SOME BACKGROUND CHARACTERISTICS OF THE STAFF OF THE MASSACHUSETTS DEPARTMENT OF CORRECTION

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February, 1981

Publication #12359 - 42 - 250 - 2/81 - CR Approved by John Manton, State Purchasing Agent

Abstract

A description of all employees of the Massachusetts Department of Correction on September 30, 1980 is given. The modal staff person is a white male working as a correction officer in a major institution with 7 years of state service. Women are concentrated in two job groups: professionals and office/clerical. Their job grades are lower than males and their length of service is shorter.

Minorities are concentrated in two job groups: protective services and professionals. Their length of service to the state is shorter than whites but job grades do not differ on the whole. Department of Correction staff differs from inmates in racial composition;

Department of Correction staff differs from the state's labor force in proportion of females employed.

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Some Background Characteristics of
The Staff of the Massachusetts
Department of Correction

The purpose of this study is to provide a description of some of the background characteristics of the current staff of the Massachusetts Department of Correction (DOC). The description will include a number of background characteristics (sex, race and veteran status) and a number of job characteristics (grade level, location, type of job and length of service).

Several groups within the Department will be looked at separately. These groups are women, minorities and correction officers. Women and minorities are groups of particular interest in affirmative action efforts and equal opportunity programs. Correction officers form a large part of DOC staff and are currently the subject of other studies. This description will serve as background for those studies.

Two other issues will be discussed: institutional staffing patterns and staff/inmate comparisons. Institutional staffing patterns will consider the variations in inmate-to-staff ratios and the distribution of staff types among the major DOC institutions. Comparisons will be made between the characteristics of inmates DOC staff and the Massachusetts labor force.

This report would not have been possible without the efforts of Sandra Tott and John Hurley of the DOC who created, implemented and corrected the personnel data base on which this report was founded.

General Description of Staff

As of September 30, 1980 there were 2,546 active employees in the Department of Correction. An additional 450 positions were vacant. In this section a description of current DOC staff will be given.

The majority of DOC employees are male. Of all employees, 2,082 (82 percent) are males and 464 (18 percent) are females.

There are a large number of veterans among DOC staff. Of all employees, 1,160 (46 percent) are veterans and 1,386 (54 percent) are non-veterans. Veteran status can affect eligibility for civil service positions.

The majority of DOC staff are white. Of all staff, 2,375 (93 percent) are white and 171 (7 percent) are minorities. The specific breakdown by racial/ethnic group is shown in Table 1.

DOC staff can be divided into seven general job categories. official/administrative positions include superintendents, program directors and appointed officials. Professionals include nurses, librarians, counselors, accountants and some middle-management positions. Technical positions include laboratory, transportation and computer specialists. Protective service workers are the security staff including correction officers, as well as their seniors and supervisors. Office/clerical workers include all types of clerks, typists, bookkeepers and secretaries. Skilled crafts positions include power plant engineers, plumbers, carpenters and painters. Finally service/maintenance staff include

janitors, engineers and some agricultural staff.

DOC staff are primarily protective service workers. Of all staff 1474 (58 percent) are in this job category. The second most common job type is professional which accounts for 460 positions (18 percent). Table 1 shows the distribution of DOC staff by job category. Appendix I shows the distribution of specific jobs within the general categories.

Staff of the department have worked for the state up to 46 years. The average length of service to the state is 7.5 years. Half of all DOC employees have worked less than four and one half years. Table 1 shows the distribution of year entered into state service for all current DOC employees.

Length of service is related with job category. On the average technical workers have the longest state service with 18 years and office/clerical workers have the shortest term of state service with 5 years. The differences between job groups are statistically significant (see Table 2).

Grade levels, closely associated with salary, range from 3 to 32 among department employees. The median job grade is a 15.

Table 1 shows the exact distribution of job grades in the department.

Grade levels very among the various occupational groups. The average job grade of official/administrative staff is 22 compared with 7 for office/clerical staff. Table 2 summarizes these differences. Professional, technical and protective service job groups are all similar in their job grade levels and do not differ significantly. Official/administrative job grades are statistically significant from all other job categories as are

office/clerical, skilled crafts and service/maintenance.

Department staff work in a number of locations. Table 1 summarizes the distribution of employees by budgetrary allocation. While this is not exactly the same as real job location it gives a general idea of the geographical distribution of DOC employees. Over half of all DOC staff work at five major institutions: Walpole, Concord, Framingham, Norfolk and Bridgewater.

In summary, the modal DOC staff person is a white male, working in a major institution in a grade 15 protective services position. This person is likely to be a veteran and has been a state employee for 7 years.

Women in the Department of Correction

There are a number of differences in the job and background characteristics of men and women at DOC. Tables 3 and 4 show information contrasting men and women which is discussed in this section. A larger proportion of women than men are minorities. Twelve percent of all women compared to 5 percent of all men are minorities. This difference is statistically significant.

Women are less likely than males to be veterans. Only 5 percent of women are veterans compared with 55 percent of men. This difference is large and statistically significant.

Women have shorter terms of service on the average with the state. Women averaged 5.3 years of service men averaged 8.0 years of service. This difference of almost three years is large and statistically significant (t=7.49, p<.001). After controlling for job category this difference remains in only two categories:

technical and protective services.

The jobs that women hold, the grade level and the location of those jobs differs greatly from the male staff. Women are concentrated in two job groups areas: professional and office/clerical. Men are concentrated in the area of protective services. Women have significantly lower job grades than men. Women have an average job grade of 11.9 while men have an average job grade of 15.5. This difference of over 3 grade levels is statistically significant.

This difference in job grade is maintained even after controlling for job category in 4 of the 7 job categories. In the job areas of official/administrative, professional, technical and protective services women have significantly lower job grades than men. While these differences may not appear large in all cases, they are statistically significant. In office/clerical, skilled crafts and service/maintenance there is no significant difference in job grade level.

Women are likely to be in administrative or service budget allocations rather than institutional. The proportion of women in a particular job location ranges from 68 percent of medical staff to 6 percent of Walpole staff.

In summary women in DOC are concentrated in two job groups: office/clerical and professional. These jobs are traditionally areas in which women work. Women are less likely to be found in the non-traditional areas of security, administration, skilled crafts, technical and maintenance work. The large difference in job grades between men and women can be partially explained by

their concentration in certain job areas, in particular the office/clerical area. Women tend to have fewer years of service and fewer women are veterans. These two factors would also explain some of the variance in job grades. In the job areas of official/administrative and professional these factors do not explain the differences in job grades.

Minorities in the Department of Correction

There are several differences between minority and non-minority staff in terms of background characteristics and job characteristics. Tables 5 and 6 show information of minorities discussed in this section.

As mentioned previously minorities are more likely to be female. Of minority staff 33 percent are female, of white staff 17 percent are female. This difference is statistically significant.

Minorities are less likely than whites to be veterans. While 33 percent of minorities are veterans, 46 percent of non-minorities are veterans. This difference is statistically significant.

After controlling for sex, minorities and whites do not differ significantly on veteran status.

Minorities are more likely to have jobs in the areas of protective services or professionals. Minorities are less likely to have jobs in the areas of official/administrative, office/clerical and service/maintenance. There are presently no minorities with technical or skilled crafts positions.

The distribution of minority staff differs by job location.

Percentage of minority staff ranges from 0 percent for industries

to 51 percent for Boston Pre-Release Center/Lemuel Shattuck.

There is no difference in the grade level of minority and white staff. Minorities have an average job grade of 14.7 while whites have an average job grade of 14.8. This difference is very small and not statistically significant. After controlling for job category, differences appear in official/administrative and protective service categories where minorities have significantly lower job grade levels.

Minority staff have worked for the state a much shorter time than whites. The average tenure of minority staff is 4.0 years the average tenure of non-minority staff is 7.7 years. This difference of over three years is very large and statistically significant (t = 9.1, p <.001). After controlling for job category this difference in length of service remains in 4 of the 5 job areas in which minorities are currently employed: official/administrative, professional, protective services and office/clerical.

Protective Service Workers

Protective Service workers make up the largest part of DOC staff. For that reason and because of the continuing interest of the department in studying this group of workers a careful analysis of them is warranted. Tables 7,8 and 9 show information on protective service staff that is discussed in this section.

The vast majority of protective service workers are male.

Ninety-five percent are male compared with 82 percent of all DOC employees.

The majority of protective service workers are white.

Ninety-three percent are white and 7 percent are minorities.

This is the same composition as the department as a whole.

Over half of the protective service workers are veterans. The percentage of protective service workers who are veterans (53 percent) is larger than that for the department as a whole (46 percent).

Protective service workers have four job grade levels: 15, correction officer, 16, senior correction officer, 17, senior prison camp officer and 18, supervising correction officer. Over three-quarters of all protective service workers are grade 15 correction officers.

Protective service workers have an average of 7.9 years of service with the state. Tenure varies by grade level with senior and supervising correction officers averaging 13.0 and 18.3 years of service respectively.

Women and minorities are concentrated in the lower grades of protective service work. Only 15 percent of females and 11 percent of minorities are in senior or supervisory positions compared with 23 percent of the males and white staff.

Institutional Staffing Patterns

Previously it was shown that there were wide variations in the proportion of women and minorities in the various budgetary categories of the department. In this section other comparisons between institutions and other accounts will be made. Tables 10, 11 and 12 show this information fully.

For the various institutional budget categories a comparison between inmates and staff was made. There is an average of 1.6 inmates per staff and an average of 2.7 inmates per protective service staff in the Department as a whole. For all DOC staff there was a range from 3 inmates per staff for Medfield/Plymouth/Norfolk Pre-Release Center to 0 inmates per staff for Gardner and non-institutional accounts. When considering only protective services staff, the inmate to staff ratio ranges from 8.3 at Shirley/Lancaster to 0 at Gardner.

Job category varies by budgetary allocation as well. Federal grants have the highest proportion of official/administrative positions; SECC has the lowest. Education has the highest proportion of professional staff; Industries has the lowest. Central Administration has the highest proportion of office/clerical and technical staff. SECC and Walpole have the highest proportion of protective service staff. Industries has the highest proportion of skilled crafts staff and Framingham has the largest proportion of service maintenance staff.

Average job grade ranges from 18.0 in Federal Grant to 13.6 at Shirley/Lancaster. Percentage of staff who are veterans ranges from 59 percent at Bridgewater to 0 percent in federal grants. Length of service ranges from 11.1 years at Bridgewater to 2.5 years in education.

Inmate, Staff And Labor Force Comparisons

There are three background variables on which inmates and DOC staff can be compared: sex, race and veteran status. The

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proportion of female staff is greater than the proportion of female inmates. The proportion of female protective service staff is similar to that of inmates. There is a large difference in the racial composition of inmates and staff. While 38 percent of inmates are minorities, only 7 percent of all staff and protective service workers are minorities. A much smaller proportion of inmates than staff are veterans. Table 13 shows these comparisons.

When compared with the labor force in Massachusetts the staff of DOC is very similar in the proportion of minorities employed. Seven percent of DOC staff compared with 6 percent of the Massachusetts labor force are minorities. DOC staff has a smaller proportion of female employees than the labor force. DOC has 18 percent female staff compared with 44 percent of the Massachusetts labor force.

Summary

The Department of Correction has almost 3,000 positions of which 83 percent are currently filled. The modal staff person is a grade 15 correction officer working in a major institution. This individual is likely to be white, male and a veteran with 7 years of state service.

Women in the department fall into two job categories: office/ clerical and professional. They are more likely than their male counterparts to be minorities and less likely to be veterans. Their job grade levels are much lower than males. This is partially caused by their length of service and their job categorizations. Currently there are 171 minority staff members. A large proportion of minorities are female. Minorities are found primarily in protective service and professional job categories. Minorities and whites do not differ in the average grade level of their jobs; their length of service to the state is much shorter than whites.

Protective service workers are primarily male, white and veterans. Over three-quarters are in grade 15 correction officer positions, with an average of 6 years of service. Senior correction officers have 13 years of service, supervising correction officers have 18 years of service on the average. Women and minorities are under-represented in senior and supervisory positions.

The various institutional and other accounts have different staff compositions in terms of background characteristics, job characteristics, length of service and inmate-to-staff ratios.

Inmates and staff are similar in the proportion of males and females. A much larger proportion of inmates are minorities and a smaller proportion of inmates are veterans when compared with all DOC staff and protective service staff. DOC staff is similar to the state labor force as a whole in its racial compositions. DOC staff has proportionately fewer women than the labor force of the state.

Table 1

Frequency Distribution of Job and Background

Characteristics, All DOC Employees

| Background/Job Characteristics | Number | Percent |
|--|---|--|
| Sex with the second of the sec | | |
| Male Female | 2082 464 | (82) (18) |
| Total | 2546 | (100) |
| Veteran Status | | |
| Veteran Non-Veteran | 1160 1386 | (46) (54) |
| Total | 3546 | (100) |
| Racial/Ethnic Group | \$ | |
| White Black Hispanic Asian/Pacific Islander American Indian Cape Verdean | 2375 139 19 4 3 | (93) (6) (1) (0) (0) (0) |
| Total | 2546 | (100) |
| Job Category | | en e |
| Official/Administrative Professional Technical Protective Services Office/Clerical Skilled Crafts Service/Maintenance | 145 460 20 1474 188 126 133 | (6) (18) (1) (58) (7) (5) (5) |
| Total | 2546 | (100) |

Table 1
Frequency Distribution of Job and Background
Characteristics, All DOC Employees

| Background/Job Characteristics | •• | Number | Percent | |
|---|----|--|---|--|
| Year Entered State Service | | | | |
| 1930 - 1939 1940 - 1949 1950 - 1959 1960 - 1969 1970 - 1974 1975 1976 1977 1978 1979 1980 | | 3 39 216 418 509 129 212 241 209 326 244 | (0) (2) (8) (16) (20) (5) (8) (9) (8) (13) (10) | |
| Total | | 2546 | (100) | |
| Job Grade * | | | | |
| 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 | | 28 5 3 61 25 7 75 37 63 26 88 247 1201 286 87 114 36 50 | (1) (0) (0) (2) (1) (0) (3) (1) (2) (1) (4) (10) (47) (11) (3) (4) (1) (2) | |

Table 1
Frequency Distribution of Job and Background
Characteristics, All DOC Employees

| Background/Job Characteristics | | Number | Percent |
|--|---|---------------|---|
| Job Grade * | | | |
| Continued | | | |
| | | | ercka og misel |
| 21 22 | 88 343 | 15 25 | -2521 -(010 1) 1-60 1 -22 21 -(016 1) 1-60 1 |
| 23 | | 25 8 | - 9.501 - (0.131 - 9.501 - (0.031 |
| 24 | eve | 28 | Tree Toris |
| 25 | | 6 | () Ö) . |
| 26 ³) 27 ³) | 2 | 1 | (0) |
| 28 | | 11 | (0) (0) |
| 29 | 深刻 劉 | 1 | Češ |
| 3001 | | 6 | ં ઉંગ્રેં |
| 31 | A A MAN | 1 | (0) |
| 32 020 | # \$ # £ | 3 | (ojenace |
| Total | • | 2545 | (100) |
| | | | |
| * Note: There i | s 1 grade 97 (Com | missioner) no | t included in analyse |
| TUAOTAT | ng job grade leve | 1. | |
| | | | 3 |
| | MAS CONTRACTOR | | $\nabla x = 0$ |
| | | | |
| | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | | |
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| | 1981 | | |
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Table 1
Frequency Distribution of Job and Background
Characteristics, All DOC Employees

| Background/Job Characteristics | Number | Percent |
|-----------------------------------|----------|-------------|
| Budgetary Allocation | | |
| Central Administration | 144 | (6) |
| Community Reintegration | 17 | (1) |
| Medical Services | 116 | (5) |
| Industries | 81 | (3) |
| Education | 21 | (1) |
| Federal Grants | 10 | (0) |
| Bay State Correction Center | 49 | (2) |
| Park Drive Pre-Release Center | 21 | (1) |
| Bridgewater | 495 | (19) |
| Walpole | 3,67 | (14) |
| Concord/NECC | 369 | (14) |
| Framingham | 120 | (5) |
| Norfolk | 324 | (13) |
| S. Middlesex/Warwick | 39 | (2) |
| Reception Diagnostic Center | 34 | (1) |
| Boston Pre-Release Center/ | | |
| Lemuel Shattuck | 57 | (2) |
| Shirley/Lancaster | 77 | (3) |
| SECC | 138 | (5) |
| Medfield/Plymouth/Norfolk | | |
| Pre-Release Center | 37 | (2) |
| North Central Correction Insti | tution30 | (1) |
| Total | 2546 | (100) |

Table 2

Analysis of Variance: Length of Service, Job Grade/by Job Category,
All Department of Correction Employees

| Job Category | Mean | | Standard Deviation | |
|---|---|---|---|---------|
| Length of State Service | - | | | * . |
| Official/Administrative Professional Technical Protective Services Office/Clerical Skilled Crafts Service/Maintenance | 5.3 18.0 7.9 4.7 7.5 | Years Years Years Years Years Years Years | (9.8) (6.3) (13.3) (7.8) (6.3) (8.4) (7.8) | |
| F = 27.3 p <.001 Job Grade | | | | |
| Official/Administrative Professional Technical Protective Services Office/Clerical Skilled Crafts Service/Maintenance | 21.6 15.2 15.4 15.3 7.4 13.8 12.1 | | (3.9) (3.2) (3.6) (0.7) (2.9) (2.4) (3.0) | |

Table 3

Job And Background Characteristics By Sex,
All Department of Correction Employees

| Job Background Characteristics | Males Number | | Fema Number | les Percent | Percent Female |
|---|--|--|----------------------------------|---|--|
| Minority Status | | | | | |
| White Minority | 1968 114 | (95) (5) | 407 57 | (88) (12) | (17) (33) |
| Total | 2082 | (100) | 464 | (100) | (18) |
| Chi-Square = 2 | 7.0 with 1 d | egree of i | reedom, | p <. 001 | |
| Veteran Status | | | | | |
| Veteran Non-Veteran | 1136 946 | (55) (45) | 24 440 | (5) (95) | (2) (32) |
| Total | 2082 | (100) | 464 | (100) | (18) |
| Chi-Square = 3: Job Category | 71.2 with 1 | degree of | freedom, | p <. 001 | |
| Official/Administrative Professional Technical Protective Serv Office/Clerical Skilled Crafts Service/Mainter | 125 284 15 vice 1399 12 120 | (6) (14) (1) (67) (1) (6) (6) | 20 176 5 75 176 6 | (4) (38) (1) (16) (38) (1) (1) | (14) (38) (25) (5) (94) (5) (5) |
| Total | 2082 | (100) | 464 | (100) | (18) |

Chi-Square = 1046.2 with 6 degrees of freedom, p <.0001

Table 3

Job And Background Characteristics By Sex,
All Department of Correction Employees

| Job/Background Characteristics | Ma Number | les Percent | .Fem Number | ales Percent | Percent Female |
|-----------------------------------|--------------|----------------------------|----------------|-----------------|-------------------|
| Budgetary Allocation | - | | | | |
| Central Admini- | e e | | | | |
| stration | 81 | (4) | 63 | (14) | (44) |
| Community Reinte- | - | C -1 | 03 | C ==Z | (44) |
| gration | 10 | (0) | 7 | (2) | (41) |
| Medical Services | 37 | (2) | 79 | (17) | (68) |
| Industries | 59 | (3) | 22 | (5) | (27) |
| Education | 13 | (1) | 8 | (2) | (38) |
| Federal Grants | .5 | (0) | 5 | (1) | (50) |
| Bay State | 42 | (2) | 7 | (2) | (14) |
| Park Drive P.R.C. | 15 | (1) | 6 | (1) | (28) |
| Bridgewater | 453 | (22) | 42 | (9) | (8) |
| Walpole | 344 | (16) | 23 | (5) | (6) |
| Concord | 330 | (16) | 39 | (8) | (10) |
| Framingham | 50 | (2) | 70 | (15) | (58) |
| Norfolk | 292 | (14) | 32 | (7) | (10) |
| S. Middlesex/Warwig | | (_ 1) | 10 | (2) | (26) |
| Reception Diagnos- | | (1) | 10 | (Z) | (20) |
| tic Center | 27 | (_ 1) | 7 | (2) | (20) |
| Boston PRC/Lemuel | | (- - <u>-</u> 1 | • | L 21 | (20) |
| Shattuck | 43 | (2) | 14 | (3) | (24) |
| Shirley/Lancaster | 68 | (3) | 9 | (2) | (12) |
| SECC | 127 | (6) | ıí | (2) | (8) |
| Medfield/Plymouth/ | 31 | (2) | - 6 | (1) | (16) |
| Norfolk PRC | - | \- 2 L | . • | , <u>-</u> , | (10) |
| North Central | | | | | · |
| Correction Inst. | 26 | (1) | 4 | (1) | (13) |
| , our court inst. | 20 | /- 1. / | 7 | r =1 | (13) |
| rotal | 2082 | (100) | 464 | (100) | (18) |

Table 4

Difference of Means Test Results: Length of State Service And
Job Grade By Job Category and Sex, All DOC Employees

| | · | | | |
|-------------------------------|---|--------|-----------|--|
| Job Category | | | Femal | les Standard Deviation |
| Length of State Service | | | - | |
| Official/Administra- tive | 13.0 Yrs. | (9.6) | 8.4 Yrs. | (10.8) |
| Professional | 5.5 Yrs. | (6.3) | 5.1 Yrs. | (6.4) |
| *Technical | 22.3 Yrs. | (12.5) | 5.4 Yrs. | |
| *Protective Service | 8.0 Yrs. | (7.8) | 5.3 Yrs. | |
| Office/Clerical | 3.5 Yrs. | (6.2) | 4.7 Yrs. | (6.3) |
| Skilled Crafts | 7.3 Yrs. | (8.1) | 10.5 Yrs. | (13.9) |
| Service/Maintenance | 7.0 Yrs. | (7.6) | 9.3 Yrs. | (13.3) |
| Job Grade Level | | | | Andrews (1997) Programme Programme |
| *Official/Administra- tive | 22.0 | (3.8) | 19.4 | (4.3) |
| *Professional | 15.8 | (3.1) | 14.1 | (3.2) |
| *Technical | 17.1 | (2.2) | 10.2 | (1.1) |
| *Protective Services | 15.3 | (0.7) | 15.2 | (0.6) |
| Office/Clerical | 7.4 | (4.3) | 7.3 | (2.8) |
| Skilled Crafts | 13.8 | (2.4) | 14.5 | (1.2) |
| Service/Maintenance | 12.1 | (3.1) | 11.7 | (2.5) |
| | . — · · · · · · · · · · · · · · · · · · | | | |

^{*} p <.05

Table 5

Job And Background Characteristics By Minority Status,
All Department of Correction Employees

| Job Background Characteristics | | ites Percent | | ities Percent | Percent Minority |
|-----------------------------------|--------------|-----------------|---------------|------------------|--|
| Sex | | | | | |
| Male Female | 1968 407 | (83) (17) | 114 57 | (67) (33) | (5) (33) |
| Total | 2375 | (100) | 171 | (100) | (7) |
| Chi-Square = 27.0 | with 1 deg | ree of free | edom, p < | .001 | aliterative Marit |
| Veteran Status | | | er Ayrısı ile | | ing with the second of the sec |
| Veteran Non-Veteran | 1104 1271 | (46) (54) | 56 115 | (33) (67) | (5) (8) |
| Total | 2375 | (100) | 171 | (100) | (7) |
| Chi-Square = 11.6 | with 1 deg | ree of free | dom, p | .001 | 2004 2000 |
| Veteran Status Contro | lling For S | Sex_ | | | |
| Males Only | | | | | |
| Veteran Non-Veteran | 1083 885 | (55) (45) | 53 61 | (46) (54) | (5) (6) |
| Total | 1968 | (100) | 114 | (100) | (5) |
| Chi-Square = 2.8 w | ith 1 degre | ee of freed | om, p = . | . 09 | · |
| Females Only | | | | | |
| Veteran Non-Veteran | 21 386 | (5) (95) | 3 54 | (5) (95) | (13) (12) |
| Total | 407 | (100) | 57 | (100) | (12) |
| Chi-Square = 0.0 wi | ith 1 degre | e of freed | om, p = 1 | .0 | |

Table 5

Job And Background Characteristics By Minority Status,
All Department of Correction Employees

| Job Background Characteristics | | tes Percent | Min Number | orities Percent | Percent Minority |
|-----------------------------------|----------|--|---------------|-----------------------|---------------------|
| Job Category | | en de la Maria de la Maria La maria de la | ···· | | |
| JOD Cacegory | | | | | *** |
| Official/Admini- | | | | | |
| strative | 137 | (6) | 8 | (5) | (6) |
| Professional | 422 | (18) | 38 | (22) | (8) |
| Technical | 20 | (1) | 0 | (0) | (0) |
| Protective Servi | | (58) | 109 | (64) | (7) |
| Office/Clerical | 176 | (7) | 12 | (7) | (6) |
| Skilled Crafts | 126 | (5) | 0 | (0) | (0) |
| Service/Maintena | nce 129 | (5) | 4 | (2) | (3) |
| | | | | | |
| Total | 2375 | (100) | 171 | (100) | (7) |
| Chi-Square = 16. | 6 with 6 | degrees of | freedom, | p = .006 | |
| | | | | | |
| Budgetary Allocation | | | | general entreprise | ing f |
| Central Admini- | | | | | |
| stration | 132 | (6) | 12 | (7) | (8) |
| Community Reinte | | (), | | | . (0) |
| gration | 13 | (1) | 4 | (2) | (24) |
| Medical Service | 110 | (5) | 6 | (4) | (5) |
| Industries | 81 | (3) | Ō | (0) | (0) |
| Education . | 20 | (1) | 1 | (1) | (5) |
| Federal Grants | 9 | (0) | 1 3 | (1) | (10) |
| Bay State | 46 | (2) | 3 ' | (2) | (6) |
| Park Drive P.R.C | . 18 | (1) | 3 | (2) | (14) |
| Bridgewater | 474 | (20) | 21 | (12) | (4) |
| Walpole | 339 | (14) | 28 | (16) | (8) |
| Concord | 347 | (13) | 22 | (13) | (6) |
| Framingham | 105 | (4) | 15 | (9) | (12) |
| Norfolk | 315 | (13) | 9 | (5) | (3) |
| S.Middlesex/Warw | | (2) | 2 | (1) | (5) |
| Reception Diagnos | | | | | |
| tic Center | 33 | (1) | 1 | · (. 1 _.) | (3) |
| Boston PRC/Lemue | | | | | |
| Shattuck | 28 | (1) | 29 | (17) | (51) |
| Shirley/Lancaste | | (3) | 6 | (4) | (8) |
| SECC | 132 | (5) | 6 | (4) | (4) |
| Medfield/Plymouth | | / 6\ | • | , ,, | / 21 |
| Norfolk PRC | 36 | (2) | 1 | (1) | (3) |
| North Central | | / 31 | • | / 31 | / 21 |
| Correction Inst | . 29 | (1) | 1 | (1) | (3) |
| POTAL | 2375 | (100) | 171 | (100) | (7) |
| | | | | | |

Table 6

Difference of Means Test Results: Length of State Service And Job Grade by Job Category and Minority Status, All DOC Employees

| Job Catagonia | Whi | Standard | | ities Standard |
|------------------|---|-----------|---------|-------------------|
| Category | Mean | Deviation | Mean | Deviation |
| Length of State | | | | |
| Service | | | | |
| | | | | |
| *Official/ | | | | |
| Administrative | 12.8 Yrs. | (9.9) | 4.2 Vrs | . (3.2) |
| *Professional | 5.6 Yrs. | | * | (4.2) |
| Technical | 18.0 Yrs. | | | |
| *Protective Ser- | | | | |
| vices | 8.2 Yrs. | (7.8) | 4.4 Yrs | . (5.4) |
| *Office/Clerical | 4.8 Yrs. | (6.5) | | . (2.0) |
| Skilled Crafts | ,7.5 Yrs. | (8.4) | | |
| Service/Mainten- | | | | |
| ance | 7.1 Yrs. | (7.9) | 7.0 Yrs | . (2.6) |
| | $\mathcal{L}_{\mathcal{A}} = \{ (x,y) \in \mathcal{A}_{\mathcal{A}} : (x,y) \in \mathcal{A}_{\mathcal{A}} \}$ | 1.0 | | |
| Job Grade Level | • | | | |
| 40001 1-3 1 | | | | |
| *Office/Admin- | 0.7.0 | | | |
| istrative | 21.8 | (3.9) | 19.0 | (4.3) |
| Professional | 15.2 | (3.3) | 14.7 | (2.3) |
| Technical | 15.4 | (3.6) | | |
| *Protective | 3 = 4 | | | |
| Services | 15.4 | (0.8) | 15.1 | (0.4) |
| Office/Clerical | 7.3 | (3.9) | 8.6 | (2.4) |
| Skilled Crafts | 13.8 | (2.4) | | . · |
| Service/Main- | 70 7 | (2 0) | 11.0 | |
| tenance | 12.1 | (3.0) | 11.8 | (3.2) |

^{*} p < .05

Table 7
Frequency Distribution of Job and Background Characteristics,
Protective Service Staff

| Job/Background Characteristics | Number | Percent |
|---|---------------------------------|---|
| Sex | | |
| Male Female | 1399 75 | (95) |
| Total | 1474 | (100) |
| Racial Ethnic Group White Black Hispanic Asian/Pacific Islander American Indian Cape Verdean | 1365 90 10 2 2 2 | (93) (6) (1) (0) (0) (0) |
| Total | 1474 | (100) |
| Veteran Status | | |
| Veteran Non-Veteran | 776 698 | (53) (47) |
| Total | 1474 | (100) |
| Job Grade Level | | |
| 15 16 17 18 | 1130 261 6 76 | (77) (18) (0) (5) |
| Total | 1474 | (100) |

Table 7

Frequency Distribution of Job and Background Characteristics Protective Service Staff

| Job/Background Characteristics | Number | Percent |
|---|--|--|
| Length of State Service | | |
| Less Than 1 Year 1 to 5 Years 6 to 10 Years 11 to 15 Years 16 to 20 Years 21 to 25 Years More Than 25 Years | 187 580 280 146 134 104 43 | (13) (39) (19) (10) (9) (7) |
| Total . | 1474 | (100) |

Table 8

Analysis of Variance: Length of Service to State by Job Grade, Protective Service Staff

| Job Grade Level | Years of S Mean | ervice | Standard Deviation | | |
|----------------------|--------------------|--|--------------------------------------|--|--|
| 15 16 17 18 | 13.0 14.4 | Years Years Years Years | (6.8) (7.3) (6.1) (7.2) | | |
| | | | | | |
| F = 135.9 | p <. 001 | e je sterious se transitioner in de la company de la compa | | | |

Table 9

Job Grade Level By Sex, Minority Status
All Protective Service Workers

| • · · · · · · · · · · · · · · · · · · · | Fifteen | | | Sixteen | | teen | Eighteen | |
|---|------------|---------------|------------|---------------|--------|---------------------------------------|----------|---------------|
| Characteristic | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| <u>Sex</u> | | | | | | · · · · · · · · · · · · · · · · · · · | | |
| Male Female | 1067 64 | (94) (6) | 252 9 | (97) (3) | 6 0 | (100) (0) | 74 2 | (97) (3) |
| Total | 1131 | (100) | 261 | (100) | 6 | (100) | 76 | (100) |
| Chi-Square = Minority Status | 3.5 with 3 | degrees o | of freedom | , p = .32 | | | | |
| White Minority | 1034 97 | (42) (8) | 250 11 | (96) (4) | 6 0 | (100) (0) | 75 1 | (99) (1) |
| Total | 1131 | (100) | 261 | (100) | 6 | (100) | 76 | (100) |

Chi-Square = 10.7 with 3 degrees of freedom, p = .01

-31-

| Institution | 09/30/80 Inmate Population | All DOC Staff | Inmates: Staff | Protective Service Staff | Protective Service Staff: Inmates |
|-------------------------|----------------------------------|---------------------|-------------------|--------------------------------|--|
| W-36i-33 (D) | | | | | |
| Medfield/Plymouth | | | | | 1.15.110.004 |
| Norfolk P.R.C. | 111 | 37 | 3.0 | 16 | 6.9 |
| Norfolk/RDC | 882 | 58 | 2.5 | 251 | 3.5 |
| S. Middlesex/Warwick | 81 | 39 | 2.1 | 21 | 3.8 |
| Park Drive P.R.C. | 37 | 21 | 1.8 | 0 | , |
| Walpole | 663 | 367 | 1.8 | 285 | 2.3 |
| SECC | 241 | 138 | 1.7 | 108 | 2.2 |
| Bridgewater | 837 | 495 | 1.7 | 348 | 2.4 |
| Shirley/Lancaster | 125 | . 77 | 1.6 | 15 | 8.3 |
| Concord/NECC | 578 | 369 | 1.6 | 259 | 2.2 |
| Bay State | 77 | 49 | 1.6 | 31 | 2.5 |
| Boston PRC/Shattuck | 69 | 57 | 1.2 | 42 | 1.6 |
| Framingham | 142 | 120 | $\overline{1.2}$ | 62 | 2.3 |
| NCCI | | 30 | 0.0 | 15 | 0.0 |
| Other (Central Office, | | | | | |
| Community Reintegration | | 821 | 0.0 | 21 | 0.0 |
| Total | 3964 | 2546 | 1.6 | 1474 | 2.7 |

11,135 (

1.09

(1911)

NOTE: Inmate population includes Bridgewater Patients not usually counted in discussions of Department of Correction population.

Table 11

JOB CATEGORY BY BUDGETARY ALLOCATION

| | OFFICIAL ADMINIS- TRATIVE | Profes- Sional | <u>Technical</u> | PROTECTIVE , SERVICES | OFFICE CLERICAL | SKILLED CRAFTS | SERVICE MAINTENANCE | TOTAL |
|-------------------------|---------------------------------|-------------------|------------------|--------------------------|--------------------|-------------------|------------------------|----------------|
| Central Administration | 28 { 19} | 59 (41) | 11 (8) | 14 (10) | 31 (22) | (1) | 0 (0) | 144 (100) |
| Community Reintegration | 5 (29) | 2 (12) | 0 (0) | 7 (41) | 3 (18) | (0) | (0) | 17 (100) |
| Medical Services | 6 (7) | 97 (84) | 3, (2) | (0) | 8 (7) | 0 (0) | (0) | . 116 (100) |
| Industries | 4 (5) | 3 (4) | 3 (4) | 0 (0) | 16 (20) | 46 (57) | 9 (11) | 81 (100) |
| Education | 2 (10) | 18 (86) | 1 (5) | 0 (0) | 0 (0) | 0 0 | 0 (, 0) | 2J (100) |
| Federal Grants | 3 (30) | 6 (60) | 0 (0) | 0 (0) | 1 (10) | (0) | 0 (0) | 10 (100) |
| Bay State | 3 (6) | 9 (18) | 0 (0) | 31 (63) | 2 (4) | (0) | (8) | 49 (100) |
| Park Drive P.R.C. | 4 (19) | 14 (67) | 0 (0) | (o) | 3 (14) | . 0 (0) | 0 (0) | 21 (100) |
| Bridgewater | 12 (2) | 42. (8) | 0 (0) | 34B (70) | 26 (5) | 20 (4) | 47 | 495 (100) |
| Malpole | 15 (4) | 25 (7) | (0) | 265 (78) | 14 (4) | 12 (3) | 16 (4) | 367 (100) |
| Concord | 15 (4) | 44 (12) | 0 (; 0) | 259 (70) | 23 (G) | 10 (5) | 10 ()) | 369 (180) |

Table 11

JOB CATEGORY BY BUDGETARY ALLOCATION
(cont.)

| | OFFICIAL ADMINIS- TRATIVE | PROFES- SIONAL | TECHNICAL | PROTECTIVE SERVICES | OFFICE CLERICAL | SKILLED CRAFTS | SERVICE MAINTENANCE | TOTAL |
|---------------------------|---------------------------------|-------------------|-----------|------------------------|--------------------|-------------------|------------------------|--------------|
| Framingham | 9 (8) | 16 (13) | 1 (1) | 62 (52) | 11 (9) | 5 (a) | 16 (13) | 120 (100) |
| Norfolk | 12 (4) | 34 (10) | (o) | 233 (72) | 17 (5) | 14 (4) | 14 (4) | 324 (100) |
| S.Middlesex/Warwick | 3 (8) | 12 (31) | 0 (0) | 21 (54) | (8) | 0 (0) | 0 0 | 39 (100) |
| R.D.C. | 2 (6) | 9 (26) | 0 (0) | 18 (53) | 5 (15) | ó (0) | 0 (0) | 34 (100) |
| Boston P.R.C./Shattuck | 4 (7) | 6 [10) | 0 (0) | 42 (74) | 5 (9) | (0) | 0 (0) | 57 (100) |
| Shirley/Lancaster | 4 (5) | 36 (47) | 0 (0) | 15 (19) | 6 (B) | 9 (12) | 7 (9) | 77 (100) |
| SECC | 4 (3) | 12 (9) | 0 (0) | 108 (78) | 7 (5) | 0 (0) | 7 (5) | 138 |
| Medfield/Plymouth/Norfolk | 5 (14) | 13 (35) | 0 (0) | 16 (43) | 3 (8) | 0 (0) | 0 (0) | 37 (100) |
| Gardner | 3 (10) | 3 (101 | 1 (3) | 15 (50) | 4 (13) | 1 (3) | 3 (10) | 30 (100) |

Table 12

Institutional Staffing Patterns: Job Grades,
Length of Service And Veteran Status

| | lverage Job Grade | | Average Length of Service | Percenta of Staff Are Vete | f Who |
|-------------------|----------------------|------------------|---------------------------------|--|-------|
| Central Admini- | | | | | |
| stration | 16.5 | | 5.9 | 30 | |
| Community Reinte- | | **** | | e de la companya de l | • |
| gration | 16.2 | | 5.2 | 12 | |
| Medical Services | 14.6 | | 5.4 | 26 | |
| Industries | 14.3 | | 10.0 | 58 | |
| Education | 15.6 | | 2.5 | 33 | |
| Federal Grants | 18.0 | | 2.3 | 0 | |
| Bay State | 15.5 | · · | 8.0 | 53 | 8 |
| Park Drive PRC | 15.1 | | 2.6 | 14 | • |
| Bridgewater | 14.4 | | 11.1 | 59 | |
| Walpole | 15.0 | | 6.3 | 50 | |
| Concord | 14.7 | | 6.8 | 45 | |
| Framingham | 14.5 | 11 (1) | 7.5 | 26 | |
| Norfolk | 14.8 | | 6.3 | 44 | V |
| S.Middlesex/ | | | | . • | |
| Warwick | 15.3 | | 9.0 | 44 | |
| R.D.C. | 14.6 | | 5.6 | 35 | |
| Boston PRC/ | | | | | |
| Shattuck | 15.0 | | 5.1 | 35 | |
| Shirley/Lancas- | | • | | | |
| ter | 13.6 | | 3.7 | 44 | |
| SECC | 14.8 | | 8.7 | 56 | ٠. |
| Medfield/Plymouth | 15.6 | | 10.3 | 49 | - |
| Norfolk | | 1.00 Ch. 1.00 | | | |
| Gardner | 15.1 | 5.00 | 4.6 | 30 | |

Table 13

Selected Background Characteristics of DOC Staff,
Inmates and Massachusetts Labor Force*

| | | | | | | | · · · · · · · · · · · · · · · · · · · | |
|-------------------------------|-------------------|------------------|-------------------------------|----------------|--------------|----------------|---------------------------------------|---------------------------|
| Background Characteristics | All DOC Number | Staff Percent | Protect: Service Number | | Inmates* | | Massachi Labor Fo | orce |
| | | T GT CGUC | Tedmon | Percent | Number | Percent | Number | Percent |
| Sex | | | | | | | | |
| Male Female | 2082 464 | (82) (18) | 1399 75 | (95) (5) | 2654 100 | (96) (4) | 1632000 1259000 | (56) (44) |
| Total | 2546 | (100) | 1474 | (100) | 2754 | (100) | 2891000 | (100) |
| Minority Status | | | | | | | | ÷ |
| White Minority | 2375 171 | (93) (7) | 109 1365 | (7) (93) | 1695 1059 | (62) (38) | 2709900 181100 | (94) (6) |
| Total | 2546 | (100) | 1474 | (100) | 2754 | (100) | 2891000 | (100) |
| Veteran Status | | | | | | | | |
| Veteran Non-Veteran | 1160 1386 | (45) (55) | 776 698 | (53) (47) | 573 2181 | (11) (79) | | |
| Total | 2546 | (100) | 1474 | (100) | 2754 | (100) | | e Ville South Books |

^{*} Source: Labor Market Information for Affirmative Action Programs 1980 Massachusetts, Massachusetts Division of Employment Security, Boston, 1980

^{**} Inmate Information is as of January 1, 1980.

| Davinos | | |
|----------------|---|--|
| PAYROLL | | |
| TITLE CODE | TOD WITHIN | NUMBER |
| | JOB TITLE | OF STA |
| Official/ | | * |
| Administrative | | |
| | | |
| 14501 | | |
| 14503 | Administrative Assistant | _ |
| | Administrative Secretary | 1 : |
| 15916 | Administrative Assistant | 1 |
| 15932 | Contract Compliance Officer | 12 |
| 18812 | Institution Chief Power Plant Engineer | 2 |
| 18915 | Management Analyst | 2 |
| 18924 | Head Administration | 3 |
| 18951 | Head Administrative Assistant | 2 |
| 18979 | Senior Hospital Administrative Assistant | ĩ |
| 19052 | | |
| 19908 | Assistant to Commissioner-Classification | 1 |
| 19911 | COCIUIIALOI DI VOIINTAAN CANTI CO- | 1 |
| V 42 | Administrative Assistant-State Ugo Tarani | 1 |
| 20012 | | 94 L 1 |
| 20756 | Institution Chief Power Plant Francisco | 3 |
| 20813 | Director of Institutional Classification | 3 |
| 21730 | Director of Nurses | 4 |
| 21773 | Deputy Superintendent n | 1 |
| 21807 | Deputy Superintendent Pre-Release | 9 |
| 22622 | Deputy Superintendent RDC | 1 |
| 22639 | State Hospital Steward | 1 |
| 22706 | Jail Assistant Coordinator | i |
| 22723 | County Liaison Officer | |
| 22724 | Director of Program Development | 1 |
| | Director or Security Services | 1 |
| 22725 | Executive Assistant to the Commission | 1 |
| 22726 | rroject birector | 1 |
| 22727 | Associate Deputy Superintendent-Walpole | 2 |
| 22770 | Area Director of Administration | 2 |
| 22771 | Area Director of Classification | 2 |
| 22772 | Area Director of Programs | 2 |
| 22775 | Administrator of G | 1 |
| 22809 | Administrator of Correction Industries | ī |
| 22816 | Contract Compliance Manager | ī |
| 24611 | Manager of Data Processing Services | . 7 |
| 24710 | Director or Employee Relations | |
| 24711 | Deputy Superintendent for Administration | 1 |
| | | 6 |
| 24729 | Director or Planning and Doconnah | 4 |
| 24735 | puper tillendent of pre-peloses | 1 |
| 24769 | Area Director of Operations | 12 |
| 24770 | Assistant Director of Industries | 1 |
| 24780 | Superintendent RDC | 1 |
| 25648 | Deputy Superintendent | 1 |
| 26581 | Director of Dudant | 5 |
| 27401 | Director of Budget & Facilities Planning | ĭ |
| 27550 | | 4 |
| 28610 | Counsel IV | the state of the s |
| 29574 | Director of Inmate Training & Education | 2 |
| | TELECTION OF REALTH SERVICES Administration | Ţ |
| 30559 | r | 1 |
| 30571 | Director of Finance | 1 |
| 30573 | Superintendent of Norfolk | 1 |
| 30575 | Superintendent of Bridgewater | 1 |
| 30598 | Assistant to the Commissioner, Executive | 1 |
| | commissioner, Executive | 2 |

| PAYROLL TITLE CODE | JOB TITLE | 4.0 | MBER STAF |
|-----------------------------|---|--------------|---------------|
| Official/ Administrative | | | |
| 32542 - 97061 | Associate Commissioner Commissioner | | 3 |
| Professional | 하는 보고 있는 이 전환 시간을 하는 것이다. 한 사회 등 제상을 해 하는 물일을 받는다. 이 전 시간 이 그들은 사람들은 사람들은 사람들이 하는 것을 살았다. 이 사람들은 | | |
| 9625 | Licensed Practical Nurse | | |
| 9683 | Juvenile Supervisor | | 18 |
| 10758 | Licensed Practical Nurse | | 2 |
| 11817 | Senior Licensed Practical Nurse | 1. 1. | 8 |
| 11821 | Senior Juvenile Supervisor | , | 3 |
| 12787 | Medical Records Librarian | 1 14 L | 1 2 |
| 12823 | Assistant Institution Treasurer | | <i>2</i> 5 |
| 12868 | Supervisor of Volunteer Services | | . . |
| 12915 | Industrial School Instructor | | 2 |
| 12945 | Assistant Dietitian | | 2 |
| 12946 | X-Ray Technician | | î |
| 13802 | Counselor, DOC | | i |
| 13817 | Occupational Therapist | | ាំ |
| 13890 | Junior Accountant | | 2 |
| 13895 | Criminal Justice Planning Assistant | | 3 |
| 13961 | Correction Medical Assistant | | 13 |
| 13962 | Correction Social Worker | | 53 |
| 14014 | Chief Hospital Supervisor Attendant | 2000 B | 1 |
| 14960 | School Resident Nurse | | 1 |
| 14961 | Staff Nurse | | 5 |
| 14975 14981 | Rehabilitation Counselor | | 1 |
| 14985 | Psychiatric Social Worker | | 15 |
| 14983 | Counselor, DOC | | 83 |
| 14995 | Librarian | | 5 |
| 14998 | Institution School Teacher | | 29 |
| 15940 | Recreation Officer, Correction Institution Assistant Staff Psychologist | | 11 |
| 15849 | Assistant Institution Steward | | 2 |
| 15880 | Senior Counselor | | 5 |
| 15890 | Dietician | ing day into | 2 |
| 15983 | Instructional Media Specialist | | 2 |
| 15891 | Head Nurse | | 20 |
| 15918 | Research Assistant | | 20 1 |
| 15923 | Semi-Senior Accountant | | 1 |
| 15994 | Head Correction Social Worker | | 9 |
| 16941 | Institution Treasurer | 3. | 2 |
| 16970 | Head Psychiatric Social Worker | • | 4 |
| 16976 | Senior Counselor, DOC | | 7 |
| 17007 | Director of Classification | | 1 |
| 17028 | Supervisor of Social Service | 1 4 | ī |
| 17031 | Staff Clinical Social Worker | | 1 |
| 17033 | Employment Services Coordinator | | 7 |
| 17034 | Procedures Analyst | | 9 |
| 17044 17046 | Assistant Coordinator of Daycare | | 4 |
| T1040 | Research Specialist | | 3 |

| PAYROLL | | NUMBER |
|--------------|--|--|
| TITLE CODE | JOB TITLE | OF STAFF |
| | | A second second |
| Professional | | |
| | | |
| 17922 | Hospital Supervisor, Graduate Nurse | 7 |
| 17947 | Research Analyst | i |
| 17986 | Assistant Criminal Justice Planner | <u> </u> |
| 18004 | Supervisor of Recreation, DOC | \mathbf{i} |
| 18011 | Head Social Work Supervisor | 11 |
| 18033 | Training Instructor, DOC | - - |
| 18867 | Senior Criminal Justice Planner | i |
| 18893 | | 6 |
| 18894 | Staff Psychologist Pharmacist | 3 |
| | | 1 |
| 18938 | Program Analyst | 2 |
| 18939 | Project Coordinator | |
| 19665 | Program Development Specialist | 12 |
| 19721 | Institution Steward | 7 |
| 19782 | Supervisor of Industries | 3 |
| 19864 | Supervising Accountant | 1 |
| 19876 | Personnel Analyst | 1 |
| 19877 | Personnel Training Technician | 2 |
| 19966 | Chief Hospital Supervisor, Graduate Nurse | 1 |
| 19975 | Physician Assistant | 3 |
| 20402 | Assistant Deputy Superintendent SECC | 1 |
| 20642 | Labor Management Relations Advisor | 1 |
| 20831 | Principal Criminal Justice Planner | 1 |
| 20838 | Director of Engineering Services | 1 |
| 20847 | Principal Psychologist | 2 |
| 20873 | Senior Methods and Systems Analyst | 1 |
| 20878 | Federal Accounts Analyst | 1 |
| 20920 | Supervisor of Research DOC | 2 |
| 20922 | Public Information Officer | 1 |
| 20940 | Supervisor of Education, DOC | 2 |
| 21816 | Assistant Director of Nurses | 2 |
| 21848 | Senior Program Analyst | $ar{f 1}$ |
| 22750 | Social Science Research Specialist | |
| 22756 | Associate Criminal Justice Planner | 3 |
| 22757 | Public Relations Representative | Ĭ |
| 22774 | Fire Protection and Energy Conservation | 1 |
| 23620 | Supervising Program Analyst | Ž |
| 23689 | Administrative Assistant | 3 |
| 23869 | Counsel, II | ์ โ |
| 24680 | Counsel, III | $\dot{f i}$ |
| 25657 | Associate Structural Engineer | 7 |
| | | <u></u> |
| 27580 | Dentist | 3 |
| 31534 | Physician II with the first the second of th | <u>.</u> |

| PAYROLL TITLE CODE | JOB TITLE | NUMBER |
|---|--|---|
| - 1 · · · · | <u> </u> | OF STAFF |
| Technical | | |
| 9665 10735 10744 11824 12881 15988 16960 17036 17043 19910 19912 21800 | EDP Control Clerk II EDP Entry Operator III Laboratory Technician Hospital Technician EDP Entry Operator IV State Use Industries Agent EDP Programmer II Senior Transportation Officer Assistant Supervisor of Education Supervising Transportation Officer Senior State Use Industries Agent | 1 2 1 1 1 1 7 1 2 1 |
| 21000 | Market Analyst | Ī |
| Protective Service | es | |
| | | and the second second |
| 15986 15987 16986 16987 16988 | Correction Officer Female Correction Officer Senior Correction Officer Female Senior Correction Officer Prison Camp Officer | 1091 40 227 5 26 |
| 16989 17035 18002 | Correction Officer-Head Farmer Senior Prison Camp Officer Supervising Correction Officer | 3 6 76 |
| Office/Clerical | | |
| 3519 3520 4537 6529 6530 6580 7553 7555 9557 10557 10576 11543 13541 14810 | Junior Clerk Junior Clerk and Typist Junior Clerk and Stenographer Senior Clerk Senior Clerk and Typist Telephone Operator Senior Bookkeeper Senior Clerk and Stenographer Principal Clerk Principal Clerk Principal Clerk and Secretary to Dept. Head Principal Bookkeeper Head Clerk Head Administrative Clerk Confidential Secretary Chief Administrative Clerk | 2 26 5 13 41 5 5 16 39 1 3 20 7 |

| PAYROLL TITLE CODE | JOB TITLE | NUMBER OF STAFF |
|-----------------------|--|----------------------|
| Skilled Crafts | | |
| C = 30 | | |
| 6570 | Power Plant Helper | 1 |
| 11753 | Steam Fireman | 28 |
| 11766 | Carpenter | ī |
| 11778 | Painter | \bar{i} |
| 12801 | Assistant Sewage Treatment Plant Operator | $\overline{\hat{2}}$ |
| 12830 | Plumber and Steamfitter | ī |
| 12833 | Third Class Power Plant Engineer | 8 |
| 12856 | Maintenance Foreman | ĺ |
| 14821 | Sewage Treatment Plant Operator | i |
| 14871 | Second Class Power Plant Engineer | 14 |
| 14997 | Industrial Instructor | 35 |
| 16718 | Senior Sewage Treatment Plant Operator | 1 |
| 16990 | Assistant Industrial Shop Manager | · — |
| 17038 | Assistant to the Supervisor of Industries | 8 |
| 17039 | Industrial Shop Manager | |
| 17807 | Assistant Institution Chief Power Plant Engineer | 18 |
| 22796 | Principal Structural Engineer | 3 |
| | - ramorbar peracentar midineer | |
| Service Maintenar | | |
| | | |
| 5511 | Head Dining Room Attendant | 1 |
| 5550 | Institution Domestic Worker | 2 |
| 6567 | Assistant Baker | í |
| 7637 | Storeroom Helper | |
| 8654 | Chauffeur | 7 |
| 9661 | Correction Maintenance Worker I | 2 |
| 9713 | Cook | 13 |
| 10782 | Correction Maintenance Worker I | 22 |
| 11815 | Storekeeper | 9 |
| 11841 | Head Cook | 7 |
| 13544 | Head Farmer | <u></u> |
| 13917 | Principal Storekeeper | <u></u> |
| 13954 | Chef | 4 |
| 14001 | Correction Maintenance Specialist | 3 |
| 14011 | Head Storekeeper | 6 |
| 14999 | Correction Maintenance Worker II | 1 |
| 15989 | Correction Maintenance Worker II | 35 |
| 16991 | Senior Correction Maintenance worker III | 9 |
| 17037 | Senior Correction Maintenance Specialist | 2 |
| 17040 | Senior Construction Engineer | 6 |
| T1040 | Correction Maintenance Worker IV | 6 |

Appendix II

Methodological Notes

The Sample

This study is based on data representing all positions within the Department of Correction. All analyses were done only on those positions filled as of September 30, 1980.

Analytic Methods

Frequency distributions are used for most descriptions and includes number of cases and percentages. In any case where 0 percent is indicated this means less than 1 percent. When doing comparisons between groups within the sample one of three basic tests were performed:

- 1. Contingency table analysis was used when the independent variable was nominal in its level of measurement. Chisquare was used as a measure of independence between the two variables. The .05 level of significance was used as it was in all tests.
- Difference of means test was used when the independent variable was continuous and the dependent variable was dichotomous. The t statistic was used as a measure of significant difference. In all cases two-tailed tests were performed.
- 3. Analysis of variance was used when the independent variable was continuous and the dependent variable had three or more groups. The F statistic is reported as a

measure of difference between groups. In some cases the least significant difference procedure was used to locate which groups differed from each other.

In the narrative an attempt was made to point out both statistical significance and size of relationships. In many cases results proved to be statistically significant even though differences in means or percentages are not large. It is left to the reader to attach importance to the results of these tests based on both of these factors, statistical significance and size of difference.