264.36	18,837.73	848.25	3,450.57		10,049.61

* All dollars valued at 1974 prices

Exhibit III (2)

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS

STRATUM = 14

BENEFIT ELEMENTS

BENEFITS OVER 10 YEARS

	CL ₃₆	CL ₃₇	CL ₃₈	CL ₃₉	CL ₄₀	CL ₄₁	CL ₄₂	CL ₄₃	CL ₄₄	CL	Sum of the Averages
1. Savings of Insti'zation Costs	50,224.56	39,116.46	39,164.93	42,414.89	37,371.61	20,350.97	21,102.58	35,197.36	35,197.36		35,682.25
2. Increased Econ. Productivity	5,500.91	7,902.72	281.59	336.97			2,270.87	2,208.37	1,838.11		2,259.95
TOTAL BENEFITS	55,725.47	47,019.18	39,446.52	42,751.86	38,371.61	20,350.92	23,373.45	37,405.73	37,035.47		37,942.24

Exhibit IV

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS*

STRATUM - 14 N - 9

COST ELEMENTS	SOURCE OF FUNDS OVER 10 YEARS			Sum of the Averages
	Federal	State	Local	
1. Community Supportive Services	1,472.06	2,019.20	712.51	4,203.77
A. On-going Service Delivery Costs	1,469.06	2,001.48	706.87	4,177.41
(1) Job Training/Placement Services	1,274.09	334.63		1,608.72
(2) Physical Health Services	194.97	748.40	222.28	1,165.65
(3) Social/Psych Health Services		918.45	484.59	1,403.04
(4) Educational Services				
B. Costs of Service Start-Up	3.00	17.72	5.64	26.36
2. Client Maintenance	4,702.54			4,702.54
3. Service Integration Costs (SID Costs)	767.88	341.80		1,109.68
A. Assessment Costs	107.89	13.34		121.23
B. Cost of Placement Decision		138.58		138.58
C. Cost of Filling Prescription	40.72	5.03		45.75
D. Client Tracking and Monitoring Costs	619.27	184.85		804.12
4. Deinstitutionalization Costs		33.63		33.63
5. Lost Economic Productivity				
TOTAL COSTS	6,942.48	2,394.63	712.51	10,049.62

*All dollars valued at 1974 prices

Exhibit IV (2)

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS

STRATUM = 14 N= 9

BENEFIT ELEMENTS

DISTRIBUTION OF FUNDS, OVER LIFETIME OF AVERAGE CLIENT

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Average</u>
1. Savings of Institutionalization Costs	3,162.28	32,520.01		35,682.29
2. Increased Economic Productivity	2,075.87	184.08		2,259.95
TOTAL BENEFITS	5,238.15	32,704.09		37,942.24

Exhibit V

SOCIETAL COSTS VERSUS TOTAL COSTS*

STRATUM = 14 N = 9

<u>COST ELEMENTS</u>	<u>COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>	<u>TOTAL SOCIETAL COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>
1. Community Supportive Services	4,378.42	4,203.77
A. On-going Service Delivery Costs	4,348.41	4,177.41
(1) Job Training/Placement Services	1,608.72	1,600.72
(2) Physical Health Services	1,269.97	1,165.65
(3) Social/Psych Health Services	1,470.72	1,403.44
(4) Educational Services		
B. Costs of Service Start-up	29.01	26.36
2. Client Maintenance	4,702.54	4,702.54
3. Service Integration Costs (SID costs)	1,109.68	1,109.68
A. Assessment Cost	121.23	121.23
B. Cost of Placement Decision	138.58	138.58
C. Cost of Filling Prescription	45.75	45.75
D. Client Tracking and Monitoring Costs	804.12	804.12
4. Deinstitutionalization Costs	33.63	33.63
5. Lost Economic Productivity		
TOTAL COSTS	10,224.27	10,049.62

*All dollars valued at 1974 prices

Exhibit V (2)

SOCIETAL COSTS VERSUS TOTAL COSTS

STRATUM = 14 N = 9

<u>BENEFIT ELEMENTS</u>	<u>TOTAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM</u>	<u>TOTAL SOCIETAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM</u>
1. Savings of Institutionalization Costs	32,186.26	35,682.29
2. Increased Economic Productivity	11,561.91	2,259.95
TOTAL BENEFITS	49,748.17	37,942.24

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: 15

N = 1

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>48,355.82</u>
2. Increased Economic Productivity	\$ <u>91.20</u>
Total Economic Benefits	\$ <u>48,447.02</u>
Total Economic Benefits per Client	\$ <u>48,447.02</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>2,662.93</u>
2. Costs of Client Maintenance in the Community	\$ <u>8,059.56</u>
3. Service Integration Costs	\$ <u>834.52</u>
4. Deinstitutionalization Costs	\$ <u>20.51</u>
5. Costs of Lost Economic Productivity	\$ <u> </u>
Total Economic Costs	\$ <u>11,577.52</u>
Total Economic Costs per Client	\$ <u>11,577.52</u>

Ratio of Average Economic Benefits over Average Costs 4.18

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM = 15

COST ELEMENTS	N ₇₄ = 1	N ₇₅ = 1	N ₇₆ = 1	N ₇₇ = 1	N ₇₈ = 1	N ₇₉ = 1	N ₈₀ = 1	N ₈₁ = 1	N ₈₂ = 1	N ₈₃ = 1	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	343.65	636.47	589.05	195.13	177.62	167.35	154.82	143.27	132.70	122.87	2,662.93
A. On-going Service Delivery Costs	335.32	636.47	589.05	195.13	177.62	167.35	154.82	143.27	132.70	122.87	2,654.60
(1) Job Training/Placement Services											
(2) Physical Health Services	46.40	120.01	111.07	102.91	52.26	48.26	81.65	75.56	69.98	64.80	692.92
(3) Social/Psych Health Services	101.72	107.54	99.53	92.22	85.36	79.09	73.27	67.71	62.72	58.07	827.13
(4) Educational Services	147.20	408.92	378.45								934.57
B. Costs of Service Start-up	8.33										8.33
2. Client Maintenance	770.72	1,081.65	1,001.04	927.45	858.55	788.47	735.39	680.99	630.76	584.04	8,059.56
3. Service Integration Costs (SID Costs)	309.86	77.70	71.99	66.70	61.74	57.20	52.92	48.97	45.36	42.00	834.52
A. Assessment Costs	142.94										142.94
B. Cost of Placement Decision	120.83										120.83
C. Cost of Filling Prescription	27.62										27.62
D. Client Tracking & Monitoring Costs	18.47	77.78	71.99	66.70	61.74	57.20	52.92	48.97	45.36	42.00	543.13
4. Deinstitutionalization Costs	20.51										20.51
5. Lost Economic Productivity											
TOTAL COSTS	1,444.74	1,795.90	1,662.08	1,189.28	1,097.91	1,013.02	943.63	873.23	808.82	748.91	11,577.52

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - 15

	N74 = 1	N75 = 1	N76 = 1	N77 = 1	N78 = 1	N79 = 1	N80 = 1	N81 = 1	N82 = 1	N83 = 1	Sum of the Averages
BENEFIT ELEMENTS	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Savings of Inst. Costs	4,675.04	6,475.89	5,992.34	5,552.76	5,140.15	4,762.51	4,405.31	4,027.15	3,776.44	3,496.70	48,355.82
2. Inc. Econ. Productivity	3.51	13.00	12.03	11.15	10.32	9.56	8.85	8.13	7.58	7.02	91.20
TOTAL BENEFITS	4,678.55	6,488.89	6,005.37	5,563.91	5,150.47	4,772.07	4,414.63	4,085.28	3,784.02	3,503.72	48,447.02

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS*

STRATCH - 15

COSTS OVER 10 YEARS

COST ELEMENTS	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	Sum of the Averages
	45												
1. Community Supportive Services	2,662.63												2,662.63
A. On-going Service Delivery Costs	2,654.60												2,654.60
(1) Job Training/Placement Services													
(2) Physical Health Services	692.90												692.90
(3) Social/Swath Health Services	827.13												827.13
(4) Educational Services	914.57												914.57
B. Costs of Service Start-up	8.33												8.33
2. Client Maintenance	8,059.56												8,059.56
3. Service Integration Costs (SID Costs)	834.52												834.52
A. Assessment Costs	142.94												142.94
B. Cost of Placement Decision	170.83												170.83
C. Cost of Filling Prescription	27.62												27.62
D. Client Tracking & Monitoring Costs	543.13												543.13
4. Deinstitutionalization Costs	20.51												20.51
5. Loss Economic Productivity													
TOTAL COSTS	11,577.52												11,577.52

* All dollars valued at 1974 prices .

Exhibit III (2)

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS

STRATUM - 15

BENEFIT ELEMENTS

BENEFITS OVER 10 YEARS

	CL 45	CL	Sum of the Averages									
• Savings of Insti'zation Costs	48,355.82											48,355.82
• Increased Econ. Productivity	91.20											91.20
TOTAL BENEFITS	48,447.02											48,447.02

Exhibit IV

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS*

STRATUM - 15 N - 1

COST ELEMENTS	SOURCE OF FUNDS OVER 10 YEARS			Sum of the Averages
	Federal	State	Local	
1. Community Supportive Services	1,287.30	1,128.64	246.99	2,662.93
A. On-going Service Delivery Costs	1,283.42	1,126.34	244.84	2,654.60
(1) Job Training/Placement Services				
(2) Physical Health Services	535.76	357.14		892.90
(3) Social/Psych Health Services		582.29	244.84	827.13
(4) Educational Services	747.66	186.91		934.57
B. Costs of Service Start-Up	3.88	2.30	2.15	8.33
2. Client Maintenance	8,059.56			8,059.56
3. Service Integration Costs (SID Costs)	682.56	151.96		834.52
A. Assessment Costs	127.22	15.72		142.94
B. Cost of Placement Decision	120.83			120.83
C. Cost of Filling Prescription	24.58	3.04		27.62
D. Client Tracking and Monitoring Costs	409.93	133.20		543.13
4. Deinstitutionalization Costs		20.51		20.51
5. Lost Economic Productivity				
TOTAL COSTS	10,029.42	1,301.11	246.99	11,577.52

*All dollars valued at 1974 prices

Exhibit IV (2)

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS

STRATLM = 15 N= 1

BENEFIT ELEMENTS

DISTRIBUTION OF FUNDS, OVER LIFETIME OF AVERAGE CLIENT

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Average</u>
1. Savings of Institutionalization Costs		48,355.82		48,355.82
2. Increased Economic Productivity	91.20			91.20
TOTAL BENEFITS	91.20	48,355.82		48,447.02

Exhibit 7

SOCIETAL COSTS VERSUS TOTAL COSTS*

STRATUM = 15 N = 1

<u>COST ELEMENTS</u>	<u>COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>	<u>TOTAL SOCIETAL COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>
1. Community Supportive Services	2,662.93	2,662.93
A. On-going Service Delivery Costs	2,654.60	2,654.60
(1) Job Training/Placement Services		
(2) Physical Health Services	892.90	892.90
(3) Social/Psych Health Services	827.13	827.13
(4) Educational Services	934.57	934.57
B. Costs of Service Start-up	8.33	8.33
2. Client Maintenance	8,059.56	8,059.56
3. Service Integration Costs (SID costs)	834.52	834.52
A. Assessment Cost	142.94	142.94
B. Cost of Placement Decision	170.83	120.83
C. Cost of Filling Prescription	27.62	27.62
D. Client Tracking and Monitoring Costs	543.13	543.13
4. Deinstitutionalization Costs	20.51	20.51
5. Lost Economic Productivity		
TOTAL COSTS	11,577.52	11,577.52

*All dollars valued at 1974 prices

Exhibit V (2)

SOCIETAL COSTS VERSUS TOTAL COSTS

STRATUM - 15 N - 1

<u>BENEFIT ELEMENTS</u>	<u>TOTAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM</u>	<u>TOTAL SOCIETAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM</u>
1. Savings of Institutionalization Costs	48,355.82	48,355.82
2. Increased Economic Productivity	1,559.04	91.20
TOTAL BENEFITS	49,914.86	48,447.02

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: 16

N = 3

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>38,409.16</u>
2. Increased Economic Productivity	\$ <u>1,803.04</u>
Total Economic Benefits	\$ <u>120,636.59</u>
Total Economic Benefits per Client	\$ <u>40,212.20</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>6,841.61</u>
2. Costs of Client Maintenance in the Community	\$ <u>3,265.72</u>
3. Service Integration Costs	\$ <u>899.07</u>
4. Deinstitutionalization Costs	\$ <u>32.16</u>
5. Costs of Lost Economic Productivity	\$ _____
Total Economic Costs	\$ <u>31,115.69</u>
Total Economic Costs per Client	\$ <u>11,038.56</u>

Ratio of Average Economic Benefits over Average Costs 3.64

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATON*

STRATON = 16

COST ELEMENTS	N ₇₄ = 3	N ₇₅ = 3	N ₇₆ = 3	N ₇₇ = 3	N ₇₈ = 3	N ₇₉ = 3	N ₈₀ = 3	N ₈₁ = 3	N ₈₂ = 3	N ₈₃ = 3	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	550.50	1,067.30	987.85	915.24	847.22	567.06	524.60	485.45	449.66	416.34	6,861.61
A. On-going Service Delivery Costs	561.03	1,067.30	987.85	915.24	847.22	567.06	524.60	485.45	449.66	416.34	6,823.84
(1) Job Training/Placement Services	314.57	576.06	533.14	493.05	457.74	423.65	391.92	362.69	335.94	311.05	4,200.20
(2) Physical Health Services	64.91	47.70	41.16	75.20	69.61	64.50	59.67	55.22	51.15	47.15	662.67
(3) Social/Psych Health Services	72.88	107.31	99.31	42.01	45.17	79.91	73.01	67.55	62.57	57.94	786.66
(4) Educational Services	106.67	296.32	274.24	254.08	235.20						1,166.51
B. Costs of Service Start-up	17.77										17.77
2. Client Maintenance	350.10	432.25	400.04	370.64	343.10	317.89	294.08	272.15	252.07	233.40	3,265.72
3. Service Integration Costs (SID Costs)	336.79	83.85	77.62	71.90	63.22	61.67	57.05	52.80	48.90	45.28	899.07
A. Assessment Costs	116.39										116.39
B. Cost of Placement Decision	100.16										100.16
C. Cost of Filling Prescription	49.62										49.62
D. Client Tracking & Monitoring Costs	70.42	83.85	77.61	71.90	63.22	61.67	57.05	52.80	48.90	45.28	632.70
4. Deinstitutionalization Costs	32.16										32.16
5. Lost Economic Productivity											
TOTAL COSTS	1,299.85	1,583.49	1,465.50	1,357.78	1,253.54	946.62	875.73	810.40	750.63	695.02	11,038.36

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - 16

	N74 = 5	N75 = 3	N76 = 3	N77 = 3	N78 = 3	N79 = 3	N80 = 3	N81 = 3	N82 = 3	N83 = 3	
<u>BENEFIT ELEMENTS</u>	<u>Year 1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>Sum of the Averages</u>
1. Savings of Inst. Costs	3,786.75	5,132.94	4,750.46	4,401.25	4,074.20	3,774.88	3,492.17	3,231.65	2,993.29	2,771.57	38,409.16
2. Inc. Econ. Productivity	154.16	244.45	226.24	209.61	194.03	179.78	166.31	153.91	142.56	131.99	1,803.04
TOTAL BENEFITS	3,940.91	5,377.39	4,976.70	4,610.86	4,268.23	3,954.66	3,658.48	3,385.56	3,135.85	2,903.56	40,212.20

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS"

STRATCH - 16

COSTS OVER 10 YEARS

COST ELEMENTS	CL 46	CL 47	CL 48	CL	Sum of the Averages						
1. Community Supportive Services	1,839.84	14,517.53	4,167.45								6,841.61
A. On-going Service Delivery Costs	1,825.94	14,491.09	4,154.48								6,823.94
(1) Job Training/Placement Services		12,600.61									4,200.20
(2) Physical Health Services	606.55	771.99	654.96								656.27
(3) Social/Psych Health Services	1,221.29	1,168.49									724.66
(4) Educational Services			3,499.52								1,166.51
B. Costs of Service Start-up	13.90	26.44	12.97								17.77
2. Client Maintenance		9,207.19									3,265.72
3. Service Integration Costs (SID Costs)	942.64	1,166.14	588.42								809.07
A. Assessment Costs	200.41	71.26	77.49								116.39
B. Cost of Placement Decision	77.59	126.79	49.79								100.36
C. Cost of Filing Prescription	55.00	79.31	14.55								49.62
D. Client Tracking & Monitoring Costs	610.64	888.87	376.59								632.70
4. Deinstitutionalization Costs	33.55	42.42	20.51								32.16
5. Lost Economic Productivity											
TOTAL COSTS	2,816.04	25,523.28	4,776.38								11,038.56

* All dollars valued at 1974 prices

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS

STRATUM = 16

BENEFIT ELEMENTS

BENEFITS OVER 10 YEARS

	CL 46	CL 47	CL 48	CL	Sum of the Averages							
Savings of Insti'zation Cost:	46,343.88	21,102.58	47,781.02									88,409.16
Increased Econ. Productivity		71.02	5,338.09									1,803.04
TOTAL BENEFITS	46,343.88	21,173.60	53,119.11									40,212.20

Exhibit IV

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS*

STRATUM - 16 N - 3

COST ELEMENTS	SOURCE OF FUNDS OVER 10 YEARS		Local	Sum of the Averages
	Federal	State		
1. Community Supportive Services	4,486.24	2,069.32	286.05	6,841.61
A. On-going Service Delivery Costs	4,485.18	2,057.03	281.63	6,823.84
(1) Job Training/Placement Services	3,318.16	882.04		4,200.20
(2) Physical Health Services	255.14	330.83	74.50	660.47
(3) Social/Psych Health Services		589.53	207.13	796.66
(4) Educational Services	911.88	254.63		1,166.51
B. Costs of Service Start-Up	1.06	12.29	4.42	17.77
2. Client Maintenance	3,265.72			3,265.72
3. Service Integration Costs (SID Costs)	632.13	266.94		899.07
A. Assessment Costs	103.58	12.81		116.39
B. Cost of Placement Decision		100.36		100.36
C. Cost of Filling Prescription	44.16	5.46		49.62
D. Client Tracking and Monitoring Costs	484.39	148.31		632.70
4. Deinstitutionalization Costs		32.16		32.16
5. Lost Economic Productivity				
TOTAL COSTS	8,384.09	2,368.42	286.05	11,038.56

*All dollars valued at 1974 prices



CONTINUED

3 OF 5

Exhibit IV (2)

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS

STRATUM = 16 N = 2

BENEFIT ELEMENTS

DISTRIBUTION OF FUNDS, OVER LIFETIME OF AVERAGE CLIENT

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Average</u>
1. Savings of Institutionalization Costs	211.02	38,198.14		38,409.16
2. Increased Economic Productivity	1,643.19	159.85		1,803.04
TOTAL BENEFITS	1,854.21	38,357.99		40,212.20

Exhibit V

SOCIETAL COSTS VERSUS TOTAL COSTS *

STRATUM = 16 N= 3

<u>COST ELEMENTS</u>	<u>COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>	<u>TOTAL SOCIETAL COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>
1. Community Supportive Services	6,842.23	6,841.61
A. On-going Service Delivery Costs	6,823.84	6,823.84
(1) Job Training/Placement Services	4,200.20	4,200.20
(2) Physical Health Services	660.47	660.47
(3) Social/Psych Health Services	796.66	796.66
(4) Educational Services	1,166.51	1,166.51
B. Costs of Service Start-up	18.39	17.77
2. Client Maintenance	4,944.77	3,265.72
3. Service Integration Costs (SID costs)	899.07	898.07
A. Assessment Cost	116.39	116.39
B. Cost of Placement Decision	100.36	100.36
C. Cost of Filling Prescription	49.62	49.62
D. Client Tracking and Monitoring Costs	632.70	632.70
4. Deinstitutionalization Costs	32.16	32.16
5. Lost Economic Productivity		
TOTAL COSTS	12,718.23	11,038.56

*All dollars valued at 1974 prices

Exhibit V (2)

SOCIETAL COSTS VERSUS TOTAL COSTS

STRATUM = 16 N = 3

<u>BENEFIT ELEMENTS</u>	<u>TOTAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM</u>	<u>TOTAL SOCIETAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM</u>
1. Savings of Institutionalization Costs	38,409.16	28,409.16
2. Increased Economic Productivity	8,522.69	1,803.04
TOTAL BENEFITS	46,931.85	40,212.20

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: 17

N = 2

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>47,160.18</u>
2. Increased Economic Productivity	\$ _____
Total Economic Benefits	\$ <u>94,320.36</u>
Total Economic Benefits per Client	\$ <u>47,160.18</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>296.32</u>
2. Costs of Client Maintenance in the Community	\$ <u>7,941.38</u>
3. Service Integration Costs	\$ <u>844.80</u>
4. Deinstitutionalization Costs	\$ <u>33.55</u>
5. Costs of Lost Economic Productivity	\$ _____
Total Economic Costs	\$ <u>18,252.10</u>
Total Economic Costs per Client	\$ <u>9,116.05</u>

Ratio of Average Economic Benefits over Average Costs 5.17

Exhibit 22

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM = 17

COST ELEMENTS	N ₇₄ =2	N ₇₅ =2	N ₇₆ =2	N ₇₇ =2	N ₇₈ =2	N ₇₉ =2	N ₈₀ =2	N ₈₁ =2	N ₈₂ =2	N ₈₃ =2	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services		32.55	31.84	31.35	29.02	26.86	24.85	23.02	21.32	19.75	256.32
A. On-going Service Delivery Costs	35.65	36.55	33.84	31.35	29.02	26.85	24.88	23.02	21.32	19.75	282.26
(1) Job Training/Placement Services											
(2) Physical Health Services	18.01	19.84	17.67	16.77	15.16	14.11	12.89	12.02	11.55	11.31	127.45
(3) Social/Psych. Health Services	16.5	17.15	16.17	14.58	13.86	12.64	11.89	11.72	10.79	9.44	154.35
(4) Educational Services											
B. Costs of Service Start-up	14.06										14.06
2. Client Maintenance	962.40	1,034.67	957.57	887.17	821.25	760.92	703.93	651.42	603.37	558.68	7,941.38
3. Service Integration Costs (SID Costs)	271.90	84.94	78.60	72.84	67.41	62.46	57.79	53.47	49.53	45.86	644.60
A. Assessment Costs	51.70										65.70
B. Cost of Placement Decision	60.15										60.35
C. Cost of Filling Prescription	46.25										46.25
D. Client Tracking & Monitoring Costs	79.60	84.94	78.60	72.84	67.41	62.46	57.79	53.47	49.53	45.86	652.50
4. Deinstitutionalization Costs	33.55										33.55
5. Lost Economic Productivity											
TOTAL COSTS	1,317.56	1,156.16	1,070.01	991.36	917.68	850.26	786.60	727.91	674.22	624.29	9,116.05

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - 17

	N74=2	N75=2	N76=2	N77=2	N78=2	N79=2	N80=2	N81=2	N82=2	N83=2	
BENEFIT ELEMENTS	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	5,804.80	6,131.14	5,674.28	5,257.15	4,866.51	4,508.97	4,171.29	3,860.10	3,575.39	3,310.55	47,160.18
2. Inc. Econ. Productivity											
TOTAL BENEFITS	5,804.80	6,131.14	5,674.28	5,257.15	4,866.51	4,508.97	4,171.29	3,860.10	3,575.39	3,310.55	47,160.18

COST AND SERVICE PROJECTIONS FOR NEXT 10 YEARS

STRATON - 17

MONTHLY AVERAGE

COST ELEMENTS	MONTHLY AVERAGE										Sum of the Averages	
	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL		
1. Community Supportive Services												250.32
A. Community Service Delivery Costs												250.26
(1) Job Training and Support Services												147.65
(2) Family Support Services												102.61
(3) Supportive Services												14.66
B. Costs of Service Delivery												7,941.38
2. Client Maintenance												844.50
3. Service Integration Costs (SIC) (a) (b)												55.70
A. Assessment Costs												40.35
B. Cost of Placement Costs												46.25
C. Cost of Field Presentations												652.50
D. Client Tracking & Monitoring Costs												33.55
4. Deinstitutionalization Costs												
5. Lost Economic Productivity												9,116.05
TOTAL COSTS												
	10,650.39	9,172.71										

* All dollars valued at 1974 prices .

Exhibit III (2)

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS

STRATUM - 17

BENEFIT ELEMENTS

BENEFITS OVER 10 YEARS

	CL ₄₉	CL ₄₉	CL	Sum of the Averages							
Savings of Insti'zation Costs	46,906.22	47,414.14									47,160.18
Increased Econ. Productivity											
TOTAL BENEFITS	46,906.22	47,414.14									47,160.18

Exhibit IV

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS*

STRATUM - 17N - 2

COST ELEMENTS	SOURCE OF FUNDS OVER 10 YEARS			Sum of the Averages
	Federal	State	Local	
1. Community Supportive Services	111.36	146.24	38.72	296.32
A. On-going Service Delivery Costs	111.36	132.50	38.40	282.26
(1) Job Training/Placement Services				
(2) Physical Health Services		109.28	38.40	147.68
(3) Social/Psych Health Services	111.36	23.22		134.58
(4) Educational Services				
B. Costs of Service Start-Up		13.74	0.32	14.06
2. Client Maintenance	7,941.38			7,941.38
3. Service Integration Costs (SID Costs)	617.96	226.84		844.80
A. Assessment Costs	76.27	9.43		85.70
B. Cost of Placement Decision		60.35		60.35
C. Cost of Filling Prescription	41.16	5.09		46.25
D. Client Tracking and Monitoring Costs	500.53	151.97		652.50
4. Deinstitutionalization Costs		33.55		33.55
5. Lost Economic Productivity				
TOTAL COSTS	8,670.70	406.63	38.72	9,116.05

*All dollars valued at 1974 prices

Exhibit IV (2)

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS

STRATUM = 17 N = 2

BENEFIT ELEMENTS

DISTRIBUTION OF FUNDS, OVER LIFETIME OF AVERAGE CLIENT

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Averag</u>
1. Savings of Institutionalization Costs	938.13	46,222.05		47,160.18
2. Increased Economic Productivity				
TOTAL BENEFITS	938.13	46,222.05		47,160.18

Exhibit V

SOCIETAL COSTS VERSUS TOTAL COSTS*

STRATUM = 17

N= 2

COST ELEMENTS	COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM	TOTAL SOCIETAL COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM
1. Community Supportive Services	304.96	296.52
A. On-going Service Delivery Costs	290.48	282.16
(1) Job Training/Placement Services		
(2) Physical Health Services	155.90	147.68
(3) Social/Psych Health Services	134.58	134.58
(4) Educational Services		
B. Costs of Service Start-up	14.48	14.06
2. Client Maintenance	7,941.38	7,941.38
3. Service Integration Costs (SID costs)	844.80	844.80
A. Assessment Cost	85.70	85.70
B. Cost of Placement Decision	60.35	60.35
C. Cost of Filling Prescription	46.25	46.25
D. Client Tracking and Monitoring Costs	652.50	652.50
4. Deinstitutionalization Costs	33.55	33.55
5. Lost Economic Productivity		
TOTAL COSTS	9,124.69	9,116.05

*All dollars valued at 1974 prices

Exhibit V (2)

SOCIETAL COSTS VERSUS TOTAL COSTS

STRATUM - 17

N - 2

BENEFIT ELEMENTS

	TOTAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM	TOTAL SOCIETAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM
1. Savings of Institutionalization Costs	47,160.18	47,160.18
2. Increased Economic Productivity		
TOTAL BENEFITS	47,160.18	47,160.18

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: 18

N = 2

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>28,979.42</u>
2. Increased Economic Productivity	\$ <u> </u>
Total Economic Benefits	\$ <u>57,958.84</u>
Total Economic Benefits per Client	\$ <u>28,979.42</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>1,454.47</u>
2. Costs of Client Maintenance in the Community	\$ <u>13,513.19</u>
3. Service Integration Costs	\$ <u>1,142.83</u>
4. Deinstitutionalization Costs	\$ <u>42.42</u>
5. Costs of Lost Economic Productivity	\$ <u> </u>
Total Economic Costs	\$ <u>32,305.82</u>
Total Economic Costs per Client	\$ <u>16,152.91</u>

Ratio of Average Economic Benefits over Average Costs 1.79

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM = 18

COST ELEMENTS	N ₇₄ = 2	N ₇₅ = 2	N ₇₆ = 2	N ₇₇ = 2	N ₇₈ = 2	N ₇₉ = 2	N ₈₀ = 2	N ₈₁ = 2	N ₈₂ = 2	N ₈₃ = 2	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	228.39	181.77	168.23	155.86	144.28	133.69	123.67	114.44	106.00	98.14	1,454.47
A. On-going Service Delivery Costs	59.25	181.77	168.23	155.86	144.28	133.69	123.67	114.44	106.00	98.14	1,285.33
(1) Job Training/Placement Services											
(2) Physical Health Services	20.34	56.49	52.29	48.44	44.84	41.55	38.43	35.56	32.94	30.50	401.38
(3) Social/Psych Health Services	38.91	125.28	115.94	107.42	99.44	92.14	85.24	78.88	73.06	67.64	853.95
(4) Educational Services											
B. Costs of Service Start-up	169.14										169.14
2. Client Maintenance	531.50	1,924.60	1,781.19	1,650.24	1,527.62	1,415.40	1,309.40	1,211.70	1,122.34	1,039.20	13,513.19
3. Service Integration Costs (SID Costs)	426.66	106.18	98.26	91.04	84.28	78.08	72.24	66.84	61.92	57.33	1,142.93
A. Assessment Costs	84.21										84.21
B. Cost of Placement Decision	111.73										111.73
C. Cost of Filling Prescription	157.85										157.85
D. Client Tracking & Monitoring Costs	72.87	106.18	98.26	91.04	84.28	78.08	72.24	66.84	61.92	57.33	789.04
4. Deinstitutionalization Costs	42.42										42.42
5. Lost Economic Productivity											
TOTAL COSTS	1,228.97	2,212.55	2,047.68	1,897.14	1,756.18	1,621.17	1,505.31	1,392.98	1,290.26	1,194.67	16,152.91

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM = 18

N74= 2 N75= 2 N76= 2 N77= 2 N78= 2 N79= 2 N80= 2 N81= 2 N82= 2 N83= 2

BENEFIT ELEMENTS	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	1,108.98	4,131.92	3,824.04	3,542.93	3,279.66	3,038.71	2,811.15	2,601.42	2,409.55	2,231.06	28,979.42
2. Inc. Econ. Productivity											
TOTAL BENEFITS	1,108.98	4,131.92	3,824.04	3,542.93	3,279.66	3,038.71	2,811.15	2,601.42	2,409.55	2,231.06	28,979.42

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS*

STRATUM - 18

COSTS OVER 10 YEARS

COST ELEMENTS	CL ₅₁	CL ₅₂	CL ₅₃	CL ₅₄	CL ₅₅	CL ₅₆	CL ₅₇	CL ₅₈	CL ₅₉	CL ₆₀	Sum of the Averages
1. Community Supportive Services	1,167.29	1,745.64									1,454.47
A. On-going Service Delivery Costs	1,135.71	1,434.94									1,255.33
(1) Job Training/Placement Services											
(2) Physical Health Services	102.75										201.5
(3) Social/Psych Health Services	272.94	1,474.94									272.94
(4) Educational Services											
B. Costs of Service Start-up	27.58	310.70									169.14
2. Client Maintenance	14,614.03	12,412.76									12,513.19
3. Service Integration Costs (SIL Costs)	1,645.56	1,240.10									1,422.83
A. Assessment Costs	97.17	71.26									84.21
B. Cost of Placement Decision	47.53	175.92									111.73
C. Cost of Filling Prescription	42.03	273.67									157.85
D. Client Tracking & Monitoring Costs	858.83	719.25									789.04
4. Deinstitutionalization Costs	42.42	42.42									42.42
5. Loss: Economic Productivity											
TOTAL COSTS	16,865.30	15,440.52									16,152.91

* All dollars valued at 1974 prices .

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Exhibit III (2)

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS

STRATUM = 18

BENEFIT ELEMENTS

BENEFITS OVER 10 YEARS

	CL ₅₁	CL ₅₂	CL	Sum of the Averages								
ings of Insti'zation Costs	28,605.33	29,353.51										28,979.42
reased Econ. Productivity												
TOTAL BENEFITS	28,605.33	29,353.51										28,979.42

Exhibit IV

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS*

STRATUM = 18 N = 2

COST ELEMENTS

SOURCE OF FUNDS OVER 10 YEARS

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Averages</u>
1. Community Supportive Services	520.11	709.78	224.58	1,454.47
A. On-going Service Delivery Costs	477.31	606.52	201.50	1,285.33
(1) Job Training/Placement Services				
(2) Physical Health Services	17.31	288.34	95.73	401.38
(3) Social/Psych Health Services	460.00	318.18	105.77	883.95
(4) Educational Services				
B. Costs of Service Start-Up	42.80	103.26	23.08	169.14
2. Client Maintenance	13,513.19			13,513.19
3. Service Integration Costs (SID Costs)	817.42	325.41		1,142.83
A. Assessment Costs	74.95	9.26		84.21
B. Cost of Placement Decision		111.73		111.73
C. Cost of Filling Prescription	140.49	17.36		157.85
D. Client Tracking and Monitoring Costs	601.98	187.06		789.04
4. Deinstitutionalization Costs		42.42		42.42
5. Lost Economic Productivity				
TOTAL COSTS	14,850.72	1077.61	224.58	16,152.91

*All dollars valued at 1974 prices

Exhibit IV (2)

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS

STRATUM = 18 N = 2

NEFIT ELEMENTS

DISTRIBUTION OF FUNDS, OVER LIFETIME OF AVERAGE CLIENT

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Average</u>
Savings of Institutionalization Costs	4,471.23	24,508.19		28,979.42
Increased Economic Productivity				
TOTAL BENEFITS	4,471.23	24,508.19		28,979.42

Exhibit V

SOCIETAL COSTS VERSUS TOTAL COSTS*

STRATUM = 18 N = 2

COST ELEMENTS	COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM	TOTAL SOCIETAL COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM
1. Community Supportive Services	1,479.99	1,454.47
A. On-going Service Delivery Costs	1,300.05	1,285.33
(1) Job Training/Placement Services		
(2) Physical Health Services	401.38	401.38
(3) Social/Psych Health Services	898.67	883.95
(4) Educational Services		
B. Costs of Service Start-up	179.94	169.14
2. Client Maintenance	13,513.19	13,513.19
3. Service Integration Costs (SID costs)	1,142.83	1,142.83
A. Assessment Cost	84.21	84.21
B. Cost of Placement Decision	111.73	111.73
C. Cost of Filling Prescription	157.85	157.85
D. Client Tracking and Monitoring Costs	789.04	789.04
4. Deinstitutionalization Costs	42.42	42.42
5. Lost Economic Productivity		
TOTAL COSTS	16,178.43	16,152.91

*All dollars valued at 1974 prices

Exhibit V (2)

SOCIETAL COSTS VERSUS TOTAL COSTS

STRATUM - 18

N - 2

BENEFIT ELEMENTS

	TOTAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM	TOTAL SOCIETAL BENEFITS OVER LIFETIME OF AVERAGE CLIENT IN STRATUM
1. Savings of Institutionalization Costs	28,979.42	28,979.42
2. Increased Economic Productivity		
TOTAL BENEFITS	28,979.42	28,979.42

Appendix E

Summary Data Across Selected Strata



Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: ALL N = 52

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>41,298.05</u>
2. Increased Economic Productivity	\$ <u>658.19</u>
Total Economic Benefits	\$ <u>2,129,948.87</u>
Total Economic Benefits per Client	\$ <u>41,956.24</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>4,450.73</u>
2. Costs of Client Maintenance in the Community	\$ <u>15,589.10</u>
3. Service Integration Costs	\$ <u>1,083.57</u>
4. Deinstitutionalization Costs	\$ <u>33.35</u>
5. Costs of Lost Economic Productivity	\$ _____
Total Economic Costs	\$ <u>1,072,324.22</u>
Total Economic Costs per Client	\$ <u>21,156.75</u>

Ratio of Average Economic Benefits over Average Costs 1.98

Exhibit II

STRATUM = ALL

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

COST ELEMENTS	N ₇₄ = 52	N ₇₅ = 52	N ₇₆ = 52	N ₇₇ = 52	N ₇₈ = 52	N ₇₉ = 52	N ₈₀ = 49	N ₈₁ = 49	N ₈₂ = 48	N ₈₃ = 46	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	459.58	605.00	548.32	497.44	460.40	414.06	402.56	373.31	351.96	338.10	4,450.13
A. On-going Service Delivery Costs											
(1) Job Training/Placement Services											
(2) Physical Health Services											
(3) Social/Psych Health Services											
(4) Educational Services											
B. Costs of Service Start-up											
2. Client Maintenance	1,269.55	2,171.63	2,009.81	1,862.05	1,723.70	1,596.93	1,398.30	1,293.17	1,199.21	1,064.75	15,589.10
3. Service Integration Costs (SID Costs)	377.60	108.73	91.28	88.26	81.50	75.69	71.47	65.76	61.93	57.35	1,083.57
A. Assessment Costs											
B. Cost of Placement Decision											
C. Cost of Filling Prescription											
D. Client Tracking & Monitoring Costs											
4. Deinstitutionalization Costs	33.35										33.35
5. Lost Economic Productivity											
TOTAL COSTS	2,140.08	2,885.36	2,653.41	2,447.75	2,265.60	2,086.68	1,872.33	1,732.24	1,613.10	1,460.20	21,156.75

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - ALL

	N74= 52	N75=52	N76= 52	N77= 52	N78= 52	N79= 52	N80= 49	N81= 49	N82=48	N83 =46	
<u>BENEFIT ELEMENTS</u>	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	4,248.96	5,529.88	5,118.15	4,741.87	4,389.54	4,043.48	3,728.52	3,442.84	3,134.26	2,920.55	41,298.05
2. Inc. Econ. Productivity	68.58	75.97	79.96	74.12	68.58	63.54	62.38	57.73	54.59	52.74	658.19
TOTAL BENEFITS	4,317.54	5,605.85	5,198.11	4,815.99	4,458.12	4,107.02	3,790.90	3,500.57	3,188.85	2,973.29	41,956.24

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: Intensive Care
(3, 5, 6)

N = 17

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>44,866.70</u>
2. Increased Economic Productivity	\$ <u>277.58</u>
Total Economic Benefits	\$ <u>726,981.32</u>
Total Economic Benefits per Client	\$ <u>45,144.28</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>2,391.10</u>
2. Costs of Client Maintenance in the Community	\$ <u>28,133.03</u>
3. Service Integration Costs	\$ <u>1,059.61</u>
4. Deinstitutionalization Costs	\$ <u>36.16</u>
5. Costs of Lost Economic Productivity	\$ <u> </u>
Total Economic Costs	\$ <u>507,782.47</u>
Total Economic Costs per Client	\$ <u>31,619.90</u>

Ratio of Average Economic Benefits over Average Costs 1.43

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM - Intensive Care

(3, 5, 6)

COST ELEMENTS	N ₇₄ = 17	N ₇₅ = 17	N ₇₆ = 17	N ₇₇ = 17	N ₇₈ = 17	N ₇₉ = 17	N ₈₀ = 15	N ₈₁ = 15	N ₈₂ = 14	N ₈₃ = 12	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	245.19	381.08	269.06	249.27	230.75	213.80	211.55	195.77	193.31	201.32	2,351.10
A. On-going Service Delivery Costs											
(1) Job Training/Placement Services											
(2) Physical Health Service											
(3) Social/Psych Health Services											
(4) Educational Services											
B. Costs of Service Start-up											
2. Client Maintenance	2,178.07	3,892.60	3,602.54	3,337.72	3,089.70	2,862.70	2,529.58	2,340.86	2,239.76	2,059.50	28,133.03
3. Service Integration Costs (SID Costs)	365.70	108.43	91.95	85.13	78.80	73.03	70.50	65.24	62.65	58.18	1,059.61
A. Assessment Costs											
B. Cost of Placement Decision											
C. Cost of Filling Prescription											
D. Client Tracking & Monitoring Costs											
4. Deinstitutionalization Costs	36.16										36.16
5. Lost Economic Productivity											
TOTAL COSTS	2,825.12	4,382.11	3,963.55	3,672.12	3,399.25	3,149.53	2,811.63	2,601.87	2,495.72	2,319.00	31,619.90

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM = Intensive Care (3, 5, 6)

N₇₄= 17 N₇₅= 17 N₇₆= 17 N₇₇= 17 N₇₈= 17 N₇₉= 17 N₈₀= 15 N₈₁= 15 N₈₂= 14 N₈₃= 12

BENEFIT ELEMENTS	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	4,805.92	6,021.76	5,573.05	5,163.36	4,779.69	4,427.23	4,027.16	3,702.15	3,258.89	3,107.49	44,866.70
2. Inc. Econ. Productivity	3.36	10.34	38.88	36.02	33.34	30.89	32.39	29.97	29.75	32.14	277.58
TOTAL BENEFITS	4,809.28	6,032.60	5,611.93	5,199.38	4,813.03	4,458.12	4,059.55	3,732.12	3,288.64	3,139.63	45,144.28

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: Intermediate Care
(7, 9, 10, 11)

N = 18

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>41,702.22</u>
2. Increased Economic Productivity	\$ <u>177.97</u>
Total Economic Benefits	\$ <u>740,124.57</u>
Total Economic Benefits per Client	\$ <u>41,880.19</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>6,961.45</u>
2. Costs of Client Maintenance in the Community	\$ <u>13,402.22</u>
3. Service Integration Costs	\$ <u>1,160.18</u>
4. Deinstitutionalization Costs	\$ <u>30.42</u>
5. Costs of Lost Economic Productivity	\$ <u> </u>
Total Economic Costs	\$ <u>380,863.98</u>
Total Economic Costs per Client	\$ <u>21,554.27</u>

Ratio of Average Economic Benefits over Average Costs 1.94

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM - Intermediate Care
(7, 0, 10, 11)

COST ELEMENTS	N ₇₄ = 18	N ₇₅ = 18	N ₇₆ =18	N ₇₇ =18	N ₇₈ =18	N ₇₉ =18	N ₈₀ =17	N ₈₁ =17	N ₈₂ =17	N ₈₃ =17	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	541.51	886.73	869.90	805.90	745.97	691.16	676.77	626.29	580.09	537.13	6,961.45
A. On-going Service Delivery Costs											
(1) Job Training/Placement Services											
(2) Physical Health Services											
(3) Social/Psych Health Services											
(4) Educational Services											
B. Costs of Service Start-up											
2. Client Maintenance	1,049.39	1,830.99	1,694.54	1,569.98	1,453.32	1,346.54	1,246.43	1,153.44	1,068.36	989.23	13,402.22
3. Service Integration Costs (SID Costs)	381.93	121.14	104.57	96.84	89.69	85.10	78.55	72.69	67.33	62.34	1,160.18
A. Assessment Costs											
B. Cost of Placement Decision											
C. Cost of Filling Prescription											
D. Client Tracking & Monitoring Costs	30.42										30.42
4. Deinstitutionalization Costs											
5. Lost Economic Productivity											
TOTAL COSTS	2,007.45	2,838.86	2,668.91	2,472.72	2,288.98	2,120.80	2,001.75	1,852.42	1,715.78	1,588.70	21,554.27

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - Intermediate Care (7, 9, 10, 11)

	N74= 18	N75= 18	N76= 18	N77= 18	N78=18	N79= 18	N80= 17	N81= 17	N82= 17	N83 =17	
<u>BENEFIT ELEMENTS</u>	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	3,937.26	5,605.56	5,187.87	4,806.50	4,449.34	4,055.59	3,819.73	3,534.77	3,274.06	3,031.54	41,702.22
2. Inc. Econ. Productivity	20.73	22.21	21.22	19.67	18.20	16.86	16.52	15.29	14.16	13.11	177.97
TOTAL BENEFITS	3,957.99	5,627.77	5,209.09	4,826.17	4,467.54	4,072.45	3,836.25	3,550.06	3,288.22	3,044.65	41,880.19

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: Family Care
(14, 15, 16, 17, 18)

N = 17

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>37,470.77</u>
2. Increased Economic Productivity	\$ <u>1,519.98</u>
Total Economic Benefits	\$ <u>662,843.02</u>
Total Economic Benefits per Client	\$ <u>38,990.75</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>3,795.47</u>
2. Costs of Client Maintenance in the Community	\$ <u>6,064.04</u>
3. Service Integration Costs	\$ <u>1,029.07</u>
4. Deinstitutionalization Costs	\$ <u>33.62</u>
5. Costs of Lost Economic Productivity	\$ <u> </u>
Total Economic Costs	\$ <u>188,677.77</u>
Total Economic Costs per Client	\$ <u>10,922.20</u>

Ratio of Average Economic Benefits over Average Costs 3.57

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM - Family Care

(14, 15, 16, 17, 18)

COST ELEMENTS	N ₇₄ =17	N ₇₅ =17	N ₇₆ =17	N ₇₇ =17	N ₇₈ =17	N ₇₉ =17	N ₈₀ =17	N ₈₁ =17	N ₈₂ =17	N ₈₃ =17	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	587.14	530.60	487.21	419.02	287.69	320.92	296.89	275.91	254.47	235.62	3,795.47
A. On-going Service Delivery Costs											
(1) Job Training/Placement Services											
(2) Physical Health Services											
(3) Social/Psych Health Services											
(4) Educational Services											
B. Costs of Service Start-up											
2. Client Maintenance	594.14	811.36	750.89	695.69	644.00	596.28	551.99	508.46	473.14	438.09	6,064.04
3. Service Integration Costs (SID Costs)	382.79	95.90	88.76	82.23	75.53	70.52	65.25	60.38	55.93	51.78	1,029.07
A. Assessment Costs											
B. Cost of Placement Decision											
C. Cost of Filling Prescription											
D. Client Tracking & Monitoring Costs											
4. Reinstitutionalization Costs	33.62										33.62
5. Lost Economic Productivity											
TOTAL COSTS	1,597.69	1,437.86	1,326.86	1,196.94	1,107.22	987.72	914.13	844.75	783.54	725.49	10,922.20

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - Family Care (14, 15, 16, 17, 18)

N74= 17 N75=17 N76= 17 N77= 17 N78= 17 N79= 17 N80= 17 N81= 17 N82= 17 N83 = 17

<u>BENEFIT ELEMENTS</u>	<u>Year 1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>Sum of the Averages</u>
1. Savings of Inst. Costs	4,022.06	4,958.93	4,589.43	4,252.05	3,936.08	3,646.91	3,373.78	3,122.10	2,891.82	2,677.61	37,470.77
2. Inc. Econ. Productivity	184.44	198.00	183.24	169.78	157.16	145.61	134.71	124.67	115.46	106.91	1,519.98
TOTAL BENEFITS	4,206.50	5,156.93	4,772.67	4,421.83	4,093.24	3,792.52	3,508.49	3,246.77	3,007.28	2,784.52	38,990.75

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: Nursing Home (5, 6 -
Selected clients)

N - 9

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>45,555.40</u>
2. Increased Economic Productivity	\$ <u> </u>
Total Economic Benefits	\$ <u>375,488.01</u>
Total Economic Benefits per Client	\$ <u>45,555.40</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>597.70</u>
2. Costs of Client Maintenance in the Community	\$ <u>41,582.98</u>
3. Service Integration Costs	\$ <u>865.71</u>
4. Deinstitutionalization Costs	\$ <u>34.54</u>
5. Costs of Lost Economic Productivity	\$ <u> </u>
Total Economic Costs	\$ <u>351,013.27</u>
Total Economic Costs per Client	\$ <u>43,080.93</u>

Ratio of Average Economic Benefits over Average Costs 1.06

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM - Nursing Home Residents

COST ELEMENTS	N ₇₄ ⁻⁹	N ₇₅ ⁻⁹	N ₇₆ ⁻⁹	N ₇₇ ⁻⁹	N ₇₈ ⁻⁹	N ₇₉ ⁻⁹	N ₈₀ ⁻⁷	N ₈₁ ⁻⁷	N ₈₂ ⁻⁷	N ₈₃ ⁻⁵	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	53.80	86.43	79.98	74.10	68.60	63.56	48.60	44.97	41.66	36.00	597.70
A. On-going Service Delivery Costs	41.03	86.43	79.98	74.10	68.60	63.56	48.60	44.97	41.66	36.00	584.93
(1) Job Training/Placement Services	21.03										21.03
(2) Physical Health Services	20.00	86.43	79.98	74.10	66.60	63.56	48.60	44.97	41.66	36.00	563.90
(3) Social/Psych Health Services											
(4) Educational Services											
B. Costs of Service Start-up	12.77										12.77
2. Client Maintenance	2,824.24	5,643.91	5,223.36	4,839.37	4,479.77	4,150.65	3,925.80	3,632.92	3,364.96	3,498.00	41,582.98
3. Service Integration Costs (SID Costs)	304.37	93.03	74.80	69.18	63.44	59.34	57.62	53.32	49.39	41.22	865.71
A. Assessment Costs	85.35										85.35
B. Cost of Placement Decision	105.86										105.86
C. Cost of Filling Prescription	34.16										34.16
D. Client Tracking & Monitoring Costs	79.00	93.03	74.80	69.18	63.44	59.34	57.62	53.32	49.39	41.22	640.34
4. Deinstitutionalization Costs	34.54										34.54
5. Lost Economic Productivity											
TOTAL COSTS	3,216.95	5,823.37	5,378.14	4,982.65	4,611.81	4,273.55	4,032.02	3,731.21	3,456.01	3,575.22	43,080.93

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - Nursing Home

	N74-9	N75-9	N76-9	N77-9	N78-9	N79-9	N80-7	N81-7	N82-7	N83-5	Sum of the Averages
<u>BENEFIT ELEMENTS</u>	<u>Year 1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	
1. Savings of Inst. Costs	4,678.61	6,157.36	5,698.55	5,279.57	4,887.32	4,525.81	4,066.11	3,726.96	3,270.24	3,264.87	45,555.40
2. Inc. Econ. Productivity											
TOTAL BENEFITS	4,678.61	6,157.36	5,698.55	5,279.57	4,887.32	4,525.81	4,066.11	3,726.96	3,270.24	3,264.87	45,555.40

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS*

STRATUS - Nursing Home

COSTS OVER 10 YEARS

COST ELEMENTS	CL 5	CL 7	CL 8	CL 9	CL 10	CL 13	CL 14	CL 15	CL 16	CL	Sum of the Averages
1. Community Supportive Services	3.13	68.11	1,139.28	1,058.28	733.74	1,149.28	189.28	7.28	611.95		597.70
A. On-going Service Delivery Costs			1,139.28	1,049.28	733.74	1,145.64	189.28		589.16		584.93
(1) Job Training/Placement Services							189.28				21.03
(2) Physical Health Services			1,139.28	1,049.28	733.74	1,145.64			589.16		563.70
(3) Social/Psych Health Services											
(4) Educational Services											
B. Costs of Service Start-up	3.13	69.11		8.96		3.64		7.28	22.79		12.77
2. Client Maintenance	60,166.10	66,714.00	56,584.24	51,085.44	37,187.42	55,405.44			11,264.73		43,562.98
3. Service Integration Costs (SID Costs)	666.29	1,182.02	817.79	922.05	580.93	873.21	1,150.15	649.70	491.35		865.71
A. Assessment Costs	30.55	71.26	111.13	133.61	91.63	42.53	35.63	78.95	72.88		85.35
B. Cost of Placement Decision	145.46	134.26	134.26	172.31	89.51	90.10	24.61	50.34	111.89		105.86
C. Cost of Filling Prescription	15.27	76.36	1.52	82.98	10.18	62.42	19.00	12.63	25.10		34.16
D. Client Tracking & Monitoring Costs	475.01	900.14	56.88	533.15	389.61	578.17	1,070.91	507.78	281.48		640.34
4. Deinstitutionalization Costs	33.55	33.55	33.55	33.55	33.55	42.42	33.55	33.55	33.55		34.54
5. Economic Productivity											
TOTAL COSTS	60,869.37	67,998.68	58,574.86	53,099.28	38,535.64	57,470.35	1,372.98	690.53	12,401.58		43,080.93

* All dollars valued at 1974 prices

Exhibit III (2)

COST AND BENEFIT DOLLARS OVER NEXT 10 YEARS

STRATUM - Nursing Home

BENEFIT ELEMENTS

BENEFITS OVER 10 YEARS

	<u>CL 5</u>	<u>CL 7</u>	<u>CL 8</u>	<u>CL 9</u>	<u>CL 10</u>	<u>CL 13</u>	<u>CL 14</u>	<u>CL 15</u>	<u>CL 16</u>	<u>CL</u>	Sum of the Averages
Savings of Institutional Costs	42,170.43	65,047.18	35,884.31	49,949.64	36,503.41	27,878.82	32,221.93	60,529.03	25,303.26		45,555.40
Increased Econ. Productivity											
TOTAL BENEFITS	42,170.43	65,047.18	35,884.64	49,949.64	36,503.41	27,878.82	32,221.93	60,529.03	25,303.26		45,555.40

Exhibit IV

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS*

STRATUM = Nursing Home N = 9

COST ELEMENTS	SOURCE OF FUNDS OVER 10 YEARS			Sum of the Averages
	Federal	State	Local	
1. Community Supportive Services	360.97	232.88	3.85	597.70*
A. On-going Service Delivery Costs	355.81	225.55	3.57	584.93
(1) Job Training/Placement Services	17.46		3.57	21.03
(2) Physical Health Services	338.35	225.55		563.90
(3) Social/Psvch Health Services				
(4) Educational Services				
B. Costs of Service Start-Up	5.16	7.33	.28	12.77
2. Client Maintenance	25,815.51	15,767.47		41,582.98
3. Service Integration Costs (SID Costs)	610.46	255.25		865.71
A. Assessment Costs	75.96	9.39		85.35
B. Cost of Placement Decision		105.86		105.86
C. Cost of Filling Prescription	30.40	3.76		34.16
D. Client Tracking and Monitoring Costs	504.10	136.24		640.34
4. Deinstitutionalization Costs		32.54		32.54
5. Lost Economic Productivity				
TOTAL COSTS	26,786.94	16,290.14	3.85	43,080.93

*All dollars valued at 1974 prices

Exhibit IV (2)

SOURCES AND RECIPIENTS OF COST/BENEFIT DOLLARS

STRATUM = Nursing Home N= 9

BENEFIT ELEMENTS

DISTRIBUTION OF FUNDS, OVER LIFETIME OF AVERAGE CLIENT

	<u>Federal</u>	<u>State</u>	<u>Local</u>	<u>Sum of the Averages</u>
1. Savings of Institutionalization Costs	21,548.36	24,007.04		45,555.40
2. Increased Economic Productivity				
TOTAL BENEFITS	21,548.36	24,007.04		45,555.40

Exhibit V

SOCIETAL COSTS VERSUS TOTAL COSTS*

STRATUM - Nursing Home N- 9

<u>COST ELEMENTS</u>	<u>COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>	<u>TOTAL SOCIETAL COST OVER 10 YEARS FOR AVERAGE CLIENT IN STRATUM</u>
<u>1. Community Supportive Services</u>	601.19	597.70
<u>A. On-going Service Delivery Costs</u>	584.93	584.93
<u>(1) Job Training/Placement Services</u>	21.03	21.03
<u>(2) Physical Health Services</u>	563.90	563.90
<u>(3) Social/Psych Health Services</u>		
<u>(4) Educational Services</u>		
<u>B. Costs of Service Start-up</u>	16.26	12.77
<u>2. Client Maintenance</u>	41,582.98	41,582.98
<u>3. Service Integration Costs (SID costs)</u>	865.71	865.71
<u>A. Assessment Cost</u>	85.35	85.35
<u>B. Cost of Placement Decision</u>	105.86	105.86
<u>C. Cost of Filling Prescription</u>	34.16	34.16
<u>D. Client Tracking and Monitoring Costs</u>	640.34	640.34
<u>4. Deinstitutionalization Costs</u>	34.54	34.54
<u>5. Lost Economic Productivity</u>		
TOTAL COSTS	43,084.42	43,080.93

*All dollars valued at 1974 prices

Exhibit V (2)

SOCIETAL COSTS VERSUS TOTAL COSTS

STRATUM - Nursing Home

N - 9

BENEFIT ELEMENTS

TOTAL BENEFITS OVER LIFETIME
OF AVERAGE CLIENT IN STRATUM

TOTAL SOCIETAL BENEFITS OVER LIFETIME
OF AVERAGE CLIENT IN STRATUM

1. Savings of Institutionalization Costs

45,555.40

45,555.40

2. Increased Economic Productivity

TOTAL BENEFITS

45,555.40

45,555.40

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: Not Employable

N = 24

(5, 6, 11, 17, 18)

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>43,534.50</u>
2. Increased Economic Productivity	\$ _____
Total Economic Benefits	\$ <u>991,614.76</u>
Total Economic Benefits per Client	\$ <u>43,534.50</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>1,149.96</u>
2. Costs of Client Maintenance in the Community	\$ <u>23,274.49</u>
3. Service Integration Costs	\$ <u>1,050.94</u>
4. Deinstitutionalization Costs	\$ <u>35.22</u>
5. Costs of Lost Economic Productivity	\$ _____
Total Economic Costs	\$ <u>580,448.61</u>
Total Economic Costs per Client	\$ <u>25,510.61</u>

Ratio of Average Economic Benefits over Average Costs 1.71

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM -Not Employable
(5, 6, 11, 17, 18)

COST ELEMENTS	N ₇₄ = 24	N ₇₅ = 24	N ₇₆ = 24	N ₇₇ = 24	N ₇₈ = 24	N ₇₉ = 24	N ₈₀ = 21	N ₈₁ = 21	N ₈₂ = 20	N ₈₃ = 18	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	114.53	148.89	137.80	127.67	118.18	109.50	106.57	98.62	95.23	92.97	1,149.96
A. On-going Service Delivery Costs											
(1) Job Training/Placement Services											
(2) Physical Health Services											
(3) Social/Psych Health Services											
(4) Educational Services											
B. Costs of Service Start-up											
2. Client Maintenance	1,833.33	3,220.98	2,980.97	2,761.83	2,556.61	2,368.78	2,108.67	1,951.36	1,839.48	1,652.48	23,274.49
3. Service Integration Costs (SID Costs)	356.34	111.65	91.73	84.95	78.63	72.85	70.40	65.15	61.90	57.34	1,050.74
A. Assessment Costs											
B. Cost of Placement Decision											
C. Cost of Filling Prescription											
D. Client Tracking & Monitoring Costs											
4. Deinstitutionalization Costs	35.22										35.22
5. Lost Economic Productivity											
TOTAL COSTS	2,339.42	3,481.52	3,210.50	2,974.45	2,753.42	2,551.13	2,285.64	2,115.13	1,996.61	1,802.79	25,510.61

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - Not Employable (5, 6, 11, 17, 18)

N74= 24 N75= 24 N76= 24 N77= 24 N78= 24 N79= 24 N80= 21 N81= 21 N82= 20 N83= 18

BENEFIT ELEMENTS	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	4,518.76	5,851.15	5,415.15	5,017.07	4,644.27	4,251.99	3,932.78	3,621.83	3,231.84	3,049.66	43,534.50
2. Inc. Econ. Productivity											
TOTAL BENEFITS	4,518.76	5,851.15	5,415.15	5,017.07	4,644.27	4,251.99	3,932.78	3,621.83	3,231.84	3,049.66	43,534.50

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: Semi-Employable
(3, 9, 10, 15, 16)

N = 18

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>40,893.53</u>
2. Increased Economic Productivity	\$ <u>721.63</u>
Total Economic Benefits	\$ <u>749,072.92</u>
Total Economic Benefits per Client	\$ <u>41,615.16</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>8,963.06</u>
2. Costs of Client Maintenance in the Community	\$ <u>11,807.86</u>
3. Service Integration Costs	\$ <u>1,145.84</u>
4. Deinstitutionalization Costs	\$ <u>31.40</u>
5. Costs of Lost Economic Productivity	\$ <u> </u>
Total Economic Costs	\$ <u>393,066.66</u>
Total Economic Costs per Client	\$ <u>21,948.16</u>

Ratio of Average Economic Benefits over Average Costs 1.90

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUS*

STRATUS -Semi-Employable (3, 9,
110, 115, 116)

COST ELEMENTS	N ₇₄ -18	N ₇₅ -18	N ₇₆ -18	N ₇₇ -18	N ₇₈ -18	N ₇₉ -18	N ₈₀ -18	N ₈₁ -18	N ₈₂ -18	N ₈₃ -18	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	764.12	1,282.46	1,157.05	1,052.52	974.13	866.39	801.52	741.72	687.02	636.13	8,963.06
A. On-going Service Delivery Costs											
(1) Job Training/Placement Services											
(2) Physical Health Services											
(3) Social/Psych Health Services											
(4) Educational Services											
B. Costs of Service Start-up											
2. Client Maintenance	894.18	1,618.07	1,497.49	1,387.41	1,284.32	1,189.57	1,100.84	1,018.72	943.57	873.69	11,807.86
3. Service Interpretation Costs (SID Costs)	396.90	111.11	102.84	95.27	87.64	81.72	75.60	69.96	64.80	60.00	1,145.84
A. Assessment Costs											
B. Cost of Placement Decision											
C. Cost of Filling Prescription											
D. Client Tracking & Monitoring Costs											
4. Deinstitutionalization Costs	31.40										31.40
5. Lost Economic Productivity											
TOTAL COSTS	2,086.60	3,011.64	2,757.38	2,535.20	2,346.09	2,137.68	1,977.96	1,830.40	1,695.39	1,569.82	21,948.16

* All dollars valued at 1974 prices



CONTINUED

4 OF 5

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM -Semi-Employable (3, 9, 10, 15, 16)

	N74- 18	N75- 18	N76- 18	N77- 18	N78-18	N79- 18	N80- 18	N81- 18	N82-18	N83 -18	
BENEFIT ELEMENTS	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	3,882.41	5,497.08	5,078.22	4,704.90	4,355.29	4,035.32	3,733.11	3,454.61	3,199.81	2,962.78	40,893.53
2. Inc. Econ. Productivity	49.79	73.92	96.31	89.24	82.61	76.54	70.81	65.52	60.69	56.20	721.63
TOTAL BENEFITS	3,932.20	5,561.00	5,174.53	4,794.14	4,437.90	4,111.86	3,803.92	3,520.13	3,260.50	3,018.98	41,615.16

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: Employable (7, 14) N = 10

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>36,892.16</u>
2. Increased Economic Productivity	\$ <u>2,033.94</u>
Total Economic Benefits	\$ <u>389,261.23</u>
Total Economic Benefits per Client	\$ <u>38,926.10</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>3,827.67</u>
2. Costs of Client Maintenance in the Community	\$ <u>4,969.85</u>
3. Service Integration Costs	\$ <u>1,051.05</u>
4. Deinstitutionalization Costs	\$ <u>32.32</u>
5. Costs of Lost Economic Productivity	\$ _____
Total Economic Costs	\$ <u>98,808.95</u>
Total Economic Costs per Client	\$ <u>9,880.89</u>

Ratio of Average Economic Benefits over Average Costs 3.94

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM = Employable (7, 14)

COST ELEMENTS	N ₇₄ = 10	N ₇₅ = 10	N ₇₆ =10	N ₇₇ =10	N ₇₈ = 10	N ₇₉ =10	N ₈₀ =10	N ₈₁ =10	N ₈₂ =10	N ₈₃ =10	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	739.58	480.22	437.88	385.74	357.04	330.81	306.03	285.20	262.31	242.88	3,827.67
A. On-going Service Delivery Costs											
(1) Job Training/Placement Services											
(2) Physical Health Services											
(3) Social/Psych Health Services											
(4) Educational Services											
B. Costs of Service Start-up											
2. Client Maintenance	592.16	649.62	601.20	557.00	515.62	477.74	441.95	404.98	378.82	350.76	4,969.85
3. Service Integration Costs (SID Costs)	393.86	97.43	90.17	83.54	77.34	71.65	66.29	61.34	56.82	52.61	1,051.05
A. Assessment Costs											
B. Cost of Placement Decision											
C. Cost of Filling Prescription											
D. Client Tracking & Monitoring Costs											
4. Deinstitutionalization Costs	32.32										32.32
5. Lost Economic Productivity											
TOTAL COSTS	1,757.92	1,227.27	1,129.25	1,026.26	950.00	880.20	814.27	751.52	697.95	646.25	9,880.89

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - Employable (9, 14)

	N74-10	N75-10	N76-10	N77-10	N78-10	N79-10	N80-10	N81-10	N82-10	N83-10	
<u>BENEFIT ELEMENTS</u>	<u>Year 1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>Sum of the Averages</u>
1. Savings of Inst. Costs	4,261.24	4,837.69	4,477.22	4,148.09	3,839.85	3,557.74	3,291.30	3,045.77	2,821.12	2,612.14	36,892.16
2. Inc. Econ. Productivity	266.96	261.96	242.44	224.62	207.93	192.65	178.23	164.94	152.76	141.45	2,033.94
TOTAL BENEFITS	4,528.20	5,099.65	4,719.66	4,372.71	4,047.78	3,750.39	3,469.53	3,210.71	2,973.88	2,753.59	38,926.10

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: Public Funds (3,5,7,9,11, 15,17) N = 30

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>43,240.21</u>
2. Increased Economic Productivity	\$ <u>180.06</u>
Total Economic Benefits	\$ <u>1,270,422.90</u>
Total Economic Benefits per Client	\$ <u>43,420.27</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>4,404.12</u>
2. Costs of Client Maintenance in the Community	\$ <u>22,568.37</u>
3. Service Integration Costs	\$ <u>1,031.84</u>
4. Deinstitutionalization Costs	\$ <u>32.72</u>
5. Costs of Lost Economic Productivity	\$ <u> </u>
Total Economic Costs	\$ <u>817,268.30</u>
Total Economic Costs per Client	\$ <u>28,037.05</u>

Ratio of Average Economic Benefits over Average Costs 1.55

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - Public Funds (3, 5, 7, 9, 11, 15, 17)

	N74= 30	N75= 30	N76= 30	N77= 30	N78= 30	N79= 30	N80=28	N81= 28	N82= 27	N83 =26	
<u>BENEFIT ELEMENTS</u>	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	4,273.34	5,836.33	5,402.00	5,604.83	4,632.98	4,252.48	3,924.80	3,618.83	3,261.32	3,033.30	43,240.21
2. Inc. Econ. Productivity	10.51	8.76	24.85	23.08	21.31	19.74	19.57	18.11	17.40	16.73	180.06
TOTAL BENEFITS	4,283.85	5,845.09	5,426.85	5,027.91	4,654.29	4,272.22	3,944.37	3,636.94	3,278.72	3,050.03	43,420.27

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM = Public Funds (3, 5, 7,
9, 11, 15, 17)

COST ELEMENTS	N ₇₄ = 30	N ₇₅ = 30	N ₇₆ = 30	N ₇₇ = 30	N ₇₈ = 30	N ₇₉ = 30	N ₈₀ = 28	N ₈₁ = 28	N ₈₂ = 27	N ₈₃ = 26	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	404.57	601.68	538.94	487.65	451.29	418.23	410.35	380.38	364.24	346.78	4,404.12
A. On-going Service Delivery Costs											
(1) Job Training/Placement Services											
(2) Physical Health Services											
(3) Social/Psych Health Services											
(4) Educational Services											
E. Costs of Service Start-up											
2. Client Maintenance	1,793.73	3,138.22	2,904.38	2,690.85	2,490.82	2,307.68	2,042.38	1,890.02	1,772.25	1,537.94	22,568.37
3. Service Integration Costs (SID Costs)	364.72	106.64	89.41	82.81	76.65	71.02	66.77	61.14	58.27	54.41	1,031.84
A. Assessment Costs											
B. Cost of Placement Decision											
C. Cost of Filling Prescription											
D. Client Tracking & Monitoring Costs											
4. Deinstitutionalization Costs	37.72										37.72
5. Lost Economic Productivity											
TOTAL COSTS	2,595.74	3,846.54	3,532.73	3,261.31	3,018.86	2,796.93	2,519.50	2,331.54	2,194.77	1,939.13	28,037.05

* All dollars valued at 1974 prices

Exhibit I

SUMMARY OF AVERAGE ECONOMIC COSTS AND BENEFITS

STRATUM: Private Funds

N = 22

(6,10,14,16,18)

ECONOMIC BENEFITS

1. Savings due to Decreased Institutionalization Costs	\$ <u>38,678.02</u>
2. Increased Economic Productivity	\$ <u>1,302.46</u>
Total Economic Benefits	\$ <u>859,525.97</u>
Total Economic Benefits per Client	\$ <u>39,980.48</u>

ECONOMIC COSTS

1. Costs of Community Supportive Services	\$ <u>4,516.26</u>
2. Costs of Client Maintenance in the Community	\$ <u>6,184.31</u>
3. Service Integration Costs	\$ <u>1,153.36</u>
4. Deinstitutionalization Costs	\$ <u>34.20</u>
5. Costs of Lost Economic Productivity	\$ _____
Total Economic Costs	\$ <u>255,055.92</u>
Total Economic Costs per Client	\$ <u>11,888.13</u>

Ratio of Average Economic Benefits over Average Costs 3.36

Exhibit II

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM*

STRATUM - Private Funds

(6,10,14,16,18)

COST ELEMENTS	N ₇₄ = 22	N ₇₅ = 22	N ₇₆ = 22	N ₇₇ = 22	N ₇₈ = 22	N ₇₉ = 22	N ₈₀ = 21	N ₈₁ = 21	N ₈₂ = 21	N ₈₃ = 20	Sum of the Averages
	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	
1. Community Supportive Services	534.60	609.52	561.12	510.79	472.82	408.38	392.18	363.88	336.16	326.81	4,516.26
A. On-going Service Delivery Costs											
(1) Job Training/Placement Services											
(2) Physical Health Services											
(3) Social/Psych Health Services											
(4) Educational Services											
B. Costs of Service Start-up											
2. Client Maintenance	554.76	853.55	789.95	731.88	677.49	627.72	539.53	497.37	462.45	449.61	6,184.31
3. Service Integration Costs (SID Costs)	395.16	111.59	103.27	95.68	88.12	82.06	77.74	71.93	66.63	61.18	1,153.36
A. Assessment Costs											
B. Cost of Placement Decision											
C. Cost of Filling Prescription											
D. Client Tracking & Monitoring Costs											
4. Deinstitutionalization Costs	34.20										34.20
5. Lost Economic Productivity											
TOTAL COSTS	1,524.72	1,574.66	1,454.34	1,338.35	1,238.43	1,118.16	1,009.45	933.18	865.24	837.60	11,888.13

* All dollars valued at 1974 prices

Exhibit II (2)

AVERAGE ANNUAL COST AND BENEFIT DOLLARS OVER ALL CLIENTS IN STRATUM

STRATUM - Private Funds (6, 10, 14, 16, 18)

N₇₄-22 N₇₅-22 N₇₆- 22 N₇₇-22 N₇₈- 22 N₇₉-22 N₈₀-21 N₈₁- 21 N₈₂- 21 N₈₃ - 20

<u>BENEFIT ELEMENTS</u>	Year 1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	Sum of the Averages
1. Savings of Inst. Costs	4,215.72	5,112.00	4,731.08	4,383.29	4,057.58	3,758.48	3,466.81	3,208.18	2,970.90	2,773.98	38,678.02
2. Inc. Econ. Productivity	147.76	167.61	155.12	143.72	133.03	123.26	119.46	110.55	102.40	99.55	1,302.46
TOTAL BENEFITS	4,363.48	5,279.61	4,886.20	4,527.01	4,190.61	3,881.74	3,586.27	3,318.73	3,073.30	2,873.53	39,980.48

END