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### ABSTRACT

The results of a Manpower Needs Survey Conducted to discover the job opportunities available in two Maryland counties for the trainee or graduate of a community college is presented. The information presented was obtained from employers in Montgomery and Prince Georges Counties who were muiled questionmaires in February 1971. The sample of firms selected to receive a questionnaire was chosen from a universe consisting of: (1) all establishments covered by the Maryland Unemployment Insurance Law, and (2) Nonagricultural firms in noncovered industries. The questionnaire listed 90 occupations in such broad occupational areas as business, data processing, health, service, technical, trades and industrial. For each occupation the following information was requested: (1) number of workers currently employed as of the pay period including February 12, 1971, and (2) expected future employment in the occupation in February 1973 and February 1976. The information concerning occupational needs provided by the reporting employers was tabulated by major industrial categories and by size class within these categories. (Author/CK)

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### OCCUPATIONAL OUTLOOK

### MONTGOMERY AND PRINCE GEORGES COUNTIES

A forecast of training requirements for occupations which will hold promise in the next five years.

### Prepared by:

Department of Employment and Social Services
Employment Security Administration
Research and Analysis Office

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STATE OF MARYLAND



DEPARTMENT OF EMPLOYMENT AND SOCIAL SERVICES NIVERSITY OF CALIF.

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LOS ANGELES

**EMPLOYMENT SECURITY ADMINISTRATION** 

CHRISTIAN H. KAHL, EXECUTIVE DIRECTOR

DEC 27 1972

CLEARINGHOUSE FOR JUNIOR COLLEGE INFORMATION



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### **FOREWORD**

This report presents the results of a Manpower Needs Survey conducted by the Department of Employment and Social Services at the request of community college educational authorities in Montgomery and Prince Georges Counties. The survey sought to discover the job opportunities available in these counties for the trainee or graduate of a community college offering a two-year curriculum comparable to, but broader in scope than, that offered by the average junior college. It also sought to learn the attitude of employers towards participating in educational assistance to employees attending these community colleges. Additionally, for those establishments using computers it requested the make. model number, orientation (card, disk, tape), program language employed, and whether computer time-sharing services were used.

The survey questionnaire listed some ninety occupations, of which more than two-thirds would be appropriate for a trainee or a graduate of a community college. Other classifications which would absorb the high school graduate were included in the questionnaire as were a number of job clauses pertinent to the general economy of these two counties but which permit a lower level of education.

The statistical data and narrative presentation in this report were prepared by staff members of the Research and Analysis Office, Employment Security Administration of the Department of Employment and Social Services. A portion of the basic background material was developed from the U.S. Census of Population data and information furnished by the Maryland Departments of State Planning, Health and Mental Hygiene, and Economic and Community Development.

Without the cooperation of industry, which supplied the initial establishment information, this survey would not have been successful. Acknowledgement is made to all who cooperated in this survey.



### **METHODOLOGY**

The information presented in this report was obtained from employers in Montgomery and Prince Georges Counties who were mailed questionnaires in February 1971. The sample of firms selected to receive a questionnaire was chosen from a universe consisting of:

- a. All establishments covered by the Maryland Unemployment Insurance Law. and
- b. Nonagricultural firms in noncovered industries (hospitals, educational institutions, Federal, State and Local government agencies). Self-employed workers, domestics, and agricultural workers were not included in the survey.

Firms in the universe listing were stratified by size class as follows:

Size Class I - All firms employing 38 or more employees
Size Class II - All firms employing 12 to 37 employees
Size Class III - All firms employing 4 to 1. employees

All firms in Size Class I received the questionnaire. This procedure insured that all firms representing the highest 50% of employment were canvassed. In general, the questionnaire was sent to every 5th firm in Size Class II and to every 20th firm in Size Class III. However, where appropriate in selecting firms in these latter size classes (overcoming under-representation either by industry or employment), the frequency of selection was increased. This system of selection yielded a total of 982 establishments in the sample in Montgomery County and 908 in Prince Georges County.

The questionnaire listed 90 occupations in such broad occupational areas as business, data processing, health, service, technical, trades, and industrial. For each occupation the following information was requested:

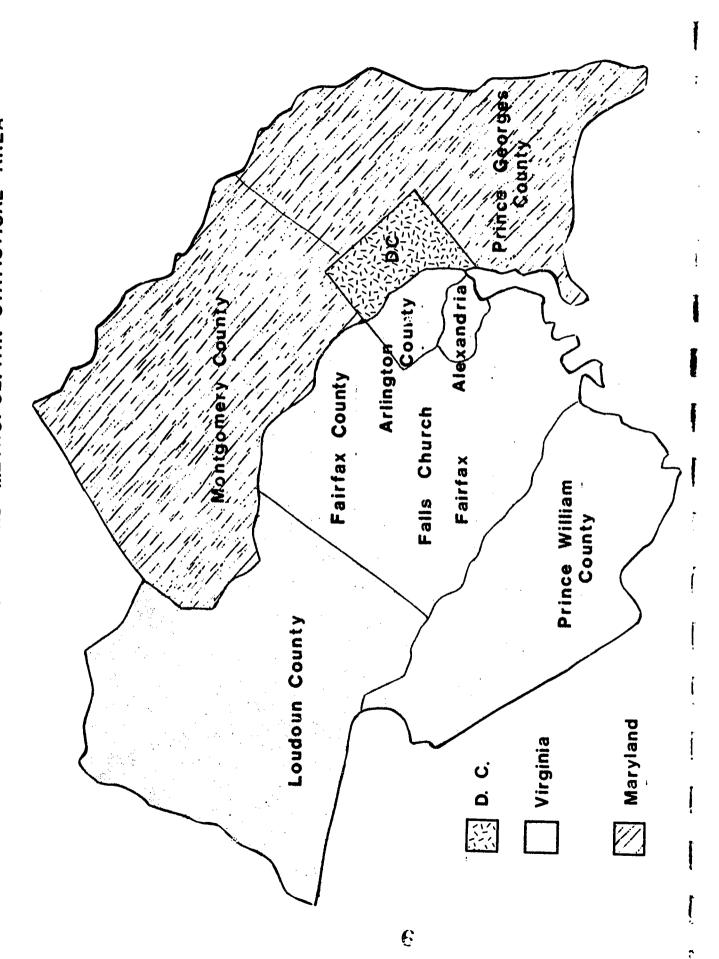
- a. Number of workers currently employed as of the pay period including February 12, 1971, and
- Expected future employment in the occupation in February 1973 and February 1976.

Completed questionnaires with usable data were received from 675 firms in Montgomery County and 570 firms in Prince Georges County, representing a response rate of 68.7 percent and 62.8 percent respectively in these counties. Base employment in the firms returning usable questionnaires totaled 76,838 for Montgomery County for March 1970 and 71,679 for Prince Georges County for the same period. Since sample base employment of nonagricultural wage and salary workers was 119,913 workers in Montgomery County and 101,982 workers in Prince Georges County, the response rate in terms of persons employed was 64.1 percent and 70.3 percent in the respective counties.

The information concerning occupational needs provided by the reporting employers was tabulated by major industrial categories and by size class within these categories. To allow for employment in firms not surveyed and firms either not returning the questionnaires or returning nonusable ones, total employment by major industrial category and size class in the sample was compared with total employment by major industrial category and size class within the respective counties. This comparison provided inflation factors (one for each size class within the major industrial category) by which the data in each sampling cell could be raised to the level of the universe for each county. These inflation factors were then applied to all occupational data reported by firms in that particular industry group and size class. These inflated occupational data were then tabulated by occupation to provide information concerning employment needs in Montgomery and Prince Georges Counties for each surveyed occupation.



# AREA WASHINGTON STANDARD METROPOLITAN STATISTICAL



### SURVEY AREA

The two counties which constituted the survey area make up the northern segment of the Washington Metropolitan Area. Besides Montgomery and Prince Georges Counties in Maryland, this metropolitan area includes four counties and three independent cities in Virginia, and the District of Columbia itself. Those sections of the two Maryland counties which are contiguous to the District are densely populated, typical of most counties that border on large central cities. Further away, both counties take on a more rural aspect.

The average education in both counties is high and a substantial percentage of the people are professionals. Many have come to Maryland to take advantage of job opportunities in the Federal government.

Montgomery County lies in the Fiedmont Plateau and its agriculture has, for many years, been quite different from that of Prince Georges which lies in the Coastal Plain. The accent is on dairy products in the former, while field crops, especially tobacco, are most important in the latter. On average, the value of homes is higher in Montgomery County than in Prince Georges, The residential area includes a number of attractive country clubs. Montgomery County has the highest median family income and greatest per household buying income in the State. Prince Georges County is also very high in these regards by both State and national standards.

Prince Georges has more manufacturing and industrial employment, whereas. Montgomery has developed, primarily, light industry, particularly scientific instrument manufacturing. Prince Georges leads the counties of the State in the production of sand and gravel. The construction industry has boomed for years in both counties.

### POPULATION TRENDS

To grasp the explose e population growth experienced in these two counties, and its impact on population density, consider Table A below:

Table A

•	Land Area	Popul	ation-1960	Popula	tion-1970
County	Square Miles	Number	per Square Mile	Number	per Square Mile
Montgomery	493	340, 928	691.5	522.809	1060.0
Prince Georges	485	357, 395	736.9	660,567	1362.0
Total	978	698, 323	714.0	1, 183, 376	1210.0

Population source: U. S. Census of Population 1960, 1970.

The population has risen by 53.3% in Montgomery County and by 84.8% in Prince Georges County as have the respective population densities. Such increases imply substantial increases in all major industrial categories in both counties. The growth of these latter in the short space of a decade is reflected in Tables B and C. It is anticipated that the population will rise to 588,000 in Montgomery County and to 817,000 in Prince Georges County by 1975.

### LABOR FORCE TRENDS

Over the past ten years, both of these counties have continued to experience the phenomenal growth in employment which started during the World War II period, Total nonagricultural employment more than doubled in both counties between 1960 & 1970 (see Tables B and C). The nonmanufacturing segment of industry predominates in both counties, accounting for an estimated 96 percent of total nonagricultural employment in Montgomery County and an estimated 95. 3 percent of total nonagricultural employment in Prince Georges County In both counties, the bulk of employment lies in government, services, and wholesale and retail trade. The robust growths of the construction, transportation-utilities, and financial industrial categories furnish a strong indication of the tremendous economic expansion which both counties have experienced over the decade—an expansion which is continuing.

To supplement the summarizing comments pertaining to labor force trends, Table D, which shows year-end annual averages during the period 1965-1970 for employment covered by the Maryland Unemployment Insurance Law and Federal government employment by major industrial categories, has been included.

As of this report, data are not available to permit meaningful comparisons of changes in major occupational groups over the decade. However, those occupations which, on the basis of information obtained in this study, reflect the greatest growth and replacement potentials in the next 5 years, are tabulated and discussed in the succeeding section, Future Manpower Needs.

### **FUTURE MANPOWER NEEDS**

In those occupations surveyed, growth vacancies for both counties will total nearly 43,000 and replacement vacancies approximately 97,000 (see Table E). Nearly 45% of the growth will occur in business occupations, followed by approximately 30% in trades and industrial occupations with the remaining percentages of growth distributed (approximately) 8% to Data Processing, 8% to Service, 5% to Technical Occupations, and 3% to Health Occupations. Replacement needs in the various major categories of occupations follow the same pattern as growth opportunities with the highest percentage of replacement needs attributable to business occupations, the next highest to trade and industrial occupations and so on through the categories.

Tables E, F, and G have been included to provide a guide for planners in evaluating the growth and replacement needs of all surveyed occupations on a bi-county and individual county basis. Further, Tables H, I, and J abstract the 15 occupations reflecting the greatest growth potential (16 occupations in the case of Prince Georges County) over the next five years. The priority of these occupations in terms of the total number of additional requirements (priority assigned according to the number of additional requirements and indicated by the number which follows) correlates very closely with their order of growth potential.



### EDUCATIONAL REQUIREMENTS

Of the total of 80,311 jobs surveyed in Montgomery County and of 80,974 jobs surveyed in Prince Georges County, more than 60% were designated by employers as jobs requiring at least a high school education (see Tables K and L).

In both counties, an analysis of these tables shows that employers listed positions requiring two or more years of college in significant numbers (100 or more) for:

Accountant
Commercial Artist
Bookkeeper, Clerical
Buyer or Purchasing Agent
Personnel Worker
Secretary (specialized)
Outside Salesman
Inside Salesperson
Management Trainee
Computer Programmer
Systems Analyst
Medical Laboratory Technician

Licensed Practical Nurse
Registered Nurse
Library Assistant
Teacher
Social Welfare Assistant
Technician:
 Architectural
 Civil Engineering
 Electronic
 General Engineering
Mechanical Engineering

Of special note is an indicated 2 year college requirement for 1,058 draftsman in Montgomery County, a reflection of the need of a highly specialized federal government agency located in the county. For additional information concerning educational qualifications for selective occupations, refer to the section entitled "Occupational Information".

### FINANCIAL AID

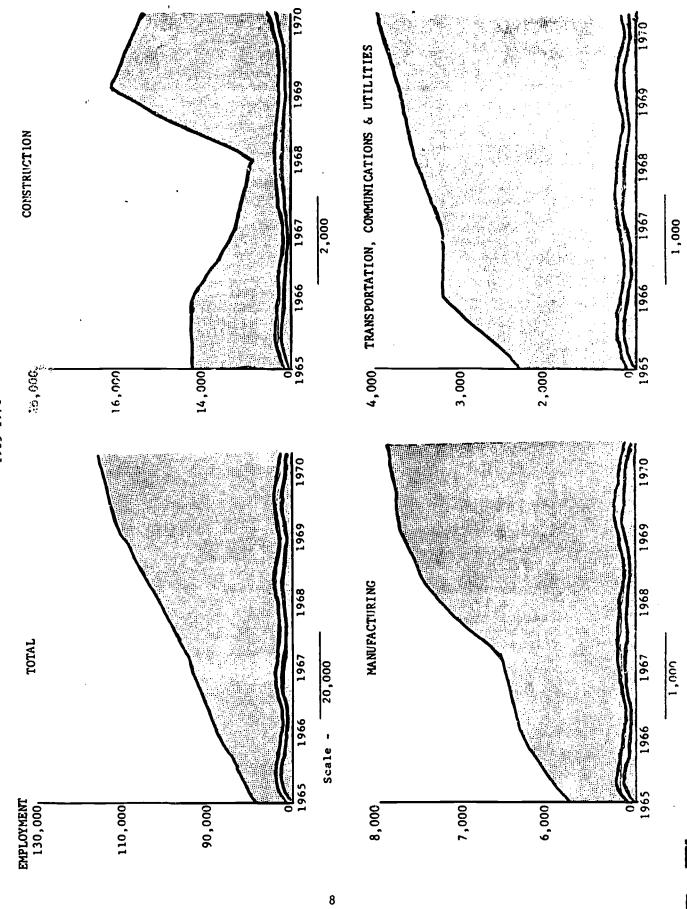
Each surveyed firm was asked if it would be willing to pay part or full time tuition for employees attending a community college during evening hours or other off-duty time, or on a cooperative plan. Firms in Montgomery County representing 36,075 employees out of a total 80,311 and firms in Prince Georges County representing 29,702 employees out of a total of 80,974 responded "YES" to the question, On an employment basis then, approximately 45% of the firms in Montgomery County and 37% of the firms in Prince Georges County indicated a positive attitude toward support of their employees in continuing their education while in the firm's employment.

### **COMPUTER INFORMATION**

One hundred, thirty-nine employers out of a total of 982 sampled in Montgomery County and 91 out of 908 sampled in Prince Georges County reported that they were using one or more computers. Details of the distribution of these computers by major industrial category, computer related occupations, computer orientation (disc, card, or tape), and the number of employers using time-sharing as well as model number and program language for the various computers will be found in Tables M and N for Montgomery County and Tables O and P for Prince Georges County.



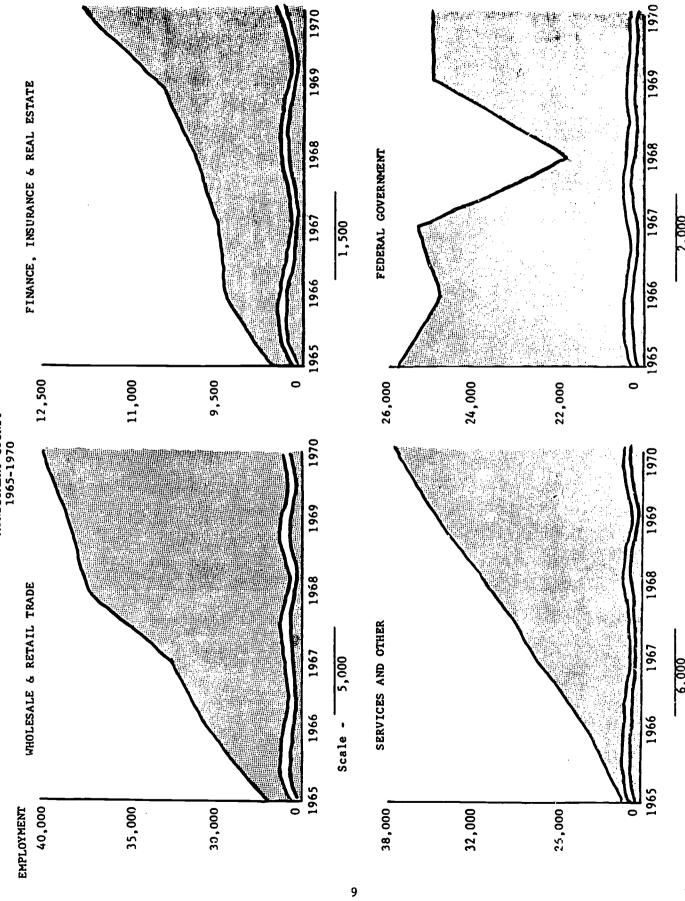
INSURED AND FEDERAL GOVERNMENT EMPLOYMENT MONTGOMERY COUNTY 1965-1970



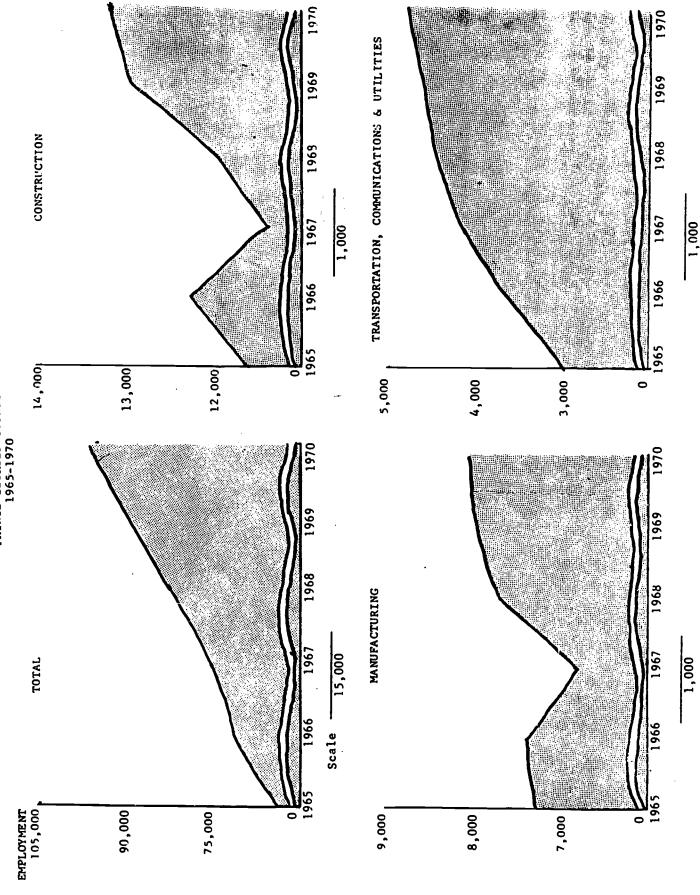
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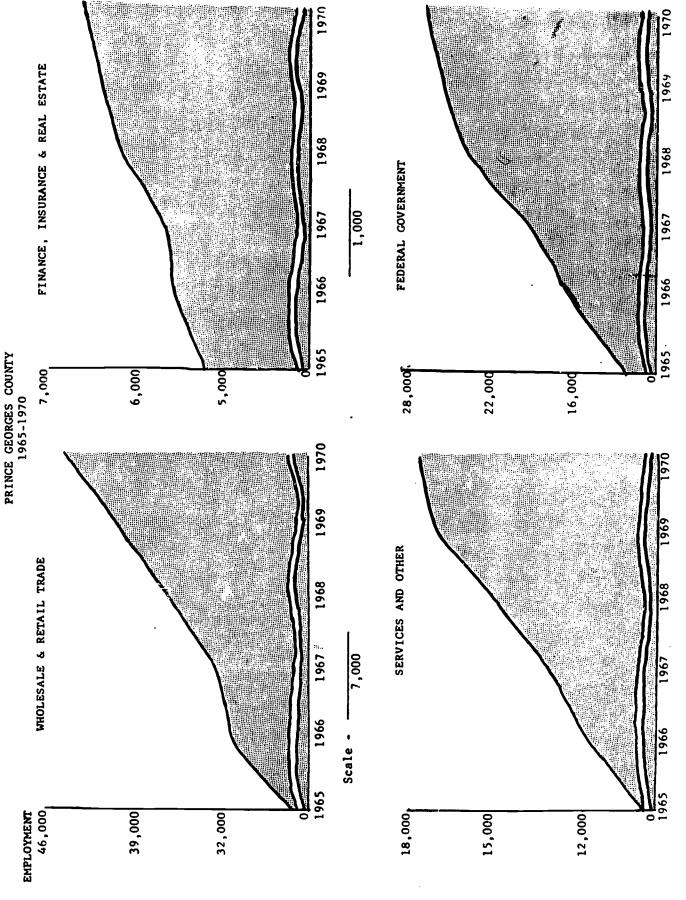
INSURED AND FEDERAL GOVERNMENT EMPLOYMENT MONTGOMERY COUNTY 1965-1970



INSURED AND FEDERAL GOVERNMENT EMPLOYMENT
PRINCE GEORGES COUNTY
1965-1970



INSURED AND FEDERAL GOVERNMENT EMPLOYMENT
PRINCE GEORGES COUNTY
1965-1970



### OCCUPATIONAL INFORMATION

Brief descriptions of each of the greatest growth occupations as determined from Tables H, I, and J follow in alphabetical order.

### **ACCOUNTANT**

Duties: Sets up financial reporting systems and compiles and analyzes business records and programs, financial reports such as profit and loss statements, balance sheets, cost studies and tax reports.

Personal Qualifications: An accountant must be able to give close attention to detail and possess above average ability for working with numbers and solving problems.

Education: A bachelor's degree with a major in accounting and a C. P. A. certification are increasingly necessary for entering the field.

Industry Attachment: Accountants are engaged wherever business, industrial or government organizations are located. Many work for large accounting firms.

### **AUTO MECHANIC**

Duties: Repairs cars and trucks. Estimates costs of repairs and replacements. In small shops, an auto mechanic may work on mechanical, electrical, braking, and other systems. In large shops, estimating may be done by a service manager or salesman and repairs made by mechanics who specialize in one or more systems. Some mechanics specialize in truck repair which often requires knowledge of diesel systems.

Personal Qualifications: An auto mechanic should possess medium strength, good eyesight, good hearing, and ability in handling, reaching, stooping, and crawling.

Education: Migh school graduates, 18 years old or older, are generally preferred by employers. They should have a driver's license and a good driving record. Pre-employment training either through hobby, vocational high school, trade school, institution or manufacturer's school, is a valuable asset.

Industry Attachment: Auto mechanics work in general or special repair shops, government and industries which maintain a fleet of vehicles such as bus lines, truck transportation companies, car rental agencies or delivery services.

### BOOKKEEPER, CLERICAL

Duties: Maintains systematic, up-to-date financial records of a business, industry, public or governmental organization. A bookkeeper records day-to-day business transactions and periodically prepares summary statements showing the amount of money received and paid out. In small establishments one bookkeeper may keep a complete set of books. In larger organizations, each bookkeeper specializes in a specific phase of bookkeeping. Some may post items in accounts payable or receivable ledgers, and others may take trial balances, or prepare summary reports. Work may be done by hand with the use of desk calculator or a bookkeeping machine.



Personal Qualifications: Bookkeepers must be able to give attention to detail and have an above average aptitude for working with numbers. They should also possess analystical and adaptive ability in associating and interpreting business records.

Education: A high school diploma, preferably commercial, including bookkeeping, typing and operation of a variety of office machines is required.

Industry Attachment: Bookkeepers work in all types of industry and government.

### **CARPENTER**

Duties: Constructs, erects, installs, and repairs structures and fixtures of wood, plywood and wallboard, using carpenter's hand and power tools.

Personal Qualifications: A carpenter should possess at least medium strength and ability to climb, stoop, reach and handle tools with dexterity. Patient attention to detail and good eyesight are also required.

Education: Completion of high school is desirable. Journeyman status is achieved through an 8,000-hour apprenticeship program. Related classroom instruction includes drafting, blue print reading, mathematics, and use of tools.

Industry Attachment: Carpenters are found primarily in construction, shipbuilding, commercial and industrial building maintenance, and home improvement companies.

### **CLERK, GENERAL OFFICE**

Duties: Performs a variety of duties which may include receiving and supplying information by telephone, billing, and posting data in record books. Minimal typing and filing may be required for some of these clerical duties.

Personal Qualifications: A general clerk should possess courtesy, tact, judgment, organizing ability, good hearing and vision.

Education: In general, this position requires a high school diploma with some instruction in business subjects. However, some non-graduates find opportunity through cooperative training programs. Specific details must be learned on the job.

Industry Attachment: General clerks are abundant in all types of industry and government.



### **CLERK-TYPIST**

Duties: Combines typing with the variety of duties performed by a general office clerk. Typing skill is emphasized in the preparation of statistical tables, reports, letters, and other business communications and records,

Personal Qualifications: The clerk-typist must work rapidly and accurately and possess numerical aptitude and manual dexterity.

Education: A high school diploma, preferably commercial, including a course in typing, is necessary to qualify for this position.

Industry Attachment: Clerk-typists are found in all types of industry and government.

### COMPUTER PROGRAMMER - BUSINESS

Duties: Converts symbolic statement of business problems to detailed logical flow charts for coding into computer language and solution by means of automatic data processing equipment. Applies subject matter knowledge, algebra, symbolic logic and knowledge of computer capabilities to develop sequence of program steps. Translates detailed logical flow chart into language processable by the computer by selecting symbols from the coding system peculiar to given make and model of a digital computer, recording them on a worksheet compatible with the logical flow chart for subsequent transfer to punch cards or machine input tape.

Personal Qualifications: A computer programmer must possess ingenuity, imagination, aptitude for logical thinking and exacting analysis plus patience, persistence, and the ability to work with extreme accuracy.

Education: Education depends on the level of programming responsibility. Requirements range from the advanced degree level to high school completion. A degree in business administration, engineering, mathematics, or computer science is sometimes necessary. On-the-job training may be provided to personnel having previous experience with automatic data processing equipment or business record preparation.

Industry Attachment: Computer programmers are used in large establishments in all industries including government.

### **DRAFTSMEN**

Duties: Prepares clear, complete and accurate working plans and drawings from rough or detailed sketches or notes. for engineering or manufacturing purposes.

Personal Qualifications: A draftsman should possess good eyesight and the ability to visualize spatial relationships. Manual skill is needed to manipulate a triangle, T-square and other drafting tools.

Education: Graduation from vocational or technical high school or institution with courses in mathematics, the physical sciences, and drafting are the prerequisites for this job.

Industry Attachment: Manufacturing firms, engineering and architectural consulting firms, construction companies, public utilities, and government utilize the draftsman's skills.



### FOOD SERVICE WORKER

Duties: Essentially four classifications (cook, waiter/waitress, kitchen aide, and bus boy) are included in this category. Cooks prepare, season, and cook various foodstuffs. Waiters and waitresses take customers' orders, relay them to the kitchen, serve orders to patrons, and may receive payment and bring change to clients. Kitchen aides assist cooks in preparation of simpler dishes and perform scullery duties; while bus boys clear and reset tables and clean dining rooms.

Personal Qualifications: All classifications require physical stamina, ability to work under pressure and a very high order of personal cleanliness. Cooks should also have an acute sense of taste and smell. Waiters and waitresses should be able to do simple arithmetic. hear and speak clearly, and possess poise and a friendly manner.

Education: Basic training in this field may be obtained in vocational schools and in private trade schools. However, skills and proficiency are acquired through on-the-job training in employers' establishments.

Industry Attachment: Food service workers are found in restaurants, cafeterias, hotels, clubs, transportation facilities, and public institutions.

### **KEY PUNCH OPERATOR**

Duties: Records accounting and statistical data on computer/ tabulating equipment cards by punching a series of holes in the card in a specified sequence using a machine similar in operation and action to the typewriter.

Personal Qualifications: A key punch operator must possess good vision, excellent hand-eye coordination and the ability to concentrate on detail, and to perform with precision.

Education: High school or business school education is desirable and typing is necessary.

Industry Attachment: Banks, finance, insurance, transportation, utilities, trade establishments, and government operators.

### **MACHINIST**

Duties: All-round machinists are skilled metal workers, who set up and operate a variety of machine tools to produce metal parts in accordance with blue prints and specifications. Machine tools include lathes, grinders, milling machine, boring mills, slopers, and planers. Parts must be machined to extremely accurate measurements, often closer than .001 inch, requiring the use of micrometers and other precise measuring instruments. Final finishing and assembling involve the use of small hand tools - chisels, scrapers, files. Skilled machine-tool operators are specialists who set up and operate one or two machines working to close dimensions in accordance with specifications. Semi-skilled machine tool operators perform repetitive operations in a single machine which has been set up by a skilled worker. Such work is checked by pre-set simple gages. This semi-skilled work can be learned through on-the-job training of limited duration.



Personal Qualifications: Attention to detail, high concentration, mechanical aptitude, medium strength, ability to stand for long periods, excellent reaching and handling abilities, and visual acuity are important for the machinist's job.

Education: High school or vocational school education is required. A good grasp of basic mathematics is essential. Apprentices are usually 18-25 years of age. Journeyman status is generally achieved through completion of a 4-year apprentice training program which includes 8,000 hours of shop work plus classroom instructions in blue print reading, shop mathematics, shop practices, and properties of metals.

Industry Attachment: Most machinists and skilled machine tool operators are employed in the manufacture of machinery, metal products, and transportation equipment. However, there are many machinists also employed in maintenance operations of manufacturing companies and in shops which specialize in producing machine parts to order. Semiskilled machine tool operators are usually employed as production workers.

### MANAGEMENT TRAINEE

Duties: Assists first middle, and top level managers in the various functional and administrative areas pertinent to the operation of an establishment. Trainees may serve in successive positions of increasing responsibility within an area or may be cross-trained in several such areas.

Personal Qualifications: A management trainee needs a balance of initiative, imagination and energy and the ability to analyze and solve operational and administrative problems in his area or areas. He must be able to persuade others.

Education: Employers are increasingly requiring beginning managers to have completed college. Although an able person not college trained may work his way up, his promotional opportunities may be limited. For beginning managers, a prior background of at least two years of college work in a pre-specialization curriculum, possibly supplemented be limited specialization in a preferred functional area, should prove most helpful.

Industry Attachment: All industries and government employ management trainees.

### SECRETARY - EXECUTIVE

Duties: Takes dictation and transcribes notes on a typewriter. Usually relieves executive of numerous routine duties and often handles a variety of business details on her own initiative. She may supervise other stenographers, typists, and office clerical personnel.

Personal Qualifications: Executive secretaries must have discretion. good judgment, initiative, poise, alertness, and a pleasant personality.

Education: Graduation from high school with thorough grounding in stenographic skills is essential to this position plus several years of experience at lower stenographic level possibly supplemented by advanced study to include either an associate or bachelor's degree in the field of executive secretary.



Industry Attachment: Executive secretaries are found in public and private establishments of practically every type.

### SECRETARY - STENOGRAPHER

- Duties: Takes dictation and transcribes notes on a typewriter. The secretary-stenographer may perform other functions listed for secretary-executive above but to a more limited degree.
- Personal Qualifications: A secretary-stenographer should be poised, alert, and discrete.
- Education: Graduation from high school with thorough grounding in stenographic skills are necessary to qualify.
- Industry Attachment: Public and private establishments of practically every type employ secretary-stenographers.

### **TEACHER**

- Duties: Using approved educational methods gives classroom instructions ranging from formal lecturing to open discussions. A teacher prepares lesson plans, supervises study, and grades papers.
- Personal Qualifications: Teachers must work well with students, command respect, have ability to counsel and be able to present material in an understandable, attractive manner.
- Education: A bachelor's degree with background in the subjects to be taught plus education courses to meet the requirements of state certification.
- Industry Attachment: Teachers are usually employed by local government, private or church connected schools.

### TEACHER'S AIDE, DAY CARE CENTER

- Duties: Assists teacher in the routine aspects of instruction conducted at a day care center. Functions may consist of verifying attendance, issuing and positioning supplies, monitoring study groups and playground activities, and assisting in learning demonstrations.
- Personal Qualifications: Sympathetic interest in and desire to work with young pre-grade school children are required in addition to a neat appearance and an extroverted, stable, energentic and tactful personality.
- Education: While not required, a high school diploma possibly supplemented by courses in child psychology and one or more arts, crafts, or sports would prove most useful.
- Industry Attachment: Teacher's aides are employed by local government or church-connected schools.



### TECHNICIAN, CIVIL ENGINEERING

Duties: Assists civil engineers in the planning and construction of highways, railroads, bridges, viaducts, dams, and other structures. Technicians may estimate costs, prepare material specifications, or participate in surveying, drafting or design work; they also may assist in scheduling construction activities and inspecting work to assure conformity with blueprints and specifications.

Personal Qualifications: Technicians should possess tact, aptitude for details, imagination, good practical knowledge of time and space factors and personnel and material costs, coupled with verbal and written facility.

Education: Technical, institute, junior college, or vocational-technical school graduation with concentration on the practical phases of civil engineering including surveying, drafting, soil analysis, strength of materials, task organization and resources, schedule preparation and technical report writing.

Industry Attachment: Civil engineering technicians are employed by construction firms, engineering and architectural consulting companies, public utilities, and government.

### TECHNICIAN, ELECTRONIC

Duties: Applies electronic theory, principles of electric circuits, electrical testing procedures, engineering, mathematics, physics, and related subjects to layout, build, test, troubleshoot, repair and modify development and production electronic equipment such as computers, missile control instrumentation, radar and machinetool numerical controls.

Personal Qualifications: Electronic technicians should possess finger and manual dexterity, agility, good vision and color perception and analytical ability.

Education: Graduation from junior college, technical institute or vocational-technical school, with strong physical sciences background in electricity and electronics supplemented with mathematics and very strong emphasis on electronic diagnostic techniques and laboratory procedures in required.

Industry Attachment: Mining, manufacturing firms, transportation, utilities and communication establishments, public and private research laboratories all employ electronic technicians.



TABLE B

### NONAGRICULTURAL EMPLOYMENT BY MAJOR INDUSTRY MONTGOMERY COUNTY, MARYLAND

Item	1960	1970*	Percent Change 1960-1970
Total Nonagricultural Employment	79,930	198,005	148.0
Manufacturing	4,555	7,895	72.0
Nonmanufacturing	75,375	190,160	152.6
Construction	8,201	15,465	88.6
Transportation-utilities	1,330	4,220	217.3
Wholesale and retail trade	20,324	39,980	97.6
Finance, insurance and real estate	4,617	11,690	153.2
Service and miscellaneous	10,403	65,560	530.2
Government	30,500	53,245	74.6

Maryland DESS Nonagricultural Industry Series 1960



<sup>\*</sup>Estimated unpublished data of the Maryland Department of Employment and Social Services.

TABLE C

### NONAGRICULTURAL EMPLOYMENT BY MAJOR INDUSTRY PRINCE GEORGES COUNTY

Item	1960	1970*	Percent Change 1960-1970
Total Nonagricultural Employment	79,466	171,060	115.3
Manufacturing	·5,976	8,025	34.2
Nonmanufacturing	73,490	163,035	121.9
Construction	6,272	13,185	110.2
Transportstion-utilities	1,958	5,465	179,1
Wholesale and retail trade	17,777	44,495	150.3
Finance, insurance and real estate	2,824	6,535	131.4
Service and miscellaneous	5,009	36,655	631.8
Government	39,650	56,700	43.0

Maryland DESS Nonagricultural Industry Series 1960

<sup>\*</sup>Estimated unpublished data of the Maryland Department of Employment and Social Services.

TABLE D

INSURED AND FEDERAL GOVERNMENT EMPLOYMENT IN MONTGOMERY AND PRINCE GEORGES COUNTIES CALENDAR YEAR ANNUAL AVERAGE 1965-1970

Industry	1965	1966	1967	1968	1969	1970
			MONTCOM	MONIGOMERY COUNTY		
Total Insured Employment	78,836	87,219	93,001	687,101	110,654	115,528
Mining and Quarrying Construction	20 14,285	14,238	13,250	12,907	16,129	15,465
Manufacturing	5,765	6,307	6,510	7,413	7,765	7,844
Durable Goods Nondurable Goods	3,394 2,371	3,719 2,588	3,776 2,734	4,486	4,831 2,934	4,370 3,474
Transportation, Communication	762 6	3 23%	3 268	3 260	3 731	1 96.1
Wholesale and Retail Trade	26,611	30,235	32,961	37,214	38,401	39,978
Finance, Insurance & Real Estate	8,507	9,281	9,397	9,854	10,495	11,693
Service and Other	21,294	23,874	27,566	30,484	34,069	36,545
Government (Federal)	25,772	24,793	25,318	21,840	24,859	24,895
21			PRINCE GEG	PRINCE GEORGES COUNTY		
L						
Total Insured Employment	63,202	70,502	74,437	82,359	89,749	95,325
Mining and Quarrying	606	905	906	814	880	887
Construction	11,595	12,292	11,354	11,966	12,934	13,186
Manufacturing	7,327	7,439	6,804	7,789	7,965	8,024
Durable Goods	4,149	4,155	3,570	4,059	3,570	3,476
Nondurable Goods	3,178	3,284	3,234	3,730	4,395	4,548
Transportation, Communication					,	
and Utilities	2,999	3,613	4,127	4,405	4,577	4,723
Wholesale and Retail Trade	25,853	29,068	32,467	36,299	40,175	767,492
Finance, Insurance & Real Estate	5,254	5,578	5,658	6,101	6,340	6,533
Service and Other	9,285	11,611	13,122	14,985	16,878	17,480
Government (Federal)	12,354	15,917	18,686	23,048	24,641	25,846
	_					

### A NOTE CONCERNING THE USE OF OCCUPATIONAL DATA FROM THIS SURVEY

In the following tables, the projected needs of employers in the Montgomery and Prince Georges Counties are only as valid as the employers' estimates. Some are influenced by what employers would like their future employment to be. In past surveys the results have reflected, in general, an over-optimistic outlook. Consequently users of the survey data should proceed with caution, especially where growth or replacement needs appear unusually high when compared with data from other sources.

Use of sample data is another cause for distortion in results. Since information has been inflated to include those employers not in the survey, results could be either too high or too low.

Data in Tables F, G, K, and L may not add to totals due to insufficient information for certain occupations. These occupations are listed, but show no employment data.



EMPLOYMENT IN SURVEYED OCCUPATIONS MONTGOMERY AND PRINCE GEORGE'S COUNTIES (1971-1976)

	Two-Co	Two-County Employment	ment	Exparsion Needs	n Needs	Replaceme	Replacement Needs	Total Additional	ittional	Promotions into	ns into
	Pohenican	Pohmieru	Pohrmanu	1	1n	<b>7</b>	ta ta	Requirements	ents in	Occupations in	ons in
Occuparion	reoruary 1971	1973	1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
TOTAL OF SURVEYED OCCUPATIONS	161,285	182,151	204,116	20,866	42,831	38,736	078*96	59,602	139,671	8,034	12,558
BUSINESS OCCUPATIONS	78,651	88, 263	98,729	9,612	20,078	20,824	52,060	30,436	22,138	4,281	665 9
Accountant Accountant Assistant	2,490	2,937	3,592	129	1,102	284	710	731 305	1,812	102	177
Artist, Commercial Bookkeeper, Clerical Bookkeeper, Machine	405 4,060 740	519 4,661 808	638 5,217 913	601 68	233 1,157 173	128 840 76	2,100 190	247 1,441 144	3,257 363	201 69	328 152
Business Machine Operator Buyer or Purchasing Agent Personnel Worker	608 1,069 1,548	701 1,243 1,842	857 1,347 2,128	93 174 294	249 278 580	130 108 234	325 270 585	223 282 528	574 548 1,165	83 66 81	126 130 112
BUSINESS MANAGEMENT											
Food Service Manager Hotel-Motel Manager	1,265	1,348	1,501	83	236	7 7 867	1,245	581 25	187'1	161	290 6
Nursery Manager (Horticultural) Printing Production Manager Service Station Manager	114	194 164 642	239 173 665	80 24 68	125 33 91	10 24 36	25 60 90	90 48 104	150 93 181	27 11 46	29 13 46
Transportation-Traffic Manager	153	150	164	۳ ۱	11	22	55	19	99	19	28
CLERICAL										_	
Clerk, General Office Clerk-Typist	13,642 9,907	14,883	16,275	1,241	2,633 2,860	3,636	9,090 8,115	4,877	11,723 10,975 3,530	264 220 114	372 374 194
Secretary-Legal Secretary-Medical	1,006	1,152	1,276	146		208	520 370	35¢ 216	730	12	54
Secretary-Stanographer Stenotype Operator	5,129 80	069°5	6, 209 94	1961	1,080 14	1,384	3,460	1,945	4,540	191	20 <b>7</b>
SALES		•									
Salesman, Outside Salesperson, Inside	5,501 23,864	6,497	8,014 28,224	996 2,207	2,513	804 7,280	2,010 18,200	1,800	4,523 22,560	253 1,908	443 2,834
TRAINEE											
Management Trainee Marketing Trainee Real Estate and Insurance Trainee	842 24 75	1,158	1,461 47 147	316 16 37	619 23 72	420	1,050	736 16 103	1,669 23 237	315	414

EMPLOYMENT IN SURVEYED OCCUAPTIONS
MONTGOMERY AND PRINCE GEORGE'S COUNTJES
(1971-1976)
(Contd.)

		- 1		Conta						1	
	Tvo-County	unty Employment	ment	Expansion Needs in	n Needs n	Replacement	Replacement Needs in	Total Additional Requirements in	iltional ents in	Occupations into	ns inco Ions in
Occupation	February		February		-1,	- 1	- 1				
	1971	1973	1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
DATA PROCESSING OCCUPATIONS	978*9	8,470	10,395	1,624	3,549	1,538	3,845	3,162	7,394	165	306
Computer Operator	466	1,189	1,358	192	361	238	595	730	926	111	174
Computer Operations Supervisor	1 264	316	334	52	70	75.	09	76	130	20	130
Computer Programmer-Scientific	479		•	189	<b>707</b>	98	215	275	•	67	92
Data Control Clerk	341			152	311	96		248		61	83
Key Punch Operator	1,854	2,145	2,790	291	936	622	1,555	913	2,491	217	320
Systems Analyst Tabulating Machine Operator	101	135	1,1/4	36	740	32	80	99 99	992 120	۲ '	<b>*</b> '
Control of the contro	2	277 5	75, 76,	725	1 122	9 6	2000	v	3 7.17	00	166
HEALTH OCCUPATIONS	7,032	/90°C	*C1 60	659	77161	916	667,	_	/1466	<b>"</b>	8
Dental Assistant	369	407	977	38	7,7	24	09	62	137	• :	• 1
Dental Hygienist Dental Laboratory Technician	143	238	330	7 06	182	2 1	} '	06	182		1 6
Assistant	767	517	522	50	25	52	130	72	155	2 5	۲,
Medical Laboratory Technician Medical Technologist	506 171	574 185	219	99	90I 90I	106 24	265	174	371 108	2 60	71
Nurse, Licensed Practical	260	111		151	201	204		355		85	88
Nurse, Registered Radiological (X-ray) Technician	2,577 130	2,77.4	2,993 189	207 43	65 917	18	1,185	681 61	1,601	- 21	χ·
SERVICE OCCUPATIONS	24,622	26,065	27,934	1,443	3,312	1,990	4,975	3,433	8,287	345	797
PUBLIC SERVICE											
Correction Aide (Penal)	170	186	235	16	65	32	80	87	145	•	•
Fire Safety Officer	307	325		18	12	77	110	62	131	112	114
Law Enforcement Officer Library Assistant	2,992 720	3,178	3,468	186	141	230	575	297	1,021	19	27
Recreation Leader	611	760	979	149	368	36	06	185	458	28	. 58
Social Welfare Assistant Teacher	16,916	17,464		248	1,151	876	2,370	1,496	3,521	- 89	3 %
Teacher's Aide-School Teacher's Aide-Day Care Center	829	1,053	1,281	224	452	182	455	907	907	7	о v
Urban Planning Assistant	21	77		23	72	50	S	43	122	12	12
PRIVATE SERVICE						_					
Airplane Pilot	88	88	105	-	16	•	•		16	36	36
Air Traffic Controller	77	7,	01.0	, a	، د	' '	• 00 1	• 6	200	\$ 1	. "
Mortician Security Criteria	96	8	96		? '	<u> </u>	9 '	3 '	; '	22	22
Private Investigator	07	07	07	•	•	•	•	1	ı	•	•

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## EMPLOYMENT IN SURVEYED OCCUPATIONS MONTCOMERY AND PRINCE GEORGE'S COUNTIES (1971-1976) (Contd.)

				(Conca.	,						
	Two-County	ш	mployment	Expansion Needs	n Needs	Replacement	ent Needs	Total Additional	ditional	Promotions into	ns into
Occupation	February	Pebruary	February	<b>,</b>	ın		1u	Requires	Requirements in	Occupations in	lons in
	1971	1973	1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
TECHNICAL OCCUPATIONS	6,115	7,150	8,202	1,035	2,087	1,110	2,775	2,145	7,862	787	027
Cartographer & Cartographic Tech.	1,083	1,083	1,090	'	7	10%	260	104	267	•	•
Communications	391	200	528	109	137	112	280	221	417	36	28
Technician, Architectural	194	212	157	12	7 6	32	20 1	£ 6	127	: °	= "
	133	139	133	907	77	7 6	25.	07 5		7 5	7 .
	903	1,299	77001	2630	619	200	017	080	1,029	70	Ç ;
	1,745	770,7	2,398	787	200	897	0/9	050	•	4,	2 6
Technician, General Engineering	•	1,130	•	· ,	6;	7,00	000	7 6	663	707	607
Technician, Mechanical Engineering	202	411	208	9:	143	797	Ç.	907	200	13	7
Technician, Nuclear or Radiation Technician. Sanitation or	<u>د</u>	<b>à</b>	<b>5</b>	71	67	3	01	97	<del>ک</del>	•	•
	193	251	338	88	145	06	225	148	370	11	11
TRADES AND INDUSTRIAL OCCUPATIONS	40,019	46,536	52,702	6,517	12,683	12,356	30,890	18,873	43,573	2,441	3,957
Air Conditioning Mechanic	953	1,178	1,603	225	650	336	840	195	1,490	134	209
Aircraft Mechanic	45	51	52	9	7	1	1 1	9	7	• ;	• ;
Appliance Repairman	3 673	1,104	1,313	2/1	321	102	255	7/7	3/6	0,00	3 2
Auto Mechanic	1 032	1,267	767	20/ 215	700	312	780	1,511	2,647	965	96
Compared Nepartman	4,172	2,083	419.8	116	1 766	215	7 015	יוני ר	201.1	* :-	26.
Compension	1,186	1,272	1.247	98	15	•			(2)	101	107
	1,505	2,184	2,945	629	1,440	162	507	841	1 845	36	) y
	2,456	2,830	3,252	376		154	385	528	181	191	217
Flectronic Repairmen	1,119	1,315	1,491	196	372	162	707	358	777	77	127
Engineering Aide	368	437	516	69	148	80	200	149	348	15	36
Pood Service Worker	13,509	15,115	16.391	v	2,882	5.816	14.540	7,422	17.422	830	
Landacaper	199	837	935		268	250	•	420	893	32	37
Machinist	1,050	1,341	1,861	291	811	178	445	697	1,256	67	8
PRINTING TRADES					_						
Printing, Binder Operator	629	759	883	100	224	74	185	176	607	77	117
Printing Estimator	77	67	55	5	11		•	, ,	11	9	1
Printing Pressman	1,070	1,248	1,379	178	309	82	205	260	214	88	151
Printing, Process Cameraman	220	786	727	771	162	3.0	75	77	151	12	20
ביווריוופי דאופפברבי	2	<u> </u>	7	-		1	8	9	735	75	ว
OTHER OCCUPATIONS								_			
Service Station Attendent	2,938	3,192	£17 £	757	5.27	.695	1 155	91.	1 630	701	260
Sheet Metal Worker	1,418	1,594	1,851	176	433	412	1,030	288	1,463	97	8
Welder	6/6	455	3	8	 X	<b>3</b>	210	140	301	21	75

### EMPLOYMENT IN SURVEYED OCCUPATIONS HONTCOMERY COUNTY (1971-1976)

DOCCUPATIONS  BUSINESS OCCUPATIONS  ACCOUNTANT ACCOUNTANT ASSISTANT BOOKREEPER, Clerical BOOKREEPER, Clerical BOOKREEPER, Clerical BOOKREEPER, Clerical BOOKREEPER, Machine Operator BUSINESS MACHINE Operator BUSINESS MACHINE OPERATOR BUSINESS MANAGEMENT FOOD SERVICE MANAGER HOTEL-HOTEL MANAGER HOTEL-HOTEL MANAGER HOTEL-HOTEL MANAGER HOTEL-HOTEL MANAGER FINITING Production Manager Service Station Manager Transportation-Traffic Manager Traffic Manager	<u> </u>	February	L S	Yours			na trobau	Nedarrements to	iii aiioisaan	
TOTAL OF SURVEYED OCCUPATIONS  Accountant Accountant Assistant Artict, Commercial Bookkeeper, Clerical Bookkeeper, Clerical Business Machine Business Machine Operator Business Machine Business Manager Frod Service Manager Rotel-Motel Manager Nursery Manager (Horticultural) Printing Production Manager CLERICAL CLERICAL Clerk, General Office Servetary-Executive Secretary-Executive Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal	92,296	1076	2 Years				;		;	
Accountant Accountant Accountant Accountant Accountant Artit, Commercial Bookkeeper, Clerical Bookkeeper, Clerical Business Machine Business Machine Operator Business Machine Operator Business Machine Business Machine Business Machine Business Machine Business Machine Business Machine Business Manager Transport Clerical Business Manager CLERICAL CLERICAL Clerk, General Office Serietary-Executive Secretary-Executive Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal	92,296			e leat c	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
Accountant Accountant Accountant Artier, Commercial Bookkeeper, Clerical Business Machine Operator Cod Service Manager Nursery Manager (Horticultural) Printing Production Manager Service Station Manager CLERICAL Clerk, General Office Clerk, General Office Secretary-Executive Secretary-Esal Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal	•	105,154	11,985	24,843	18,952	47,380	30,937	72,223	877'7	7,241
Accountant Accountant Assistant Artict, Commercial Bookkeeper, Clerical Bookkeeper, Clerical Business Machine Operator Business Machine Operator Buyer or Zuichasing Agent Personnel Worker BUSINESS MANGEMENT Food Service Manager Nursery Manager (Horticultural) Printing Production Manager Service Station Manager CLERICAL CLERICAL CLERICAL Clerk, General Office Secretary-Executive Secretary-Executive Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal	45,885	51,765	5,782	11,662	10,004	25,010	15,786	36,672	2,225	3,495
Accountant Accountant Accountant Assistant Activit, Commercial Bookkeeper, Clerical Bookkeeper, Auchine Business Machine Operator Business Manager Food Service Manager Hotel-Motel Manager Hotel-Motel Manager CLERICAL CLERICAL CLERICAL Clerk, General Office Secretary-Executive Secretary-Executive Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal	1 06.1	, 531	101	٠ ١٥	278	595	195	1,508	72	152
Accountant Assistant Artit, Commercial Bookkeeper, Clerical Business Machine Operator Business Manager Food Service Manager Hotel-Motel Manager Nursery Manager (Horticultural) Printing Production Manager Service Station Manager CLERICAL CLERICAL CLERICAL Clerk, General Office Secretary-Executive Secretary-Executive Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal	156	4 CO	9 2	226	138	345	217	581	831	133
Artiet, Commercial Bookkeeper, Clerical Bookkeeper, Adchine Business Machine Operator Business Manager Food Service Manager Nursery Manager (Horticultural) Printing Production Manager Service Station Manager CLERICAL CLERICAL CLERICAL Clerk, General Office Secretary-Executive Secretary-Executive Secretary-Executive Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal	100	25.8	77	103	87	120	92	223	•	7
Bookkeeper, Cierical Bookkeeper, Cierical Bushass Machine Operator Bushass Machine Operator Bushass Machine Operator Bushass Manager Bushass Manager Rotel-Motel Manager Rotel-Motel Manager Rotel-Motel Manager Transportation-Traffic Manager CLERICAL CLERICAL Secretary-Executive Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal	2 655	2 679	727	803	727	1.185	951	1.986	149	208
Business Machine Operator Business Machine Operator Buyer of Turinasing Agent Personnel Worker  BUSINESS MANAGEMENT Food Service Manager Nursery Manager (Horticultural) Printing Production Manager Service Station Manager Transportation-Traffic Manager  CLERICAL  CLERICAL  CLERICAL  Secretary-Executive Secretary-Executive Secretary-Legal Secretary-Legal Secretary-Legal Secretary-Legal	515	581	75	141	25	130	127	271	65	145
Buyer of Turinsing Agent Personnel Worker  BUSINESS MANAGEMENT Food Service Manager Nursery Manager (Horticultural) Printing Production Manager Service Station Manager Transportation-Traffic Manager  CLERICAL  CLERICAL  Clerk, General Office Clerk-Typist Secretary-Executive Secretary-Medical Secretary-Medical	247	969	92	239	92	230	184	697	08	121
POOD SETVICE MANAGEMENT POOD SETVICE MANAGER HOTEL-MOTEL MANAGET Nursery Manager (Horticultural) Printing Production Manager Service Station Manager Transportation-Traffic Manager CLERICAL CLERICAL Clerk, General Office Clerk-Typist Secretary-Executive Secretary-Medical Secretary-Medical	798 1,068	872 1,269	138 250	212 451	85 148	205 370	398	417 821	61 0	84.5
Pood Service Manager Hotel-Hotel Manager Nursery Manager (Horticultural) Printing Production Manager Service Station Manager Transportation-Traffic Manager CLERICAL Clerk, General Office Clerk-Typist Secretary-Executive Secretary-Legal Secretary-Legal								•		
Hotel-Hotel Manager Nursery Manager (Horticultural) Printing Production Manager Service Station Manager Transportation-Traffic Manager CLERICAL Clerk, General Office Clerk-Typist Secretary-Executive Secretary-Medical Secretary-Medical	748	811	70	103	220	550	260	653	74	139
Nursery Manager (Horticultural) Printing Production Manager Service Station Manager Transportation-Traffic Manager CLERICAL Clerk, General Office Clerk-Typist Secretary-Executive Secretary-Medical Secretary-Medical	88	76	٠ <del>(</del>	210	4	10	6	20	2 2	3 [
Frinting Froduction Manager Service Station Manager Transportation-Traffic Manager CLERICAL Clerk, General Office Clerk-Typist Secretary-Executive Secretary-Medical	114	120	76	3,	. 6	. 05	3,5	7	10	17
Transportation-Traffic Manager  CLERICAL  Clerk, General Office  Clerk-Typist  Secretary-Executive  Secretary-Hegal  Secretary-Medical	278	780 780	19	; r;	78	2 2	41	16	23	23
CLERICAL Clerk, General Office Clerk-Typist Secretary-Executive Secretary-Legal Secretary-Medical	78	80	2	4	22	55	54	29	12	21
Office tive al										
tive al	8,399	9,219	914	1,734	1,762	4,405	2,676	6,139	159	236
al oranher	2,039	2,345	312	618	392	98	70%	1,598	97	166
	300	326	56	25	\$ 6	235	120	287		
	3,665	4.054	365	754	1.044	2,610	1,409	3,364	147	180
	07	77	9	10	•		•	10	•	•
SALES				-						
Salesman. Ontaide	3,505	4,247	459	1,201	955	1,115	905	2,316	112	197
de	12,561	13,469	1,144	2,052	3,050	7,625	4,194	9,677	700	1,071
TRAINEE										
	536	779	107	215	190	475	297	069	98	141
Marketing Trainee	21	26	11 36	16 69	- 99	165	11	16 234	. 65	131
								١		
				-						
	-									

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### EMPLOYMENT IN SURVEYED OCCUPATIONS MONTCOMERY COUNTY (1971-1976)

				(Contd.)	d.)						
		Employment		Expansi	Expansion Needs	Replacement	ent Needs	Total Ad	Additional	Promot fons	ns into
Occupation	February	February	February		uı _				Requirements in	Occupations in	lons in
	1971	1973	1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
DATA PROCESSING OCCUPATIONS	4,024	5,211	6,818	1,187	2,794	918	2,295	2,105	5,089	657	730
Computer Operator	195	769	823	133	292	150	375	283	637	92	153
Computer Operations Supervisor	169	208		39	28	20	20	29		15	56
Computer Programmer-Business	979	1,330	1,779	351	800	132	330	483	1,130	69	112
Computer Programmer-Scientific Data Control Clerk	224	327	767	103	210	20 02	175	173	385	4 v	6 00 00
Key Punch Operator	870	1,084	1,660	214	790	376	940	265	1,730	130	205
Systems Analyst	861	1,033	1,174	172	313	114	285	286	S	87	95
Tabulating Machine Operator	2	2	7/	m •	<b>-</b> -	20	20	<u>:</u>	15	•	•
HEALTH OCCUPATIONS	2,384	2,731	3,068	347	789	328	820	675	1,504	36	97
Dental Assistant	79	80	82	~ (		•	• 8	~ ;	m	•	•
Dental Hygienist	۵۷۱	86.0	330	7 6	10.	0	70	0 6	225	•	•
Medical Assistant	152	163	163	11	11	•	• •	21	11	• •	
Medical Laboratory Technician	239	267	305	28	99	22	55	20	121	2	2
Medical Technologist	147	161	195	14	87	16	07	30	88	• ;	۲,
Nurse, Licensed Fractical Nurse, Registered	1,195	1,309	1.440	114	245	208	185	129	294	26	ر د د
Radiological (X-ray) Technician	19	63	•	2	15	•		2	31		
SERVICE OCCUPATIONS	9,912	10,718	11,607	908	1,695	818	2,045	.1,624	3,740	179	214
PUBLIC SERVICE											
Correction Aide (Penal)	. 88	300	• ac	• •	۱ ۶	• 6	• 6	• 5	• 6	•	' :
Law Enforcement Officer	1,566	1,735	1,998	169	432	118	295	287	727	25	67
Library Assistant	254	106	339	35	85	97.	115	8 ;	200	17	23
Necteation bender Social Welfare Assistant	9	75	8	13.5	36		. ·	3 2	36	. ,	
Teacher	7,357	7,699	8,025	342	899	967	1,240	838	1,908	•	•
leacher's Alde-School Teacher's Alde-Day Care Center	007	- -		101	176	3 '	067	187	1,5	• •	٠,
Urban Planning Assistant	11	34	7.4	23	63	•	٠	23	63	2	2
PRIVATE SERVICE		_									
Airplane Piloc	60	7	15	-	7	•	•			•	•
Air Traffic Controller Industrial Security Officer	- 17	- 67	- 87	. 2		• 7	٠ ج	• •		•	۱ ۳
Mortician	95	56	26	•	•	•	? •	•	: '	22	22
Private Investigator	•	•	•	•	ı	•	•	•	•	•	•
		_						_			
				_							
	_										

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EMPLOYMENT IN SURVEYED OCCUPATIONS
HONTCOMERY COUNTY
(1971-1976)
(Contd.)

				(conta.	(:)						
		Employment		Expansion Needs	on Needs	Replacemen	Replacement Needs	Total Additional	ittional ents in	Promotions into	ns into lons in
Occupation	February	February	February								
	161	1973	1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
TECHNICAL OCCUPATIONS	687.7	766'7	5,615	505	1,126	818	2,045	1,323	3,171	203	379
Cartographer & Cartographic Tech.	1,058	1,058	1,058	•	•	100	250	100	250	•	•
J	183	220	236	37	53	40	100	77	153	21	36
	129	150	160	21	. a	7.7	٠ د د	7 4	9 °	1.	11
	7 7	233	900	o %	131	9 0	25	711	300	18	<b>'</b> F
	1 707	1 676		, 04	161	326	248	967	75.1	77	3,2
Technician, Electronic	1,100	1,074	1 109	- 12	63	178	262	166	508	85	192
Technician, General Engineering	284	321	396	37	112	152	380	189	492	13	25
Technician, Nuclear or Radiation	23	99	82	12	53	7	10	16	39	•	•
rechnician, Sanication of Environmental	139	189	263	000	124	28	145	108	269	9	•
TRADES AND INDUSTRIAL OCCUPATIONS	19,399	22,757	26,281	3,358	6,882	990*9	15,165	9,424	22,047	1,346	2,377
Air Conditioning Mechanic	079	828	1,170	188	530	236	290	424	1,120	87	126
Aircraft Mechanic	56	32	233	9;	7	• (	1 5	9 6	7,7	1 5	. 5
Applicance Repairmen	1 730	403	2 265	29.5	526	79£	010	771	1.436	149	190
Auto Rode Repairmen	343	416	•	73	153	88	220	191	373	15	15
Carpenter	2,295	3,020	3,697	725	1.402	1,174	2,935	1,899	4,337	135	226
	707	450	348	97	- 56	56	65	72	6	9	268
8 Draftsman	756	930	1,121	174	365	120	300	. 294	665	25	42
Electrician	1,365	1,629	1,925	264	260	7.7	185	338	745	<b>3</b> :	149
Electronic Repairman	218	, 964 108	1,053	132	110	99	617	202	159	\ 6°	27
Engineering Aide Food Service Worker	5,769	6,624	7,359	855	1,590	2,816	7,040	3,671	8,630	483	755
Landscaper	7470	454	477	14	37	82	205	337	242	۲ ع	11
Machinist	100	414	1,5,1	- C67	669	701		ì	250	5	<b>:</b>
PRINTING TRADES						_					
Printing, Binder Operator	257	309	376	52	119	70	175	122	294	36	86
Printing Pressman	618	583	645	35	27	99	165	'E 8	192	97	87
Printing, Process Cameraman Printing, Typesetter	219	230	255 148	. 21	3 39	12	S 8	. m	101	91	23 8
	1				-						
OTHER OCCUPATIONS											
Service Station Attendant	1,438	1,534	1,600	96	162	336	840	432	1,002	84	140
Welder	196	202	217	6	21	97	115	55	136	14	38
		1					<b>-</b>		-		



EMPLOYMENT IN SURVEYED OCCUPATIONS PRINCE GEORGE'S COUNTY (1971-1976)

Table G

		!mployment		Expansion Needs	n Needs	Replacement Needs	nt Needs	Total Additional	ditional	Promotic	Promotions into
	Fohrmary	Fohrmary	Pohruary		c	fa		Requirements	ents in	Occupat	Occupations in
Occupation	1971		1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
TOTAL OF SURVEYED OCCUPATIONS	80,974	89,855	98,962	8,881	17,988	19,784	097'67	28,665	67,448	3,586	5,317
BUSINESS OCCUPATIONS	38,548	42,378	796,97	3,830	8,415	10,820	27,050	14,650	35,466	2,056	3,104
Accountant	872	996	1,061	124	189	97	115	170	304	17	25
Accountant Assistant Artist, Commercial	250	320	380	2.2	130	8 8	200	120		<b>. 80</b>	<b>. </b>
Bookkeeper, Clerical Bookkeeper, Machine	1,882	2,006 293	2,238	124	356 32	366	915	17	1,271	52 4	120
Business Machine Operator	153	154	163	36	10	38 26	95 65	39	105	3	2 S
Personnel Worker	730	7.14	829	77	129	88	215	130	344	50	28
BUSINESS MANAGEMENT											_
Pood Service Manager	557	069	069	43	133	278	969	321	828	8.7	151
Hotel-Motel Manager	71	82	16	91 -	79 78 78	י ב	. 20	91	20	، ۲	- 5
Nursery Manager (Horticultural) Printing Production Manager	77	8 8	68		12	7	01	~ ? .	22	٧	7
Service Station Manager Transportation-Traffic Manager	315	364	382	67 -	70	<b>60</b> I	50	. 57	90	23	73
clerical		_				_					
Clerk, General Office	6,157	6,484	7,056	327	899	1,874	4,685	2,201	5,384	105	136
Secretary-Executive	1,725	1,890		165	•	•	1,640	•	1,932	11	78
Secretary-Legal Secretary-Wedical	537	852 569	950	120 32	218 35	114	285 190	234 108	503 225	. ~	. 21
Secretary-Stenographer	1,829	2,025	2,155	196	326	340	850	536	1,176	14	54
scenocype Operator	}	3	3	,	,	!	3	•	î	•	•
SALES											
Salesman, Outside Salesperson, Inside	2,455 12,447	2,992 13,510	3,767	537 1,063	1,312	358	895 10,575	895 5,293	2,207 12,883	141	246 1,763
TRAINEE		_									
Management Trainee	413	622	817	209	707	203	575	439	626	229	273
Marketing Itainee Real Estate and Insurance Trainee	, m	7	1,9	<b>-</b>	- m	• •	• •	n =	~ m	. ~	۰ ۵
		_		•				-			

EMPLOYMENT IN SURVEYED OCCUPATIONS
PRINCE GEORGE'S COUNTY
(1971-1976)
(Contd.)

				Contd.	7:						
		Employment		Expansion Needs	n Needs	Replacem	Replacement Needs	Total Additional	ditional	Promotic	Promotions into
Occupation	February	February	February	-	ıu	-	e i	Kequirements in	iencs in	Оссирис	Occupations in
	1971	1973	1976	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years	2 Years	5 Years
DATA PROCESSING OCCUPATIONS	2,822	3,259	3,577	437	755	620	1,550	1,057	2,305	132	174
Computer Operator	436	567	535	65	66	88	220	147	319	19	11
Computer Operations Supervisor	95	108	107	13	12	7	10	17	22	٠. ا	٠,
Computer Programmer-Business	909	661	687	22	£ 5	130	325	187	807	13	æ «
Computer Programmer-Scientific Data Control Clark	117	166	218	67	- -	76	65	75	166	N M	7
Key Punch Operator	986	1,061	1,130	77	146	246	615	323	192	87	115
Systems Analyst Tabulating Machine Operator	366	500	600	134	234	64 12	160 30	198	394 69	m :	œ ı
HEALTH OCCUPATIONS	2,648	2,936	3,086	288	438	290	1,475	878	1,913	95	120
Desterri	240	127	79٤	37	7.6	77	09	61	134	•	•
	7	6	10	2	e e	<b>60</b>	20	10	23	•	•
Dental Laboratory Technician	, ,	• 20	* 6		' :	1 5	1001	1 5	****		
medical Assistant Medical Laboratory Technician	267	307	307	707	<u>.</u> 9	84	210	124	250		٠ ،
Medical Technologist	54	77	54	•	•	80	20	∞	20	7	7
Nurse, Licensed Practical	564	330		99	92	130	325	196	417	ee.	23
Nurse, Registered Radiological (X-ray) Technician	1,382	1,475	1,553	41	171	18	665 45	359 59	838	<u> </u>	~
SERVICE OCCUPATIONS	14,710	15,347	16,327	637	1,617	1,172	2,930	.1,809	4,547	166	248
PUBLIC SERVICE											
Correction Aide (Penal)	170	186	235	16	65	32	8 .	87	145		
Fire Salety Officer Law Enforcement Officer	11,426	1,443	1.470	1 4	1 77	100	250	117	294	22	52 2
Library Assistant	997	867	522	32	95	184	097	216	516	2 5	4 5
kecreation Leader Social Welfare Assistant	242	260	294	18	25 22	9 <b>9</b>	165	761	217	9 •	1 28
Teacher	9,559	9,765	10,042	506	483	452	1,130	658	1,613	82.	78
Teacher's Aide-School	549	592	989	£, ,	131	82	502	125	336	<b>~</b>	<b>3</b> ^
Jeacher & Alde-Day cale center Urban Planning Assistant	10	10	19		6	50	20.	20	29	٠ 2	10
PRIVATE SERVICE											
Airplane Pilot	81	18	8 :	•	6	٠	٠	•	6	36	36
Air Irailic Controller Industrial Security Officer	851	857	864	. •	13	. 6	175	<b>-</b> 92	188	• •	
Mortician	07	07	07	•	•	•	•	•	•	•	•
Private Investigator	07	07	07	•	•	•	•	•	•	•	•
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	-	-							erinifer e		
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EMPLOYMENT IN SURVEYED OCCUPATIONS
PRINCE GEORGE'S COUNTY
(1971-1976)
(Contd.)

Controlled   Con					(college)							
TUDNITION COCUMATIONS 1,675 1,575 1,			Employment		Expansion	n Needs	Replacem		Total Ad	ditional	Promotio	ins into
TECHNICAL OCCUPATIONS  1, 626 2, 1, 156 2, 1, 156 2, 1, 157 2, 1,	00 1 2 40 1 2 2 0	February	February	February	4	E	•		vedatie	וורש דוו	oct abut	III allo
Technician, Acceptations   1,426   2,155   2,397   350   961   272   270   872   1,691   161   170		1971	1973	1976			- 1				1	
Technician, Architectoral Civilian Civi	TECHNICAL OCCUPATIONS	1,626	2,156	2,587	530	196	292	730	822	1,691	8	16
Technician, Communications 55 5 5 5 6 1 5 1 6 1 1 1 1 1 1 1 1 1 1	Cartographer & Cartographic Tech.	25		32	•	7	7	10	7	17		• ;
Tremistion, Consisted Builthearing 689 1, 197 41 688 68 6 11 69 6 11 6	Technician, Communications	208	280	292	72	78	72	180	144	264	EI	22
Treduction, Civil Deginering		6	60	100	•	9	2 4	67	24	3 6	• 1	• (
Technician, Silvering		60	1 066		412	889	2 75	135	7	823	99	77
Technician, September   Sept		ביים	252	•		78	77	201	75	189	~	· "
Technician's Verboundted Engiasering 31 90 112 9 31 10 25 19 56 77 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1		101	124	129	11	22	62	155	79	177	17	17
Technician, Noticera or Radiation 2 2 75 8 8 21 35 80 10 101 5 100 101 101 100 101 101 101 1		81	90	112	6	31	01	25	19	95	•	•
TRADES AND INDUSTRIAL COCUPATIONS 20,620 23,779 26,421 3,139 5,801 6,290 15,725 9,449 21,256 1,095 447 20,620 23,779 26,421 3,139 5,801 6,290 15,725 9,449 21,256 1,095 447 20,620 23,779 26,421 3,139 2,801 6,290 15,725 9,449 21,256 1,095 24,490 21,256 1,095 24,490 21,256 1,095 24,490 21,256 1,095 24,490 21,256 1,095 24,490 21,256 1,095 24,490 21,256 1,095 24,490 21,256 24,490 21,290 24,490 21,290 24,490 21,290 24,490 21,290 24,490 21,290 24,490 21,290 24,490 21,290 24,490 21,290 24,490 21,290 24,490 21,290 24,490 21,290 24,490 21,290 24,490 21,290 24,490 21,290 24,490 21,290 24,490 21,290 24,490 21,290 24,490 24		7	2	2	•	•	•	•	•	•	,	•
Art Conditioning Nechanic (1975)  Art Conditioning Mechanic (1975)  Art Conditioning Mechanic (1977)  Electrician (1977)  Art Conditioning Mechanic (1977)  Electrician (1977)  Art Conditioning Mechanic (1977)  Electrician (1977)  Electrician (1977)  Art Conditioning Mechanic (1		7	67	76	a	ç	33	â	0,	5	v	
Attractive Mechanic and Comparison (Comparison (Compar	Environmental	ž	70	2	0	17	70	8	?	1	`	`
Attrocherioning Mechanic 313 350 433 118 120 100 250 117 370 47 47 47 47 47 47 47 47 47 47 47 47 47	TRADES AND INDUSTRIAL OCCUPATIONS	20,620	23,779	26,421	3,159	5,801	6,290	15,725	677.6	21,526	1,095	1,580
Aglicate Repairer   1, 90	Air Conditioning Mechanic	313	350	433	37	120	100	250	137	370	47	83
Auch Reduzina	Aircraft Mechanic	19	19	19	•	•	•	• ;	•	•	•	•
Auto Mechanic  Auto Mechanic  Auto Mechanic  Auto Mechanic  Auto Mechanic  Auto Mechanic  Comencio del Carponic  Discremic Resistran  1,877 2,083 2,191 186 342 1,632 4,980 1,818 4,422 116  Discremic Resistran  1,877 2,083 1,129 186 117 6 18 118 4,422 116  Discremic Resistran  1,877 2,083 1,129 186 117 6 18 118 4,422 116  Electronic Resistran  1,971 1,221 1,232 19 186 117 19 19 110 190 110 190 110  Electronic Resistran  1,971 1,231 1,38 1,44 11,39 119 1,39 11	Appliance Repairman	643	761	885	118	242	34		152		1 0%	316
Carpenter Carpony Nepsimes 1,877 2,063 2,219 186 342 1,632 4,080 1,818 4,422 16 Commenciogist 782 822 823 64 117 6 115 6 115 46 112 112 Commenciogist 7,91 1,501 1,327 110 135 80 200 190 436 171 1,800 110 1,800 110 1,800 110 1,800 110 1,800 110 1,800 110 1,800 110 1,800 110 1,800 110 1,800 110 1,800 110 1,800 110 1,800 110 1,800 110 1,800 110 1,800 110 1,800 110 1,800 110 1,80	Auto Mechanic	689	631	938	162	672	226	-	366	•	19	21
Description   1,091   1,294   1,294   1,095	Carpenter	1.877	2,063	2.219	186	342	•	•	•	4,422	91	32
Dreftman   1,091   1,204   1,205   1,075   4,0   1,000   11   1,001   1,001   1,201		782	822	899	70	117	•	•	•	132	112	112
Electroic an	31	476	1,254	1,824	505		77	105	. 547	1,180	11	14
Engineering Action (Repairman 307) 351 458 44 131 76 150 79 189 77 180 5 180 75		1,091	1,201	1,327	110	236	8	200	190	436	67	89 5
r         7,40         8,491         9,632         751         1,292         3,000         7,500         3,751         8,792         347           227         383         4,58         156         121         168         4,20         3324         651         25           366         422         484         56         118         76         190         132         36           perator         402         450         507         48         105         4         10         32         115         6           Cameraman         426         465         734         213         28         40         4         10         52         115         4           cr         426         465         74         129         185         20         50         149         235         16           cr         99         228         284         129         185         20         50         149         235         16           NS         718         794         868         76         150         154         385         230         535         39           183         230         253         47		307	351	438	2 5	16.4	9/9	061	120	321	, ,	10,
227         383         458         156         231         168         420         324         651         25           perator         402         422         484         56         118         76         190         132         308         6           cmeramor         402         450         507         48         105         4         10         52         115         6           cmeramor         426         466         36         734         213         282         16         40         50         149         232         42           cm         426         466         36         129         185         20         50         149         232         16           cm         99         228         284         129         185         20         50         149         235         16           NS         NS         1,658         1,813         158         313         126         315         230         236         20           rentant         1,500         1,658         1,613         156         154         305         39         39           tentant         183         23	Food Service Worker	7,740	8,491	9,032	751	•	3,000	•	٠,	8,792	347	458
perator         402         420	Landscaper	227	383	458	156	231	168	420	•	651	, 25 25	, 26
perator     402     450     507     48     105     4     10     52     115     6       Cameraman     452     665     734     213     282     16     40     279     322     42       Cameraman     456     466     36     40     40     50     149     239     322     42       er     99     228     284     129     185     20     50     149     235     16       NS     NS       tentant     1,500     1,658     1,813     158     313     126     315     284     628     20       183     230     253     47     70     38     95     85     165	Machinist	366	422	787	95	811	92	180	132	808	٥	•
comeramen         402         450         507         48         105         4         10         52         115         6           452         665         734         213         282         16         40         229         322         42           Cameraman         426         466         36         46         36         40         40         50         322         42           er         99         228         284         129         185         20         50         149         235         16           NS         tentant         1,500         1,658         1,813         158         313         126         315         284         628         20           718         794         868         76         150         154         385         230         535         39           183         230         253         47         70         38         95         85         165         7	PRINTING TRADES											
Cameraman 452 665 734 213 282 16 40 229 322 42 42 42 42 42 42 42 42 42 42 42 42 4	Printing, Binder Operator	402	450	202	87	105	4	10	52	115	9	31
Cemeraman 452 665 734 213 282 16 40 229 322 42  Cemeraman 426 466 36 40 40 229 322 42  er 99 228 284 129 185 20 50 149 235 16  NS  tentant 1,500 1,658 1,813 158 313 126 315 284 628 20  183 230 535 39  183 230 535 39  184 165 1,813 158 313 126 315 284 628 20  185 150 154 385 230 535 39  187 230 253 47 70 38 95 85 165 7	Printing Estimator	10	10	10	•	•	• ;	• !	•	• (	• ;	• ;
Comeraman 426 462 466 36 40 40 40 50 149 235 16 6 8 8 1,500 1,658 1,813 158 313 126 315 230 535 39 16 183 230 253 47 70 38 95 85 165 7	Printing Pressman	452	599	734	213	282	91	07	229	322	7,7	79
tentant 1,500 1,658 1,813 158 313 126 315 284 628 20 794 868 76 150 154 385 230 535 39 183 230 253 47 70 38 95 85 165 7	Printing, Process Cameraman Defection Tennasacter	97,	402 228	787	129	28.5	3 0	25	671	235	, <u>9</u>	32
tentant 1,500 1,658 1,813 158 313 126 315 284 628 20 794 868 76 150 154 385 230 535 39 183 230 253 47 70 38 95 85 165 7	ניווריוסי ולאכסבריבי	:	-		ì	}	}	<b>?</b>			2	:
tentant 1,500 1,658 1,813 158 313 126 315 284 628 20 718 794 868 76 150 154 385 230 535 39 183 230 253 47 70 38 95 85 165 7	OTHER OCCUPATIONS						_					
718 794 868 76 150 154 385 230 535 39 183 230 253 47 70 38 95 85 165 7	Service Station Attentant	1,500	1,658	1,813	158	313	126	315	284	628	20	120
	Sheet Metal Worker	718	794	868	92	150	154	385	230	535	33	67
	10D on	601	067	CC7	<del>,</del>	?	2	C.	6	691		•
				,		•						
						•						

TABLE H

### MONTGOMERY AND PRINCE GEORGES COUNTIES OCCUPATIONS REFLECTING GREATEST GROWTH AND TOTAL REQUIREMENTS IN PERIOD 1971-1976

Occupation	5-Year Growth	Rank	Total 1/ Additional 1/ Requirements	Rank
Salesperson, Inside	4,368	1	22,560	1
Food Service Worker	2,882	2	17,422	2
Clerk-Typist	2,860	3	10,975	4
Clerk, General Office	2,633	4	11,723	3
Salesman, Outside	2,513	5	4,523	7
Carpenter	1,744	6	8,759	5
Draftsman	1,440	7	1,845	13
Bookkeeper, Clerical	1,157	8	3,257	10
Tencher	1,151	9	3,521	9
Accountant	1,102	10	1,812	14
Secretary-Stenographer	1,080	ıı	4,540	6
Auto Mechanic	1,000	12	2,975	11
Key Punch Operator	936	13	2,491	12
Secretary-Executive	910	14	3,530	8
Computer Programmer-Busiñess	883	15	1,538	18 <u>2</u> /

 $<sup>\</sup>underline{1}$  / Includes estimated 5-year growth plus 5-year replacement needs.

 $<sup>\</sup>underline{2}/$  Reflects rank in list of  $\underline{all}$  surveyed occupations. Consequently, may exceed the number of jobs listed here.

TABLE I

### MONTGOMERY COUNTY OCCUPATIONS REFLECTING GREATEST GROWTH AND TOTAL REQUIREMENTS IN PERIOD 1971-1976

Occupation	5-Year Growth	Rank	Total Additional 1/ Requirements	Rank
Salesperson, Inside	2,052	1	9,677	1
Clerk, General Office	1,734	2	6,139	3
Food Service Worker	1,590	3	8,630	2
Clerk-Typist	1,528	4	4,833	4
Carpenter	1,402	5	4,337	5
Salesman, Outside	1,201	6	2,316	7
Accountant	913	7	1,508	12
Bookkeeper, Clerical	801	8	1,986	8
Computer Programmer-Business	800	9	1,130	15
Key Punch Operator	790	10	1,730	10
Secretary-Stenographer	754	ıı	3,364	6
Machinist	693	12	948	18 <u>2</u> /
Teacher	668	13	1,908	9
Secretary-Executive	618	14	1,598	11
Technician, Executive	569	15	1,134	14

 $<sup>\</sup>underline{1}$  / Includes estimated 5-year growth plus 5-year replacement needs.



<sup>2/</sup> Reflects rank in list of <u>all</u> surveyed occupations. Consequently, may exceed the number of jobs listed here.

TABLE J

### PRINCE GEORGES COUNTY OCCUPATIONS REFLECTING GREATEST GROWTH AND TOTAL REQUIREMENTS IN PERIOD 1971-1976

Occupation	5-Year Growth	Rank	Total Additional 1/ Requirements	Rank
Salesperson, Inside	2,308	1	12,883	1
Clerk-Typist	1,332	2	6,142	3
Salesman, Outside	1,312	3	2,207	6
Food Service Worker	1,292	4	8,792	2
Draftsman	1,075	5	1,180	11
Clerk, General Office	899	5	5,584	4
Technician, Civil Engineering	688	7	823	16
Teacher	483	8	1,613	8
Auto Mechanic	474	9	1,539	9
Ceacher's Aide-Day Care Center	433	10	783	17 <u>2</u> /
danagement Trainee	404	11	979	13
Bookkeeper, Clerical	356	12	1,271	10
Carpenter	342	13	4,422	5
Secretary-Stenographer	326	14	1,176	12
ecreation Leader	321	15	376	33 <u>2</u> /
Secretary-Executive	292	16	1,932	7

<sup>1/</sup> Includes estimated 5-year growth plus 5-year replacement needs



<sup>2/</sup> Reflects rank in list of all surveyed occupations. Consequently, may exceed the number of jobs listed here.

EDUCATIONAL REQUIREMENTS
PRINCE GEORGE'S COUNTY
1971

Table K

				Educ	Education Required	ed			o <sub>X</sub>
	Fanolovment		High School			College	eg.		Educat ton
Occupation	1971	10	11	12	1	2	3	7	Specified
TOTAL OF SURVEYED OCCUPATIONS	80,974	10,694	1,435	38,885	427	2,520	173	12,320	13,920
BUSINESS OCCUPATIONS	38,548	3,081	1,224	23,933	215	1,363	25	1,404	7,303
Accountant	872		1 -	69	6 28	153	٠, ١	472	167 26
Accountant Assistant Artist Commercial	250	10		165	17 40	210	16	2	60 259
Bookkeeper, Cleiter Bookkeeper, Machine	300	۲	• •	234	7	13		• •	3 7
Business Machine Operator Buyer or Purchasing Agent Personnel Worker	409 730	ξ''	• •	129	. 1 4	73	• •	55 255	152 93
BUSINESS MANAGEMENT									
Food Service Manager	557	16	•	411	•	37		09	33
Hotel-Motel Manager Nursery Manager (Hortfcultural)	71 81	• •	• • 1	75				96	, m m
Printing Production Manager Service Station Manager Transportation-Traffic Manager	315	. 89 .		239		1 1 90	• •	19	<b>&amp;</b> &
CLERICAL									
Clerk, General Office	6,157	1,154	43	4,120 5,361	2	53			785 375
Clerk-lypist Secretary-Executive	1,725	·	• •	1,337	14	189		18	162 372
Secretary-Legal Secretary-Medical	537	• •	· •			<u>.</u>	•	•	150
Secretary-Stenographer Stenotype Operator	1,829 46	73	• •	1,468	7 •	ć ·			•
SALES									
Salesman, Outside Salesperson, Inside	2,455	1,159	1,178	1,343 6,315	78 14	42		261 11	513 3,659
TRAINEE								,	•
Management Trainec	413	• •	• •	147	ım	17	6 I	123 9	117
Marketing Irainee Real Estate and Insurance Trainee	<u> </u>	•	•	•	-	•	•	•	2
				_					
				_					

EDUCATIONAL REQUIREMENTS
FRINCE GEORGE'S COUNTY
1971
(Contd.)

				Educa	Education Required				No
	Employment		High School			College	86		Education
Occupation	1971	10	11	12		2	3	7	Specified
DATA PROCESSING OCCUPATIONS	2,822	1961	•	1,516	58	142	37	965	643
Computer Operator	436	•	t	400	6	14	1	•	13
Computer Operations Supervisor	95	•	•	36	9	25	•	15	13
Computer Programmer-Business	909	•	•	110	14	91	37	335	17
Computer Programmer-Scientific	192	1 5	•	61	01		•	121	٠;
Data Control Clerk Key Punch Operator	711	184	• •	35	17	ມ ເ			3,0
Systems Analyst	366	•	•	28	'	7	1	125	176
Tabulating Machine Operator	28	•	•	54		•	•	•	7
HEALTH OCCUPATIONS	2,648	•	141	528	136	487	710	180	997
Dental Assistant	290	•	•	290	•	• •	1	•	
	`	•	•	•	•	_	•	•	
Dental Laboratory Jeconician Medical Assistant	345	• •	141	14		• •		. ^	. 88.
Medical Laboratory Technician	267	•	•	· •	98	100	1	7	74
Medical Technologist	24	•	•	• •	• ;	• :	•	54	• ;
Nurse, Licensed Practical	1 382	• •	• •	1/9	20	19	- 012	7,7	14
Radiological (X-ray) Technician	69	•	•	45	•	- 12		2	2
SERVICE OCCUPATIONS 1/	14,710	1,142	•	2,815	7	150	•	908,6	796
PUBLIC SERVICE									
Correction Aide (Penal) Fire Safety Officer Law Enforcement Officer Library Assistant Recreation Leader Social Welfare Assistant Teacher Teacher Tyanning Assistant Than Planning Assistant Airplane Pilot Airplane Pilot Airustial Security Officer Mortician Private Investigator	1,426 1,426 524 242 242 10 10 10 40 40	662 662 663		82 38 256 16 7 7 270 10 19 7 31		11147 14 11 00 12001		88 5 60 189 2 2 2	76 176 139 21 53 16 279 

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EDUCATIONAL REQUIREMENTS
PRINCE GEORGE'S COUNTY
1971
(Contd.)

					Edu	Education Required	red			Q.
		Employment		High School			College	ege		Education
·	Occupation	1971	10	11	12	1	6	3	7	Specified
	TECHNICAL OCCUPATIONS	1,626	•	•	988	1	127	1	328	181
	Cartographer and Cartographic Technician	25	•	•	7	•	21	•	•	•
	Technician, Communication	208	t	•	148	•	•	•	٠,	09:
		\$	•	ŧ	χ (	•	•	•	9 '	<b>;</b> '
		Š.	•	•	2 (	8	• (	8	<b>7</b> (	<b>n</b> u
		926	•	ŧ	474	٠,	7 6	ŧ	817	^ ;
	Technician, Electronic	341	•	•	187	7	80 S	1 (	01	, ,
		107	•	•	79	•	10	-4	28	<b>4</b>
		81	•	•	15	ŧ	9	•	25	<b>3</b> 0
		7	•	•	7	•	•	•		• ;
	Technician, Sanitation or Environmental	ž	•	•	81	1	1	•	7	cr
•	TRADES AND INDUSTRIAL OCCUPATIONS	20,620	6,277	20	9,105	01	251	i	ş	106,2
	Air Conditioning Mechanic	313	19		212	•	6	,	•	73
	Aircraft Mechanic	19	; •	•	19	•		•	•	•
	Appliance Repairman	643	7.4	•	520	1	• ;	1	•	67
	Auto Mechanic	1,803	319	ı	1,040	•	97	•	•	398
	Auto Body Repairman	689	137	٠;	351	•		•	•	201
	Carpenter	1,8/1	/31	51	25	•	7	•	•	423
	Cosmetologist	782	• (	•	463	•	1 1	•	1	916
37	Draftsmen	749	7 5	•	990	•	25,	•	1 (	57.0
,	Electrician	1,091	<b>4</b> 0 <b>6</b>	•	714		<b>n</b> c	t	7	907
	Electronic Repairman	207	- 21	• (	172	۳ ،	2 ر	1 (		901
?	Engineering Alue	7.740	3.646	•	2.494	, ,	; •	•	•	1.600
_	Landscaper	227	148	1	, 53	7	•	•	1	19
	Machinist	366	54	•	222	1	•	•	•	06
	PRINTING TRADES									
			c	3						0 ? ?
	Printing, Binger Operator Printer Estimator	10	0 1	٥١	7		1 4		1 4	0 1
	Printing Pressman	452	29	•	245	•	•	•	•	178
	Printing, Process Cameraman	426	326	•	61	•	•	•	•	39
	Printing, Typesetter	66	ı	1	91	•	<b>20</b>	1	•	1
	OTHER OCCUPATIONS									
		,								;
	Service Station Attendant	1,500	288	•	432	• :	0 :	•	1	780
	Sheet Metal Worker	183	35 2 <b>4</b>	• •	2,6	1 1				82
						-				
•	4				4		-			

### EDUCATIONAL REQUIREMENTS MONTCOMERY 1971

				Educ	Education Required	red			2
	Employment		High School				College		Education
Occupation	1971	10	11	12	1	2	3	7	Specified
TOTAL OF SURVEYED OCCUPATIONS	80,311	9,523	686	32,875	708	5,258	1,014	12,370	17,574
BUSINESS OCCUPATIONS	40,103	1,868	797	21,625	394	2,176	162	2,363	10,718
Accountant	1,618	•	•	56	17	257	62	066	236
Accountant Assistant	672	•	ı	271	12	197	9	56	160
Artist, Commercial	155	• •	1 6	07	20 55	2,6	•	5°	19
Bookkeeper, Clerical	8,1,2	9 -	7 1	266	2 2	7		<b>,</b>	165
Bookkeeper, machine Business Machine Operator	455	•	2	301	•	50	•	1	132
Buyer or Purchasing Agent Personnel Worker	660 818	-		254 376	18 54	173	7 7	252	112 87
BUSINESS MANAGEMENT									
· Food Service Manager	708	91	2	557	2	97	•	33	52
Hotel-Motel Manager	33	• •		% 9	•	<b>ω ω</b>	٠.	6 9	35 13
Printing Production Manager	250	7 08	٠ ت	42	7	35	, ,	י אי	9 71
Service Station nameger Transportation-Traffic Manager	32	?	<b>'</b>	32		m	•	91	50
CLERICAL									
Clerk, General Office	7,485	424	<b>.</b>	4,564	20	6 21			1,819
Secretary-Executive	1,727		٠ ٢	816	84	353	Φ 1	17	424
Secretary-Legal Secretary-Medical	275	, ~ ;	: '	194		36	•	. :	707
Secretary-Stenographer Stenotype Operator	3,300	7 1	• •	2,434	2	0 1		-	11
SALES									
Salesman, Outside Salesperson, Inside	3,046	1,047	- 86	876 5,664	15 16	370 85	27 -	563 185	1,147
TRAINEE									
Management Trainee	429	9 1	t I	163	14	67	7	102	6 '
Marketing irainee Real Estate and Insurance Trainee	72	•	• •	•	•	99	1	2 '	•
·									
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EDUCATIONAL REQUIREMENTS
MONTGOMERY COUNTY
1971
(Contd.)

			Contd		Troop as				
					rancarion kequited 				92 ·
Occupation	Employment 1971	10	High School	12	-	7	33	,	Specified
DATA PROCESSING OCCUPATIONS	7007	11	•	717*1	118	799	19	1,248	888
Computer Operator	195	14	•	299	16	97	•	18	168
Computer Operations Supervisor	169	7	•	23	ω ;	24		75	35
Computer Programmer-Business	979	^	•	502	14	145	۲,	490	Ç %
Computer Programmer-Scientific	224		•	176		2	; '	2.	97
Key Punch Operator	870	43	•	587	41	10	•	•	189
Systems Analyst	198	\$	•	20	•	28	•	187	27.2
Tabulating Machine Operator	73	•	•	41	12	•	•	•	20
HEALTH OCCUPATIONS	2,384	•	•	396	27	365	827	655	210
Dental Assistant	79	٠	•	53	•	2	12	•	12
Dental Hygienist	62	•	•	•	•	43	•	12	12
Dental Laboratory Technician	152			200	• •				102
Medical Laboratory Technician	239	•	•	98	•	9	•	113	25
Medical Technologist	147	•	•	• ;	7	• ;	17	77	25
Nurse, Licensed Practical	296	•	• •	\$ 2	21	215	776	366	m <u>c</u>
Nurse, Registered Radiological (X-ray) Technician	197	• •	• •	٠,	5	25	; ·	· ·	<b>`</b>
SERVICE OCCUPATIONS	9,912	28	•	2,005	2	86	•	7,604	175
PUBLIC SERVICE									
Correction Aide (Penal) Fire Safety Officer Law Enforcement Officer Library Assistant Recreation Leader Social Welfare Assistant Teacher's Aide-School Teacher's Aide-Day Care Center Urban Planning Assistant PRIVATE SERVICE Airplane Pilot Air Traffic Controller Industrial Security (fficer Mortician Private Investigator	1,566 254 254 87 87 280 7,357 280 - 11	188 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		140 1,397 83 83 14 14 14 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	1118111111 11111			18 104 47 47 7,357 2	1.884.11.1
						_	_		

EDUCATIONAL REQUIREMENTS
MONTGOMERY COUNTY
1971
(Contd.)

			(conta.)						
			Uteh Coheel	Educ	Education Required	d			No No
Occupation	Employment 1971	10		12	1	2	3	4	Education Specified
TECHNICAL OCCUPATIONS	687*7	73	•	976	36	2,147	·	578	709
Cartographer and Cartographic Technician Technician, Communication Technician, Architectural	1,058 183 129	• • •		- 72 5	• • •	1,058 99 39			12 8
	44		, ,	171	• •	25		8 66	32
	1,404	1 1		459	25 11	519 274		143 124	258 312
Technician, Mechanical Engineering Technician, Nuclear or Radiation Technician, Sanitation or Environmental	284 53 139					94 10 12		39 86	61 7 15
TRADES AND INDUSTRIAL OCCUPATIONS	19,399	7,483	192	6,489	131	206	•	18	78.7
Air Conditioning Mechanic	979	51	•	807	•	24	•	•	127
Aircraft Mechanic	26	. 0	' 8	26	٠, ٢	•	1	•	• 1
Appliance Repairman	1,739	421	25 %	892	າ •	• •	• •	• •	107
Auto Body Repairman	343	17	37	164	•	•	•	•	11
Commetalogiat	7,295 404	196	, ,	193		• •	• •		976 15
Draftsman	756	* 0	,	450	87	76	•	2	123
	812	250	• •	7 26 5		٠ ,	. 40		797
Engineering Aide Food Service Worker	144	4,211	21	25.50 24.9	<b>4</b> 1	87 '		71	77 886
Landscaper Machinist	789 987	95 64	'n	88 507		7 1		<b>7</b> 1	294 95
PRINTING TRADES									
Printing, Binder Operator Printing Zetimator Printing Pressman	257 34 618	20	211	233 18 555		. 9 7			2 10 50
Printing, Process Cameraman Printing, Typesetter	219	۰ ۰		190 165	, ,	12 6			ដ •
OTHER OCCUPATIONS									
Service Station Attendant Sheet Metal Worker Welder	1,438 700 196	878 232 21	• • •	320 207 141			111		240 150 34
		_							

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TABLE M

MONTGOMERY COUNTY EMPLOYER USE OF COMFUTERS (SAMPLE UNINFLATED) 1971

	-			Committee Dalatad Occupations	oloted Oct	The Property Cons						
				COMPACEL	בישרכה חר	2007787						1
	Number			2000	,	Key Punch		Tab.		Ortententon	ģ	Number Using
Make of Computer and Industry	Employ-	Oper-	Super-	Rustness	Scien	Oper-	Systems	Machine	Disc	Card	Tane	Time
Total Hadan Committee	130	330	8	195	175	427	617	17	87	29	67	7.5
	}	3	3	<u>;</u>	) ;	<u>;</u>		!	?		!	
Total Using IBM Computers	26	136	42	245	70	274	101	٧.	32	01	21	16
Construction	4 '	2 ·	7	(		<u> </u>	•		Μ,	7 (	•	, r
Manufacturing	<u>۰</u>	4	m	ø)		12	1		3	7,	7	<b>-</b>
Transportation & Utilities	<b>-</b> :	į	•	_	t	;	r	-	•	<b>-</b> - (	*	٦ ،
Trade	71		า -	א ע	^	7	<b>1</b> -		- ٥	۰,	<b>.</b>	) <b>-</b>
Finance, insurance & near Estate Corvins	56	. 2	22	148	35	700 T	29	•	13		ដ	. თ
Government	7	57	11	74		54	37	٣	٣	2	7	•
Total Haine CDC Computers	01	101	14	53	52	18	135	15	2	5	9	∞
Manufacturing	7			· ·	'n	-	1	ļ i	1	_	-	2
Services	9	89	•	97	23	11	126	7	٣	m	4	8
Government	2	32	9	9	56	9	6	80	7	-	-	-
Total Using UNIVAC Computers	10	58	14	89	20	93	93	21	v	7	6	7
Manufacturing	۷ ر	2	v	73	<u>.</u>	- °	07	,	7	7	¥	٠ ٧
Services Government	» m	43	n 0	35	J 20	23	23	19	1 1	7 7	m	, ,
Total Using NCR Computers	v -	14	4	23		20	6			7-	2	
Irane Finance, Insurance & Real Estate		m	2	2		٣				7 7		1
Services	٦,	ma	,-i ,-	1 کر		٤ ٢	đ		_	_		1
Government	7	0	-	3		:	•		_	-4	4	
Total Using Other Computers $1/$	71	21	80	99	73	22	41		s	2	10	٣
Construction Transportation & Utilities	<b>-</b>		-	m					-		<b>-</b>	
Trade	m		l	20	20		2		-		7	<b>-</b> -
Services Government	<b>ν</b> κ	21	4 W	32 11	17 6	6 1 <b>6</b>	93	_	m	7	3 6	
Make of Computer Not Designated	77	-	9	106	20		70	,				77

1/ Includes Xerox, RCA, Hewlett Packard, Varian, Recognition, DEC and Olivetti Programma.

MODELS OF COMPUTERS AND PROGRAM LANGUAGE
MONTGOMERY COUNTY
1971

		Number		Number		of Employers Using	gu:					
		Employ-			Lan	Language				Orientation		rime
Name of Computer	Model	ers 1/	Cobol	Fortran	RPG	Assembly	Basic	Other	Card	Disc	Tape	Sharing
	06-098	·	-	-	7				-	7		1
Wat	340-25	۰ ،	•	1						-		-
(International Business	02.096	. :	α	,	7	7	_	7	7	7	S	9
Machines)	05-065	3 '	٠.	•	,	•	•		~	7	~	
	360-40	m	-	•	-	-		7	1	- ۱	- ۱	
	360-50	_	-	-				,	•	- ·	٠.	·
	360-65	7	1	2			,	2	<b>.</b>	<b>-</b>	<b>-</b> (	7 (
	360-Undesig.	9	7	_	m	-	-	-	m	4	7 (	٠,
	1130	<b>∞</b>	7	7	_	-		,	7	9	m (	<b>3</b> •
	1401	4	-		_			2	m	. 2	n	<b>-</b>
	1440	m	7	-	7				,	- (	•	
	Other	6			-			<b>→</b>	7	m	7	
	1	,				-				_		_
coc	1700	٠,		-		-1				1	1	-
(Control Data Corp.)	3100			•					-	1	1	-1
	0025	- ۱	-	_					7	1		-1
	3300		-	4			-		)	1	-	-
1	0009	• ~	,	2			-		7	2	1	2
	0049	٠ ٧	۰ -	· ~					m	1	-	٣
	0029			1						1		-
		)	1									
INTVAC	1108	7	٣	m	1	-	n	-	7	7	<b>,</b>	٥
	9200	_			-1				-			
	418-11	1	-	-1					<b>,</b>		⊶.	
	Other	-							-	1	<b>-</b>	
G VI	315	2	-					1	-		-	
NCK Victory Double Control Con	900	· –	1					1	-			
(National Cash Register)	200	5 -						7	-		-	
		,	•	•		•	•	•	ſ	u	5	~
OTHER COMPUTERS		14	7	4		<b>3</b>	<b>1</b>	•	4	`	2	,
Walter of Committee Not Deaforsted		77										
Dake of Computer Not DestBuston												_

1/ Does not total same as TABLE M, due to some employers using more than one computer model.

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TABLE 0

PRINCE GEORGES COUNTY EMPLOYER USE OF COMPUTERS (SAMPLE UNINFLATED) 1971

				Computer Related Occupations	lated Occ	upations						
	Number of			Procramera	,	Key Punch		Tab.	0	Orientation	-	Number Using
Make of Computer and Industry	Employ- ers	Oper- ators	Super- visors	Business	Scien.	Oper- ators	Systems Analyst	Machine Oper.	Disc	Card	Tape	Sharing
Total Using Computers	16	278	112	767	210	611	76	11	31	15	29	38
Total Using IBM Computers	77	167	<b>L</b> 7	272	73	385	59	7	25	6	70	12
Construction Manufacturing	າ ສ :	7 78	7	21	37	24	23	1	w -	7	7 -	· М
Transportation & Utilities Trade	יון י	12	9.	9 %		18	- ~	2		_	9 %	m
Finance, Insurance & Real Estate Services Government	n v o	11 12 8	29.2	18 18	36	135 138	18	-	1 7 50	m %	46	m
Total Using UNIVAC Computers Services Government	970	95 8 87	25	165 11 154	39	159 22 137	34 20 14	99			13 8	0 m m
Total Using Other Computers 'Agonstruction Manufacturing Trade Finance, Insurance & Real Estate Services Government	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	11 3 3	36 1 29 4	49 2 35 12	77 20	44 2 5 17 20			<b>S</b> 2 - 2	w e: 0. =	2 11	m
Make of Computer Not Designated	27	2	. 4	∞	-	23	1	1				21

MODELS OF COMPUTERS AND PROGRAM LANGUAGE
PRINCE GEORGES COUNTY
1971

		Number		Number	r of Em	Number of Employers Using	80		   			
		Employ-			Lan	Language				Orientation	u	Time
Name of Computer	Mode 1	ers 1/	Cobol	Fortran	RPG	Assembly	Basic	Uther	Card	Disc	Tape	Sharing
761	System 3	7		•	7					-	_	_
	360-10	2			2			_	-	-	<u>د</u>	,
	360-20	٧	7	2	e				2	4	7	ю
	360-25	-						-				•
	360-30	13	12	m	2	2		v	~ ?	01	<b>co</b> ·	2
	360-40	7	'n					7	2	9	4	
	360-65	-		_				-			<u> </u>	
	360-70	-	_					_			<b></b> ,	
	360-80	-						_		<b>,,</b> ,		,
	360-Undesig.	9 (	2			-		<b>.</b>		m "	^	7
	1130	m		•				•		1		
	1401.	7	→ .	→ .	•	•		٠.		-	_	-
	Other	4	_	-	-	<b>-</b>		4		4	-	•
Ç 111 <b>*</b> ****	1107	•		-							-	2
סעדאיי	1108	7		7						-	2	2
	418-12	-					-				_	
	9300	1			-							
OTHER COMPUTERS		12	٣			2	1	4	\$	\$	v	m
	,	ţ										21
Make of Computer Not Designated		/7										:

 $\underline{1}/$  Does not total same as TABLE M, due to some employers using more than one computer model.

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