

# Census Bulletin

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## UNIVAC UNVEILED AT PHILADELPHIA DEDICATION

### Director Back from Sweden

Director Roy V. Peel has returned to Washington, following a trip to Sweden to lecture at the Universities of Stockholm and Uppsala on American statistical work.

His itinerary also included a brief study of census developments, especially in connection with national registration systems, in visits to Norway, Denmark, the Netherlands, France and England. Dr. Peel was very well-received in all these countries and considers his trip most successful. He was particularly pleased to note the high regard statisticians of these countries have for the work of the Census Bureau and their great interest in our new census techniques.

### Cancer Detection Film Shown

Arrangements were made by Mrs. Helen T. Mattare, Head Nurse, to have the National Cancer Society of the District of Columbia show a 15-minute educational film on cancer detection and prevention to all women employees of the Census Bureau in the Washington area. A half-hour discussion period is conducted by a nurse from the Cancer Society after each showing.

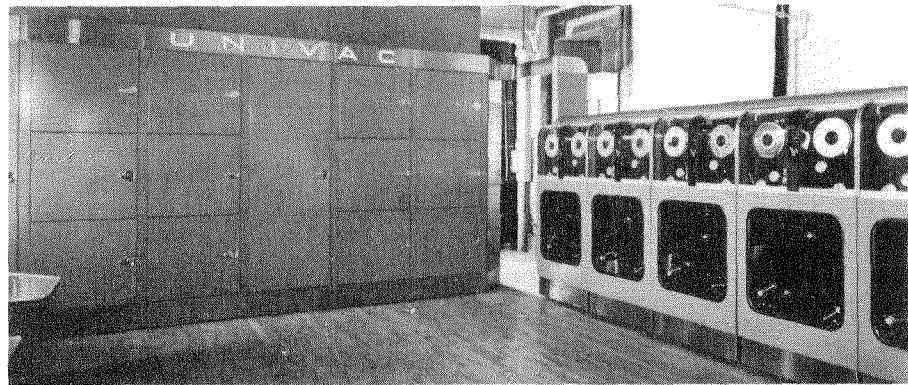
Women employees of FOB 3 and FOB 4 are scheduled to see the film from June 18-28. Women employees in the downtown locations will see the film in July.

### Progress of Attitude Survey

Approximately 1100 employees had completed the Employee Attitude Questionnaire as of June 14. The sampling plan required at least 100 persons taken at random from each division, for the division is the basic unit of study. All employees in Grades GS-7 and below were included from divisions with less than 100 employees.

Results of the survey will be summarized in an early issue of the Census Bulletin.

### Ultramodern Tabulator Developed for Census



Univac in Operation at Philadelphia, Penna. Tested and Approved by the Bureau of Standards for the Bureau of the Census, April 1951.

Dedication of the new Univac (Universal Automatic Computer), which marked the end of nearly five years of construction, took place at the Eckert-Mauchly Laboratory in Philadelphia on June 14. On this occasion the National Bureau of Standards formally delivered the world's most advanced electronic calculating system to the Bureau of the Census.

The Univac, was designed and built by the Eckert-Mauchly Computer Corporation, a division of Remington Rand, Inc., under the contractual supervision of the Bureau of Standards. James L. McPherson of the Census Bureau staff has been closely associated with the development of the machine and the procedural planning for its use.

#### DELEGATION FROM CENSUS

Taking part in the ceremony were Secretary of Commerce, Charles Sawyer who spoke and Director Roy V. Peel who accepted delivery of the Univac for the Census Bureau from Dr. Edward U. Condon, Director of the Bureau of Standards. Others from the Census Bureau who attended were: Deputy Director A.

Ross Eckler, Assistant Director for Statistical Standards Morris H. Hansen and Joseph Daly and James McPherson of his staff, Assistant Director in Charge of Operations Robert Y. Phillips, Information Assistant to the Director Frank R. Wilson, Chief of Machine Tabulation Division C. F. Van Aken and Lancelot W. Armstrong and Florence Koons of his staff.

The audience, which included scientists, representatives of all the press associations and many newspapers and magazines, and others was welcomed by Albert Greenfield, president of the Philadelphia Chamber of Commerce, who acted as Chairman. James H. Rand, president of Remington Rand, Inc., also spoke to the group.

#### USE OF UNIVAC EXPLAINED

Highlight of the dedication was a demonstration by Mr. McPherson of the machine at work. The demonstration consisted of the lightning-like tabulation in a table ready for publication, of the population characteristics for Monroe County, Iowa, which has a population of 11,814, from the 1950 Census.

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# Census Bulletin

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June 22, 1951

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Address news items and suggestions to the Editor, CENSUS BULLETIN, Room 1108, F.O.B. #3, Tel.: LU 4-3000, Ext. 525.

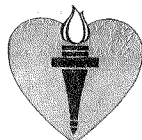
## The Decennial Tabulation Office

The *Bulletin* takes this opportunity to express its admiration and respect for the fine performance of the staff of the Decennial Tabulation Office, which is almost ready to close its doors. Elsewhere in this edition our readers may review the total production record of the Philadelphia office.

This record is outstanding any way we look at it and a credit to the Census Bureau. The record looks particularly good in the light of the fact that Korea and Defense establishments have caused a steady and appreciable drain on personnel from the office. Another factor was the temporary character of the office which meant that there was the constant incentive for any employee to seek and accept more permanent employment.

It would be extremely difficult to isolate any single factor which has contributed the most to the success of the Philadelphia operation. The success of any organization depends largely upon the quality of leadership at all levels, the competence of the people doing the job, and the amount of team spirit which prevails up and down the organization. Apparently, these conditions were present in about the right "mix" in the Decennial Tabulation Office.

So, to all employees and former employees of the Decennial Tabulation Office who contributed in any way to its success, we hereby do honor and convey our highest regards and hopes for continued success in other endeavors.



## Heart Association Seeks Funds to Fight Leading Killer

The 1951 Heart Fund campaign of the Washington Heart Association, affiliate of the American Heart Association, will be conducted today and Monday, June 25, in the Census Bureau.

Although great strides have been made by the American Heart Association in the last 25 years, in reducing heart disease and suffering through research, education and community service, heart disease is the country's leading cause of death and disability. According to the latest estimates of the National Office of Vital Statistics, 746,854 deaths out of 1,446,000 reported throughout the nation in 1949, were attributed to some form of heart disease.

Division representatives will receive contributions today or Monday and every little bit will help bring about "new hope for hearts."

## Case of the Stopped Clocks!

Just in case you wondered how all the building clocks were started again after the current went off in the terrific storm a few weeks ago (as we did), here's the answer.

Ordinarily, an automatic change-over switch keeps the current flowing from one of two high-voltage electric feeders coming into FOB 3 and FOB 4. For the first time since Census has been located at Suitland, both feeders went out for more than a minute during the storm on the night of June 3, thus stopping the clocks.

Although we have about 265 clocks in FOB 3 and 73 in FOB 4, it is not as staggering a job as you might think to get them all running again, once they have stopped, as all but 40 are on a master circuit, automatically controlled at one point. Using a high-frequency generator, the electricians operate the clocks at 90 cycles per second instead of 60, so that they gain 30 seconds every minute. When the correct time is reached, the clocks go back on normal operation. Each of the 40 clocks which could not be tied into the master circuit, however, do have to be moved ahead individually by the electricians.

According to Building Superintendent Kauffman, you should never try to move the clocks ahead yourself. If they happen to be on the master circuit, they will be fast after the high-speed generator has been applied.

## CSC Exams

The following examination announcements were issued by the Civil Service Commission on after May 8, 1951. If interested, communicate with the Civil Service Commission, Washington 25, D.C., your Regional Civil Service Office, or your Post Office. Employees in Washington will find announcements on official bulletin boards and may obtain applications from the Reception Desk, Bay 1117, FOB 3.

\*No. 293--Office Appliance Repairman; No. 294--Photographer, Microphotographer, Photostat Operator, Blueprint Operator, Blueprint and Photostat Operator, Photo-Production Trainee (Closing Date: July 2, 1951); \*No. 3-35-1 (1951)--Physicists, Chemical Engineers, Mathematicians, Chemists (For duty at the Central Experiment Station, U.S. Bureau of Mines, Pittsburgh or Bruceton, Pa.); \*No. 4-22(T) (1951)--Substitute Clerk, Substitute City Carrier (Post Office Service at Washington, D. C.)

\*No closing date for applying.

Amend. to An. No. 16 Local--Clerk provides for omitting four of the tests making up the examination; Amend. to An. No. 211--Staff Nurse, Head Nurse provides for a maximum age limit of 62 years for Head Nurse positions; Amend. to An. No. 25 Social Worker provides for consideration of blind persons for certain Social Worker positions; Amend. to An. No. 269--Dietetic Intern provides for making appointments on a probational basis; Amend. to An. No. 272--Stenographer-Typist provides for elimination of maximum age limit for all applicants and lowers the minimum age limit for persons living in the Washington, D.C. area; Two Amend. to An. No. 274--Patent Examiner--first, on May 15, 1951, provides for inclusion of positions at grades GS-7 and second, on June 6, 1951, provides for a maximum age limit of 62 years for grade GS-7 positions.

## Census Seminar Under Point IV Program Under Way

A Seminar in Demographic Statistics for technicians of foreign countries is being conducted by the Census Bureau under the Point IV Technical Assistance Program, from June 4 to July 27, in cooperation with other Federal agencies.

The Seminar, under the direction of Dr. C.L. Dedrick, Coordinator International Statistics, was planned in response to many requests from the foreign countries for a brief

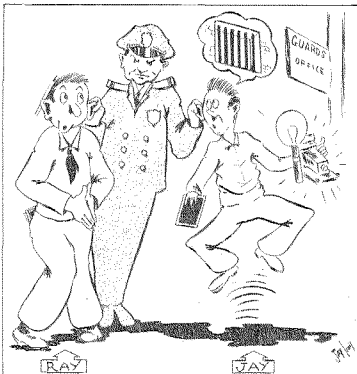
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**ATTENTION, PARENTS:** a summer class in drawing and painting for children 10-15 years of age has been announced by the Corcoran School of Art. The class will run from 9 a.m. - 12 noon, Monday through Friday, from June 18 to July 27, with an instructor present at all times. Tuition is \$35.00. For further information call METropolitan 3211.

## Cameras Banned for Security Reasons

All employees are hereby reminded that wartime restrictions on use of cameras in and around FOB 3, which became effective with issuance of Circular Letter No. 528, Sept. 25, 1942, are still in effect and also apply to FOB 4.

Regulations require permission of both the Director and the Building Superintendent to take pictures of the interior of the buildings or any equipment. (The sad case of Ray Black and Jay Lewis, illustrated below, shows how the Bulletin recently ran afoul of this regulation). Permission of the building Superintendent is required to take pictures of the exterior of the buildings. Calls to obtain such clearances should be directed to Robert Long (Adm/S), Ext. 257.



"No exceptions--not even for the Census Bulletin"

Persons bringing cameras or photographic equipment into the building will be required to leave such equipment in the custody of the Guard Office until they leave the building or obtain the necessary permission to use the equipment.

## Ten Years Ago in the Census Bureau

Then as now--

1) Census was scattered around in several locations--the Commerce Building, Census Building, (2d & D Sts., S.W.) Census Annex, City Club, and a Warehouse at 14th and T Sts., N.W.

2) The spotlight was on sports and recreation activities according to the Census News of June 27, 1941, with tennis, softball, horse-shoes, swimming, moonlight boat rides, and picnics featured.

3) Employment was declining each month with completion of decennial census activities and defense agencies on the increase--

	Employees	
	1941	1951
May 1	8474	9636
June 1	8049	8709

## Carpenter Shop Handy Man's Heaven

If you enjoy being a handy man around your house, you'd probably give a right arm to have a job like C. E. "Barney" Barnhart. He is in charge of the Bureau carpenter shop which is a part of the Mechanical Laboratory of Machine Tabulation Division. He's doing the kind of work he likes best--and getting paid for it.

The average home putterer, looking around the carpenter shop in the fourth wing, first floor of FOB 3, is apt to forget that most of the equipment he sees is too big for his basement workshop. Nevertheless, his longing gaze falls on such items as a lathe; a planer or surfacer, for smoothing rough lumber; a shaper, for making rounded moldings and the like; a radial drill press that drills at any angle; a jointer, for making edges "true;" and a circle saw, a band saw, and sanders. Besides the machinery, there's lumber to work with: plywood in 4' x 8' sheets in all standard thicknesses, and lots more to make a "Mr. Fixit's" joy complete.

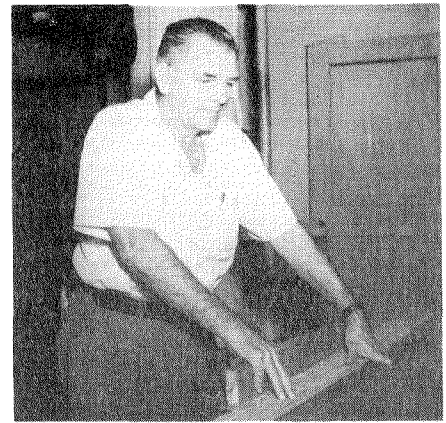
Barney says, "We make anything that can be made of wood." They do just that--last year to the tune of about 28,000 board feet of material, mostly plywood.

### SHOP SAVES MONEY, SPACE FOR BUREAU

The shop has always more than paid its way here in the Bureau. A good example of the savings it makes possible can be seen in a current project. The Bureau's Univac machine in Philadelphia will require storage facilities for 5,000 tape reels. An outside estimate for the job averaged \$1.00 per reel. Barney's shop is building racks of plywood which will cost Census only 6 cents per reel. Multiply 94 cents by 5,000 and you arrive at a considerable saving to the Bureau.

During the decennial census period, the carpenter shop has turned out hundreds of sorting bins, book cases, cabinets, and tables, all made to fit specific needs. One job that resulted in a saving of space in the Geography Division was the construction of specially built map racks which allowed for more storage area in one-third the work space formerly used.

At one time, desks were refinished in the carpenter shop, but this service was discontinued because no suitable dust-free space was avail-



Mr. Barnhart at work

able in which finished desks could be put to dry. The shop still does a thriving business in repairing desks and chairs however.

All of this work is done by Barney and his two helpers, Joseph Sawyer and John Henson.

### CENSUS WON WITH THIRD OFFER

Barney came to work for the Bureau on July 5, 1939. He'd had two offers of temporary jobs in government, which he had turned down. Then the third offer came, from Census, and he decided he'd better take it. Accepting a job in Washington meant pulling up roots in Elyria, Ohio where he had learned the carpentry trade and also served several years as a policeman. But the Barnhart's sold their home, packed their belongings, and were on their way to Washington all within a period of one short week.

As a matter of fact, doing things in a hurry seems to come naturally to Barney. Last fall he built a 96' rambler in nearby Maryland. Working evenings and weekends only, and with the help of his son-in-law, a couple of other carpenters, and some flood lights, he managed to move into his new house in less than two months from the time it was started. His new home is now completed and he's concentrating this spring on raising a garden on part of his 6½ acres. In a couple of weeks, he and his family will be leaving on their annual vacation jaunt to Ontario, Canada for some fishing and outdoor living.

Barney has a son still at home and two married daughters. He is also a proud grandfather of six grandchildren.

### POINT IV SEMINAR - Cont. from p. 2

study program in the fields of population and housing. In addition to individual course work and classes, the Seminar group will visit Endicott, New York for IBM presentations, the United Nations Statistical

Office in New York, and the City Planning Commission of Philadelphia.

Representatives from the following countries are participating: Bolivia; Ecuador; Guatemala; Iran; Pakistan; Panama; Paraguay; and Mexico.



## Decennial Tabulation Office

As we go to press this time, we regret to report that the Decennial Tabulation Office is quietly fading away and we must say "finis" to this column. By June 30, the only employees remaining will be a small staff of 20 to 30 personnel and payroll people necessary for the final clean-up work in closing the office, which will probably occur about the middle of July. In passing, we'd like to mention briefly some of the year's accomplishments:

- Personnel--4715 persons recruited. Peak employment of 3500 reached on November 24, 1950, including persons detailed from Washington.
- Population processing, from June 1950 to May 1951, covered 170,000 ED's and 113 million people.
- Machine Tabulation population punching started August 7, 1950, with 50 operators and reached the peak in April 1951 with 760 operators who punched more than a million cards a day. Total number of cards punched was 100 million.
- Housing punching started August 29, 1950, with 15 operators and reached a maximum of 300 punchers who punched 350,000 cards a day. Total number of cards punched was 34 million.
- Contributions--\$3336 to the United Fund and \$1700 to the March of Dimes.

### UNIVAC - Cont. from p. 1

Univac is the first electronic computing equipment designed for statistical and accounting uses as well as for the solution of complicated mathematical problems. It was constructed to meet specific problems of the Census Bureau in summarizing and computing mass statistics at high rates of speed. The dedication stressed the importance of the Univac to our National economy and particularly to National defense.

A small staff has actually been operating the machine for the past several weeks at the laboratory, where it will remain for about a year before being brought to Suitland. In spite of its rapid calculations, such as the digesting of all data recorded for an individual in the census in one-sixth of a second, and its "mercury memory" which can store tens of thousands of electrical impulses for future use, a single Univac is inadequate to tabulate the census information for the entire population of 150 million people. Most 1950 Census tabulating will be accomplished through the use of punched card equipment similar to that originally developed at the Census Bureau a half-century ago. The Univac will be used, however,

to prepare tabulations for a selected group of states.

The minimum cost of duplicating this "electronic slave"? About \$600,000!



### Personnel Notes

Mrs. Ferdie Lewandowski, Personnel Officer of the Decennial Tabulation Office in Philadelphia, was on detail in the Washington Personnel Division for the week of June 11-15.

### Retirements

Recently retired were Effie L. Henry (Business) on April 30, Hubert R. Green (Govts.) on May 31, and on June 1, Frances C. Kersey (Ind.) and Arthur J. West (Admin. Ser.).

### Honors

Miss Anne Louise Jones, daughter of Mrs. Martha A. Jones (Mach. Tab.) was chosen queen from among six finalists to reign over the Greater-Southeast Washington festivities held on June 10, sponsored by citizens and business men of the Southeast area. Miss Jones, who is a student at Chamberlain Vocational School, will reign for the next year.

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### Canadians Are Being Counted This Month

June 1st was "C" day for our Canadian neighbors. The United States, along with many other countries, is particularly interested in Canada's ninth decennial census, for it may revolutionize the age-old methods of census-taking. Representatives from several divisions in the Bureau accepted Canada's invitation to observe training of enumerators and certain other census operations.

Enumerators in Canada will collect information on population, housing, agriculture, commercial fishermen, and several other subjects, using "mark-sense" forms, which are cards about 7 inches square. The enumerator will use a special electrographic pen to mark the right space on the card, instead of writing out full answers.

The cards will be fed directly into a machine which will "read" the enumerator's entries and punch them for tabulating. Hand punching is eliminated. This electronic statistical machine is one of the wizards among machines, as it will reject cards containing errors. The special

coding and punching processes have been decentralized to six centers and the final tabulation will be done in Ottawa. The count by municipality is expected to be available December this year and the complete report by March 1953.

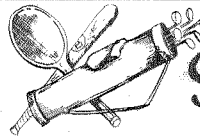
### SOME OF THE PROBLEMS

Taking the Census in Canada is complicated by the fact that the many French residents are entitled by law to be enumerated in French if they so choose. This means that all of the forms and instructions have to be printed in both French and English and many of the enumerators must be able to speak both languages. The results also must be published in both languages.

Another problem is covering the great "northwest" territory where the population is only a few persons per 100 square miles. Here the job is turned over to the Royal Canadian Mounted Police who patrol this area and during June will add taking the census to their other duties.

Training of enumerators was organized very much the way it was for the 17th Decennial Census. Chief instructors trained master trainers, who trained local supervisors, who trained 20,000 enumerators.

The Bureau is watching the Canadian census carefully for possible application of marked sensing to future censuses and surveys it will conduct.



## SPORTS

● Horseback Riding--for information call John C. Ritter, (For. Tr.), Ext. 434, chairman of the Horseback Riding Unit of the Recreation Committee.

● Golf--22 persons had signed up for the golf tournament by June 13. All golfers--men and women--are urged to enter. Prizes are on display in the Suitland cafeteria.

● Tennis--the tennis clinic for beginners and relatively inexperienced players began on June 12 to run through July 6. Instructors are members of the Census Team. Call James G. Stockard, Ext. 525, for information.

● Bowling--Census Men lost in the third round of the Interdepartmental Bowling windup, but reached the semifinals. The Census Women's team was eliminated in the first round.

Never underestimate the power of a suggestion. Top management considers all suggestions at length and adopts those that are feasible.

None of us are as smart as all of us. That's the reason for suggestion programs.