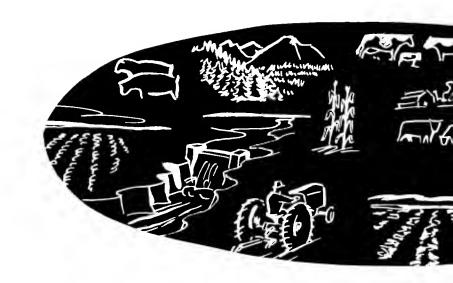




34			

•		
	(3) (1)	

METHODS and PROCEDURES



SPECIAL REPORTS



1954
Census
of
Agriculture

7.0

U. S. Department of Commerce Sinclair Weeks, Secretary

Bureau of the Census Robert W. Burgess, Director

United States Census Agriculture: 1954

Volume III SPECIAL REPORTS

Part 12

Methods and Procedures

NOV 5 - 1957

Boston Public Library 93 / 3 / 3/ Superintendent of Documents

Prepared under the supervision of

RAY HURLEY

Chief, Agriculture Division

HOW THE CENSUS WAS TAKEN . DESCRIPTION OF **METHODS AND PROCEDURES •**



A 9317, 3170 31

BUREAU OF THE CENSUS

ROBERT W. BURGESS, Director

A. Ross Eckler, Deputy Director

HOWARD C. GRIEVES, Assistant Director

ROBERT Y. PHILLIPS, Special Assistant

CONRAD TAEUBER, Assistant Director

JACK B. ROBERTSON, Special Assistant

MORRIS H. HANSEN, Assistant Director for Statistical Standards

WALTER L. KEHRES, Assistant Director for Administration

CALVERT L. DEDRICK, Coordinator, International Statistics

A. W. VON STRUVE, Acting Public Information Officer

Agriculture Division-

RAY HURLEY, Chief

WARDER B. JENKINS, Assistant Chief

Administrative Service Division—Everett H. Burke, Chief

Budget and Management Division—Charles H. Alexander, Chief

Business Division-Harvey Kailin, Chief

Census Operations Division-Marion D. Bingham, Chief

Field Division-ROBERT B. VOIGHT, Chief

Foreign Trade Division-J. Edward Ely, Chief

Geography Division-Clarence E. Batschelet, Chief

Governments Division-Allen D. Manvel, Chief

Industry Division-Maxwell R. Conklin, Chief

Machine Tabulation Division-C. F. VAN AKEN, Chief

Personnel Division-Helen D. Almon, Chief

Population and Housing Division-Howard G. Brunsman, Chief

Statistical Reports Division-Edwin D. Goldfield, Chief

Statistical Research Division-William N. Hurwitz, Chuf

Transportation Division-Donald E. Church, Chief

SUGGESTED IDENTIFICATION

 U. S. Burcau of the Census. U. S. Census of Agriculture: 1954. Vol. III, Special Reports, Part 12, Methods and Procedures
 U. S. Government Printing Office, Washington, D. C., 1956.

PREFACE

Volume III, Special Reports, comprises one of the volumes presenting final summaries and results for the 1954 Census of Agriculture. The purpose of Part 12 is to outline the methods and procedures used in taking and compiling the results of the 1954 Census of Agriculture.

Since 1920, the Bureau of the Census has taken once each 5 years a Census of the Nation's farms and agricultural production. The increasing complexity of agriculture, and the accelerated rate of agricultural changes, resulting from increased technological developments and mechanization, have made the taking of a Nationwide Census of Agriculture a complex and difficult task. This report describes briefly the methods and procedures devised and used for meeting the many problems involved in the 1954 Census of Agriculture of the United States.

This report was prepared under the supervision of Ray Hurley, Chief, Agriculture Division, and with the assistance of Orvin Wilhite, J. Thomas Breen, and Henry A. Tucker.

December 1956

III

UNITED STATES CENSUS OF AGRICULTURE: 1954

REPORTS

Volume I.—Counties and State Economic Areas. Statistics for counties include number of farms, acreage, value, and farm operators; farms by color and tenure of operator; facilities and equipment; use of commercial fertilizer; farm labor; farm expenditures; livestock and livestock products; specified crops harvested; farms classified by type of farm and by economic class; and value of products sold by source. Data for State economic areas include farms and farm characteristics by tenure of operator, by type of farm, and by economic class. Volume 1 is published in 33 parts.

Volume II.—General Report. Statistics by Subjects, United States Census of Agriculture, 1954. Summary data and analyses of the data for States, for Geographic Divisions, and for the United States by subjects.

Volume III.—Special Reports

- Part 1.—Multiple-Unit Operations. This report will be similar to Part 2 of Volume V of the reports for the 1950 Census of Agriculture. It will present statistics for approximately 900 counties and State economic areas in 12 Southern States and Missouri for the number and characteristics of multiple-unit operations and farms in multiple units.
- Part 2.—Ranking Agricultural Counties. This special report will present statistics for selected items of inventory and agricultural production for the leading counties in the United States.
- Part 3.—Alaska, Hawaii, Puerto Rieo, District of Columbia, and U. S. Possessions. These areas were not included in the 1954 Census of Agriculture. The available current data from various Government sources will be compiled and published in this report.
- Part 4.—Agriculture, 1954, a Graphic Summary. This report will present graphically some of the significant facts regarding agriculture and agricultural production as revealed by the 1954 Census of Agriculture.
- Part 5.—Farm-Mortgage Debt. This will be a cooperative study by the Agricultural Research Service of the U. S. Department of Agriculture and the Bureau of the Census. It will present, by States, data based on the 1954 Census of Agriculture and a special mail survey conducted in January 1956, on the number of mortgaged farms, the amount of mortgage debt, and the amount of debt held by principal lending agencies.
- Part 6.—Irrigation in Humid Areas. This cooperative report by the Agricultural Research Service of the U. S. Department of Agriculture and the Burcau of the Census will present data obtained by a mail survey of operators of irrigated farms in 28 States on the source of water, method of applying water, number of pumps used, acres of crops irrigated in 1954 and 1955, the number of times each crop was irrigated, and the cost of irrigation equipment and the irrigation system.
- Part 7.—Popular Report—The American Farmer in 1954. This report is planned to be a general, easy-to-read publication for the general public on the status and broad characteristics of United States agriculture. It will seek to delineate such aspects of agriculture as the geographic distribution and differences by size of farm for such items as farm acreage, principal crops, and important kinds of livestock, farm facilities, farm equipment, use of fertilizer, soil conservation practices, farm tenure, and farm income.
- Part 8.—Size of Operation by Type of Farm. This will be a cooperative special report to be prepared in cooperation with the Agricultural Research Service of the U. S. Department of Agriculture. This report will contain data for 119 economic sub-

regions (essentially general type-of-farming areas) showing the general characteristics for each type of farm by economic class. It will provide data for a current analysis of the differences that exist among groups of farms of the same type. It will furnish statistical basis for a realistic examination of production of such commodities as wheat, cotton, and dairy products in connection with actual or proposed governmental policies and programs.

Part 9.—Farmers and Farm Production in the United States.

The purpose of this report is to present an analysis of the characteristics of farmers and farm production for the most important types of farms as shown by data for the 1954 Census of Agriculture. The analysis deals with the relative importance, pattern of resource use, some measures of efficiency, and problems of adjustment and change for the principal types of farms. The report was prepared in cooperation with the Agricultural Research Service of the U.S. Department of Agriculture.

The list of chapters (published separately only) and titles for each chapter are as follows:

Chapter I—Wheat Producers and Wheat Production II—Cotton Producers and Cotton Production

III-Tobacco and Peanut Producers and Production

IV—Poultry Producers and Poultry Production

V—Dairy Producers and Dairy Production VI—Western Stock Ranches and Livestock Farms

VII—Cash-Grain and Livestock Producers in the Corn Belt

VIII-Part-Time Farming

IX—Agricultural Producers and Production in the United States—A General View

- ✓ Part 10.—Use of Fertilizer and Lime. The purpose of this report is to present in one publication most of the detailed data eompiled for the 1954 Census of Agriculture regarding the use of fertilizer and lime. The report presents data for counties, State economic areas, and generalized type-of-farming areas regarding the quantity used, acreage on which used, and expenditures for fertilizer and lime. The Agricultural Research Service cooperated with the Bureau of the Census in the preparation of this report.
- √ Part 11.—Farmers' Expenditures. This report presents detailed data on expenditures for a large number of items used for farm production in 1955, and on the living expenditures of farm operators' families. The data were collected and compiled cooperatively by the Agricultural Marketing Service of the U.S. Department of Agriculture and the Bureau of the Census.
- √ Part 12.—Methods and Procedures. This report contains an outline and a description of the methods and procedures used in taking and compiling the 1954 Census of Agriculture.

CONTENTS

Chapter	I—Planning and Preparing for the Census	Page 7
Chapter	II—The Enumeration	19
Chapter	III—Central Office Processing and Publication	51

TACT			
		.2.	

CONTENTS

	Page
Planning the Agriculture Questionnaire	7
Selecting the questions	7
Establishing enumeration districts	7
Funds for the Census	12
The time schedule	12
ILLUSTRATIONS	
The Agriculture Questionnaire (Form A1)	8
Enumeration starting dates, by areas: 1954 Census of Agriculture	14

Chapter I—PLANNING AND PREPARING FOR THE CENSUS

The planning for the 1954 Census of Agriculture was performed largely by staff members with experience in connection with one or more prior Censuses of agriculture or other Censuses. The results of the prior Censuses were available to this staff in the form of published reports, staff appraisals, records of work performed, and copies of detailed procedures, and these were used as a basis for planning.

Planning the Agriculture Questionnaire.—Planning for the questionnaire content began in connection with the sample Census of Agriculture taken in 1953 in the States of Virginia and Utah. The questions proposed for the 1954 Census were pretested in this sample Census taken in October–November 1953. This pretest involved the use of about 130 enumerators and the enumeration of approximately 7,600 farms scattered throughout the two States. The work of the enumerators during this pretest was observed by technical staff members, the questionnaires were edited and coded, tabulations were made, and reports presenting data from this pretest were published in March, 1954.

Selecting the questions.—The questions included in the 1954 Census of Agriculture were selected from requests and suggestions received from many sources, such as the United States Department of Agriculture, State Agricultural Colleges, farm publications, farm organizations, individuals, etc. The first list of questions deemed by the technical staff of enough importance to be considered for inclusion in a Nationwide Census of Agriculture was prepared in April 1953.

The selection of questions to be included in the Census was made on the basis of the advice and recommendations of a special advisory committee appointed by the Director of the Bureau of the Census. This special advisory committee included persons recommended by, and representatives of the following organizations:

Associations of Land Grant Colleges and Universities National Association of Commissioners, Secretaries, and Directors of Agriculture

American Farm Bureau Federation Agricultural Publishers Association

Farmers Educational and Cooperative Union of America

Farm Equipment Institute

National Grange

The American Farm Economics Association

Census Advisory Committee, American Statistical Association

United States Department of Agriculture

National Council of Farmer Cooperatives

In selecting questions to be included in the Census, the special advisory committee and the technical staff gave consideration to the possibility of obtaining satisfactory information more efficiently in some other way than through the Census of Agriculture, to the adequacy of the information that might be obtained through the Census, to the availability of data from other sources, to the usefulness of the data, and to the cost of securing and compiling the information. A reduced facsimile of an Agriculture Questionnaire (A1) appears on pages 8 to 11.

The special advisory committee also made recommendations regarding the publication of data for the Census, and the making of special surveys and reports in connection with the Census.

Establishing enumeration districts.—In order to secure the complete coverage of all areas, and to make assignments of work to individual enumerators, it was necessary to divide the area of the United States into small areas, called enumeration districts. The size of these small areas was determined by the amount of work each enumerator was expected to perform and by boundaries of existing local minor civil divisions, such as townships, districts, etc. Generally, it was planned to establish enumeration districts that would provide 150 to 160 hours of work for each enumerator. Usually, enumeration districts contained all of one or more minor civil divisions. Records of the work time, number of farms, and number of dwellings as shown by the 1950 Censuses of Agriculture, Population and Housing were used as a basis for estimating the workload for proposed enumeration districts. Enumeration districts were established so that all parts were contiguous and so that natural barriers would not impede travel. Generally, incorporated places, unincorporated places, and urbanized areas having a population of 1,000 or more in 1950 were made separate enumeration districts. Likewise, incorporated and unincorporated places of less than 1,000 population were made separate enumeration districts if they had relatively few farms and more than 150 dwelling units in 1950.

In 37 out of the 48 States, enumeration district boundaries were established to conform to existing boundaries of townships or similar minor civil divisions. In 5 States, enumeration district boundaries conformed only in part to boundaries of minor civil divisions as the enumeration district boundaries were drawn along township or section lines, roads, or streams. In 5 States, permanent statistical areas had been established using natural features as boundaries and these areas or combinations thereof were used as enumeration districts.

The total number of enumeration districts established was 41,221 of which 11,127 were for incorporated or similar urban places. The 30,094 enumeration districts outside of urban areas contained an average 153 farms each. The 11,127 enumeration districts for urban areas contained approximately 170,000 farms or an average of 15 farms each.

Base maps for use in indicating enumerators' districts were obtained generally from State Highway Departments. For areas with a high concentration of farms, the enumerators' maps were on a scale of approximately 2 inches per mile. For sparsely settled areas, the enumerators' maps were on a scale of one-fourth inch per mile. Blue line prints were made of these base maps for use in outlining enumeration districts. The boundaries of the enumeration districts were indicated with a colored pencil on the enumerators' maps. These maps usually covered areas somewhat larger than the enumeration district so as to facilitate their use by enumerators in determining location of the enumeration district boundaries. In order to maintain records and controls for enumeration districts, each enumeration district was assigned an identification number. This identification number contained two parts-one part identified the county and the other part identified the enumeration district within the county. Each enumeration district also contained a label, that identified the name, if any, of the area comprising the enumeration district.

METHODS AND PROCEDURES

This inquiry is authorized by Art of Congress 146 Stat 21; 13 USC 201-2181 which requires that you file a report. Your report is accorded ranfidential greatment, subject to the provisions of law, 3.

FORM A1	U S DEPARTMENT OF COMMERCE—BURI	EAU OF THE CEMS	us.	Section IIICROPS H.	ARVESTED T	HIS YEAR, 195	4		OFFICE E ONLY
	CENSUS OF AGRICULTURE	105	А	Report all crops harvested, or to be for question 11) acres. If you rent share.	harvested, thi land from othe	e year from these re on shares incl	ude landlord's	C-1	No.
A2 line number	QUESTIONNAIRE:	195	4	CORN AND SURGHUMS					
(This box to be filled by Cersus Enumerator)			Office		(1)	(2)	(3) How much of this year's		
Section	IPERSON NOW IN CHARGE		Office Use Only	For each crop, onswer these	How many acres were or will be	How much was or will be harvested?	will be sold? Include land lord share as		
(If a member of the fau in charge, please be sure t	nly or anyone else fills this questionnaire f hat all the information is given FOH the	or the person PERSON IN			harvested?	harvested?	that used for		
L. What is your name? Person in charge:		(Lasti		ach.	Acres		this place)		Color
2. What is your address		(Last)		CORN: 16. CORN for ALL PURPOSES this year?	*	x x x	x x x	_	1
	(Route or street number) (Post O	ffice) (State)		(De not include sweet corn, popcorn, broom corn, kafir, or mile maite)			-		2
3. What is your race? (Check one)	(b) Negro (c) Other, What race?			horvested, check and skip to question [17].	Ì				3
				(a) CORN for GRAIN? (70 lb. ear corn or 56 lb shelled corn=1 bu Report		Bu (Shelled basis)	Bu		Tenure
Section II.—OWNERSHIP	, RENTAL AGREEMENT, AND LOCATION	ON OP LAND		shelled corn = 1 bu Report corn hogged off in question (c), not here)					1
OWNED LAND 4. How many acres of in	and do you OWN?	Whole scree		(b) CORN for SILAGE? .		Tone	xxx		2
ALL LAND OWNED	in one tract of land, INCLUDE Include not only cropland but			(r) CORN hogged or grased, or eut for green or dry fodder (ears not husked or					3
also pastureland, woodla	d is owned, there the sounce for			snapped)? (The total of the scree for questions far, (b), and (c) must equal the acres for question its)		X X X	x x x	<u> </u>	4
"None" about									5
5. Do you have a grazi	ing permit (From the U. S.			SORGHUMS: (Kafir, milo, hegari, amber, orange, atlas, "redtop,"				C-2	6
under Guvernment Permit rented, but livestock on included in this report)	are not to be included as land these permit lands should be D No	x x x		etc.) [17] SORGHUM for ALL PURPOSES except					7
included in this report;	☐ Yes			ALL PURPOSES except strup this year? None (Report ewest weighten for strup in question 40	*	$\mathbf{x} - \mathbf{x} - \mathbf{x}$	x x x	-	6
 How many acres of lar including any worked on st (Include any separate 	nd do you RENT FROM others, hares *			If "None," check and skip to question [18].					0
woodland, wasteland, (school, railroad, and othe you rent free)	etc Include Federal, State, er land leased and land used by			(e) SORGHUM for grain or seed?		Bu	Bu		9
If "None,"	check and skip to question [9].			(b) SORGHUM for SILACE?		Tons	x x x		0
(a) Give the following in	nformation for each landlord			(c) SORGHUM hogged or grazed, or cut for dry forage		Tons cut	Tons of hay or forage	-	Irrigation
Name a	nd address of landlord	How many acres are		or hay? (The total of the acres for questions (a), (b), and (r) must equal the acres for question 17 †	•	(Dry weight	Totage		1
(or employer if the pli	ace is operated by a hired manager)	rented from each landlord?		SMALL GRAINS			-	C-1	2
				WERE ANT OF THE	(1)	(2)	(3) How much of this year's crop		3
(Name)	(Post Office) (State)	(Acres)		FOLLOWING GRAIN CROPS THRESHED OR COMBINED THIS YEAR—	How many				X
(Neme)	(Post Office) (State)	Acres		For each crop, onswer these	harvested?	harvested?	was or will be aoid? (Include landlord a share as sold ex- cept that used for (ced or seed on this place)		Class
	nder REMARKS Total acres for all lace equal total for question 6)			questions .	Acton		on this place)		1
7 Does the landlord full	rnish ALL the work animals or tractor p	ower		together and threshed as a MIXTURE? Non- (Wheat and oats, wheat and barley, wheat and	*	Bu	Ru	001	2
(as a part of his share in th	he operation of this place)?	{ No		rye oats and barley :		Bu,	Ви	002	3
8. (a) Do you pay t	o your landlord any cash as rent?	{☐ No Yes		20. OATS? . None		Bu	Hu	907	4
(b) Do you pa to (Such as 1, 1,	o your landlord any share of the crops?	{☐ No Yes		21. BARLEY' None 22. OTHER GRAIN	* *	Bu	Ru	010	5
(e) Do you pay t	to your landlord any share of the livestor	k or {☐ No Yes		threshed? Emmer, flaxseed, rye, spelt (Underline kind)	* *	Bu	Bu	017	6
(Such as 1, 1,					PERT BEAV				7
(Such as a fixe buildings, pas	this land under any other arrangement? ed quantity of any product, upkeep of land yment of taxes, keep of landlord, rent free,	land\□ Yes etc)		SOYBEANS, DRY FIELD AND COWPEAS, AND PEANUTS	SEED BEAN		(2) How much		8
LAND MANAGED FOR	OTHERS	Whole acres		For each crop, answer these questi	ons -	How many acres were grown?	was or will be harvested?		9
[9] How many acres of HIRED MANAGER?	do you operate for others as a None					Acres	-		Туре
(Enter the name and question 6 (a))	address of the employer under			23. SOYBEANS for ALL PURP this year?	□ No	ne 🖈	_ x x x	100	1
LAND RENTED TO OT				If "None," check and question [24]. (a) SOYBEANS for BEANS?			Bu	101	2
ing land worked on shares	e RENTED TO others, includ- by croppers or tenants?		i	(b) BOYBEANS for HAY?			Tons	102	3
worked by members of y	our household with your equip- sidered as rented to others)			(c) SOYBEANS hogged or grazed, of		.	_ x x x	101	4
	erk and akip to question [11].			(d) SOYBEANS plowed under for out grazed or otherwise harves (The total of the errel for questions must equal the acres (or question 21)	sted? (a), (b), (c), and (d)	_ x x x	104	5
(a) Of the acreage rented 10), how many acres	d to others (reported in question are sumed by you?			[24] DRY FIELD and SEED B	EANS				6
Acres in This Place:				other than sovbeaus and mung bean BEANS this year? (Pinto and other Report mung beans unde	s for	ne ne	100-lb. bags	116	7
[11] Adding acres owns then subtracting acres rented (Question 4+question)	i to others, we get	Acres in	4/////	25. COWPEAS for ALL PURPOS	SES	-			8
if managed question 9	- question 16.)	this place		(except for fresh market, or for caim freezing, or other processing) this yes (laclude blazzyes, crowders whippoorwill Report those sold for fresh market, or to cann processors under question 47)		me *	x x x	105	_
This is the land for which or to be harvested this yea	h we want a report of the crops harvested ar			Report those sold for fresh market, or to cann processors under question 47) If "None," check and question [26].	ets freezers, or oth	er			9
LOCATION OF LAND				question [26]. (a) COWPEAS for DRY PEAS?			Ru	106	0
outside of this county?	ocated No If "No," check and ak to question [13].	ıp		(b) COWPEAS for HAY?			Tons	107	X
(a) How many acres are	e in this county?	(Acres)		(c) COWPEAS hogged or grazed, or (d) COWPEAS played underfor g	reen inanure ii	ot	_ X X X	109	V
				grazed or otherwise harvested (The total of the acres for questions must equal the acres (or question 2)	1m1, (b), (c), and (45 ·	XXX	169	REGION
(Name of county)		(Acres)	-	[26] PEANUTS for ALL PURP	OSES			11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	17
	E OF PERSON IN CHARGE.	[□ No	^	this year? If "None," check and	. 🗆 No	ne *	_ x x x	116	N. Mex.
[13] Do von live on the		☐ Yes	_	question [27]. (a) PEANUTS for picking or three	mhing?		Lb	111	Okla.
14. How old were you u		(Yeset)	-	(b) Vines or tops which were ut HAY or FORAGE.	will be saved i	Turing Turing	Tons	112	West Tex
15. When did you begin (Denot report month if you be	to operate this place 9 (Month)	(Year)	- <u>-</u>	HAY or FORAGE.' Include tops or vines saved after pick cut, and whole plants saved for has be included to the acres to ported in qu	This acreage may a	žinu l		1	

PLANNING AND PREPARING FOR THE CENSUS

r Census report will be used for statistical purposes only o	and cannot be used for put	poses a	figuration, investigation, or regulation.		Buresu	of the Budget No al expires December
HAY CROPS. If two or more cuttings.		C-3	TREE FRUITS, NUTS, AND GRAPES			
count the acres only once but give (1)	(2) (3) How much of		[50] Are any fruit or nut trees or grapevines on this place?	- 1	If "No," ch.	rck and skip to
WEBE ANY OF THE FOLLOWING HAT From how many acres to the each kind of hay cut, answer the west to be vest?	How crop was or will be sold? cut? share as noid except		(a) Are there as many as 20 fruit and but trees and grapevines of all kinds	' '	If "No," chi question [6	eek and skip to
these questions	share as sold except that used for leed on this place.)		51. How much land is in bearing and orchards, groves, vineyards, and planted in (Report tenths of an acre, such as $\frac{1}{12}$, 1	[□ Yes	fruit Acces	
[27] ALFALFA and Acres 10 ALFALFA MINTURES 10 None to	TonsTons	022	(Report tenths of an acre, such as 4s, 1 include herry acreage or nurseries) Which of the Following Kinbs of	(1) How	(2)	(3)
28. CLOVER, TIMOTHY, nd mixtures of clover and rasses FOR HAY? [Proof westcover cut for hay in question 32.1]	Tons	023	FRUIT AND NUT TREES ARE ON THIS PLACE—	many are trees or	How many are trees or	How much was harvested
29. LESPEDEZA FOR	Tons Tons	924	Far each kind, answer theor questions	NOT of bearing age?	vines of bearing age 3	thus year?
30. OATS, WHEAT,			52. APPLES?	Nember	Nember	Bu
nall grain cut FOR HAY? None * Include outs cut when ripe or nearly ripe for feeding threshed)	Tons	026	53. PEACHES? 54. PEARS?			Bu
31. WILD HAY (prairie, nge, or marsh grass) cut DR HAY	Tons Tons	927	55. CHERRIES*			Lb.
	Tons Tons	629	56. PLUMS and PRUNES?			Bu
32. Any OTHER HAY? Nome * Inhason grass, miller, old meadows, Sudan grass, etclover, vrich, winter peas)			57. APRICOTS*			Bu
LFALFA SEED, CLOVER, GRASS, AND OTHER	FIELD SEED CROPS:		58. GRAPES' 59. IMPROVED PECANS'			Lb
33. Were any alfalfa seed, clover seed, grass No Ij	"No," check and skip to question [38].		(Budded, grafted, or top-worked) 60. WILD or SEEDLING PECANS?			Lb.
(Report production on a "clean seed" basis)			61. OTHER PLANTED TREE FRUITS and NUTS'			LD
34. How much ALFALFA SEED was arvested? Acres *	Pounds	030	(Give name) Figs, nectarines, Japanese persimmons, p	olanted walr	uto.	(Oive quantity and unit of measure)
35 How much SWEETCLDVER SEED as harvested? Acres *	Pounds	833	[62] Are there any other crops (not mor will be harvested this year on this place	entioned be		vere (No
36. How much VETCH SEED was arvested * Acres ★	Pounds	037	and seed peas, melons for fred, mung bea crops hogged or grazed (other than co legumes), sugar-beet seed, sunflower seed	ns, popcorn	, root and g	rain (
37. What OTHER FIELD SEED CROPS are harvested?			If "Yes," give the name of the crop, acre sales		tity harveste lue of t hi s	
(Otre name) Acres 🖈	Pounds		Acres	ye ac	ara erop old or to be sold •	\$ /00
(Oivename) Acres * Bluestem, grama grass, millet, lespedeza, red clover, S	Pounds		(Give name) (Give quint of c	antity and Dradure)		(Dollars only)
OTTON, FOTATOES, AND OTHER CROPS			Section IV.—LAND USI 63. (Copy arres from question II)	E THIS YE	AR, 1954	
HICR OF THE FOLLOWING CROSS WERE HOW HARVESTED THIS YEAR—	many acres		Now we want to distribute the ACRES	IN THIS P	LACE	
For each crop, unswer these questions	rvested? port teoths an acre, if lled for) How much was or will be harvested?		according to how they were used this year accounted for a field or plot do not coun Be sure to account for all the land Give CROPLAND	t this land only whole	again acres	Acres
	Acres	270	64d From how many acres of land w HARVESTED (including hay cut) this ye (This area may be obtained by adding the	ere CROPS	S None	
[38] Cotton? None *_	Tons of		fields from which one or more crops were hav was cut this year acres in nonbearing planted tree fruits, nuts, and grapes, and ac	harvested : g and bearit	or ng	
39. Broomeorn? None * 40. Sugarcane or Sorghum	brush	273	and greenhouse products !	Ac		
ir Strup? None * 41. Irish potatoes for home use if for sale? None *	. 10 Bu	286	(1) Add acres of all crops (with \$\frac{1}{2}\$ in Section 1 and VI) and enter total here (2) From how many acres of land were	1		
(If less than 20 bushels were harvested, do not sport acres)	10		crops harvested this year? (Do not count here two cuttings of the same hay cro (31 Subtract the acres for (2) from (1)	.p.	_	
42. Sweetpotatoes for home use or neade? \(\sigma\) None (if less than 20 hushels were harvested, do not sport acres)	Ви	237	enter difference here (This entry should be within three acre the acres shown for question 64a)			P 84mc)
EGETABLES FOR HOME USE AND FOR SALE		A	645 How many acres of cropland were a	used only fo	r None	e ib
43. Were any vegetables, sweet corn, or melons hard		-	64c. How many acres of eropland were summer fallow this year?	n eultivated	_	
(a) For bome use*		L	64d How many acres of cropland ha		n D Nome	1 2
	f Na," check and skip to question [49].		(Include idle land, land in soil-impro- only, and land on which all crops failed) WOODLAND	vement cro	pa pa	The
IOW MANY ACRES WERE OR WILL BE HARVESTED THIS			(Include as woodland all wood lots and and cutover land with young trees which have value as wood or timber!	n have or w	ill	
(Report tenths of an acre, such as $\hat{\eta}_1, \hat{\eta}_2, \hat{\eta}_3, \hat{\eta}_4$), $\hat{\eta}_3$, etc. If the same crop were made, either on the same land on the total harvested arres of the several plantings. In arvested from land from which other crops were also hear	r on different land, report sclude acres of vegetables arvested)	C-3	650. How many acres of woodland were grazed) this year			
Acres and lenths	Acres and to the		656 How many acres of woodland were for grazed) this year? OTHER LAND		□ None	
nockmelons? w 136 below	er? (See list		66. How many acres were in other cropland pasture and not woodkind pasture and not woodkind pasture are in the form of the for	rei *	t □ None	
10	ive name) #		(a) Of this other pasture, how man- do you consider to be Improved	panture?	None	
45. Dry onlone? * 133	ire name: #	-	(Improved by Immg, fertil grasses or legimes, irrigating, controlling weeds and brush I	draining	ur by	
46. Watermelons? * 140	ve name! #	-	[67] How main acres were in house to laises, roads, ditches, and wasteland? Add these acres (questions 640, 646, 64		☐ None	•
10	ise name) # 10	1	65b, 66, and 67: and enter the total here			Acres
Statu benis, bush and Culliflower Blacker mad claylet Speri corn S	other Spinach a Squaab hill Tomators Turnips and		Section V.—IRRIGATION, LAND-USE THIS YEA 68 Of the land from which crops were	R, 1954	erwitted	INSERVATION
48. What was the calue of all segetables SOLD of	. TO		in question 64al, how many acres were year 1 If Vone, check and skip			None (Arres)
E SOLD this year? include landlerst's there— Po not include the value of Irish pulaties and	Oollars egly:	141	191 Aresthere and crops that were not			rck and skip to
BERRIES AND OTHER SMALL FRUITS			rrigated? drayested or to be harvested this year i	- 1 to	If "Yes, an	iswer the (b) part
[49] Were any berries or other small No I	f No," check and skip to guestion [50]		(b) What are the names of crops that b	l gd the entir	of this que.	rfeon.
Give the name of each and the acres and quantity bar provided below	rvested in the spaces		It all on hard was inviral. It report. Orchard.	as title (20p +	3	
(Report tenths of an acre, such as 点, 点 1点, etc. 4 rea.)			[69] Of the land used only for pasture	or grazing	removed.	Acres
(Give tame)	Quarts		in questions 64%, 65%, and 66% how prigated the year? 70 How many acres of ROW CROPS	ir CLOSE-S	TIDED	Notice _
Stres *	Quart-		CROPS were grown on steps this year for y 71. How many sortes of crophend used i	and cremn	randrol* 🗌	None
Oackberries, boyscuberries, strawberries		1 1	1 ROPS the year are fatured on the con-	Louis *		Name

 ${\bf Figure~1.} {\bf — The~Agriculture~Questionnaire~(Form~A1) — Continued.}$

METHODS AND PROCEDURES

Section VI.—FOREST PRODUCTS AND PRODUCTS THIS	NURSERY AND GREENHOUSE	Office Use Only	GOATS AND KIDS, AND MORAIR CLIPPED	,	Office Use Only
FOREST PRODUCTS	,	Unity	[85] How many GOATS and KIDS of all ages are on thus place? None	-	No.
72. Was any firewood, fuelwood, fence lumber, or other forest products cut this ye home use or for sale?	poets, No If "No," check and skip to question [74].	a	If "None," check and skip to question [84]. OF THIS TOTAL— (o) How many are ANGORA GOATS and KIDS?		
(a) How many cords of FIREWOOD and FUELWOOD were or will be cut this y	(□ Y:m	•	(b) Row many are OTHER GOATS and KIDS? (The total for questions (o) and (b) must equal the number	<u>-</u>	
this place? (b) How many FENCE POSTS were or will	None Cords	-	for question 85 /		
this year on this place?	None Number	-11	[86] How many goato and kids were CLIPPED this year?	-	0.1
 How much was or will be received the from the sale of firewood, fenre posts, logs, is pulpwood, piling and poles, bark, bolts, Chr. 	umber, ristmae		If "None," there and skip to question [87]. (a) How many POUNDS of MOHAIR and KID HAIR were CLIPPED this year (1954) niculting both spring and fall		Color 1
trees, hewn tirs, mine timber, and other misrell. forest products?	sold • \$00	-	shearings?	₹_	2
NURSERY AND GREENHOUSE PRODUC SEEDS AND PLANTS, AND SULBS	TS, FLOWER AND VEGETABLE		MULES AND HORSES: [87] How many MULEB, HORSES, COLTS, and PONIES are on this plane?	1	3
[74] Were any nursery or greenhouse products, flower or vegetable seeds or plants, flowers, or bulbs grown tor sale	No. If "No," check and skip to guestion [78].		PONIES are on this place?	-	Tenure
plants, flowers, or bulbs grown for sale this year?	Yes		OF THIS TOTAL— (o) How many are MULES and MULE COLTS?		1
	(1) (2) Area Report tenths of an How much was		(b) How many are HORSES and COLTS, including ponies? (The total for questions (o) and (b) must equal the number	<u></u>	2
	acre, such as 15. or will be the value of sales?		(or question 97)		3
75 How many acres of NURSERY PRODUCTS (trers, shrubs, vines, ornamentals, etc.) did you have this year?	Dellare (90)		HOGS AND PIGS [88] How many HOGS and PIGS of all ages, including		4
74 Hon many CUT FLOWERS	Acres *		sows and boars, see on this place? None None	-	5 6
POTTED PLANTS, FLORIST GREENS, and SEDDING PLANTS were grown this year for asle—			(a) How many were born since June 1, this year?		7
, , ,	Acres #		(b) How many were born before June 1, this year?. (The total for questions (o) and (b) must equal the number	<u> </u>	8
77. How many of the following were produced this year for sale? Vegetables grown under glass, Sower seeds, vegetable	;10]]		for question 85.) BOWS AND GILTS FARROWING:		9
grown under glass, sower seeds, vegetable seeds, vegetable plants, bulbs, and mushrooms—			[93o] How many sows and gilts farrowed between December 1, last year, and June 1, this year? None	_	0
	Square feet		85b How many sows and gilts farrowed sure June 1, this year, or will farrow before December 1?	_	Irrigatio
	III)	_	ANIMALS SOLD AND TO BE SOLD ALIVE THIS YEAR, 1954.		1
Section VII.—LIVESTOCE NOW ON T PRODUCTION TRIS	S YEAR, 1954		(Report all sales from this plare whether made by you or by others. Report as sold animals utrined over to or sold for your landlord. Be sure to include animals which you will sell before January 1, 1955.)		3
Include all animals on this place owned b any animals belonging to this place but g districts, or on open range.	y you and by others. Also, include razing an national invests, grazing		WESE ANT OF THE FOLLOWING ANIMALS SOLD HOW MEDY		X
CATTLE AND CALVES	Namber	н	on WILL ANY BE SOLD THIS YEAR (1954)— For each kind, onsuer these questions — were or will be sold this year? Number		Class
[78] How many CATTLE and CALVES of on this place? (Include all rows and all other catt	. None	-	90a HOGS and PIGS sold or to be sold? None 65 /00		1
and beef, on this place) If "None," check and skip to qu			90b. CALVES sold or to be sold? None		2
OF THIS TOTAL— (a) How many are COWS? Include heife	- that have calved		90c. CATTLE, not counting calves, sold or to be sold?		3
(b) How many are heifers and heifer calve (Do not include any heifers that have a	es?	-	30c HORSES, MULES, COLTS,		4
(c) How many are bulls, bull calves, steers (The total for questions (a), (b), and	, and steer calves?	W/////	and PONIES sold or to be sold? None		5
number for question 79.)			WOOL SHORN THIS YEAR, 1954: 91. How many sheep and lambs were shorn this year (1954)? None	_	6
COWS MILKED YESTERDAY; 79. How many COWS and HEIFERS wer MILKED YESTERDAY?	e None		If "None," check and skip to question [32]. (a) How many pounds of wool were shore this year (1954)?		8
99. How many MILK CDWS were	ows and		POULTRY:		9
milk heifers that have calved fil. How many GALLONS of MILK were	None	-	(Report all sales from the place whether made by you or by others. Report as sold all poultry and poultry products turned over to or sold for your landlord. Be		Туре
produced yesterday? 82. How many POUNOS of SUTTER we CHURNED last wrek?		-	sure to include as sold any chickens, brotlers, eggs, turkeys, etc., which you will sell before January 1, 1955) [92] Are there now any chickens, [No 1/1 "No," check and skip to		1
DAIRY PRODUCTS SOLD AND TO BE		-	turkeys, or other poultry on this place or were there any on this place this year?		2
[83] Was any MILK, CREAM, BUTTER, or CHEESE sold (this year,	No If "No," check and skip to		93. How many CHICKENS, 4 months old		3
1954)? (Report all sales from this place whether made by you or by others. Report as sold	[□] Yes	-	(Hens, pullets, roosters, etc.)	-	4
dairy products turned over to or sold for	Quantity (2) How much was or will be the value of sales?		\$4. How many CHICKENS were or will be 80LD this year. (a) Resilers? None \$ /00		5 6
products which you will sell before January 1, 1955 }	(1) Lb of	-	(o) Broilers? None None None (sport all broilers sold from this place including those raised for others under contract.)		7
(o) How much WHOLE MILK was or will be sold this year?	milk OR (2) Lb. of		(b) Old hens, roosters, pullets, and other hickens? . None \$		8
	butterfat00 OR (3) Gallons		95. How many dosens of chicken EGGS were or will be SDLD this year?		9
(b) How much CREAM was or will be sold this year?	of milk/ Lh of butterfat		96d. How many TURKEYS and TURKEY FRYERS were raused this year? X X X	_	0
(if cream sold by gallon, multiply the number of gallons by 21/2 to get pounds of butterfat)			(Include those raised from poults bought, poulso hatched on this place, or Heavy breeds X X X raised for others under contract, whether	-	X
SHEEP AND LAMBS	Number	-	aold, raten, or now on hand)		V
[84] How many EWES, RAMS, WETH LAMBS of all ages are on this place?	ERS, and	_	on hand now, are you kreping for breeding in 1955? Light breeds X X X	-	REGIO
If "None," check and skip to qu OF THIS TOTAL-			97. How many DUCKS.	-	17
(a) How many are LAMSS under 1 year		_	GEESE, and other poultry (not counting chickens and turkeys) were None (Name kind) X X X		N. Mex
(b) How many are EWES I year old and (c) How many are RAMS and WETHER	S I year old and over? .	_	98. How much was or will be received this year from the sale of TURKEYS, DUCKS,		Okla. West Te
(The total for questions (a), (b), number for question 84.)	and (c) must equal he		GERSE, and miscellaneous poultry, and THEIR None EGGS? (Do not include chickens and chicken eggs)	-	

This block for use by ENUMERATO	(a) Fill column 14 of A:	2. Is this place \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Section XI.—OFF-FARM WORE AND OTHEB INCOME [104] How many days this year did you work off your /1. None	
	······			[104] How many days this year did you work off your farm? Include work at a nonfarm job, business, 2, 110 to 49 days profession, or on someone else farm (Cherc we). , 50 to 99 days (Do not include eachange work Include days you 4, 100 to 199 days expect to work off your farm before Jan. 1, 1955) 200 days or more	-
Section 1	VIIIFERTILIZER AND I	IME	N	(c) Did any other member of your family living with you have a non- [No	
include all fertilizer and lin	ne purchased, or to be pure	chazed before January I,		farm job, business, profession, or work on someone else's farm this year? (b) Have you any income this year from any of the following sources—	-
				sale of products from land rented out, cash rent, boarders, old-age assistance, pensions, veterans' allowances, unemployment compensation, interest, dividends, profits from nonfarm business, and help from members No.	
[99] How much COM FERTILIZER and FER MATERIAL was purchased to (Do not include barnyard manure, materials or gyptum.)	TILIZING thus year? None straw, refuse Tonsi	\$ /00		of your family? If "None" for question 104 and "No" for both questions (a) and (b), skip to question [106].	-
	" check and skip to question	used1		105. Will the income which you and your family receive from work off	
	_	(1) (2)		the farm and from other sources (latted in questions 104, (a), and (b)) be greater than the total value of all agricultural products sold or to be sold of from your place this year? [] Yes	-
100. On which crope was		On how How many		Seedon XII.—FACILITIES AND EQUIPMENT NOW ON THIS PLACE	
For each crop, answer the	se questions	acres was tons were fertilizer used?		Include equipment and facilities that are temporarily out of order.	
		Acres		[106] Do you have on this place— (a) Telephone?	
(a) Hay and cropland past		10		(b) Piped running water? (Compared to the following machine? (Compared to the following machine) (Comp	
(b) Other pasture (not ero		Te le	1	(c) Firetricity? (No (h) Power feed grinder (No	
(c) Corn? (d) Cotton?	None None	10		(d) Television sei? Yes (suitable for grinding and crushing grain)? Yes	_
(e) Fruits, vegetables, and		10		(r) Home freezer (for quick No No Treesing and storing foods.	
(O. Other crops?	Oive name) None	1		Do not include reingeratory? (164	
				107. HOW MANY OF THE FOLLOWING ARE ON THIS PLACE— Include equipment, whether owned by you or by others, kept on this place.	
[101] How much LIME MATERIAL was purchased	this year? None	\$ /00		Number Number	
(Include ground hydrated and burn oyster shells, etc	t lune, mari, Omit lime	dollars only) (imed)		(a) Grain combines (for harvesting and threshing than garden?	
used for aprays or	Sanitation)	· -		grains or seeds in one operation)?	
Section IX.—SELECT	EO FARM EXPENDITURE	9, THIS YEAR, 1954	M	(6) Corn pickers?	-
Include all expenses paid, or	r to be paid hefore January i landlord for this place.	, 1955, by you and hy your		(d) Field forage harvesters (s) Automobiles (belonging to you, to bired workers, or to others living on this place)?	
102. How much was or w	vill be SPENT this year for-	Dellars		(c) Motortracka (include reservoirs, and earth	
(o) MACHINE HIRE? (Include custom wor	k ouch as tractor him	None \$/00	-	pick-upel? tanks?	.
threshing, combining ginning, plowing, and	g, silo filling, baling, ispraying)			Section XIII.—MISCELLANEOUS INFOBMATION FARM VALUE, MORTOAGE DEBT, AND CASH RENT:	
or contract constructs	usework, custom work, on work Include cash	None \$/00	-	108. About how much would the land and the buildings on it sell for?	-
payments only) (c) FEED for livestock a		None \$/00	_	(Give either total value or value per acre Do not give assessed values) Total Value per value or acre	
(Include cost of grain	n, hay, mill feeds, nughages, also, amounts			(a) LAND OWNED BY YOU? None \$	
(d) GASOLINE and o	ther petroleum FUEL	None \$ /00	_	(from question 4) (b) LAND RENTED FROM	
			-	OTHERS? None \$_/00 or \$	or)
8	Seetlon X.—PARM LABOR			(c) LAND MANAGED FOR DTHERS? (from question \$)	/
103. About how many h Sept. 26-Oct 2 did you (this place) do farm work or	hours the work of he person in charge of	☐ None ☐ 1 to 14 bours		(d) LAND RENTED TO OTHERS? (from question 10) None \$	
this place; do larm work of	(Check one)	15 hours or more	-	No. In the same MORTCACE DEBT on head and	-
(a) How many OTHER	MEMBERS OF YOUR	Persons	-	109. In there any MORTGAGE DEBT on land and buildings owned by you? \[\text{\te}\text{\texi{\text{\text{\texi{\text{\texi{\text{\texi}\text{\text{\text{\texi{\text{\texi{\texi}\text{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi\texi{\texi{\texi}	-
FAMILY did 15 hours or m on this place the week of Se RECEIVING CASH WAS	ept 26-Oet 2 WITHOUT GES?	□ None	_	110. If you rent from others any land for cash, what is \(\begin{align*} \\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-
(Do not include house	sework) PERSONS did any farm was	rk or		(or cash	-
	your family referving cash was	ges) None		111. On what date was this questionnaire filled? (Olive month and day), 1954	
	e and skip to question [104]. E HIRED PERSONS WO OCT 2 WERE EMPLOYED	RKING THE		112. Who furnished the information given in this report! (Check which) Operator Bired laborer	
(c) 150 days or more du	ring this year?	□ None		☐ Wife or other member of operator's family ☐ Neighbor	
(d) Less than 150 days of (The total for question for question 103(b))	during this year? one (c) and (d) must equal th	None None	- \ <u>-</u>	☐ Landlord ☐ Other Name	
	of pay and hours of work of 3(b))? (Enter information	these hired below.)		REMARKS	
	(2)	(3)	-		
(I) How many of these hired	What was the agreed each rate of pay? (If more than one person, give	How many hours per person were these workers expected to wor			
persons were paid on a-	average)	to carn this pay ?	_		
Monthly basis? Personal	\$ /00 per month	hours per month	_		
Wzekly		hours			
bans *	8 00 per week	per wrek		ENUMERATOR'S RECORD—To be filled by Census Enumerator	
Daily basis 9 (Persons)	\$	bours per day		STATE COUNTY F. D No	
Hourly					□ No
basis* [Prtsons)	\$: (Dollari) (Cenu)	X X X		Certified by Date	☐ Yes _, 1954
l'iecework	XXX	xxx	-	Enumerator (Month) (Day)	_, 1954

Figure 1.—The Agriculture Questionnaire (Form A1)—Continued.

For example, if the enumeration district comprised an entire township, the enumeration district description consisted of the name of the township. The boundaries of enumeration districts were indicated on a copy of a county map retained for office use. A negative photoprint copy was made of these county maps for use by Crew Leaders. The preparation of enumerator maps was started in the latter part of May and completed in early September 1954. A reduced facsimile of a typical map furnished an enumerator is shown in figure 11.

Funds for the Census.—General specifications and costs for the various phases of the 1954 Census of Agriculture were prepared in 1953. However, in 1953 a decision was made that the 1954 Census of Agriculture would be taken for only a sample of the farms, and the budget request submitted to Congress in January 1954 provided for the appropriation of \$2,400,000 for the fiscal year beginning July 1, 1954 for the taking of this sample Census. However, the Congress decided that a complete Census of Agriculture should be taken in 1954 and an appropriation of \$16,000,000 was made by Congress on July 2, 1954. During the last week of May 1954, it appeared likely that Congress would approve the taking of a complete Census rather than a sample Census of Agriculture, and the plans that had been developed for a sample Census were modified and work on preparing for a complete Census was started during the last week of May 1954. However, lack of funds limited preparatory work during June 1954 to the starting of the preparation of enumerators' maps, revising plans, and getting proof copies of questionnaires and some instructional materials.

The plans for a complete Census of Agriculture prepared in 1953 called for an expenditure of approximately \$18,000,000 for the fiscal year beginning July 1, 1954, and for the expenditure of an additional \$6,000,000 to complete work on the Census. The appropriation of \$16,000,000 for the fiscal year beginning July 1954 required a revision of the plans and specifications of the Census. The necessary changes in plans because of the reduction in appropriation were made during July and August 1954. A total of \$6,000,000 was requested to complete work on the Census during the period July 1955 to December 31, 1956. Congress appropriated \$5,500,000 of this amount. However, because of economy in Census operations and reduced costs, \$1,000,000 of the \$21,500,000 funds appropriated were not expended for the Census of Agriculture and the increased cost, of \$400,000 to \$500,000, arising from the pay raise of approximately 7 percent approved by Congress effective March 1955, was absorbed.

The time schedule.—The satisfactory and efficient performance of a large number of different jobs required in connection with a Nationwide Census, many performed at different locations, required the establishment of a detailed time schedule so that each job was scheduled, and so that personnel, machines, instructions, and materials were available when required. A detailed time schedule for most operations connected with the Census was prepared in 1953 and was revised May 20, 1954, when it appeared that funds would likely be appropriated for the Census. The following outline shows the time schedule for many of the major parts of the job:

I. General:

- 1. Questionnaire content determined—May 20, 1954
- 2. Preparation of enumerator maps—May 20 to October 2, 1954
- Shipment of materials for enumeration to field offices— August to October 2, 1954
- Recruitment of field personnel—August 9 to October 27, 1954
- 5. Enumeration—October 2 to December 15, 1954

I. General-Continued

- Editing and coding of questionnaires—December 1954 to August 1955
- Punching of tabulating cards—December 1954 to September 1955
- 8. Tabulation of data for counties and States—March to October 1955
- Issuance of preliminary county and State data—March 1955 to January 1956
- Issuance of final reports containing State and county data—October 1955 to September 1956
- Issuance of subject report presenting State and United States data—December 1956
- 12. Completion of special tabulations—November 1956
- 13. Completion of special reports—December 31, 1956
- 14. End of Census work—December 31, 1956

II. Planning and policy:

Revised plans and detailed specifications for the Census— June to September 1954

Qualification of field personnel established—June 4, 1954 Location for office processing determined—July 1954 Personnel policy regarding employment, promotions, etc., of temporary office personnel established—June 30, 1954

Preparation of budget for completing work during period July 1, 1955 to December 31, 1956—August 1954

III. Operations related to the enumeration:

Enumerator maps prepared—May 20 to October 2, 1954 Forms and instructions for use in the enumeration sent for printing:

Agriculture Questionnaires for enumerators' use— Approved for printing, July 29 to August 16, 1954

Agriculture Questionnaires for mail distribution— August 6 to August 16, 1954

Enumerators' record book—July 20, 1954

Employee appointment forms—June 1954

Portfolio for use by enumerators—June 1954

Enumerators' Instruction Book-June 21, 1954

Crew Leaders' Instruction Book—August 5, 1954 Instructions for supervisors of Agriculture Field Offices—

Instructions for supervisors of Agriculture Field Offices— July 24, 1954

Training materials for enumerators—July 5 to 25, 1954

Shipment of materials to field offices:

Office forms and supplies—August 28, 1954

Enumerators' portfolios and training materials—August 28 to October 2, 1954

Materials for publicity regarding Census—September 1, 1954

Appointment of Agriculture field supervisors—August 9, 1954 to September 13, 1954

Training of technical instructors—August 23 to 28, 1954

Training of Agriculture field supervisors—August 10 to September 13, 1954

Appointment of crew leaders—August 23 to October 11, 1954 Crew leader training—September 23 to October 11, 1954

Enumerators appointed—September 27 to November 1, 1954 Enumerator training—September 27 to November 8, 1954

Packaging of Agriculture Questionnaires for mail distribution—September 7 to October 28, 1954

Distribution of Agriculture Questionnaires by mail—September 21 to October 30, 1955

Training of enumerators of quality check for Census—January 2 to 10, 1955

Enumeration for quality check for Census—January to June 1955

IV. Operations related to editing, coding, tabulating, and publication of data:

Receipt, editing, and coding of questionnaires:

Recruitment of office personnel—October 1954 to March

Training of supervisors—October to December 10, 1954 Instructions printed—November 1954

Training materials prepared—November 1954

Editing and coding starts—November 24, 1954

Editing and coding completed—July to August 1955

Punching of tabulating cards:

Card forms outlined-May 27, 1954

Card forms designed and ordered—July 14, 1954

Machine requirements determined and machines rented— September 29, 1954

Instructions for punching prepared—November 1954

Training materials prepared—November to December 1954

Training of supervisors—November 1954

Punching begins—December 9, 1954

Punching completed—August 25, 1955

Correction of punch eards:

Specifications for selection of cards with possible errors completed—August 15, 1954

Selection of cards—February 5 to September 24, 1955

Correction of cards—March 5 to October 22, 1955

Making of tabulations:

Outline of tabulation plans completed—June 29 to July 13, 1954

Tabulation forms designed and ordered—October 1954 to February 1955

Machine requirements determined and machines ordered-July 1954

Tabulation of county data-March 19 to October 14, 1955

Tabulation of State economic area data—June 1955 to April 1956

Tabulation of subregion data—May 1956 to December 1956

Checking and review of tabulations:

Instructions completed—March 16, 1955

County tabulations—April 16 to November 19, 1955

State economic area tabulations—July 1955 to March 1956

Economic subregion tabulations-May 1956 to October

Preparing statistical tables for typing:

Table forms sent for printing:

Preliminary reports—January 27, 1955 to April 5,

Final reports-March 20, 1955 to July 29, 1955

Preparation of county tables:

Preliminary reports—April to December 1955

Final reports—June 1955 to April 1956

Preparation of State economic area tables—August 1955 to April 1956

Preparation of subregion tables—May 1956 to October 1956

IV. Operations related to editing, coding, tabulating, and publication of data-Continued

Typing of statistical tables:

Preliminary reports—May to December 1955

County, State economic area, and State-August 9, 1955 to May 26, 1956

Subregions—August 1956 to November 1956

Printing of reports:

Preliminary—April 30 to December 24, 1955

Final-County, State economic area, and State-December 1956

Subregion—March 1957

Final—State and United States Summary—December

Special reports—August 1956 to June 1957

Very detailed time and progress schedules were established for each operation. For example, the time schedule established for the issuance of preliminary reports for States and counties was as follows:

1955 week ending—	umber of eliminary eports to e issued
May 14	20
May 21	30
May 28	40
June 4	60
June 11	80
June 18	100
June 25	100
July 2	100
July 9	100
July 16	100
July 23	100
July 30	100
Aug. 6	100
Aug. 13	100
Aug. 20	100
Aug. 27	100
Sept. 3	100
Sept. 10	100
Sept. 17	100
Sept. 24	100
Oct. 1	100
Oet. 8	100
Oct. 15	100
Oct. 22	100
Oct. 29.	100
Nov. 5	100
Nov. 12	100
Nov. 19	100
Nov. 26	130
Dec. 3	140
Dec. 10	150
Dec. 17	150

The time schedule for operations related to the enumeration was varied according to areas of the country as the date for the start of the enumeration varied. The Act of Congress setting the date for the enumeration for the 1954 Census of Agriculture permitted some variations in the date for starting of the enumeration. In areas where the harvesting of crops was completed early and where weather and road conditions made travel in

early winter difficult, the enumeration was started in October. The dates for the beginning of the enumeration for various parts of the country are shown in figure 2.

Adherence to the time schedule was checked periodically and administrative action was taken to correct situations that were delaying the work. The established time schedule was adhered to in almost every case.

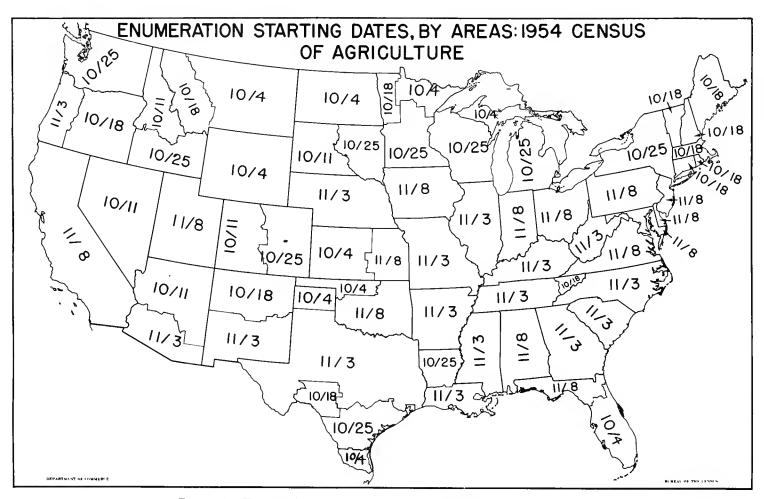


FIGURE 2.—Enumeration starting dates, by areas: 1954 Census of Agriculture.

CHAPTER II—THE ENUMERATION

Ţ.			

CONTENTS

The enumeration	
The job	
Organization of field staff	
The Regional Offices	
Field Processing Offices	
Agriculture Field Offices	
Selection of personnel	
Training personnel	
A. Outline of training of Agriculture field supervisors and assistants.	
B. Training of crew leaders	
C. Training of enumerators	
Office space, supplies, and equipment	
Packaging and distributing enumerator's supplies	
Distribution of Agriculture Questionnaires by mail	
Enumeration procedures	
Record of work and travel	
Enumerator's daily report	
Record of telephone and other costs	
Record of A2 listings requiring crew leader action	
Tourism to A 2 useful sequence even reader action.	
Enumerator's eallback record	
Supervision of the enumerator and checking of his work	
Control over time schedule and cost of the enumeration	
ILLUSTRATIONS	
ILLUST`RATIONS	
ILLUSTRATIONS Tield organization chart Tlow chart of reporting system for enumeration work	
ILLUSTRATIONS Tield organization chart Tow chart of reporting system for enumeration work election aid for enumerators (Pers. 165 Form B)	
ILLUSTRATIONS Tield organization chart Tlow chart of reporting system for enumeration work election aid for enumerators (Pers. 165 Form B) The portfolio	
ILLUSTRATIONS Tield organization chart Tow chart of reporting system for enumeration work election aid for enumerators (Pers. 165 Form B) The portfolio etter accompanying self-mailer, A1, Agriculture Questionnaire	
ILLUSTRATIONS Tield organization chart Tow chart of reporting system for enumeration work election aid for enumerators (Pers. 165 Form B) The portfolio etter accompanying self-mailer, A1, Agriculture Questionnaire eddress label, self-mailer A1 Agriculture Questionnaire	
ILLUSTRATIONS Tield organization chart	
ILLUSTRATIONS Tield organization chart	
ILLUSTRATIONS field organization chart	
ILLUSTRATIONS Sield organization chart	
ILLUSTRATIONS Tield organization chart	
ILLUSTRATIONS ield organization chart	
ILLUSTRATIONS ield organization chart low chart of reporting system for enumeration work election aid for enumerators (Pers. 165 Form B) the portfolio etter accompanying self-mailer, A1, Agriculture Questionnaire ddress label, self-mailer A1 Agriculture Questionnaire 2 listing form 3 Landlord-Tenant Questionnaire 2 listing form (illustrative example) teduced facsimile of enumerator's map lap for checking enumeration of farms in specified township and range survey areas (Form FA-100) decord of production and travel (Form FA-3) chaumerator's daily report (Form FA-7)	
ILLUSTRATIONS Gield organization chart Glow chart of reporting system for enumeration work election aid for enumerators (Pers. 165 Form B) The portfolio etter accompanying self-mailer, A1, Agriculture Questionnaire ddress label, self-mailer A1 Agriculture Questionnaire 2 listing form 3 Landlord-Tenant Questionnaire 2 listing form (illustrative example) Reduced facsimile of enumerator's map Lap for checking enumeration of farms in specified township and range survey areas (Form FA-100) Record of production and travel (Form FA-3) Chumerator's daily report (Form FA-7) Record of telephone calls and road, bridge, and ferry tolls (Form FA-4)	
ield organization chart low chart of reporting system for enumeration work election aid for enumerators (Pers. 165 Form B) he portfolio etter accompanying self-mailer, A1, Agriculture Questionnaire ddress label, self-mailer A1 Agriculture Questionnaire 2 listing form 3 Landlord-Tenant Questionnaire 2.2 listing form (illustrative example) deduced facsimile of enumerator's map lap for checking enumeration of farms in specified township and range survey areas (Form FA-100) decord of production and travel (Form FA-3) chumerator's daily report (Form FA-7) decord of telephone calls and road, bridge, and ferry tolls (Form FA-4) chumerator's record A2 listings requiring crew leader action (Form FA-5)	
ILLUSTRATIONS Gield organization chart Glow chart of reporting system for enumeration work election aid for enumerators (Pers. 165 Form B) The portfolio Letter accompanying self-mailer, A1, Agriculture Questionnaire Address label, self-mailer A1 Agriculture Questionnaire Address label, self-mailer A1 Agriculture Questionnaire Isting form I Landlord-Tenant Questionnaire Educed facsimile of enumerator's map Iap for checking enumeration of farms in specified township and range survey areas (Form FA-100) Eccord of production and travel (Form FA-3) Chumerator's daily report (Form FA-7) Eccord of telephone calls and road, bridge, and ferry tolls (Form FA-4) Chumerator's record A2 listings requiring crew leader action (Form FA-5) Enumerator's callback record (Form FA-6)	
ILLUSTRATIONS Tield organization chart	
ILLUSTRATIONS Field organization chart. Flow chart of reporting system for enumeration work. Flow chart of reporting system for enumerators (Pers. 165 Form B) Flow portfolio Flow chart of reporting system for B. Flow portfolio Flow chart of reporting system for B. Flow portfolio Flow chart of reporting system for enumerators and form form form form form form form form	
ILLUSTRATIONS Field organization chart Flow chart of reporting system for enumeration work delection aid for enumerators (Pers. 165 Form B). Fine portfolio deter accompanying self-mailer, A1, Agriculture Questionnaire delection and for enumerator's mailer A1 Agriculture Questionnaire delection grows delection and travel (Pers. 165 Form B). A3 Landlord-Tenant Questionnaire delection form (illustrative example). Reduced facsimile of enumerator's map descord of production and travel (Form FA-3). Enumerator's daily report (Form FA-7). Record of telephone calls and road, bridge, and ferry tolls (Form FA-4). Enumerator's record A2 listings requiring crew leader action (Form FA-5). Enumerator's callback record (Form FA-6). Crew leader's daily activity report (Form FA-18). Record of portfolio review (Form FA-17). Record of portfolio review (Form FA-91).	

1954 CENSUS OF AGRICULTURE FIELD ORGANIZATION CHART

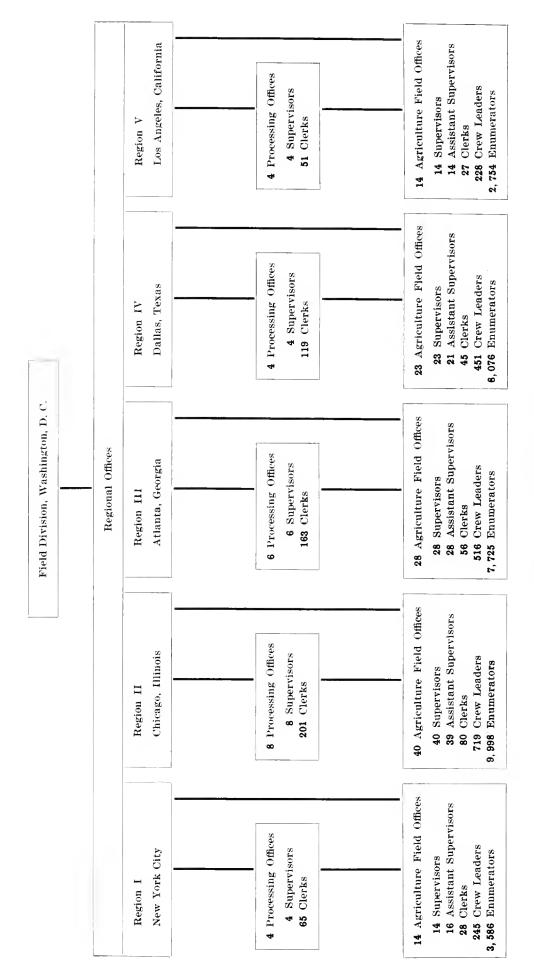


FIGURE 3.—Field Organization Chart.

CHAPTER II—THE ENUMERATION

The job.—The enumeration required the organization of a field staff for the purpose of visiting all areas in the United States and obtaining the required information regarding each place and farm, the setting up of temporary offices, the selection and training of personnel, the supervision and control over personnel and operations, the actual enumeration, the checking of the enumeration, and the paying of personnel.

Organization of field staff.—The field staff was organized by function and by area. The outline on page 18 shows the organization and size of the field staff used for the 1954 Census of Agriculture.

The 5 Regional Offices and a considerable part of their personnel existed before work on the Census of Agriculture was undertaken and formed a part of the permanent staff of the Bureau of the Census. The entire organization below the level of Regional Offices was established temporarily for the 1954 Census of Agriculture. The 26 processing offices were supervised largely by permanent field personnel, who were reassigned temporarily from the permanent jobs of supervising current field activities of the Bureau of the Census. Except for the personnel of the Regional Offices and the supervisors of the 26 processing offices, a temporary field staff was recruited and employed for a limited period for work on the 1954 Census of Agriculture.

The Regional Offices.—The Regional Offices exercised general control over all field work. They assisted particularly in obtaining office space, selection of supervisors and other personnel for processing offices and Agriculture Field Offices, and for the handling of unforeseen problems. The personnel for each regional office, the average days of employment, and their average salary per 40-hour week were as follows:

Kind of personnel	Number employed	Average days of employ- ment	A verage salary per week
Supervisors	1	85	\$170
	2	100	105
	1	100	61

Field Processing Offices.—Processing offices were established to provide trained supervisory personnel for the purpose of selecting, appointing, controlling, paying, and checking the work of the large number of temporary employees, most of whom did not have any prior experience in Government work and procedures.

The supervisors of processing offices were appointed during the period July to September 1954 and were employed on an average of 20 weeks. A brief outline of the work the supervisor performed during these 20 weeks follows:

First week:

Obtain space, supplies and equipment for processing office

Recruit administrative clerk

Second, third, and fourth week:

Organize office and train administrative clerk
Recruit and train clerk-typist and payroll clerk
Assist supervisors of Agriculture Field Offices in recruiting
crew leaders

Supervise the processing of crew leader appointments

Second, third, and fourth week-Continued

Supervise preparation of payroll work sheets for personnel in processing office and in Agriculture Field Offices

Fifth through eighth week:

Submit progress reports as required

Assist supervisors of Agriculture Field Office to recruit enumerators

Process enumerator appointments

Recruit and train shipping clerk for processing office

Supervise the preparation of payroll work sheets for personnel in processing office and Agriculture Field Offices

Ninth and tenth week:

Recruit and train editing and tabulating clerks

Supervise the preparation of payroll work sheets for paying enumerators for training and for enumerators employed by the hour

Supervise the preparation of payroll work sheets for personnel in processing office and in Agriculture Field Offices

Eleventh through sixteenth week:

Supervise the editing and tabulation of data for completed enumeration districts

Return incomplete and not acceptable work of enumerators for completion and/or correction

Inform supervisors of Agriculture Field Offices of unsatisfactory work and advise crew leaders on how to handle unsatisfactory work of enumerators

Supervise the preparation and approval of payrolls for work completed by enumerators

Supervise the preparation of payroll work sheets for personnel in processing office and in Agriculture Field Offices

Prepare summary of completed enumeration districts by county and submit summary to Washington for approval

Ship materials for counties completed to central processing offices

Seventeenth through twenty-fifth week:

Supervise the editing and tabulation of data for completed enumeration districts

Return incomplete and not acceptable work of enumerators to crew leader for completion and/or correction

Inform crew leaders of unsatisfactory work performed by enumerators and how to handle this unsatisfactory work

Supervise the preparation and approval of payroll for work completed by the enumerators

Prepare summary of completed enumeration districts by counties and submit the summary to Washington for approval

Prepare a final report on all work completed Terminate all employees and close office

The administrative clerk supervised the clerical operations in the processing office particularly during the frequent periods when the supervisor was away checking on field operations and progress. All payrolls for enumerators, crew leaders, personnel in Agriculture Field Offices, etc., were checked and in most eases prepared in the office of the Field Processing Office supervisor by the payroll elerk. Payrolls of employees employed by the month and day were prepared once every two weeks, separate payrolls were prepared for each enumerator for his training and for each enumeration district he completed. Payrolls were sent to the Washington office for final audit and for the issuance of checks.

The appointments of all field personnel were prepared in the processing office. This work was performed by the appointment elerk. A description of the work of the tabulating clerks is given on page 69.

The personnel used in each processing office, the average length of employment, and average salary were as follows:

Kind of personnel	Number employed per office	Average days of employ- ment (in- cluding overtime)	Average salary per 40-hour week
Supervisors and assistant. Administrative clerk. Payroll clerk. Receiving and shipping clerk. Tabulating clerks. Typist	1 1 1 2 15	1 161 95 ³ 4 74 ¹ /4 34 ³ /4 24 ¹ / ₄ 23	\$117 66 61 57 57 57

Total days for all 26 offices were 6,778,
 Number per office varied from approximately 10 to 50.
 The number varied by office. The total number for the 26 offices was 114.

Agriculture Field Offices.—Agriculture Field Offices were established for the purpose of supervising and controlling the enumeration in a specific geographic area. In some eases, this area included as much as a State and in other cases only a few counties. In determining areas for which agriculture field offices would be established, the workload both in terms of the number of farms to be enumerated as well as the total land area to be eovered were considered. The average number of farms per agriculture field office was approximately 40,000

The number of personnel for each Agriculture Field Office, the average days of employment, and the average salary per 40-hour week were as follows:

Kind of personnel	Number employed per office	A verage days of employment (including overtime)	A verage salary per 40-hour week
Supervisor Assistant supervisor Administrative clerk Clerk	1	881/2 84 871/2 591/6	\$97 82 67 57
Crew leaders Enumerators	1 18 1 253	52 52 171/4	66 46

¹ The number varied by office.

The work performed by the supervisor and assistant supervisor of the Agriculture Field Offices varied by weeks as follows:

Arranged for office space and equipment Recruited administrative clerk Arranged for appointment of assistant supervisor

Issued press releases and provided newspapers etc., with information about Census

Second week:

Attended training classes

Third, fourth, and fifth weeks:

Organized office and trained administrative elerk

Contacted persons for obtaining lists of enumerators in each county

Recruited crew leaders

Arranged for crew leader training

Issued press releases and provided newspapers etc., with information about Census

Sixth week:

Supervised crew leader training classes

Issued press releases and provided newspapers etc., with information about Census

Seventh, eighth, and ninth week:

Supervised erew leaders in selection of the enumerators Issued press releases and provided newspapers etc., with information about Census

Tenth week:

Supervised enumerator training

Issued press releases and provided newspapers etc., with information about Census

Eleventh to the fourteenth week:

Supervised the enumeration

Prepared and submitted progress reports

Visited erew leaders and enumerators

Fifteenth and sixteenth week:

Terminated appointments of enumerators

Supervised crew leaders in cheeking work of enumerators for completeness and coverage

Seventeenth and eighteenth week:

Supervised the completion of work in enumeration districts where work was not fully satisfactory

Terminated appointments of erew leaders

Closed office as instructed

Terminated all employees

The administrative elerk usually served as a secretary for the Agriculture Field Office and assisted the office elerk in preparing the various required reports. These reports, to whom submitted, and their frequency are shown in figure 4.

The work of the supervisor and assistant supervisor required eonsiderable travel. During the period of their employment the supervisors or assistant supervisors were away from their headquarters on the average for 19 days and traveled an average of 5,013 miles.

The job of the crew leader was concerned largely with the selection, training, and supervision of enumerators. One crew leader was appointed for each 10 to 18 enumerators. The area assigned each crew leader usually consisted of a county or combination of one county and a part of another county.

Crew leaders were appointed 5 weeks before the actual start of the enumeration. The distribution of the erew leaders' 52 days' work was as follows:

Attending training elass	5 days
Recruiting enumerators, obtaining enumerator train-	·
ing space and materials, and making a list of 15	
places in each enumeration district	16 days
Training enumerators	4 days
Recruiting and training enumerators for replace-	
ment, ete	3 days
Supervising enumerators during enumeration	19 days
Cheeking enumerators' work and shipping ma-	
terials	$5~\mathrm{days}$
• • •	5 days

Crew leaders were required to visit enumerators at least twice and to cheek their work on the job. The miles traveled by erew leaders during their employment averaged 927.

The duties of enumerators are described under "The Enumeration." Enumerators were paid \$14 for completing the training and either \$1.25 per hour worked plus \$0.07 for each mile of travel by personally owned automobile or \$0.07 for each line filled on Form A2, \$0.40 to \$1.00 per Agriculture Questionnaire filled plus \$0.07 per mile for use of their personally owned automobile plus \$0.04 per mile traveled in personally owned automobile for the time spent in traveling. Enumerators worked on an average of 17.25 days each.

FLOW CHART OF REPORTING SYSTEM for Enumeration Period

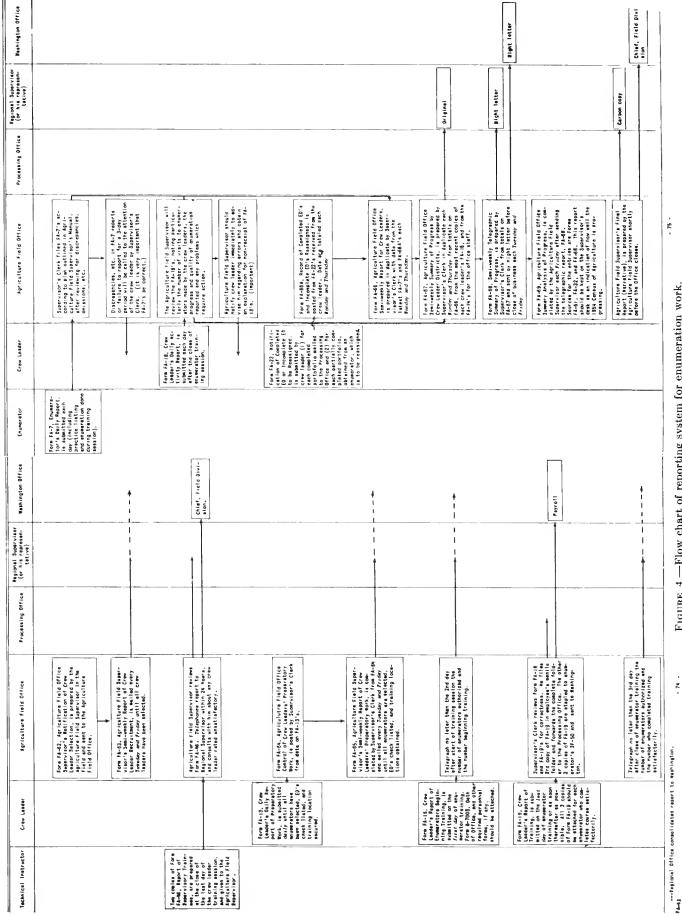


FIGURE 4.—Flow chart of reporting system for enumeration work.

- 74

Selection of personnel.—Except for supervisors and personnel of Regional Offices and supervisors of processing offices, all field jobs for the 1954 Census of Agriculture were temporary and were not under the civil-service system. Personnel for these jobs were usually selected from lists of candidates recommended by Senators, Congressmen, or by State and local political organizations. Qualifications were established for supervisors and assistant supervisors of Agriculture Field Offices. These qualifications were evaluated during and after a personal interview. Further evaluation was made of these personnel during the training classes prior to their beginning the performance of their jobs. Crew leaders, clerks, and enumerators were required to take tests. The tests given clerks were similar to those given to civil-service applicants. An example of the test given crew leaders and enumerators is shown in figure 5. Minimum grades were established for crew leaders and enumerators and persons whose grades were less than these minima were not considered for appointment, unless no other qualified person could be recruited.

Both crew leaders and ennmerators were required to be citizens of the United States, to have at least a high school education or its equivalent, to be physically able to discharge the duties involved, to be able to write neatly and legibly, to be able to do simple arithmetic quickly and accurately, to be able to talk easily with people and gain their cooperation, to have some knowledge of farming and farm operations, and to have the use of an automobile. Preference was given to qualified veterans.

Most of the crew leaders and enumerators had no previous experience in collecting data. Farmers and farmers' wives made up the largest group. Persons previously associated with law enforcement or tax assessment or collection were not employed because respondents might associate them with their previous jobs and hesitate to give required Census information.

Training of personnel.—Nearly all the personnel used for the 1954 Census of Agriculture did not have prior experience in connection with a Census and many did not have any prior experience working at a government job. Therefore, all personnel were required to attend and satisfactorily complete a training course. The training of supervisors, assistant supervisors, crew leaders, administrative clerks, payroll clerks, and tabulating clerks was performed largely by personnel from the Washington Office of the Bureau of the Census or other cooperating government agencies. The training of enumerators was given by crew leaders.

The training classes usually were limited to less than 20 persons and in the case of enumerators to less than 10 persons. Training guides and training aids were provided for training at all levels. In order to insure uniform training for all personnel and to apportion training in accordance with the various parts of the job, the persons who performed the training were required to use training guides. These training guides provided detailed time schedules for the training, an outline and in some cases the actual statement of the material to be presented to the trainees. In order to insure uniformity of training and to facilitate the adherence to time schedules, a considerable part of the crew leader and enumerator training was given by the use of recordings and film strips. The training program also included the use of exercises, practice work, and trainee participation in training class exercises. The training program for crew leaders and enumerators required not only the filling out of a training questionnaire but also some actual enumeration. In the case of the enumerators, the training periods were limited to 4 hours each day in order to facilitate learning and the retention of the learning.

A. OUTLINE OF TRAINING OF AGRICULTURE FIELD SUPERVISORS
AND ASSISTANTS

Duration of training:

Four days—9 a. m. to 4 p. m. with 1 hour for lunch and two 15 minute rest periods

First day:

- 1. Description of his job (1 hour)
- 2. Technical training (4½ hours). (This consisted largely of a description of the job to be done, a description of the forms and questionnaires to be used by enumerators, an outline of the crew leader and enumerator training programs, methods used for determining how much enumerators were to be paid, etc.)

Second day:

- 1. Description of training program for subordinates (½ hour)
- 2. Description of crew leader responsibility (½ hour)
- 3. How to select and recruit personnel (4½ hours)

Third day:

- 1. Obtaining space, equipment, supplies and services (1 hour)
- 2. Preparing payrolls, etc. (3/4 hour)
- 3. Conducting publicity in connection with the Census (½ hour)
- 4. Preparing of correspondence, etc. (3/4 hour)
- 5. Confidential nature of Census data (1/4 hour)
- Supervisor's responsibilities for managing personnel (¾ hour)
- 7. Questions (1½ hours)

Fourth day:

- 1. Preparation of reports and use of controls (4½ hours)
- 2. Questions regarding work; other duties (1¼ hours)

B. Training of Crew Leaders

Duration of training:

Five days

First day:

- 1. Description of his job (1½ hours)
- Participation in a training program that comprised the same training programs given enumerator
 - (a) How to use maps (¼ hour)
 - (b) Discussion of Agriculture Questionnaire A1 and form A2 (1¼ hours)
 - (c) Discussion of home training Agriculture Questionnaire (½ hour)
 - (d) How to enumerate (1 hour)
 - (e) Practice in enumeration in class room (21/4 hours)
 - (f) Assignment of enumeration district for enumerator and for practice training (½ hour)

Second day:

1. Eight hours of actual enumeration in an area nearby to training location, under the field supervision of instructor

Third day:

- Discussion of problems encountered during actual enumeration (1¼ hours)
- 2. How to review each enumerator's work (1½ hours)

Fourth day:

- 1. Practice presentation as an instructor using materials to be used in training enumerators (3 hours)
- 2. Hours of work, pay rates and inquiries relating thereto (1/4 hour)
- 3. Locating training space (1/4 hour)
- 4. Selecting enumerators (1 hour)

55 Form B	TEST 1
1054	 Place em "X" beside the dwelling nearest the east county line. (See legend for the symbol for "dwelling." Locate east county line on the map. Locate the dwelling.
SELECTION AND PUB	to the east county line.) Ans. on map 2. Place an "X" beside the school nearest a metaled road. Ans. on map
ENUMERATORS 1 - S. REPARTORY OF CHOMBERS.	3. How many dwellings are within one (1) mile of the south county line? (Count dwellings only—use map scale and a pencilor other straight edge to measure the distance.) Ans.
1954 CENSUS OF AGBICULTURE	4. How many dwellings are located in the area west of the river and north of the railroad? Ans
This booklet contains three short tests, map reading, arithmetic problems, following instructions. The questions need not be taken up in order. Answer those that you can answer without any delay, then use the remainder of the to those that you can answer without any delay, then use the questions even on the questions you have passed over. You should answer the questions of the questions.	 What is the atraight-line distance (to the nearest whole mile) from the commercial building marked "3" to the railroad? (Use scale and pencil or other straight edge to measure distance) (Ans. to nearest whole mile)
t those that you can answer subset of the distribution of the questions you have passed over. You should answer the questions of the your answers are correct. Try to complete you are not perfectly sure that your answers are correct. Try to complete three tests in the time allowed.	6. Traveling by road, how far is it (to the nearest whole mile) from the church to the hospital? (Ans. to nearest whole mile) 7. What is the area and the many travelents are the many travelents.
Time allowed - 60 minutes	 What is the straight-line distance (to the nearest whole mile) from the church to the southwest corner of the map? (Ans. to nearest whole mile)
Year of Birth Date	Indicate the following changes on the map by drawing in the appropriate symbol. 8. Bituminous road from dwelling "1" to dwelling "2." (See legend for the symbol for a "Bituminous and "" (See legend
trict Office	Ans. on map
	9. a school 1.0 males due north of the hospital. Ans. on map
DO NOT BRITE IN TRIS BLOCK TEST 1 (Map)	 an industrial building just across the road from and directly south of the commercial building which is mared "3," Ans. on map
TEST 2 (Arith. Prob.)	
TEST 3 (Instructions)	
to wondthorized persons in or oot of the Bure	
• Not to be shown to momathorized permoon in or oot of the Bure the Cennum.	. 2 .
Not to be shown to mosathorized persoon in or oot of the Bure the Censon.	- 2 -
the Ceasas.	- 2 - TEST 2
Not to be shown to unsathorized persons in or not of the Bure the Census. TEST 1—Continued	TEST 2
the Ceasas.	TEST 2
the Ceasas.	TEST 2
TEST 1—Coalinued	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfa) is seed: 1 Bushel equals 60 pounds
LEGEND N	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfs) is seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 45 pounds
TEST 1—coatinued LEGEND N OWELLING COMMERCIAL duli CIN.	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfulfa seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 48 pounds Apples: 1 Bushel equals 48 pounds
LECEND OWELLING COMMERCIAL dUILDING SCHOOL	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 48 pounds Apples: 1 Bushel equals 48 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds
LEGEND ONELLING COMMERCIAL dUILDING INDUSTRIAL dUILDING SCHOOL HOSPITAL	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 45 pounds Apples: 1 Bushel equals 48 pounds
LEGENTD OWELLING COMMERCIAL dUILDING INDUSTRIAL dUILDING SCHOOL MOSPITAL CHURCH CHURCH CHURCH BITUMINOUS ROAD METALEO ROAD METALEO ROAD METALEO ROAD	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfs) is seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 43 pounds Apples: 1 Bushel equals 48 pounds Apples: 1 Ton equals 48 pounds Apples: 1 Quart equals 1 3/4 pounds Cherries: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfs seed = 300 lbs. Since 1 bushel of alfalfs seed is equivalent to 60 lbs., then 5 bu. ar equivalent to 5 x 6 or 300 lbs. equivalent to 5 x 6 or 300 lbs. equivalent to 5 x 6 or 300 lbs.
LEGEND OMELLING COMMERCIAL dUILDING INDUSTRIAL DUILDING SCHOOL MOSPITAL CONCRETE ROAD UNIMPROVED ROAD UNIMPROVED ROAD WETALED ROAD UNIMPROVED ROAD WETALED ROAD WETALED ROAD WETALED ROAD WIMPROVED ROAD WIMPROVED ROAD STYER STREAM BRIDGE	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 45 pounds Apples: 1 Bushel equals 48 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Cherries: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfa seed = 300 lbs. Since 1 bushel of alfalfa seed is equivalent to 60 lbs., then 5 bu. ar equivalent to 5x 6 or 300 lbs. The answer is 300, so 300 has been written in. The answer is 300, so 300 has been written in. b) 90 lbs. Timothy seed = 2 bu. Since 45 lbs. of Timothy seed are equivalent to 7x or 2 bu.
LECENTO OWELLING COMMERCIAL dUILCING INDUSTRIAL DUILCING SCHOOL HOSPITAL CHURCH CHURCH CHURCH BITUMINOUS ROAD WETALEO ROAD UNIMPROVED ROAD PRIVATE ROAD RIVER STREAM	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfs) is seed: 1 Bushel equals 60 pounds Tamothy seed: 1 Bushel equals 48 pounds Apples: 1 Bushel equals 48 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Cherries: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfs seed = 300 lbs. Since 1 bushel of alfalfs seed is equivalent to 60 lbs., then 5 bu. ar equivalent to 5 x 6 or 300 lbs. The answer is 300, so 300 has been written in. b) 90 lbs. Tamothy seed = 2 bo. I since 45 lbs. of Timothy seed are equivalent to 60 lbs., then 5 bu. are equivalent to 1 bu.—then 90 lbs. are equivalent to 60 lbs. The other seed is a converted to 5 x 6 or 300 lbs. The answer is 2 so 2 has been written in.
LEGEND OWELLING COMMERCIAL dUILCING INDUSTRIAL dUILCING SCHOOL MOSPITAL CHURCH CONCRETE ROAD METALEO ROAD METALEO ROAD MITARIAL ROAD RIVER STREAM BRIOGE RAILROAD	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 48 pounds Apples: 1 Bushel equals 48 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Cherries: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfa seed = 300 lbs. Since 1 bushel of alfalfa seed is equivalent to 60 lbs., then 5 bu. are equivalent to 5 to 6 or 300 lbs. The answer is 300, so 300 has been written in. b) 90 lbs. Timothy seed = 2 bu. Since 45 lbs. of 50 or 2 bu. The answer is 2 so 2 has been written in. Do the problems below in a similar manner. 1, 20 bushels Alfalfa seed =lbs.
LEGEND OMELLING COMMERCIAL dUILCING INDUSTRIAL dUILCING SCHOOL HOSPITAL COMCRETE ROAD UNIMPROVED ROAD UNIMPROVED ROAD PRIVATE ROAD WHIPROVED ROAD RIVER STREAM BRIDGE BRIDGE RAILGOAD COMMERCIAL dUILCING SCHOOL ASSENSE ROAD WHIPROVED ROAD RIVER STREAM BRIDGE ARILGOAD COMMERCIAL dUILCING SCHOOL COMMERCIAL dUILCING SCHO	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 45 pounds Apples: 1 Bushel equals 48 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Cherries: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfa seed = 300 lbs. Since 1 bushel of alfalfa seed is equivalent to 60 lbs., then 5 bu. are equivalent to 5 to 6 or 300 lbs. The answer is 300, so 300 has been written in. b) 90 lbs. Timothy seed = 2 bu. Since 45 lbs. of Theothy seed are equivalent to 1 bu.—then 90 lbs. are equivalent to 50 or 2 bu. The answer is 2 so 2 has been written in. Do the problems below in a similar memor. 1. 20 bushels Alfalfa seed = lbs. 2. 4 V2 bushels Apples = lbs.
LEGEND OMELLING COMMERCIAL dUILCING INDUSTRIAL dUILCING SCHOOL HOSPITAL COMCRETE ROAD UNIMPROVED ROAD UNIMPROVED ROAD PRIVATE ROAD WHIPROVED ROAD RIVER STREAM BRIDGE BRIDGE RAILGOAD COMMERCIAL dUILCING SCHOOL ASSENSE ROAD WHIPROVED ROAD RIVER STREAM BRIDGE ARILGOAD COMMERCIAL dUILCING SCHOOL COMMERCIAL dUILCING SCHO	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 45 pounds Timothy seed: 1 Bushel equals 48 pounds Apples: 1 Ton equals 48 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Cherries: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfa seed = 300 lbs. Since 1 bushel of alfalfa seed is equivalent to 60 lbs., then 5 bu. are equivalent to 5 x 6 or 300 lbs. The answer is 300, so 300 has been written in. b) 90 lbs. Timothy seed = 2 bu. Intent to 1 bu.—then 90 lbs. are equivalent to 45 or 2 bu. The answer is 2 so 2 has been written in. Do the problems below in a similar manner. 1. 20 bushels Alfalfa seed = 1bs. 2. 4 1/2 bushels Apples = 1bs. 3. 120 pounds Apples = 1bs. 4. 7 pounds Operrica = 1bs. 4. 7 pounds Operrica = 1bs.
LEGEND OMELLING COMMERCIAL dUILCING INDUSTRIAL dUILCING SCHOOL HOSPITAL CONCRETE ROAD UNIMPROVED ROAD UNIMPROVED ROAD PRIVATE ROAD WHIPROVED ROAD RIVER STREAM BRIDGE BRIDGE RAILROAD CT. CEMETERY	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 45 pounds Apples: 1 Bushel equals 48 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Cherries: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfa seed = 300 lbs. Since 1 bushel of alfalfa seed is equivalent to 60 lbs., then 5 bu. are equivalent to 5 x 6 or 300 lbs. The answer is 300, so 300 has been written in. b) 90 lbs. Timothy seed = 2 bu. Since 45 lbs. of 50 or 2 bu. The answer is 2 so 2 has been written in. Do the problems below in a similar manner. 1. 20 bushels Alfalfa seed = 1bs. 3. 120 pounds Apples = 1bs. 3. 120 pounds Apples = 1bs. 4. 7 pounds Cherries = 1bs. 5. 3 1/3 bushels Timothy seed = 1bs.
LEGEND OMELLING COMMERCIAL dUILDING INDUSTRIAL dUILDING SCHOOL HOSPITAL CHURCH CONCRETE ROAD UNIMPROVED ROAD UNIMPROVED ROAD PRIVATE ROAD UNIMPROVED ROAD RIVATE ROAD STREAM BRIDGE BITDMINOUS ROAD RIVER STREAM BRIDGE B	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 48 pounds Apples: 1 Ton equals 48 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Cherries: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfa seed = 300 lbs. Since 1 bushel of alfalfa seed is equivalent to 50 lbs., then 5 bu. are equivalent to 5 x 6 or 300 lbs. The answer is 300, so 300 has been written in. b) 90 lbs. Timothy seed = 2 bu. Since 45 lbs. of \$\frac{1}{45}\$ or 2 bu. The answer is 2 so 2 has been written in. Do the problems below in a similar memor. 1. 20 bushels Alfalfa seed = 1bs. 2. 4 1/2 bushels Apples = 1bs. 3. 120 pounds Apples = 1bs. 4. 7 pounds Cherrica = qts. 5. 3 1/3 bushels Timothy seed = 1bs. 6. 200 Tons Apples = 1bs. 6. 200 Tons Apples = 1bs. 7 pounds Apples = 1bs. 7 pounds Apples = 1bs. 8 pace for Calculation = 1bs. 9 lbs.
LEGEND OMELLING COMMERCIAL dUILCING INDUSTRIAL dUILCING SCHOOL HOSPITAL CONCRETE ROAD UNIMPROVED ROAD UNIMPROVED ROAD PRIVATE ROAD WHIPROVED ROAD RIVER STREAM BRIDGE BRIDGE RAILROAD CT. CEMETERY	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 48 pounds Apples: 1 Bushel equals 48 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Cherries: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfa seed = 300 lbs. Since 1 bushel of alfalfa seed is equivalent to 60 lbs., then 5 bu. are equivalent to 5 x 6 or 300 lbs. The answer is 300, so 300 has been swritten in. b) 90 lbs. Timothy seed = 2 bu. Since 45 lbs. of \$\frac{1}{45}\$ or 2 bu. The answer is 2 so 2 has been written in. Do the problems below in a similar memor. 1. 20 bushels Alfalfa seed = 1bs. 2. 4 1/2 bushels Apples = 1bs. 3. 120 pounds Apples = 1bs. 4. 7 pounds Cherrica = qts. 5. 3 1/3 bushels Timothy seed = 1bs. 6. 200 Tons Apples = bu. 7. 90 pounds Alfalfa seed = bu. 80 pounds Alfalfa seed = 1bs. 10 pounds Alfalfa = bu. 11 pounds Pounds Alfalfa seed = 1bs. 2. 4 1/2 bushels Timothy seed = 1bs. 3. 100 pounds Apples = 1bs. 4. 7 pounds Cherrica = 1bs. 5. 3 1/3 bushels Timothy seed = 1bs. 6. 200 Tons Apples = bu. 1. 20 bushels Alfalfa = bu.
LEGEND OMELLING COMMERCIAL dUILCING INDUSTRIAL dUILCING SCHOOL HOSPITAL CONCRETE ROAD UNIMPROVED ROAD UNIMPROVED ROAD PRIVATE ROAD WHIPROVED ROAD RIVER STREAM BRIDGE BRIDGE RAILROAD CT. CEMETERY	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 48 pounds Apples: 1 Ton equals 48 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Cherries: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfa seed = 300 lbs. Since 1 bushel of alfalfa seed is equivalent to 60 lbs., then 5 bu. are equivalent to 50 s. 6 or 300 lbs. The answer is 300, so 300 has been written in. b) 90 lbs. Timothy seed = 20 bu. Into to 1 bu.— then 90 lbs. are equivalent to 50 or 2 bu. The answer is 2 so 2 has been written in. Do the problems below in a similar member. 1. 20 bushels Alfalfa seed = 1bs. 2. 4 1/2 bushels Apples = 1bs. 3. 120 pounds Apples = 1bs. 4. 7 pounds Apples = 1bs. 5. 3 1/3 bushels Timothy seed 6. 200 Tons Apples = bu. 7. 90 pounds Alfalfa seed 8. 200 quarts Cherrica = bu. 8. 200 quarts Cherrica = 1bs.
LEGEND OMELLING COMMERCIAL dUILCING INDUSTRIAL dUILCING SCHOOL HOSPITAL COMCRETE ROAD UNIMPROVED ROAD UNIMPROVED ROAD PRIVATE ROAD WHIPROVED ROAD RIVER STREAM BRIDGE BRIDGE RAILGOAD COMMERCIAL dUILCING SCHOOL ASSENSE ROAD WHIPROVED ROAD RIVER STREAM BRIDGE ARILGOAD COMMERCIAL dUILCING SCHOOL COMMERCIAL dUILCING SCHO	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 45 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Apples: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfa seed = 300 lbs. Since 1 bushel of alfalfa seed is equivalent to 60 lbs., then 5 bu. are equivalent to 5 x 6 or 300 lbs. The answer is 300, so 300 has been written in. b) 90 lbs. Timothy seed = 2 bu. Since 45 lbs. of \(\frac{10}{40} \) or 2 bu. The answer is 300 as 300 has been written in. Do the problems below in a similar manner. 1. 20 bushels Alfalfa seed =lbs. 2. 4 \(\frac{1}{2} \) bushels Apples =lbs. 3. 120 pounds Apples =lbs. 4. 7 pounds Apples =lbs. 4. 7 pounds Apples =lbs. 5. 3 \(\frac{1}{3} \) bushels Timothy seed =lbs. 6. 200 Tons Apples =lbs. 7. 90 pounds Alfalfa = bu. 8. 200 quarts Cherrica =lbs. 9-10. A rancher reports his yield of apples for two orchards as follows: CONTABD A = 1,440 pounds
LEGEND OMELLING COMMERCIAL dUILCING INDUSTRIAL dUILCING SCHOOL HOSPITAL COMCRETE ROAD UNIMPROVED ROAD UNIMPROVED ROAD PRIVATE ROAD WHIPROVED ROAD RIVER STREAM BRIDGE BRIDGE RAILGOAD COMMERCIAL dUILCING SCHOOL ASSENSE ROAD WHIPROVED ROAD RIVER STREAM BRIDGE ARILGOAD COMMERCIAL dUILCING SCHOOL COMMERCIAL dUILCING SCHO	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 48 pounds Apples: 1 Ton equals 48 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Cherries: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfa seed = 300 lbs. Since 1 bushel of alfalfa seed is equivalent to 60 lbs., then 5 bu. are equivalent to 5 x 6 or 300 lbs. The answer is 300, so 300 has been written in. b) 90 lbs. Timothy seed = 2 bu. Into answer is 300 so 300 has been written in. Do the problems below in a similar manner. 1. 20 bushels Alfalfa seed = 1bs. 2. 4 1/2 bushels Apples = 1bs. 3. 120 pounds Apples = 1bs. 4. 7 pounds Apples = 1bs. 4. 7 pounds Cherries = 1bs. 6. 200 Tons Apples = bu. 8. 200 quarts Cherries = bu. 8. 200 quarts Cherries = bu. 8. 200 quarts Cherries = 1bs. 9. 10. A rancher reports has yield of apples for two orchards as follows: ORCHARD A = 1,440 pounds
LEGEND OMELLING COMMERCIAL dUILCING INDUSTRIAL dUILCING SCHOOL HOSPITAL CONCRETE ROAD UNIMPROVED ROAD UNIMPROVED ROAD PRIVATE ROAD WHIPROVED ROAD RIVER STREAM BRIDGE BRIDGE RAILROAD CT. CEMETERY	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 40 pounds Timothy seed: 1 Bushel equals 48 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Cherries: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfa seed = 300 lbs. Since 1 bushel of alfalfa seed is equivalent to 60 lbs., then 5 bu. are equivalent to 5 x 6 or 300 lbs. The answer is 300, so 300 has been written in. b) 90 lbs. Timothy seed = 20 bs. Since 45 lbs. of 50 or 2 bs. The answer is 2 so 2 has been written in. Do the problems below in a similar manner. 1. 20 bushels Alfalfa seed = 1bs. 2. 4 V2 bushels Apples = 1bs. 3. 120 pounds Apples = 1bs. 4. 7 pounds Cherries = 1bs. 4. 7 pounds Cherries = 1bs. 6. 200 Tons Apples = 1bs. 8. 200 quarts Cherries = 1bs. 9-10. A rancher reports his yield of apples for two orchards as follows: ORCHARD A = 1,400 pounds ORCHARD B 40 bushels Compute his total crop for the two orchards in pounds and in bushels.
LEGEND OMELLING COMMERCIAL dUILCING INDUSTRIAL dUILCING SCHOOL HOSPITAL COMCRETE ROAD UNIMPROVED ROAD UNIMPROVED ROAD PRIVATE ROAD WHIPROVED ROAD RIVER STREAM BRIDGE BRIDGE RAILGOAD COMMERCIAL dUILCING SCHOOL ASSENSE ROAD WHIPROVED ROAD RIVER STREAM BRIDGE ARILGOAD COMMERCIAL dUILCING SCHOOL COMMERCIAL dUILCING SCHO	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 48 pounds Apples: 1 Ton equals 48 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Cherries: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfa seed = 300 lbs. Since 1 bushel of alfalfa seed is equivalent to 50 lbs., then 5 bu. are equivalent to 5 x 6 or 300 lbs. The answer is 300, so 300 has been written in. b) 90 lbs. Timothy seed = 2 bu. Since 45 lbs. of Jimothy seed are equivalent to 1 bu.—then 90 lbs. are equivalent to 50 or 2 bu. The answer is 2 so 2 has been written in. Do the problems below in a similar memor. 1. 20 bushels Alfalfa seed = 1bs. 2. 4 1/2 bushels Apples = 1bs. 3. 1/2 bushels Apples = 1bs. 4. 7 pounds Cherrica = qts. 5. 3 1/3 bushels Timothy seed = 1bs. 6. 200 Tons Apples = bu. 7. 90 pounds Alfalfa = bu. 8. 200 querts Cherrica = 1bs. 9.10. A rancher reports his yield of apples for two orchards as follows: ORCHARD A = 1,440 pounds GRCHARD B = 1,440 pounds GRCHARD B = 1,440 pounds GRCHARD A = 1,440 pounds
LEGEND OMELLING COMMERCIAL dUILDING INDUSTRIAL dUILDING SCHOOL MOSPITAL CONCRETE ROAD UNIMPROVED ROAD UNIMPROVED ROAD PRIVATE ROAD AILERM STREAM ARILROAD RAILROAD COMMERCIAL DUILDING SCHOOL ASSENSATION COMMERCIAL DUILDING SCHOOL ASSENSATION COMMERCIAL DUILDING COMM	TEST 2 ARITHMETIC Use the "Conversion Table" to do the problems below. Conversion Table Alfalfa seed: 1 Bushel equals 60 pounds Timothy seed: 1 Bushel equals 48 pounds Apples: 1 Ton equals 48 pounds Apples: 1 Ton equals 41.67 bushels or 2,000 pounds Cherries: 1 Quart equals 1 3/4 pounds For example: Convert— a) 5 Bushels Alfalfa seed = 300 lbs. Since 1 bushel of alfalfa seed is equivalent to 50 lbs., then 5 bu. are equivalent to 5 x 6 or 300 lbs. The answer is 300, so 300 has been written in. b) 90 lbs. Timothy seed = 2 bu. Since 45 lbs. of Jimothy seed are equivalent to 1 bu.—then 90 lbs. are equivalent to 40 or 2 bu. The answer is 2 so 2 has been written in. Do the problems below in a similar memor. 1. 20 bushels Alfalfa seed = 1bs. 2. 4 1/2 bushels Apples = 1bs. 3. 120 pounds Apples = 1bs. 4. 7 pounds Cherrica = 1bs. 4. 7 pounds Cherrica = 1bs. 5. 3 1/3 bushels Timothy seed = 1bs. 6. 200 Tons Apples = 1bs. 7. 90 pounds Alfalfa = bu. 8. 200 querts Cherrica = 1bs. 9.10. A rancher reports his yield of apples for two orchards as follows: ORCHARD A = 1,440 pounds ORCHARD B = 1,440 pounds in pounds and an bushels.

Figure 5.—Selection Aid for Enumerators (Pers. 165 Form B).

TEST 3

the During see hours a day One son worl of them rec for which he	obsern using rent-free 6 scress of pastureland belonging to Mr. Smith of the work of the week of Oct. 24-30 Mr. Jones was 111. He worked about on Mandey and Tuesday and an additional 4 hours over the week-of Mr. Little and more than one worked bours a day for 4 days. Next week of Mr. Little and more free work of the work of the week of Mr. Jones was 111. He worked about on Mandey and Tuesday and an additional 4 hours over the week-of Mr. Little and another son worked bours a day for 4 days. Next week of Mr. Little and another son worked bours a day for 4 days. Next week of Mr. Little and another son worked bours a day for 4 days. Next week of Mr. Little and another son worked bours a day for 4 days. Next week of Mr. Little and another son worked bours a day for 4 days. Next week of Mr. Little and another son worked bours a day for 4 days. Next week of Mr. Little and another son worked bours a day for 4 days. Next week of Mr. Little and another son worked about 10 hours during the we was paid \$12.00.
the During see hours a day One son worl of them rec for which he	How many acres of land do you GWN* If you own more than one tract of land INCLIDS ALLIAND OWNED. Include not only cropland but also pastureland, woodland wasteland etc. LAND RENTED FROM OTHERS How many acres of land do you RENT FROM other-including any worked on there-including any worked on there-including any worked on there-included in the state of the medical pastureland, wasteland, etc. The include land used to you rent (ree.) smoot of the week of Oct, 24-30 Mr. Jones was 111. He worked about on Mondey and Tuesday and an additional 4 hours over the week-of odd to the state of the worked about 10 hours during the weighted the state of the worked about 10 hours during the weighted and the state of the worked about 10 hours during the weighted about 10 hours during the
the During see hours a day One son worl of them rec for which he	How many acres of land do you GWN Note If you own more than one tract of land Note If you own more than one tract of land Note If you own more than one tract of land Note If you own more than one tract If you need to be a seed of the land If you need to be a seed If you rent (ree) If you need to be a seed If you need
the During see hours a day of arm of them rec is for which he	LAND RENTED FROM OTHERS How man acres of land do you RENT FROM other- including any norted on shapes.* (Include any separate fields, meadow, partirels of, a wording, warriand, ere. The include land used to you rent (ree.) must of the week of Oct, 24-30 Mr. Jones was all. He worked about on Mondey and Tuesday and an additional 4 hours over the week-o ked full time and another son worked should be four days. Yest vertieved only now. His other son worked about 10 hours daying the we
the During see hours a day One son worl arm of them rec for which he	How man acree of land do you RENT FRUM other-including any worked on shaper's including any worked on shaper's including any worked on shaper's include any separate fields, meadow, parturals id, a worldand, wareland, ere. Also melude land used to you tent free land, ere. Also melude land used to you tent free land, ere. Also melude land used to you tent free land, ere. Also melude land used to you tent free land, ere. Also melude land used to you tent free land, ere. Also melude land used to you tent free land, ere. Also melude land used to you tent free land, ere. Also melude land used to you tent free land, ere land,
the During see hours a day One son worl arm of them rec for which he	mounted on which on shapers and the meadows pasturels of a control of the work of Oct. 24-30 Mr. Jones was 111. He worked about on Monday and Tuesday and an additional 4 hours over the week-of Mr. Jones was 111 may be worked about 11 time and another son worked shours a day for 4 days. Yest existed only pay. His other son worked about 10 hours during the wetween the worked should be supported by the worked with the worked should be supported by
During see hours a day one son work farm of them rec for which he	most of the week of Oct, 24-30 Mr. Jones was 111. He worked about on Mondey and Tuesday and an additional 4 hours over the week-oked full time and another son worked shours a day for 4 days. Next exived any pay. His other don worked about 10 hours during the w
the During need hours a day One aon work farm of them rec for which he	on Monday and Tuesday and an addational 4 hours over the week-o ked full time and another son worked 4 hours a day for 4 daws. Next reived any pay. His third son worked about 10 hours during the w
orm One son work of them rec t is for which he	on Monday and Tuesday and an addational 4 hours over the week-o ked full time and another son worked 4 hours a day for 4 daws. Next reived any pay. His third son worked about 10 hours during the w
pony :	About how many hours the week of Oct. 24-30 did you (the person in charge of this punce do farm) a like the person in charge of this punce do farm a like to the like
7	# How many OTHER MIMBERS DE YOUR
•	a How makes, CHI II MIMIN R. DE VOLR CONTROL TO THE CONTROL THE CO
8.	the How many HIRLD PERSONS did not farm work or
Vinne	chores on this place the week of Oct (24-30). This identification for North American State of North American (34-3), wages
	- 6 -
ton. He use	nes estimates that he has purchased 4 tons of fertilizing mater o he used on 20 acres. The material cost him an average of \$50 ed the fertilizer as follows: ton on 7 acres of corn tons on 6 acres of potatoes
v	2 ton on 3 acres of oats 2 ton on 4 acres of hay
Fertilizer w	eas not used on any other crops or acreage,
NOTE: Conve	ert all fractions of tons to tenths, i.e., 1/10, 2/10, 3/10, etc.
	·
14.	How much COMMERCIAN FIREHEIDEN WITHGUS was purchased the very large to the condition of humans draw the
of	this year (1) On how
	I or rich roup, unever three questions (II none, check none.) I tow man loss were fertilizer used used "
e- 15.	(n) Has and cropland past tre
16.	(b) Other pasture and croplands None
17.	(c) Corn*
18.	(d) Wheat*,
	(c) Fruits, vegetables, and potatoes.*
20,	(f) Other crops* Util name) None
od	
	Fertilizer NOTE: Convertible to the total control of the total control o

Fourth day—Continued

- 5. Preparing for the checking of coverage (1/4 hour)
- 6. Preparing for making assignments of enumerators to enumeration districts (1/4 hour)
- 7. Training enumerators (½ hour)
- 8. Questions (¼ hour)

Fifth day:

- 1. How to review enumerator's work (2 hours)
- 2. How to replace enumerators and make reassignments (3/4 hour)
- 3. Completing the job (¾ hour)
- Issuing materials and supplies to the crew leader for his area (1¾ hours)

C. TRAINING OF ENUMERATORS

Duration of training:

A total of 12 hours on 4 different days

First day:

- 1. Description of his job (11/4 hours)
- 2. How to use enumerator's map (Training given by presenting film strip and recording "Your Map is Your Guide") (¼ hour)
- 3. Explanation of Agriculture Questionnaire (A1) (1½ hours)
- Review Agriculture Questionnaire filled out at home by each enumerator (½ hour)
- 5. Explanation of how to fill questionnaires (Instruction given by film strip and recording) (1 hour)

Second day:

- 1. Instructions on how to fill questionnaires, continued (Instructions given by film strip and recording) (34 hour)
- Practice enumeration in class room. The enumerators acted as the enumerator and the crew leader as the respondent (3 hours).
- Assignments of enumeration districts and distribution of supplies for enumeration on third day (¼ hour)

Third day:

1. Actual enumeration in an assigned area

Fourth day:

- Discussion of problems encountered during enumeration on third day (1¹/₄ hours)
- 2. Individual review of each enumerator's work (1½ hours)
- Assignment of enumeration districts and delivery of work materials (1¼ hours)

Office space, supplies, and equipment.—It was necessary not only to obtain office space, but also equipment and supplies for the use of the large number of temporary personnel required for taking the Census. Office space was secured only for Field Processing Offices and Agriculture Field Offices. It was necessary for crew leaders and enumerators to use their own homes as their headquarters and offices.

In obtaining office space for Field Processing Offices and Agriculture Field Offices every effort was made to obtain free space. The first source explored was space in Federally owned or controlled buildings, such as Post Office buildings. Local governments and civic organizations were asked for free space in such public buildings as court houses, city halls, and schools. Free space was obtained for 82 of the 145 Field Processing and Agriculture Field Offices. The space used by Field Processing Offices averaged about 2,100 square feet per office. For the Agriculture Field Offices, about 975 square feet were used per office.

Several methods were used to obtain furniture, equipment, and supplies for the Field Processing and Agriculture Field Offices. Furniture was borrowed from Post Offices, other Government agencies, and local organizations. Much Government-owned used furniture was obtained free by transfer from regional governmental warehouses. When free furniture was not obtainable,

items of reconditioned furniture were procured from regional supply centers of Federal Supply Service.

Reconditioned adding machines and typewriters also were purchased from Federal Supply Service regional supply centers. Some reconditioned office machines from the Department of Commerce stock were shipped to field offices, and, upon completion of the enumeration, returned to Washington for use during the central processing operations. In other cases, adding machines and typewriters were rented locally by the Field Processing and Agriculture Field Office Supervisors.

Record players and film projectors were required for training crew leaders and enumerators. This equipment was supplied from stocks returned from the 1950 Census and was shipped to the Agriculture Field Offices for distribution to the crew leaders. Two training records and film, strips were prepared for training crew leaders and enumerators. One, "Your Map is Your Guide", with a running time of 12 minutes, explained and illustrated how to use the maps provided for each enumeration district. The other, "Enumeration Instructions," with a running time of 54 minutes, was shown to the enumerators in two separate sessions; Part 1, in the last period of the first day's training session; and Parts 2, 3, and 4 at the beginning of the second day's training session. This film strip explained and illustrated the use of the various enumeration forms and how to conduct an interview by the device of having the training class accompany an enumerator from his breakfast table at home until the end of his first interview.

Paper, pencils, paper clips, and other standard office supplies were purchased from Federal Supply Service. These supplies were purchased and distributed by two different methods. Under the first method, the anticipated needs of each field office, conservatively estimated, were reported to regional supply centers of the Federal Supply Service, where packages containing the requested supplies were prepared for each field office to open in their regions. When the field office was ready to open, the supply centers shipped the supplies and usually, these supplies arrived the day the field office opened. Under the second method, the supplies were purchased in bulk for delivery in Washington. These bulk supplies supplemented the "packaged" supplies delivered direct, and were shipped to field offices as required.

Most of the supplies used by the enumerator, including the questionnaires, were assembled in Washington and placed in each enumeration district portfolio. A reserve supply of enumeration forms was sent to each Agriculture Field Office and to each crew leader.

Packaging and distributing enumerator's supplies.—Most of the supplies used by the enumerators, including the questionnaires, were assembled in Washington and placed in the enumerator's portfolio.

A separate portfolio (see fig. 6) was prepared for each enumeration district. The portfolio was made of two pieces of heavy cardboard, 13 inches wide and 20 inches long, attached together by a canvas hinge to form a folder. An open-topped, accordian-pleated heavy paper envelope was fastened inside the cardboard folder, with the opening in the envelope next to the canvas hinge. Thus the top piece of cardboard, when folded over, formed a full-length flap to help hold the contents securely. An elastic cord, attached to the back piece of cardboard, could be stretched around the portfolio to hold it closed.

The exact contents of the portfolio varied according to the location and expected number of farms in the enumeration district. In general, supplies of the following items were included:

Enumeration district map

Enumerator's Record Book

Agriculture Questionnaires

Enumerator's Daily Report (preaddressed post eard form)

Specified Farm Coverage Cards (if required)

Writing board and elip

Blank envelopes

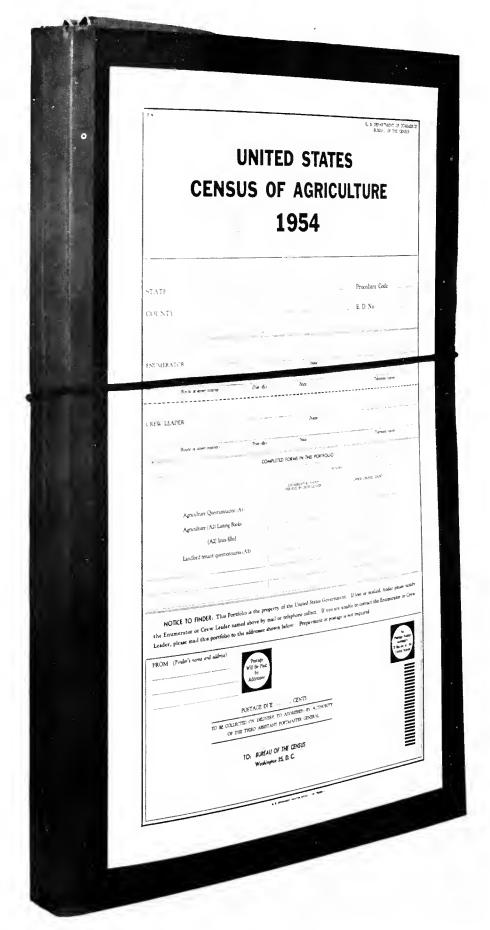


FIGURE 6.—The portfolio.

Forty-two thousand enumerator's portfolios required for the Census were assembled and packaged in Washington. The forms and supplies were inserted in the portfolios at successive stations along a waist-high rack composed largely of roller wheels. Bulk supplies of a given kind were brought to each station on "skids" by hydraulic-lift trucks. As the portfolios moved from one end of the rack to the other, the required number of each type of supply was inserted. Forms required in small numbers were counted. The number of forms, such as the Agriculture Questionnaire, required in large numbers for each enumeration district, was determined by use of a measuring "spoon".

The filled portfolios were labeled for specific enumeration districts, packed by crew leader districts into wooden or cardboard boxes, and shipped to the Agriculture Field Offices. The portfolios for enumeration districts in each area were given to the respective erew leader on the last day of his training. He took these in his automobile and distributed them to enumerators on the last day of enumerator training. The wooden boxes were stacked and used as shelves in the Agriculture Field Offices. After enumeration had been completed, the portfolios were packed in the same wooden boxes for shipment to the Central Operation Offices.

Distribution of Agriculture Questionnaires by mail.—Approximately 7,900,000 copies of the Agriculture Questionnaire were distributed by mail to boxholders on the rural routes in all States except Alabama, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, and 53 of 75 counties in Arkansas. These ques-

tionnaires, mailed about 2 weeks before the enumeration began, were accompanied by a letter asking the farm operator to examine the questionnaire and to answer the questions prior to the visit of the enumerator. (See fig. 7 for copy of letter.) When the enumerator made his visit he was instructed to ask for the questionnaire, check it, and obtain whatever information was needed to complete it. This procedure enabled the farmer to know in advance what information was required and provided some leeway of time within which he could supply the answers at his own convenience. This procedure was of particular importance to those farmers who preferred to supply the information on the basis of their records. Expected results were that the quality of the information would be improved and the work of the enumerator expedited. Records show that in the area in which the Agriculture Questionnaire was distributed by mail, the enumerator obtained and used the mailed questionnaire in 43 percent of the cases and that the questionnaire had been filled out completely by 23 percent of the farm operators in the area.

The questionnaires for distribution by mail were printed in Chicago, Ill. Consequently, arrangements were made for distribution from Chicago to the local post offices in all parts of the country. A crew of about 25 temporary employees was recruited to pack the questionnaires into bundles of 50, and to tie, label, and sack them for delivery to approximately 34,000 post offices. This operation was performed from September 2 to November 2, 1954 and required 3,851 hours of work by clerical and supervisory personnel.

ENUMERATION PROCEDURES

The enumerator was assigned a specified area or an enumeration district for which he was to perform the enumeration. For this area he was furnished a map.

Enumerator maps were used to insure the completeness of the work of the enumerator. Thus, enumerators were usually required to visit and to make a record of all dwellings indicated on the map. However, in order to keep the cost of the Census within reasonable limits and to make the enumerator's job appear reasonable to him, exceptions were made to this requirement. In the 11,127 enumeration districts comprising incorporated places and urban areas, the enumerator was provided with a list of the names, addresses, and description in terms of acreage and kind of farm for all farms included in the 1950 Census of Agriculture. For these enumeration districts the enumerator was required to visit and locate only the farms listed for the 1950 Census and any other places which, on the basis of information he obtained, were likely to be engaged in farm production. Also in 14,798 enumeration districts in rural areas, the enumerator was permitted, with the approval of his crew leader to omit the listing and mapping of dwellings in built-up areas containing 50 or more dwellings. The crew leader was to indicate on the enumerator's map the part of the enumeration district in which the enumerator was to begin his work. The instructions to the enumerator outlined a systematic method for the enumerator to follow in making his visits in order to insure

the complete coverage of all parts of the enumeration district. The enumerator was required to list each dwelling and place in his enumeration district on Form A2 (see fig. 9) and to enter answers, as required, for columns 1 to 16. The answers to the questions in columns 3 to 13 of Form A2 provided the basis for the enumerator to determine when he was to fill an Agriculture Questionnaire (Form A1), and a Landlord-Tenant Questionnaire (Form A3). (See fig. 10. This questionnaire was used in approximately 900 counties in the southern part of the United States where a considerable proportion of the farms were operated by croppers and share-tenants.) Form A2 was also used to designate a sample of places for which additional information was to be obtained and to record notes about places to which another visit would be required. Form A2 was used to designate a sample of places through the use of shaded squares that appeared on every fifth line. Enumerators were required to indicate by means of placing an "X" in a square, the size group in terms of acreage of the place for which the Agriculture Questionnaire was filled. If the size group was indicated in a shaded square, then the enumerator was required to obtain additional information on the Agriculture Questionnaire for the place listed on that line. Columns 16 and 17 of the Form A2 were used as a record to indicate when the enumeration for the line had been completed as well as when another visit would be needed to complete the enumeration.

OFFICE OF THE DIRECTOR DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS WASHINGTON 25

Dear Fellow Citizen;

This letter is to ask your cooperation in the Census of Agriculture this fall. If you operate a farm as corn. oats. or hav: This letter is to ask your cooperation in the Census of Agriculture this fall. If you operate a farm if you have 20 or more chickens, turkeys, or geese; or if you grow any crops such as corn, oats, or hav; or geese; or if you have 20 or more fruit trees, grape vines, or or ranch; if you have any cattle, hogs, sheep, or goats; if you grow any crops such as corn, oats, or have planted nut trees we need to get this information from you. n you have 20 or more enickens, turkeys, or geese; or n ye planted nut trees we need to get this information from you.

The Congress has directed us to take this Census because the information is needed by farm people and by many other groups in the United States. It will save The Congress has directed us to take this Census because the information is needed by farm people and you time and reduce the cost of taking the Census if you will fill in the enclosed questionnaire before their representatives, by the Government, and by many other groups in the United States. It will save the enumerator's visit. A Census enumerator is now beginning to call at all farms in your area to collect You time and reduce the cost of taking the Census if you will fill in the enclosed questionnaire hefore the questionnaires.

A Census enumerator is now heginning to call at all farms in your area to collect

The explanations on the questionnaire will help you in filling it. The Census enumerator will he glad only items about which you may have a question. Some of the questions The explanations on the questionnaire will help you in filling it. The Census enumerator will he glad may not apply to your place and, therefore, will not require an answer. to help you with the answers to any items about which you may have a may not apply to your place and, therefore, will not require an answer.

As this letter is being mailed to all box holders in rural areas, a few persons to whom it does not apply to you, please do not fill it, but give it to the Census enumerator As this letter is being mailed to all box holders in rural areas, a few persons to whom it does not when he calls.

If it does not apply to you, please do not fill it, but give it to the Census enumerator

Thank you for your cooperation and help in completing this important nationwide inventory of our farms and agricultural resources.

Sincerely yours,

Robert W. Burgus Rohert W. Burgess

 Di_{rector} Bureau of the Census

Letter accompanying self-mailer. Al Agriculture Questionnaire

Enclosure

U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS WASHINGTON 25, D. C.

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID PAYMENT OF POSTAGE, \$300 (GPO)

RURAL-, STAR-ROUTE OR POST-OFFICE **BOX HOLDER** LOCAL

Address label, self-mailer, A1 Agriculture Questionnaire. FIGURE 8.

	ċ
	form
	C
•	
	à
	Sting
	Ū,
;	-
- 9	\sim
	2
	42
	١
,	9
,	9
,	9
,	9
,	١

	19dana eoi.	1	122		225		22.23	75	;	335		928	:	:	320		589	330	ā		332	333		ž	335			ä		88	88	340
Calinach (niprinstian and romarko		(81)											电影响电话 医结核 医阴茎的 医慢性 新原 化异丙基 医皮肤							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				2								
Pats cem- leted Enter ate only fter you navered	all ques- tions and bave com- pleted an Al if required.)	(12)			_																											
en Al filling ry for	XIII	1,000 acres & over				1	ATT T ATTER OF THE			9 1						Tana Bannin	1	it.	. 22		, .				a i			- 12 - 1	-			
after after of ent	no the parents of placed	100 to 300 to 1,000 299 999 acres acres acres & over						*****		86-00X		******		t.			ì	86-00 00	- decis						866-00X	-		·			lesse.	
only only be been	li on Aill on	00 to 3								062-001	¦					F		100-399	-						100-399					·		_
Man 14 T on th	are belo ections I I you	30 to 10 99 Erres								2 \$	-	••••	لسا			-		9 3	ļ				-		2	-			-			ļ.,
Ars Sections VIII through XIII an All to be flied? (Fill column 14 only after filling Section VII on the All) (a) Mark X on the basis of entry for the All XIII of the All X	Fill South	Under 30 30 9 scres ac							i.	S c speci	-					1		Order x]							-				. 1 .		
7 2 5 8 G	€ 5.9 % E	50,5				-	, variety	_	- :		-					_			<u> </u> 	-		لمتا			a Under 30	1						
Lean AI to be filled? (0)"Yes" in col. 9 & "Yes" in	(6)"No"in	(13)	Yes							Yes	- -					-		8							Yes							
23			No.	-				1		ž	1	1		- 1				ž			, ,				Š							
Person from whem infer- It am AI to be Are Sections VIII the matten was obtained (1917-27) of Fill column 14 of Col. 9 & Section VII on the A. Year'in (6) Mark X on the		(3)	Person on line	Name	Person on line	Person on line	Name	Person on line	N∎me	Person on line	Name	Name	Person on line	Name	Person on line	Name Denote the	Name	Person on line	Person on line	Name	Person on line	Person on litte	Name Person on line	Name	Person on line	Name Person on line	Мяте	Person on fine	Name	Verson on tine	Person on line	Name Person on tine
			8							Yes	İ							Yes							8				İ			
Does this person Hve in			ž							ž	1		L					ž	<u> </u>			1			Š	_						
ses this yean have rricaltural erations here he	lives? ("Yes" in any col. 4 to 8 indi- cetes agri- cultural operations)	•	No Yes							No Yes	-				••••	-		No Yes				·			No Yes	<u> </u>		••••				
2277		<u> </u>	Yes	+		1	_	_		Yes	+			-		Ť		E A	\perp	-		-	+			+			1		1	+
킇	Any vog- etables, herries, nersery or green-	10 mg (10 mg)	ŝ			+	*****			ŝ	_							°Z	¦				+		ž						 	
RATIONS tip to cof. 9. If and 13.) of his household	20 or more fruit frees, grupe: vines, and	3 %E	No Yes							Yes								, e	ļ						Yea							
ERAT ekip fo				_		_				°Z	1	_						ž	-	_		ļ	_		° N	1	_		-			
PART 1.—AGRICULTURAL OPER [1] (1/1/Yes" for any columns 3 to 8, skl 1] 1/1/No" for all columns 3 to 8, skl 1] Dece this person or any member of this rear—	20 or more chickens, turkeys, and	•	No Yes			-				No Yes								No Yes				ļ			No Yes					******		
LTUR mms 3				-	_					X X	-		-			÷	_	χ S	-	-			:		Ves	-			+			
SRICU ne col l colu	Any crops such se corn, eats, hay,	(ahace	No Yes			-				ž				•				°	-						ž	-				*****		
"Yes" for any co "Yo" for all colu- "No" for all colu- Does this person	26.5		Ϋ́					Ī		Yer	Ť		İ					, es					i		7 cs				i			
Yes Yes Dees			ů							ž								Š					-		Š							
5"	Part of the state	(or ranch)?	× 2		••••					ž	<u>.</u>							¥ ×	ļ						2				_		<u> </u>	
1 2			ž	_						Š	\downarrow		_			1		ž	\perp	_		-	-		ž	+			_			
Por mach place with any land located in the ED— A. WHEN BOMEDONE LIVES ON THE LAND IN THIS ED: Enter name of head of household, B. WHEN NO ONE LIVES ON THE LAND	IN THIS ED: (a) Enter name of person who rents land, grows erops on ahares, or uses land for livestock. (b) It one rents the land or uses the land for livestock, enter the name	bowles of the owner of the land	(6)																													
A2	me of road, etc	•N :																									_					
4	radmua a	up)		ā	181		3		ă	Ĭ	ł	H		ã	3		â	#		Ē	£	ž		ž	Z		ž	£		2	£	3

FORM 10. S. DEPATREENT OF COMMERCE No	Section 11—ASK LANDAORD THE ALL IENAM MAN ARE the names of all year treated. When the the treated that work to the treated that the treated that the treated that the treated that the treated that the treated to your ED The treated that the treated that the record to the treated that the record that the record of persons to be read a bance of the record of persons to be read a benefit to the record of persons to be read a benefit to the record of persons to be read a benefit to the record of persons to the record of persons to the record of the record of persons to the record of the	And is the state of the state o	BOUTT BO		11 - 70 0	D BY ENUMERATOR REMARKS (7)	Section 1 Sect	A3K A3K	ND1000000000000000000000000000000000000	20 20 20 20 20 20 20 20 20 20 20 20 20 2		THE CROPS TENANTS & THE CR	New New	RECEIVED
Addram of employer Addram of employer Desire served with the dog of OWNY (If you gar many serve of land of you OWNY (If you gar ment hand on the of the Addraw of the			C C C C C C C C C C	N Y SE Y	N L Note		Noor	No No No No No No No No No No No No No N	No	Acres None Acres Acres None Acres None Acres Acres Acres Acres Acres Acres Acres Acres Acres Acres Acres	B 88 88 88 88 88 88 88 88 88 88 88 88 88		Acres None Acres 41 41 42 42 42 42 42 42 42 42 42 42 42 42 42	
LAND RENTED FROM OTBERS 6. How many serve of land do you RENT PROM others. (Robert For Course state) of the course state of the course state of the course state of the course state of the course			Bhare of crops of cro	N Y S	No -		D Put	No O	No No No No No No No No	None None	B B B	Acres Bu Lb Lb Lb Lb Lb Lb Lb Lb Lb Lb Lb Lb Lb	Acres None Acres 42 42 42 42 42 42 42 42 42 42 42 42 42 4	
D No.	A Add the report tip sacts of the ten- that last 'before. There the states of that last 'before. There the states of the states of the states of the B. Ordan totals for that portion of the states of the states of the states of the states of the states of the states of the the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of		× × × × ×	No X X	X	x x	× ×	× ×	× × × ×					
Data Data Data Data Data Davi	C. Add tow 4+ B. The total for est 2 to colours a free to the colours at the colours at the colours at the colours at the colours at the colours at the colours at the colours at the colours at the colours at the colours and the colours at the col		× × ×	××	*	×	×	×	×					

Generally, the enumerator was required to list on Form A2 all dwellings and places in his enumeration district. The line number on Form A2 on which each dwelling or place was listed, was to be entered on the enumerator map, near to the location of the dwelling or place on the map. An illustration of the listing of places on Form A2 is given in figure 11 and an illustration of the enumerator's map showing the line numbers corresponding to dwellings and places is given in figure 12. This method used for indicating places enumerated on the enumerator's map aided in insuring that the enumerator had visited all places in the enumeration district and that the coverage of all parts of the enumeration district was complete.

In approximately 225 counties where there were a considerable number of farm operators who did not reside on their farms and where the farms were relatively large, enumerators were required to indicate on Form FA-100 (see fig. 13) the line number on Form A2 on which the operator of each 40 acres comprising the farm was located.

When an Agriculture Questionnaire or a Landlord-Tenant Questionnaire was required, the enumerator obtained, when avail-

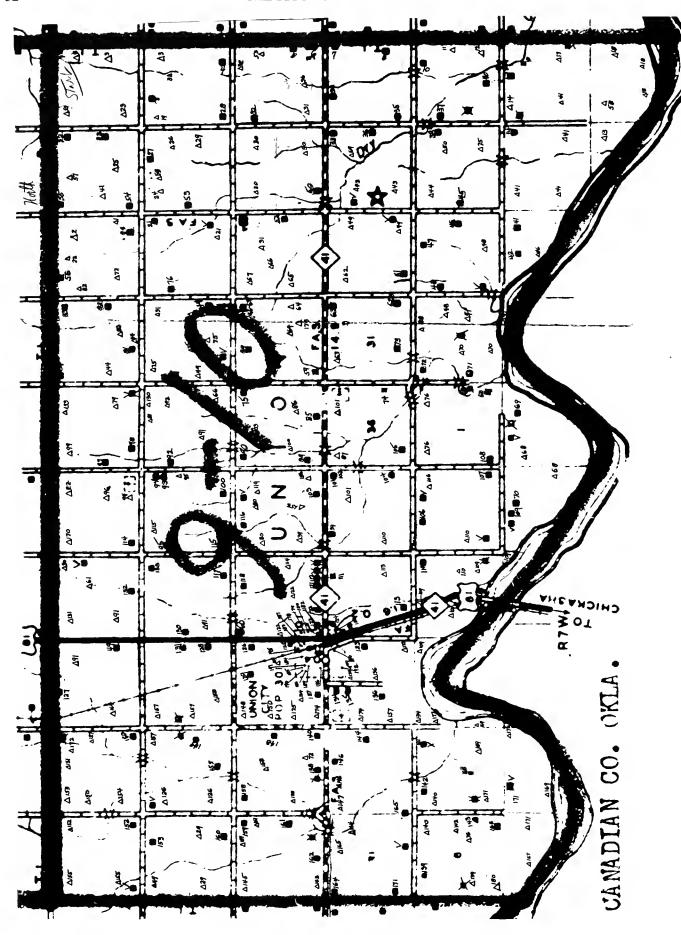
able, the copy of the Agriculture Questionnaire the operator had received by mail, or took a questionnaire from his portfolio and asked whatever questions were required for completing and checking the filling of the questionnaire. The enumerator was instructed to make his entries on the questionnaires and other records legible and make entries only when necessary or required by the questionnaire. (For example, if the answer to a question was "0", the enumerator was instructed to make no entry.)

Sections VIII through XII of the Agriculture Questionnaire were to be filled only for a sample of farms. This sample consisted of places listed on the Form A2 with the size of the place indicated in a shaded square and in addition, in selected States, places having an exceptionally large entry for a specified item. The specifications determining the additional places that formed a part of the sample when the entry for a specified item was exceptionally large, were given at the beginning of Section VIII of the Agriculture Questionnaire.

Enumerators in the selected counties in which the Landlord-Tenant Questionnaire was used, were provided with special instructions for filling this questionnaire.

	For each place with any land lorated in the ED- A. WHEN SOMEONE LIVES ON THE LAND IN THIS ED		94.	Yes"	for c	BF C	olumi	14 3 fo 8.	ERATIONS skip to col. 12 and 15.)	9	Dos	es this	Doe		Part II SOURCE C	12 00	Al to be	Are S	ectione VIII t		III an Al	Date com- pleted (Enter	Calibach Information and remarks	1
oto.	Enter name of head of household, B. WHEN NO ONE LIVES ON THE LAND IN THIS ED	Does the	uin '	Does this ye	ihis p	ereon	or an	y membe	r of hin bou	schold base	agr	eultural rations ere he	peri live you £D:	in .	mation was obtained	Rifed:	col 9 & "Yes' in	(a) M	rolumes 14 on the . Lark X on the	Ali Internolo	cotes for	date only after you have		
Name of road,	(b) If no one revite the laid or sizes the	membe of his house- hold operate a farm (or ranch)*	.	Any hoga, cuttle, abeep, or goats?		Any crops such corn, oats, or tabar	hay,	20 or more chickens turkeys, and geese?	20 or more frai trees, grape- vines, and planted nul trees?	Any veg- tetables, herries, nursery or green- house products grown for sale?	to it cate cate cub	es" in renl 4 5 indi- cs agri- lural rations)	ED.			A1./	cpl, 10 or or or or enl 9 & "No or "Yes" in col 10	(b) }:	quartion II a quare belon il Sections 31 of AI of con shaded square t14 30 to 100 i	Il thron	gh XIII ced X in	all ques- tions and		
(1)	(2)	(3) No 3	cr	(4) No 1	_	No i		(6) No : Ye	(7)	(8)	No.	(9)) Yes		10) Yes	Person on line	No	(13) Yes	acres	99 290 actor acto	999 arres	dr over	(15)	(16)	_
Hiplung, 15	John M. Kelly John Burns	>	- 1									×		X	Name Mas John Melly Person on line		X		X	: i		20v. 4		
U.C. 24							.								Person on line					ļ				
19		No Y	es	No	Yes	No) cs	No Ye	No Yes	No Yes	No) les	No.) cs	Name Person on line Name	No) es	U-4- 20	10-49 100-20	307-999	LIED V			
		-													Person on line Name Person on line									
															Person on line									
	***************************************	No Y	i es	No	Yes	No	Yes	No Ye	No Yes	No Yes	No) lor	No	Yes	Person on line	 No	101	Ueda 20	v9-499 200-29	: : : : : : : : : : : : : : : : : : : :	Late of			
			-										-		Person on line Person on line									
			7	ya:						- -					Name Person on line									
	John Smith	,	×ĺ	!	ì en	No	Yes	No Ye	No Yes	No Yes	No.	X Yes	No	X	Person on line/4 Name Person on line	No	X	ند نطا	X	_ vo-au	1400 07	Mar. 4	Home training , question naire	,
Ti		_	_								_		_	_			_	_						_
infrare 13	John Buene George Smith	,	X				[X		X	Person on line 2		×			X		Dov. 4		
110 24	Glacke It hite	×		X	X.	X		×	X	×	-	×		X	Name Person on line Name Name Ma. Clark Will		X			:	P P P P P P P P P P	70r. 4		
-	David Watson	1													Person on line	i	. ^ .	-		:				

FIGURE 11.—A2 Listing form (illustrative example).



	KANSAS
	County MASON
1954 CENSUS OF AGRICULTURE	E.D. No. Sheet 2 of 3 Sheets
MAP FOR CHECKING ENUMERATION OF FARMS IN SPECIFIED TOWNSHIP AND BANGE SURVEY AREAS.	Enumerator ALFRED L. PATTON
TOWNSHIP 2 N RANG	e3 W
15:14 0:12	eu : cu co : so : so co : so : so co
67 66 65 64 63 63 60 60 57 57 56 56 55 55,	
69 69 6515 65 62 62 61 60 59 59 58 58 55 553	
L2 L2 L2 80 C9 C9 C9 SS SS	44 54 52 52 53 53 53 52 52 52
172 173 173 174 174 174 174 144 144 144 144 144 144	54.54 54. 54. 54. 54. 51 . 51 . 51
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	54 54 54 54 54 54 51 31 51 51
73.73 13.72 73 75 73 44 44 44 44 44 44	45 45 46 46 48 48 47 49 51 51
73 73 73 72 73 75 75 72 44 44 44 44 44 44	45 45 46 46 48 48 49 49 51 51
76:76,97:77 79:78, 72 72 44:44:44:44 44:44	45 45 46 46 48 48 49 49 50 50
76:76, 77: 77 78: 78, 78 78 44: 44: 44: 44: 44: 44: 44: 44: 44: 44	
79 79, 44 49 78 78 78 82 92, 82 82 43 43	
19 19 (44 99) 80 80 80 80 82 82 82 43 43	
\$0. 80 80 80 80 80 80 80 82 82 83 89 43 43 80 80 87 87 80 80 80 82 82 83 83 43 43	
\$6 \$6 \$6 \$6 \$6 \$75 \$75 \$4 \$74 \$3 \$3 73 \$7 \$3 43 43 43 43 43 43 43 43 43 43 43 43 43	
\$6 \$6 \$6 \$6 \$5 \$5 \$4 \$4 \$3 \$3 \$3 \$3 \$3 43 43	
77 98 89 89 99 89 34 94 8 8 8 8 8 8 8	
28 88 89 87 89 89 84 84 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 70 70 70 70 39 39 36 36
89 99 89 87 87 90 70 87 87 87 8 8 8 8 8 8 8 8 8 8 8 8 8	7 8 8 9 9 7 9 70 70 38 38 35 35 35
39 39 39 39 90 90 74 84 3 8 8 8 8	8 9 9 70 10 12 12 34 34
91 92 93 4 4 4 7 7 7 8 5 8 5 5	8 8 9 9 9 9 /2 /2 3 3 3 3 3
96 95 74 4 4 8 7 7 9 9 8 8 8 8 7 7 7 9 9 8 8 8 8 8 7 7 7 9 9 8 8 8 8	9 9 9 9 7 7 72 32 32
77 77 77 77 77 77 77 77 77 77 77 77 77	* \$ [\$ [\$] [\$] " \$] \$] \$] \$] \$] \$] \$] \$] \$
7 2 2 5 4 4 6 6 3 8 3 8	77-23
marks f. Junes 8, 38, 53, 79, 80, 97 + 98 Lane	I land in adjoining towns list
	J. Lag.

Figure 13.—Map for checking enumeration of farms in specified township and range survey areas (Form FA-100).

In order to facilitate his work or provide records needed for control and payment for work, the enumerator was required to keep five other records. All except one of these were bound together with Form A2, to form a single booklet, called the Enumerator's Record Book. The records and the purpose of each were as follows:

Record of Work and Travel (Form FA-3).—This record provides a detailed record of the enumerator's travel, hours of work, and amount of work accomplished each day. The summary in part B of this record, was used for the calculation of the payment due the enumerator for his work in a completed enumeration district. (An illustrative copy of Form FA-3 appears in fig. 14.) This record also provided the information the enumerator needed for filling out his daily report of work. (See Form FA-7 in fig. 15.)

Enumerator's Daily Report (Form FA-7. See fig. 15).—This form was a preaddressed post card to the Agriculture Field Supervisor. The information needed for filling out this report was obtained from the Record of Work and Travel (Form FA-3). The enumerator was instructed to mail this report each day. This report served as a basis for indicating the amount of work performed each day and for measuring the progress of the enumeration.

Record of Telephone and Other Costs (Form FA-4. See fig. 16).—This record was maintained by the enumerator for the purpose of providing a basis for the payment of charges paid for telephone calls, etc.

Record of A2 Listings Requiring Crew Leader Action (Form FA-5. See fig. 17).—This form was used to list the names and addresses for operators living more than 15 miles outside the enumeration district, operators who refused to give the necessary information, and operators of places for which the enumerator was unable to obtain the required information. The purpose of this form was to secure a record for the crew leader of cases where the crew leader was required to take additional action in order to complete the enumeration.

Enumerator's Callback Record (Form FA-6. See fig. 18).—This record provided a summary, at a convenient place, of the places for which the enumerator was required to make other visits in order to complete his work.

Supervision of the enumerator and checking of his work.—The actual supervision of the enumerator by the crew leader began during the training period. The enumeration work performed by the enumerator during the training period was reviewed during the last day of the enumerator's training. After the completion of the training, crew leaders were required to devote full time during the enumeration period to visiting the enumerator while he was working in his enumeration district. The first of these visits was to be made, if possible, during the first few days of his work. The least capable enumerators were to be visited first. The duration of the crew leader's first visit was to be at least 3 hours and that of subsequent visits 1 to 2 hours. On the last visit the crew leader checked the work for the enumeration district completed by the enumerator and if the work was acceptable, took the materials for the completed enumeration district with him. Records indicate that the average number of visits by crew leaders to enumerators was 4.1. The kind and amount of review of the enumerator's work at each visit of the crew leader were outlined by the crew leader's instructions. At the first visit, the crew leader was instructed to observe at least one interview by the enumerator when he was filling out an Agriculture Questionnaire, and to help and to suggest improvements in interviewing. The crew leader was also required to review all the questionnaires and forms filled by the enumerator during his first day's work and to check the enumerator's map to see that it was being used properly.

The review of questionnaires and forms involved the checking of Form A2 to see that entries were being made properly; that the indication of lines comprising the sample was being accurately made; the checking of Agriculture Questionnaires to determine that all entries were legible, that all required questions had been answered, and that Sections VIII through XII had been filled where required; and the comparison of entries for items that could be checked with the entries for other items on the questionnaire. The crew leader made a record of his checking on Form FA-18 (see fig. 19) and indicated on Form FA-17 (see fig. 20) the items which he thought would need checking on his subsequent visits. If the crew leader found the enumerator's work satisfactory, he was instructed to review every tenth Agriculture Questionnaire filled after his first visit. The crew leader was required to sign each Agriculture Questionnaire that he checked. In his review of materials for completed enumeration districts, the crew leader was instructed to make a complete review of the Enumerator's maps to see that the entire enumeration district had been covered, the Form FA-2 and the Agriculture Questionnaire had been completed satisfactorily, all specified farms had been accounted for, all callbacks had been made, and that the Forms FA-3 and 4 had been filled out accurately. The crew leader checked and completed the filling of part B of Form FA-3, so that the information in this part could be used as a basis for paying the enumerator for his work.

A review and summary of each enumerator's work was made in the Field Processing Office before the payment to the enumerator for his work was approved. This review and summary was made primarily by tabulating clerks. When work for an enumeration district was completed and approved by the crew leader, the completed work was mailed by the crew leader to the Field Processing Office. The crew leader was provided with cardboard boxes for mailing each enumerator's portfolio.

The first checking of the enumerator's work in the Field Processing Office consisted of the verification of the amount of work completed, miles traveled, hours worked, etc., in order to provide data for preparing the enumerator's payroll.

The work submitted for the first 3 enumeration districts by the crew leader was given a detailed intensive review in order to insure that the crew leader was making an adequate review of each enumerator's completed work. This review consisted of the checking to see that (1) each farm listed on the list of specified farms had been enumerated or satisfactorily accounted for, (2) an Agriculture Questionnaire had been obtained for each place for which the entries on Form A2 indicated that an Agriculture Questionnaire was required, (3) the designation of places in the sample had been performed accurately, (4) Section VIII-XII of the Agriculture Questionnaire had been filled completely, (5) the A2 line number had been entered for each place on the enumerator's map, and that all callbacks listed in Form FA-6 had been completed or a satisfactory explanation given. The results of this intensive review were recorded in Section II of Form FA-91 (see fig. 21).

For all enumeration districts except the first 3 received from the crew leaders, a review was made to determine (1) how many Agriculture Questionnaires were missing, (2) that the enumerator's section below Section VIII of the Agriculture Questionnaire had been properly filled, and (3) that the enumerator's map and other forms were present. If Agriculture Questionnaires were missing, form letters were mailed to the farm operators requesting that a report be submitted. A summary of the results of this review was recorded in Sections 3 and 4 of Form FA-91.

	Form FA-3	U.		EPARTMENT (ERCE		State	Kans			
				BUREAU OF THE				County	adeo	ch		
E	ter spec		ORD	OF PRODUCTI	ON AND T	'RAVEL		ED Nu	ımber 21	-7_		
'n	leage at	start			F	art A-DAI	LY RECOR	D			· · · · · · · · · · · · · · · · · · ·	
01	work da	<u> </u>	omet	Travel er readings	Miles	driven	Agricult obtained	ure ques. (Form AI)		vorked at rates		orked at y rate
l	Date \	Start of offic		Ending of official			_	1	<u> </u>			
l	(1)	travel (2)		travel	Today (4)	To date (5)	Today (6)	To date	Today (8)	To date	Today (10)	To date (11)
l	11-9-54	32,110)	32,131	21	21	12	12	9	9		
ľ	11-10-54	32,160		32,190	24	45	13	25	10	19		
ľ	11-12-54	32,23	3	32, 249	14	61)	14	39	9 1/4	28 1/4		***************************************
	11-13-54	32,270	***	32,282	22	83 \	10	49	4	34 1/4		
•		32,293		32,303							Only or	ne entry of
	11-15-54	32,313		32,329	14	99	¥2	61	19	43/4		driven to- r each date
	11-16-54			32,372	12	/11	11	72	8 3/4	52	Lay 101	each date
٠	11-17-54	32,375		32,386	11	122	12	84	105	62	1	
ŀ	11-18-54	32,390		32,400	10	132	10	94	81	70.	1	
	11-19-54	32,414		32,430	14	146	12	~	10		hours w	
	11-20-54	32,43		32,442	15	161	1	<u>_</u>	9	ed to	nearest	4
	************	32,450		32,458				7		1	· · · · · · · · · · · · · · · · · · ·	//
•	11-22-54			32,57			/	1		1	نا	//
ľ	11-23-54	22 570		32				·		1	1	/
			<i>L</i>									
	11-2											
	11-2	inter last entr		соштия (5), (7),	(9), and (11) on first line	on next page		. \			\
	Note: F		rodu	uction and tra		FA-3).	FOR PRIVATE UI	BE TO AVOIO				
	Note: F	Record of p	rode	uction and tra		FA-3).	FOR PRIVATE U	BE TO AVOIO				
	Note: F	Record of p	rode	RCE		FA-3).	FOR PRIVATE UI IENT OF POSTAI IGPOI	SE TO AVOID SE, 8300	Piller	E. D. NO. 2	1-7	
	Note: F	Record of p	rode	RCE	vel (Form	FA-3). PENALTY I PAYM CREW LEAGER: LEAU	FOR PRIVATE UI LENT OF POSTAL LOPOL	SE TO AVOID SE, 8300	liller	2	Transfe	or these
	Note: F	Record of p	rode	RCE OATE I - J COUNTY	vel (Form 2-54 Odeoc	FA-3). PENALTY I PAYM CREW LEAGER: LEAUL M	FOR PRIVATE U. IENT OF POSTAL IGPOI	STATE /	ansas		Transfe entries	
	Note: F	Record of p	rode	RCE OATE I - J COUNTY	vel (Form 2-54 Odeoc	FA-3). PENALTY PAYM CREW LEAGER' LOUIS Wolete and mail	FOR PRIVATE UI ENT OF POSTAI (GPO) S NAME LUCUL I to your Fiel	STATE /	ose of each w	2 Forkday.	Transfe entries FA-3.	from
	Note: F	Record of p	rode	RCE OATE I - J COUNTY Instruc	2-54 Odlee	FA-3). PENALTY I PAYM CREW LEAGER' LOW OPERAT	FOR PRIVATE U. IENT OF POSTAI (OPO) S NAME / LINCL I to your Fiel-	STATE /	ose of each w	orkday.	Transfe entries FA-3.	from
	Note: F	Record of p	rode	RCE OATE /// // COUNTY Instruc A. Agr	2-54 Odese Sculture Que	FA-3). PENALTY PAYM CREW LEAGER: LOW OPERAT Stionnaires F	FOR PRIVATE U. IENT OF POSTAL (OPO) S NAME //LINCL/ I to your Fiel FIONS tilled (A1)	STATE /	ose of each w	corkday.	Transfe entries FA-3.	from
	Note: F	Record of p	rode	COUNTY Instruction and training and trainin	2-54 Odese iculture Que	FA-3). PENALTY I PAYM CREW LEAGER' LOW OPERAT	FOR PRIVATE UI IENT OF POSTAI (OPO) S NAME LUCC I to your Fiel FIONS illed (A1) s	STATE /	ose of each w	orkday.	Transfe entries FA-3.	from
	Note: F	Record of p	rode	OATE I - J COUNTY Instruc A. Agr B. Hot C. Hot	2-54 Odese iculture Que	FA-3). CREW LEAGER: Level OPERAT Stionnaires F at Piece Rate	FOR PRIVATE UI IENT OF POSTAI (OPO) S NAME LUCC I to your Fiel FIONS illed (A1) s	STATE /	ose of each w	2. // // // // // // // // // // // // //	Transfe entries FA-3.	from
	Note: F RE 14.—F S. S. DEPART BUREAL WASH OFFICE	Record of p	mmee in	RCE OATE	2-54 Alcoe tions: Comp iculture Que irs Worked in irs Worked in irs Driven	FA-3). CREW LEAGER: Level OPERAT Stionnaires F at Piece Rate	S NAME I to your Field FIONS illed (A1) s te	STATE /	ose of each w	2. // // // // // // // // // // // // //	Transfe entries FA-3.	from
	Note: F RE 14.—F S. S. DEPART BUREAL WASH OFFICE	MENT OF CO J OF THE CENS INGTON 25, O. C	mmee in	C. Hot	2-54 Alcoe tions: Comp iculture Que irs Worked in irs Worked in irs Driven	PENALTY PAYM CREW LEAGER LOW OPERAT Stionnaires F at Piece Rate at Hourly Ra ed on Form A	S NAME I to your Field FIONS illed (A1) s te	STATE /	ose of each w	2. // // // // // // // // // // // // //	Transfe entries FA-3. TAL INCLUD-18 TODAY 39 7 28 //4	from
	Note: F RE 14.—F S. S. DEPART BUREAL WASH OFFICE	MENT OF CO J OF THE CENS INGTON 25, O. C	mmee in	A. Agr B. Hot C. Hot F. Call	2-54 Odeoc tions: Comp iculture Que irs Worked ins Worked ins Worked ins Driven al Lines Fill backs Pendi la Thia E.	PENALTY PAYM CREW LEAGER LOW OPERAT Stionnaires F at Piece Rate at Hourly Ra ed on Form A	FOR PRIVATE U. S NAME L to your Field FIONS illed (A1) s te	STATE /	ose of each w	2. // // // // // // // // // // // // //	Transferentries FA-3. TAL INCLUDATE TODAY 39 - 28 /+	from
	Note: F RE 14.—F S. S. DEPART BUREAL WASH OFFICE	MENT OF CO J OF THE CENS INGTON 25, O. C	mmee in	A. Agr B. Hot C. Hot D. Mill E. Tot F. Call	2-54 Odeoc tions: Comp iculture Que irs Worked ins Worked ins Worked as Driven al Lines Fill backs Pendi	PENALTY PAYM CREW LEADER' LOW OPERAT Stionnaires F at Piece Rate at Hourly Ra ed on Form A	FOR PRIVATE U. S NAME L to your Field FIONS illed (A1) s te	STATE /	Consos of each w	2. // // // // // // // // // // // // //	Transferentries FA-3. TAL INCLUDE 18 /4 /4 /4 /4 /4 /4 /4 /4 /4 /4 /4 /4 /4	from

FIGURE 15.—Enumerator's daily report (Form FA-7).

		Travel			Agriculty	re ques.		orked at	Hours w	orked at
Date		ter readings	Miles	driven	obtained (Form AI)	piece	rates	hourly	rate
(1)	Start of official travel (2)	Ending of official travel (3)	Today (4)	To date	Today (6)	To date (7)	Today (8)	To date (9)	Today (10)	To date (11)
tals carr	ried forward									
						_				
			-	,						
					_		<u> </u>			_
-					-					
					-					
•••						*				
	Count que	nstion						-		
	naires to	o verify								
	this ent	•	ert B—PRO	DECTION	AND CLAIM	A SUMMA	R V			
tes used	in column (3) mus				ppointing you			Payroll ve	rification	P: \
	Item	- 111		Number	Rate	Amount		Number	Cost	Final ED total
	(1)	/		248	(3)	Dollars X X X	Cents	(5)	(6)	(7)
	ure quest. (A1)—T			199	XXXX		9 50			
	mple not required mple required and		7	49	Each \$.70		4 30			
	d-tenant quest. (A3	•			Each 8					••
	completed (A2)		4	192	Each \$0 07	3	4 44			
Transit	time (miles driven)		1		Mile \$					
Hours w	orked at hourly rat	te	/_		Hour \$		_			
Total—	Lines 2+3+4+5+	6+7				168	3 24			
Total m	iles driven		/	281	Mile - \$0.07	10	1 67			
. Total t	elephone charges	Must equa					77			r these
. Road,	bridge, and ferry to	$^{ m lls.}$ line fill	led minus				45	annanna.	annumuming 1	TOM TACE
. Total-	-Lines 9+10+11	any lines	crossed			22	2 89			
			CERTI	FICATION	OF COMPL	ETION				
This is have be	to certify that I haven duly and truthf	ve, on this date, con ully made in accord	mpleted the diance with la	enumeration	of the district	indicated a	hove and the	returns, in les shown an	the quantities	shown, alls and
other to	oll costs on which re d were w <mark>orke</mark> d on t	eimbursement is cla								
	,	David	TI R	noton!	,		novem	s less 20) 1054	
	<i>t-</i>	(Enun	negator's Signatu	ire)	*****		i sancille		c., 1994	
find the	y that I have receive enumeration has	peen completed sat	isfactorily for	r this enume	eration district	ited for; tha . I further	t I have revi certify that	ewed the ma	aterial submitt shown for nu	ted and nber of
questio	nnaires, hours work	kea, miles driven, a	nd other cha	rges should	be paid.					

FIGURE 14.—Record of production and travel (Form FA-3)—Continued.

Form F		TMENT OF COMM	ERCE	State	Kan	esas			
	RECORD OF TEL	EPHONE CALLS AN AND FERRY TOLLS	D ROAD,	County	_ade	coch			
	BRIDGE,	AND FERRI TOLLS	8	ED Nur	aber 2	1-7			
comp 10 w	A: Use a separate line for each paid oleting column 1 and columns 7 thro hen ED is completed. B: Enter road, bridge, and ferry to	toll call, completing ough 9. Attach receip	ta for all toll calls in exce	Inter local ess of \$1.0	calls mad). Enter	le on any total of a	one day o ll telepbon	o a separat ne cost in c	te line, olumn
	Part A.—TOLL AND LOCAL	TELEPHONE CAL	LS. (Receipt must be a	ttached f	or each to	oll call of	more than	\$1.00)	
		TOLL CALLS	8			LO	CAL CAI	LLS	
Date	Person called	Points between v	which call was made	Minutes	Total toll	Number	Cost	Total	Total tele- phone
	rerson caned	From-	То-	charged for	cost paid	calls	per call	cost paid	cost
(1)	(2)	(3)	(4)	(6)	(6)	(7)	(8)	(9)	(10)
1-12			-			2	\$.10		
1-13	- Quantity of March	8	- tlattandi		d 72	!	.10	. 10	X
11-15	Lawrence & Miller	sungues	- Sulland	5	\$.72				
11-16			-				.10	. 10	
11-17 11-19	John a Tell	Sunflower	Wheaton	5	.95	3	.10	. 30	
11-22	gorono Co. Callo	1	1		. 13		. 10	. 10	
11-26			-	••••		<u>/</u>	10	. 10	
11-29			/			2	.10	.20	
	·		<i>X</i>			2		.20	
			-						
					A t	ttach a	recei;	pt for ore that	each
		/	-		t t	FA-4.		oro one	** AT 0.
	Enter series17-ed		-						
	Enter person called points between which	h call							
	was made for all to	oll calls.		••					
			-						
- [-			· · · · · · · · · · · · · · · · · · ·		<u>2</u>	
								·····	
					- 1	- 1		12	
									[]]]]]]]]]]
PAGE	TOTALS (Enter on first line of per	t page)			7 7 <i>al.</i> ₹	11		\$1.10	<i>\$ 2.</i> 77
PAGE	TOTALS (Enter on first line of nex	t page)			7 ما. ا	11		\$1.10	\$ 2.77
		t page)			₹/.Lo7	11_		\$1.10 S	\$ 2.17
		t page)			7 ما. ا	11_		\$1.10	\$ 2.17

 $\label{eq:Figure 16.} \textbf{Figure 16.} \textbf{—} \textbf{Record of telephone calls and road, bridge, and ferry tolls (Form FA-4).}$

İ		TOLL CA	LLS					LO	CAL CAI	LLS	
Date		Points between	en whicl	ı call w	as made	Min- utes	Total toll	Num- ber	Cost	Total	Total tele- phone
	Person called	From—			То—	charged for	eost paid	calls	per call	paid	cost
(1)	(2)	(3)			(4)	(5)	(6)	(7)	(8)	_(9)	(10)
Totals ca	arried forward from preceding page						1	7			
	***************************************									٦	
					se sh	you havection or neet, enveceding	f conti ter to	inuatio tals fr	n		
										-	
		-	-		-	_					
					7						illihihi.
	Attach	each receipt	for olls t	road o	,						
	FA-4.			_	-						
								<u> </u>	numum.		
				_	Total		\$167	//		\$1.10	\$2.77
Part B	-ROAD, BRIDGE, AND FERRY	TOLLS, (Recei	pts for e	each in	ust be attac	hed					
Date	Item		Total	cost	Date			lteni			Total cost
_(1)	$\frac{(2)}{\sqrt{1-(2)}}$	=	(3	: "	(1)	d forward		(2)		/	(3)
11-16	Flatland Fred Trickle Ruir	Will !	\$	25	Total carrie	d forward			/		
11-23	Trickle River	soriage		10							
11-23	Triente suer	earieige		10			-			¬	
					E	nter tot omplete	als he	re when	you		
					ب ا		70				
						/					
					/					———	
	I .				/	Be sure	to ei	gn FA-	4.		
						$\overline{}$					
			4.	UE			•				
		Total	\$	45	CATION		\rightarrow			Total	

Figure 16.—Record of telephone calls and road, bridge, and ferry tolls (Form FA-4)—Continued.

Form FA-	-5 U.	. S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS	State Kansas	
	PAIRIM PR		County adooch	/
	ENUMERA	ATOR'S RECORD OF A2 LISTINGS REQUIRING CREW LEADER ACTION	ED Number 21-7	
mation (persons	ontside your E and to compl and or telephoi	ch day any A2 Listiogs with "No" in Colume 3 and "No" or "Don ED. (Where the person lives less than 15 miles outside your olete the A1 if an A1 is required. Also list any incomplete callba one) but have failed to locate a responsible person who could g is. Discuss this listing with your Crew Leader each time he vis	ED, you will visit the person to acks within your ED for which you give sufficient information to comp	obtain the necessary infor- ou have made repeated calls
Date	A2 line No.	Name and mailing address of operator or owner	Reason not completed	Crew Leader's action and date
(I)	(2)	(3)	(4)	(5)
1-9	3	Marvin L. Williams Route 28, Box 625 Dixon, Kansas	Operator lives about/25 miles outside my E.D.	with enumero tovin ED 21-8.
1-12	35	Eli W. Stone Route 7, Box 581 Iney, Kansas	Owner refused to give any information.	28m 11-13 Will visit myself. 28m
1-13	48	Arthur Z. Jones 17 Edmon St. Kansas City, Kausas	Lives outside my E.D.	11-18 Outside/my Sistrict/ Will complete/ F.A. 21 28M
1-19	11	William E. Murray Inez, Kansas	Have made repeats- edicalls but haven't been able to locate person who can give information.	11-20 Will assign to Jones ZSM
		Enumerator fills columns (1), (2), (3) and (4).	he	ew Leader enters act is going to take and te of his discussion
				

Figure 17.—Enumerator's record A2 listings requiring crew leader action (Form FA-5).

Form FA-6 U. S. DEPARTMENT OF COMMERCE ENUMERATOR'S CALLBACK RECORD BUSEAU OF THE CENSUS INSTRUCTIONS Use this Form FA-6 as a check list of ALL callbacks which you have indicated in Column 16 or 16 of the Listing Form A2. AT END OF EACH DAY, enter in Column 2 the A2 line number for each place on which you will be required to make another call to obtain information to complete the listing and/or Agriculture Questionnaire. DURING EACH DAY that you make an attempt to interview persons on your callback list, eoter the date in Columns 3 through 9. Identify telephone callback by the letter "T" preceding the date entry. NOTE: If you have referred a callback to your Crew Leader on Form FA-5, use Column 10 to record the date such referral was made. Date of personal visit or telephone call Date callback completed A 2 Date line No. Remarks Third callback First callback Second callback Fourth callback Fifth callback Sixth callback (2) (1) (3) (4) (5) (6) (7) (8) (9) (10)Callback referred C.L T 11-16 11-10 T 11-12 T //-13 11-15 11-19 // 11-10 T 11-12 Callafter 6:00 p.m 11-15 11-15 Ourper will return 11-15 11-10 20 11-12 11-15 Call at 8:00 am July 36 11-12 11-16 11-16 Use Remarks Column to record useful information. Identify telephone calls by placing the letter T before the date entry. Additional remarks or footnotes

FIGURE 18.—Enumerator's callback record (Form FA-6).

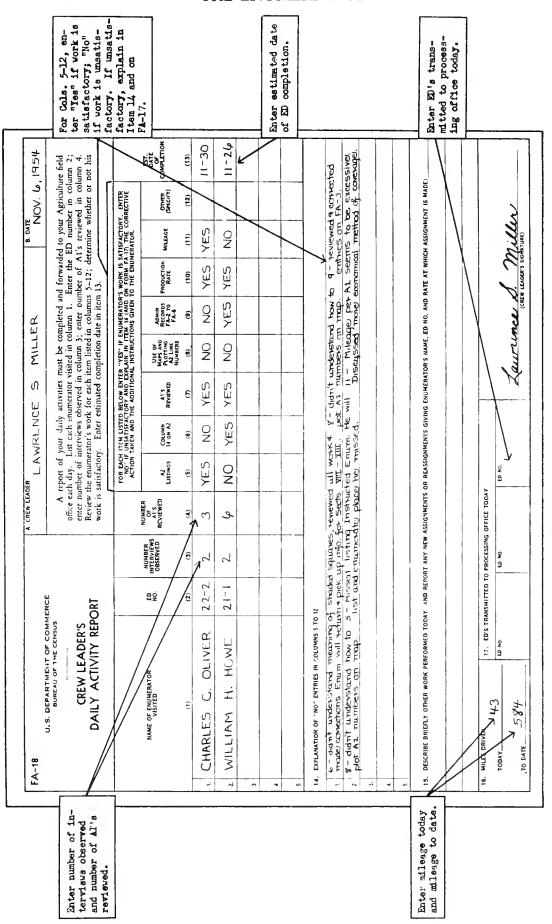


FIGURE 19.—Crew leader's daily activity report (Form FA-18).

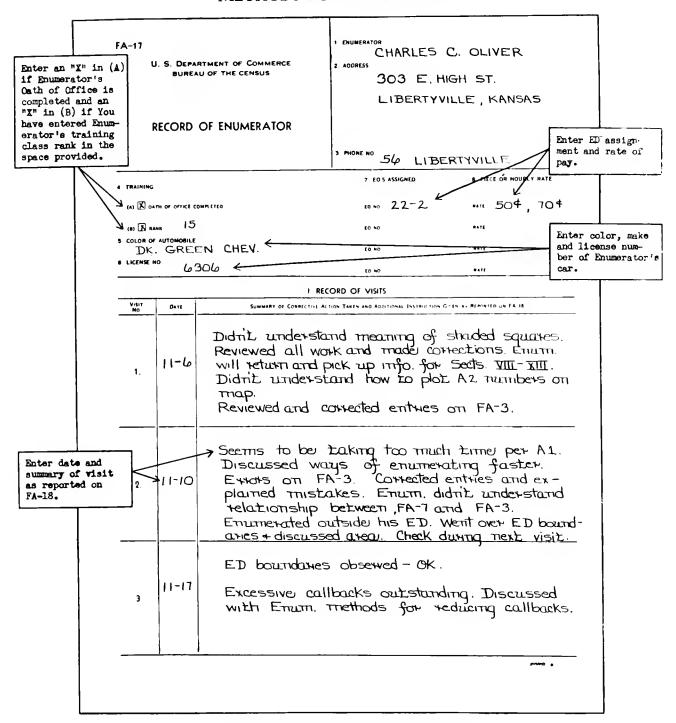


FIGURE 20.—Record of enumerator (Form FA-17).

Records of unsatisfactory work by the enumerator were recorded on Form FA-91 and the crew leader was informed immediately of the errors and inadequacies found during the review of the enumerator's work. If the review indicated 5 or more Agriculture Questionnaires (other than those for absentee farm operators) were missing, then the enumerator's work was returned to the crew leader with instructions to have the missing Agriculture Questionnaires obtained.

When the material for all enumeration districts in a county had been received and recorded, an additional review of the enumeration was performed before the enumeration was considered satisfactory. This review included the checking to see that all specified farms in the county had been enumerated or satisfactorily accounted for, the insertion into the proper enumeration district of any Agriculture Questionnaires received by mail from absentee operators or operators of farms not enumerated by the enumerator and the preparation of a county summary on Form FA-88. (See fig. 22 for an example of FA-88.) The data on FA-88 for 1954 was obtained by adding information from the Agriculture Questionnaire. The data for 1950 and for the check item 1954, were entered on the Form FA-88 before it was sent to the Field Processing Office. The data for 1950 were taken from tabulations for the 1950 Census of Agriculture. The data for the check item, 1954, represented, when available, the acreage of a selected cropusually one of the following: corn, wheat, cotton, tobacco or rice. The check data were available only for the county and were obtained from the Commodity Stabilization Service of the United States Department of Agriculture. The acreage for the crops selected for check items represented the measured acreage before

The data on Form FA-88 were compiled for two purposes: (1) To determine that the sampling procedures had been followed and (2) to determine that the coverage of the Census was reasonably complete. Criteria for the acceptability of the Census was established prior to the enumeration for each of these two purposes. The following table was used for determining the acceptability of the sampling procedure.

ACCEPTANCE TABLE FOR PERCENT OF FARMS IN SAMPLE

Total in column (7) of FA-88	Acceptab (in perce	
	Not less than—	Not more than—
Less than 100	13.0 14.0 15.0	(*) 27. 0 26. 0 25. 0 24. 0
500 to 599 500 to 699 700 to 799 800 to 899	16. 8 17. 1 17. 3	23. 4 23. 2 22. 9 22. 7 22. 6
1,000 to 1,249 1,250 to 1,499 1,600 to 1,749 1,750 to 1,999 2,000 to 2,499	17. 8 18. 0 18. 1	22. 4 22. 2 22. 0 21. 9 21. 7
2,500 to 2,999. 3,000 to 3,999. 4,000 to 4,999. 5,000 to 7,499. 7,500 and over	18. 7 18. 8 19. 0	21, 5 21, 3 21, 2 21, 0 20, 8

^{*}All counties to be accepted.

Acceptable percentages for the coverage of farms, land in farms, and for the check items were established for each county and were indicated on the FA-88 when it was sent to the Field Processing Office.

Form FA-88's for all counties, including those not meeting the established standards, were sent to Washington for review and approval by the Chief of the Agriculture Division. Of FA-88's for 3,100 counties, 2,389 were approved when they were submitted to Washington. For 711 counties, additional checking and work were required before they were approved. The additional work included the obtaining of missing questionnaire for specified farms, the checking of enumerator maps for indication of areas not enumerated, the reenumeration of areas, and the obtaining of the required information when the Section VIII through XII of the Agriculture Questionnaire was not filled.

Control over time schedule and cost of the enumeration.-The enumeration involved the employment of a large number of persons at one time and the expenditure of as much as \$350,000 each work day. In order to insure that the enumeration would be completed within the planned time period and with the funds allotted for this purpose, time schedules were established for all important operations, and the number of employees, maximum length of employment, and the rates of pay of all personnel were prescribed. Checks on the compliance with established controls both for time of performance of jobs and the employment of personnel, and for the expenditure of funds were made on the basis of required reports. For enumerators, the number of employees authorized, the rate of pay, the maximum mileage and the maximum hours of employment, were furnished each crew leader on Form FA-32. (See fig. 23.) Most enumerators were paid on a piece-rate basis and for miles traveled in personally owned automobiles. These piece rates were established on the basis of records of work performance for prior Censuses, distance to be traveled, and the estimated time that would be required to fill questionnaires. In areas where the distance between farms was great, and in urban areas, enumerators were paid \$1.25 per hour of work plus \$0.07 per mile traveled by personally owned automobiles. The average hourly earnings for enumerators employed on a piece rate was \$1.15 plus payment for mileage traveled by automobile.

The date when enumerators were to begin the work was prescribed, and enumerators were required to work at least 8 hours each day until they had completed their jobs. Checking on the amount of work performed, hours of work, miles traveled, etc., was accomplished through the review and summarization of Form FA-7. This enumerator's daily work report was mailed at the end of each day to the supervisor of the Agriculture Field Office and the Form FA-3 was reviewed by the crew leader each time he visited the enumerator. Supervisors of Agriculture Field Offices notified crew leaders whenever it appeared an enumerator's work was not being performed on schedule and twice each week supervisors of Agriculture Field Offices were requested to submit to supervisors of Field Processing Offices and to Washington a summary showing number of enumerators working, Agriculture Questionnaires filled, miles traveled, hours worked, etc. These reports were reviewed carefully and immediate action was taken when the work was not being completed as scheduled.

The number of crew leaders, field supervisors, assistant field supervisors, and the number of each kind of clerical employee, as well as the duration of their appointment, were prescribed in advance of their employment and appointment. Extension of appointments were made in case of some employees but only upon approval from Washington. During the period of recruitment and hiring, crew leaders and supervisors were required to submit reports showing the number of employees recruited. Action was taken whenever necessary to insure that the authorized staff had been recruited and were trained and on the job on the day scheduled.

METHODS AND PROCEDURES

Fig. F4-91 U.S. DEPART (10-25-54) BURE	MENT OF C AU OF THE	COMMERCE CENSUS	State
			County
1954 CENSUS OF AGRICULTUR	E		
RECORD OF PORTFOLIO RE	VIEW		E.D. Number
Section I -	PAYROLL	VERIFICA	TION REVIEW
A. Incomplete Section IV of Al's	None	Number	A2 line Nos.:
B. Sample within 5%	Yes	No	If 'No,"%
C. A3's missing	None	Number	
D. Hrs. claimed within 10% (hourly ED's)	Yes	No	If 'No," Allowed Claimed
E. Miles claimed within 10%	Yes	No	If 'No," Allowed Claimed
F. Receipts or certifications missing	Ve s	No	If 'Yes," describe:
1.6.13.0.00			
Section I completed by (Review clerk)			
Sectin	n 2 - IN	TENSIVE	REV IEW
A. Missing FA-101's			
B. Missing Al's for A2 line Nos.	None Yes	Number No	A2 line Nos.:
C. Sampling correct			If 'No," A2 line Nos.:
O. Sample sections missing	None	Number	A2 line Nos.;
F. E.D. Map completed	Yes	No No	
F. FA-IOD completed			
G. FA-30 completed	Yes	No	
H. FA-17 in portfolio	Yes	No	
I. FA-5 column (5) completed	Yes		
J. FA-6 columns (9) or (10) completed	Yes	No	
Section 2 completed by (Review clerk)			
Section	1 3 - TAI	RULATION	REVIEW
A. Missing Al's for followup	None	Number	A2 line Nos.:
B. E.D. Map in portfolio	Yes	No	
C. FA-100 in portfolio (if required)	Yes	No	
D. FA-30 in portfolio ("C" ED's)	Yes	No	
Section 3 completed by (Review clerk)			
Section	on 4 - F	OLLOW-UP	REVIEW
A. Requests for missing receipts, certifications	or mater	rials mail	ed on (date) Not
B. FA-92's mailed (if required) on (date)			No.
C. FA-93's mailed (if required) on (date)			No
D. FA-94's mailed (if required) on (date)			No
Section 4 completed by (Review clerk)			
Section	n 5 - St	PERVISOR	ACTION
Describe corrective action taken by Supervisor.			
beschibe confective action canon by Days			
İ			
s	upervisor	·	
Enter a	ny Remark	s on reve	rae aide Comm-DC-4:

Form FA-88 (Revised)	8	İ		U.S.	U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS	COMMERCE THE CENSUS	A. Sample A	A. Sample Al's for county = 21.2	= 21.2	-,		Approved by	Sheet of Sheets
(10-19-54	2						100)	(Col 8 - Col 7)				D. Manch.	State
		100	COUNTY SI				5. Coverage 1. Fares	Coverage for county . i. Fares (Col. 4 ÷ Col 3) =	100.6 \$		Acceptable Limits		45 NORTH DAKOTA
	19	1954 CENS	CENSUS OF	AGRICULTURE	LTURE		2 Land	Land in Farms (Col. 10 - Col	1 - Col 9)= 101.9%	I I	97 or hisher	75-1-21	l
	Ľ	Land A	Area 77	176,9601	960Acres	•	3 Check	Item (Col 12 ;	3 Check Ites (Coi 12 ÷ Coi. 11) = 7# #s	, '	28 or higher		in in in in in in in in in in in in in i
53000	,			Number	Number of Al's			Land in Farms	Fares	Check It	v. 1954	•	
County 36	e	1950		Sample		Al's mith less than 1,000 acres	less than ucres	(Acr	(**)	Acres X Bales	Bales	AZ,	AZ Line numbers
E.0 Pro	Procedure (2)	(3)	Total Al's	Total Sample completed (5)	1.000 acres or more (6)	Total 'Col 4-Col 6)	Total Sample (Col &.Col 6) (Col 5.Col 6) (Col 5.Col 6)	1950	1954	Check Pate	Census (12)	10,0	10,000 acres or more
-	e	رم	\	0	0			*	0		0		
5	Q	184	190	40	4			117, 487	014611		32058	none	
, e	σ	200	208	50				109,680	1/6,233		27794	none	
-	4	157	151	£.				tho'so/	105,673		27618		
2	Ø	173	170	09	38			#66 6/1	121,668		29894	7006	
9	ø	154	156	46	2/			91,612			16433	none	
-	Ø	129	142	42	01			67.783			14480	000e	
80	Q	155/	136	43	2/			81,180	76,739		13366	2000	
6	4	120	/33	0 2				72,059	29 785		17270	7000	
01	-	41.000						3,890					
=								•					
12													
13													
2													
15													
18													
11													·
81													
19													
8													
21													
22													
23													
24													
25													
26													
27													
28													
28													
30													
County Totals	ot#10	1.279	12.87	4,0	1950 1950 Fotal / J	1114	237	768.729	783 603 240 465 (78 9/3	240 46	5/6 8/2		

FIGURE 22.—Coverage evaluation by ED's (Form FA-88).

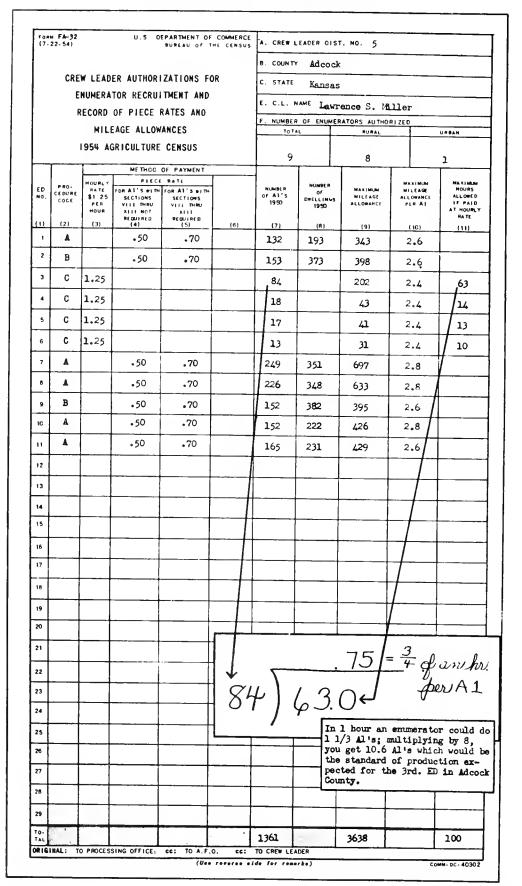


Figure 23.—Crew leader authorization for enumerator recruitment and record of piece rates and mileage allowances, 1954 Agriculture Census (Form FA-32).

CHAPTER	III—	-CENTRAL	OFFICE	PROCESSING	AND	PUBLICA	TION 47

CONTENTS

	Pag
Central Office processing	5
The job	5
Organization for the job	5
Receipt and control over questionnaires	5
Editing and coding the Agriculture Questionnaire	5
General.	5
Section I	5
Section II $_{}$	5
Section III	5
Section IV	5
Section V	5
Section VI	5
Section VII	5
Section VIII	5
Section IX	5
Section X	5
Section XI	5
Section XII	5
Section XIII	5
Coding for economic class of farm and type of farm	5
Training of editing and coding clerks	5
Editing of 10 training questionnaires	5
Editing of the first portfolio	5
Punching	5
Correction of punching and other errors prior to publication	6
All cards	6
Card A	6
Card C for corn	6
	6
Card C for sorghumsCard C for crops other than corn and sorghum	6
	-
Card G	6
Card H	6
Card I	6
Card J.	6
Card K.	6
Card L	6
Card M	6
Card N	6
Adjustment of data for the sample prior to tabulation	6
Description of the sample	6
Adjustment of the sample	6
Tabulation	6
Evaluation of the completeness of the Census.	8
Preparation and publication of reports	8
The publication process.	8
Printing	8
Appendix	8
Description of Series AC54-1, AC54-2, AC54-3, and press releases	8

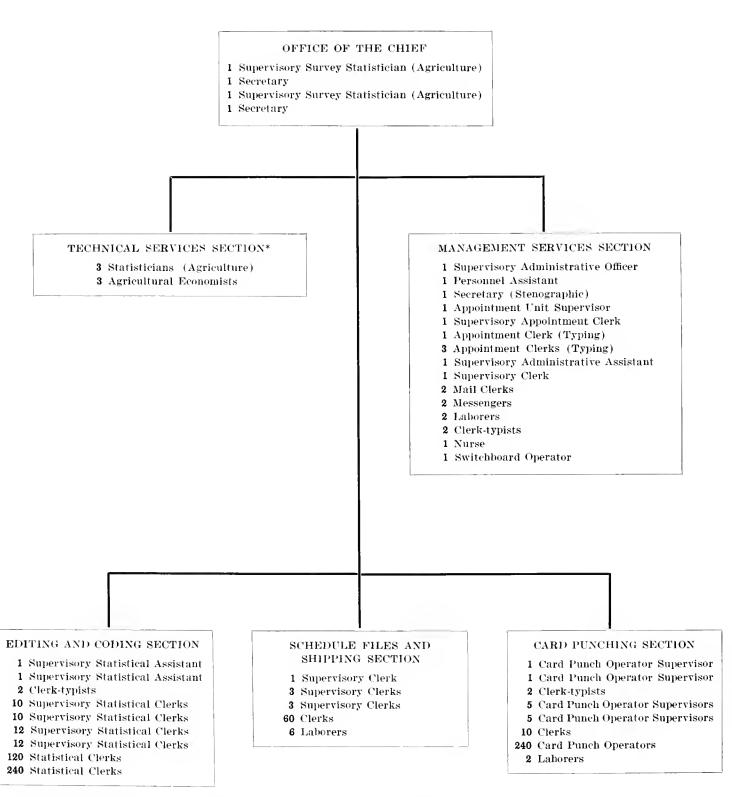
ILLUSTRATIONS

	Page
Organization chart—Central Operations Office	50
View of Interior of Central Operations Office, Pittsburg, Kans	52
Portfolio cover—A1 Agriculture Questionnaire	53
Reference note (Form 2-36). Used for referring questions for technical review.	56
Verification record (Form 2-43). For recording errors for editing and coding	58
Punch cards used for the 1954 Census of Agriculture	60
I B M type 024 Punching Machine	61
C cards punched per hour by weeks of experience, Pittsburg Operations Office	62
H cards punched per hour by weeks of experience, Detroit Operations Office.	63
Machine used for verifying punched cards	64
I B M type 077 collator	70
IBM type 082 sorting machine	70
I B M type 101 counting and tabulating machine	71
I B M type 402 tabulating machine	71
I B M type 407 accounting machine	72
I B M type 514 reproducing, gang-punching, summary punch machine	72
Census machine 487 and 489, multi-column sorter and unit tabulator	73
Census machine 488, multi-column sorter	73
Census machine 581, unit tabulator	74
Census machine 582, multi-column sorter and unit tabulator	74
Illustrative example of wiring diagram, type 101, control panel	75
Illustrative example of wiring diagram, type 402–403, control panel	76
Illustrative example of wiring diagram, type 407, control panel	77
Illustrative example of wiring diagram, unit counter 101	78
Test decks of cards used to discover tabulating machine errors	80
Evaluation program—Location 319 counties comprising sample used in evaluating completeness of enumeration	81
Aerial view with sample segment delineated	82
APPENDIX	
Facsimile of preliminary report Series AC54-1	87
Facsimile of preliminary report Series AC54-2	91
Facsimile of work sheet or posting form County Table 1	93
Facsimile of preprinted form for offset typing of County Table 1	95
Facsimile of county tabulation sheets	96
Table of costs	102

CENSUS OPERATIONS OFFICE

DETROIT, MICH.

PITTSBURG, KANS.



^{*}This staff was supplemented by detail of technical personnel from the Washington office.

CHAPTER III.—CENTRAL OFFICE PROCESSING AND PUBLICATION

CENTRAL OFFICE PROCESSING

The job.—The objective of central office processing was to record the information obtained by enumerators so that data could be summarized and published in a useable and meaningful form. The job involved the inspection of questionnaires for completeness and consistency of information, arrangement of questionnaires by geographic areas, the entering of codes to provide for the meaningful classification of data, the preparation of punch cards, the detection and correction of errors arising both during the enumeration and during the office processing, the tabulating of the data, and the preparation and printing of statistical tables and reports.

Organization for the job.—The conversion of information obtained by enumerators for individual farms into published releases and reports required the organization of groups of trained personnel for performing the major central office operations. Since these operations were performed during a relatively short period, a considerable number of temporary employees were required. During this period of large-scale central office processing, the available permanent staff comprised less than 5 percent of the total personnel employed and were used largely for preparing plans and instructions, training personnel, technical review, overall supervision, and direction of the work. The major operations involved in central office processing were receipt and control of questionnaires, etc., editing and coding of questionnaires, punching tabulating cards, checking tabulating cards and tabulations for errors and consistency, the preparation of tabulations and the preparation and printing of statistical tables and reports.

The following table indicates the approximate number of employees engaged in operations related to central office processing for the first month in each quarter.

Month	Number of employees	Month	Number of employees
July 1954 September 1954 January 1955 April 1955 July 1955	139 960 1, 560	Octoher 1955. January 1956. April 1956. July 1956. Octoher 1956.	680 640 400

The temporary staff was recruited in accordance with civilservice regulations, largely from registers established from examinations given primarily to provide personnel for Census work. The temporary staff was given temporary appointments usually not to exceed 1 year. When the work required employment for more than a year, an extension of employment was made of personnel who had been trained for the performance of the work yet to be performed. In all central office processing, specialization and mechanical devices were used whenever possible to expedite handling and to reduce costs. A large part of the supervisory staff for elerical and machine operations consisted also of temporary employees. Permanent personnel occupied only key positions and positions requiring detailed knowledge of procedures or technical knowledge of agriculture.

The technical staff comprised a very important part of the total staff although the costs for the technical staff amounted to less than 3 percent of the total cost of the Census. The employment of the technical staff totaled approximately 1,100 man-months. About 70 percent of these man-months were provided by permanent staff.

All personnel were given special training for the work and the kind and duration of this training is described under the various operations. Standards for both quantity and quality of work were established for all major processing operations and all personnel were required to meet these requirements in order to retain their jobs. For many operations, employees, whose work performance exceeded substantially the minimum work requirements, were given incentive payments.

Because of lack of office space, central operations offices were established for about 11 months in Pittsburg, Kans., and Detroit, Mich. All Agriculture Questionnaires were received, edited and coded, and cards punched at those two offices. All other operations were performed in Washington, D. C.

RECEIPT AND CONTROL OVER QUESTIONNAIRES

After the checking had been completed in the 26 Field Processing Offices, the questionnaires were arranged by counties and shipped in boxes to one of the two central operations offices. The number of counties for which the questionnaires, materials, etc. were received at the 2 central operations offices by months were as follows:

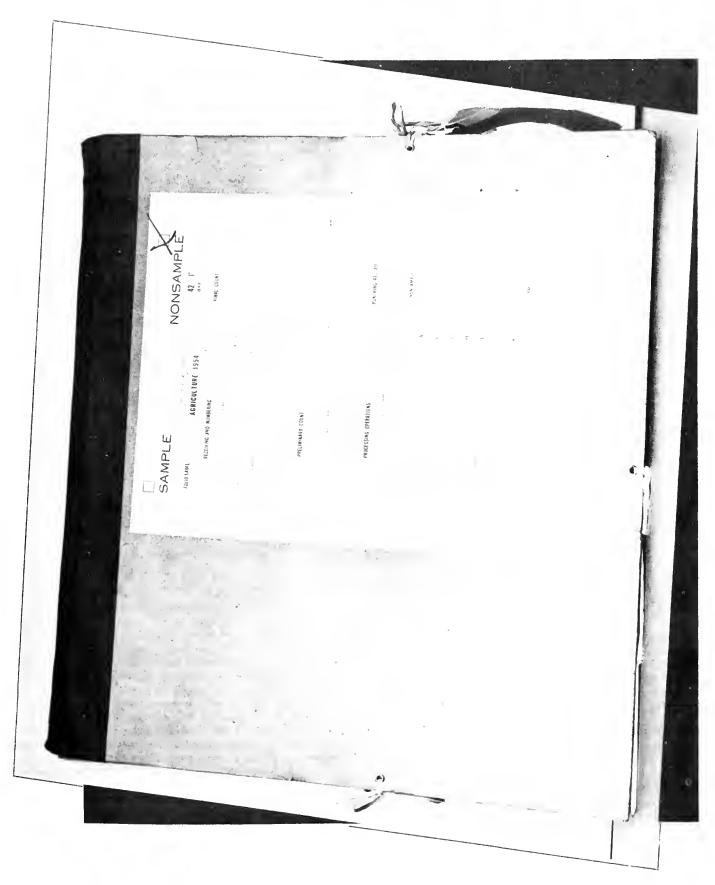
Month	Number of coun questionnaires w	
	During month	To date
December or earlier, 1954 January 1955 February 1955 March 1955 April 1955 May aud later, 1955	949 1, 059 329 439 242 72	949 2, 018 2, 347 2, 786 3, 028 3, 100

When the materials and questionnaires were received at the two central operations offices, they were checked to determine that all the required materials for a county were present and the Agriculture Questionnaires were separated and placed in portfolio covers (these were cardboard covers, see fig. 26). Approximately 400 Agriculture Questionnaires were placed in each portfolio and the portfolio was properly labeled. Portfolios comprised the unit for work assignment for subsequent operations and the portfolios for a county were transmitted to the next operation as a unit. The portfolios were kept in a central file when not in use and records were maintained of the location and status of processing for each county.

After the completion of the editing and coding, the questionnaires for a county were rearranged. The Agriculture Questionnaires comprising the sample (questionnaires for which information in Sections VIII through XII was required) were numbered with a numbering machine, for the purpose of having a means of identification for the punching of tabulating cards, and were then placed in portfolios separate from those questionnaires not in the sample. All questionnaires were arranged by minor civil divisions and a sheet containing the minor civil division name and code was inserted in the portfolio in front of the first questionnaire for the minor civil division. For each county, questionnaires comprising the sample were numbered consecutively starting with the number 8,000 while questionnaires not in the sample were numbered consecutively starting with I. Questionnaires for "specified farms" were numbered consecutively starting with X001.



FIGURE 25.-View of Interior of Central Operations Office, Pittsburg, Kans.



EDITING AND CODING THE AGRICULTURE **OUESTIONNAIRE**

Each individual questionnaire was checked, edited, and coded by clerks. The checking consisted of seeing (1) that the questionnaires were completely filled out; (2) that the acreage of individual crops harvested was in reasonable agreement with the acreage of cropland harvested when 100 or more acres of cropland harvested were reported; (3) that the acres of land classified according to use accounted for the entire farm acreage of farms having 200 acres or more; (4) that the total of the acreage for the various uses of corn, sorghum, soybeans, cowpeas, and peanuts was in reasonable agreement with the total acreage reported for all purposes for each of these crops; (5) that the age and sex breakdown for cattle, hogs, and sheep, added to approximately the total number of such animals of all ages; and (6) that all entries for related items were reasonably consistent.

Editing consisted of the identification and withdrawal of questionnaires filled for places not qualifying as farms; the selection of questionnaires with entries of unusually large size for review by the technical staff; the selection of groups of questionnaires with common reporting errors in an individual enumeration district for referral to technical personnel for review; and the correction of obvious inconsistencies, such as reporting in an incorrect unit, or reporting in an improper place on the questionnaire. Entries determined to be in error were often referred to the technical staff and corrected on the basis of relationships existing on nearby farms, or, if the entries were large, on the basis of correspondence with the farm operator. In case of information missing for a group of questions, estimates were prepared on the basis of adjacent questionnaires for farms with similar operations, and, in some cases, on the basis of information obtained by mail from the operators. When estimates were made, letters were mailed to the farm operators to verify the information and, if the estimates were not in reasonable agreement with the information contained in the replies, the entries were corrected before the tabulations were made.

The detailed instructions for editing and coding of the Agriculture Questionnaire were as follows:

General.—Each Agriculture Questionnaire was to be examined individually. Figures written so poorly that they might not be read correctly were to be rewritten. Fractions were to be canceled for all questions for which the Agriculture Questionnaire did not provide for the reporting of fractions. For questions for which the questionnaire provided for the reporting of fractions, all fractions were to be converted into tenths. All entries for cents except for wage rates of hired employees working by the hour were to be canceled. Questionnaires with entries of 10,000 acres or more for acres in the place; \$25,000 or more of forest products sold; 1,000 or more cattle; 10,000 or more sheep, goats, or poultry; \$20,000 or more expenditure for fertilizer, hired labor, or feed; an expenditure of \$5,000 or more for lime; a value of land and buildings of \$1,000,000 or more; or for Indian Reservations were to be referred for review by the technical staff.

Misplaced entries were to be crossed out and entered in the proper space. Entries in a unit of measure different from the unit of measure shown on the Agriculture Questionnaire were to be converted into the appropriate unit of measure.

Questionnaires for places that might qualify as farms were to be selected for review by the technical staff. Questionnaires that did not contain entries of at least one of the following were selected for examination in regard to meeting the criteria of a farm:

(1) \$150 or more for total value of sales for vegetables, other field crops, nursery and greenhouse products, livestock and poultry and poultry products, and for forest products.

- (2) One or more cows, or two or more calves on hand.
- (3) Three or more hogs on hand.
- (4) Five or more sheep on hand.
- (5) Fifty or more poultry on hand.
- (6) Three or more acres harvested for corn, sorghum, small grains, soybeans, cowpeas, peanuts, dry field and seed peas and beans.
- (7) Five or more acres of hay other than sorghum, soybean, cowpeas or peanut hay.
- (8) One or more acres of tobacco, cotton, potatoes, vegetables for sale, orchard, nursery and greenhouse products, or irrigated land.
- (9) Five or more acres of cropland of all kinds.

Section I.—The editing and coding clerk entered a code for color of operator. The code was 1 for white operators, 2 for Negro operators, and 3 for other.

Section II.—The editing and coding clerk was furnished the following guide for determining the tenure of the farm operator:

Ques- tion 4	Ques- tion 6	Ques- tion 9	Other conditions	Classification	Code
Acres	None	None	Q.4-Q.10-Acres in This Place (Section IV).	Full owner	1
Acres	Acres	None	Q.4+Q.6-Q.10-Acres in This Place (Section IV).	Full owner	2
None	None	Acres	See instructions preceding the table.	Manager	3
None	Acres	None	Q.6-Q.10-Acres in This Place (Section IV),	Tenant	See below.

Question		Questi	ion 6		Class of tenant	Code
7	a	b	c	d		
No	Yes	No	No		Cash	4
No	Yes	Yes in eithe	er or both		Share-cash	5
No No Yes No No	No No No No	Yes No No	No Yes No No	Yes No	Crop-share Livestock-share Cropper Other Unspecified	8 7 8 9 0

Questionnaires that would be coded "manager" were to be referred to the technical

staff for review unless:

a. The value of all farm products sold was \$5,000 or more.

b. The acres in the farm were 1,000 or more.

c. There were reported on the questionnaire, 10 or more acres in orchard, or nursery and/or greenhouse products, or 50 or more cattle of all ages, 25 or more milk cows, 1,000 or more poultry on hand, sold or raised.

Possible code numbers for the classification of the farm by color, tenure, irrigation, economic class of farm and type of farm were printed in the center column of the Agriculture Questionnaire. Coding was performed by circling the number representing the appropriate code.

Section III.—In the case of such crops as corn, sorghum, soybeans and cowpeas, for which the questionnaire provided for reporting the total acres for all purposes, the editing clerk was required (1) to enter a total acres when this total was not entered, but acres were reported for the various uses, (2) to enter acres and quantity harvested when total acres were reported without acreage and quantity harvested being reported for any use, and (3) when the total acres for all purposes was 100 or more, to add the acres for the several uses, check the added total against the total for all purposes, and to refer the questionnaire for review by the technical staff if the difference in the two totals was 20 acres or more.

Questionnaires for which the yield per acre exceeded 100 bushels for popcorn, sorghum, small grains, soybeans, cowpeas, or 10 or more tons for any hay crop or 50 bushels, 1,000 pounds or $\frac{1}{2}$ ton per tree for any fruit were to be referred to the technical staff for review.

The quantity sold was to be checked against the quantity harvested and if the quantity sold exceeded the quantity harvested, the quantity sold was to be reduced to equal the quantity harvested.

If the quantity sold was not reported, estimated quantities sold were to be entered when the quantity harvested was (1) 100 bushels or more for rice or flaxseed, or (2) 200 bushels or more for corn, grain sorghums, wheat, rye, oats, buckwheat or barley, and there were no livestock or poultry reported on the farm, sold or raised. Likewise, estimated quantities sold were to be entered when the total bushels of corn, grain sorghums, oats and barley harvested but not sold were more than 30 times the number of cattle, horses, and hogs on hand or sold. However, no estimates of quantity sold were to be entered unless the estimate was at least 100 bushels. When the quantity of hay harvested was 25 tons or more, and none was reported as sold, the entire amount harvested was to be entered as sold when the number of horses, mules, sheep or eattle on hand or sold, did not exceed 1.

The acreage of land in fruit orchards, etc. (question 56) was to be estimated when there was no entry and the number of trees was 50 or more, or the number of grapevines was 500 or more. The editing and coding clerk was furnished a table of the number of trees per acre for various kinds of fruits for use in calculating the acreage.

Codes were to be entered for the crops reported in questions 35, 50, 54, 64, and 65. An example of these codes for question 54 is as follows:

Crop	Code
Blackberries	186
Cranberries	192
Currants	199

When there were no entries for acres in Section III, and there was an entry of 10 or more acres for question 67a, entries were to be estimated for Section III.

Section IV.—The entry for question 66, Acres in The Farm was to be checked with the acres reported for questions 4 to 6, 10 and 11. If there were no entries for questions 67 to 70, the entries were to be calculated. If the entry for question 67a was 100 acres or more, the entry was to be compared with the total of the acreages of crops harvested as listed in Section III. Differences of 20 acres or more, not accounted for by the harvesting of two or more crops from the same land, were to be referred for review by the technical staff.

Section V.—Acres for question 71 were checked to acres in question 68 and were corrected if greater than acres for question 68.

In the 20 States where irrigation was important additional coding was performed to provide for tabulation of data for irrigated farms and irrigated crops. Each questionnaire was coded to indicate whether all the cropland harvested was irrigated, part of the cropland harvested was irrigated, or none of the cropland harvested was irrigated. On farms on which part of the cropland harvested was irrigated, the crop code in Section III for each crop that was harvested from irrigated land was changed by adding 4 to the hundreds digit for the code. For example, the code number for cotton was 270. If the cotton was harvested from irrigated land, this code was changed to 670.

Section VI.—Estimates were to be entered for sales if none were reported by the enumerator when the entry exceeded 50 cords for firewood, 1,000 for the number of fence posts or 25,000 boardfeet for sawlogs and veneer logs. If area (acres or square feet) was reported and no sales reported or vice versa, for nursery or greenhouse products, the questionnaire was to be referred for review by the technical staff.

Section VII.—For eattle, sheep, and hogs, the questionnaire was to be inspected to see if there was an entry for a total when there

were entries for the various age and sex groups comprising the total, or vice versa. Entries were to be made when there was a total but no entry for the various age and sex groups, and vice versa. If the total was 100 or more, the age and sex groups were to be added and the sum checked with the total. Differences of 20 or more were referred for checking by the technical staff.

For questions 81 and 83 entries for cows milked or milk produced yesterday were estimated when there was an entry for one question and no entry for the other question. Entries were to be corrected for question 82, when the entry was less than for question 81.

Questionnaires with 5 or more cows milked (question 81) and no dairy products sold were referred for review by the technical staff.

Questionnaires with probable errors in value of dairy products sold and number of animals sold were to be referred to the technical staff for checking. Questionnaires to be referred included those with a value of whole milk sold of less than \$0.01 or more than \$0.10 per pound; of less than \$1 or more than \$100 per head sold for hogs, sheep or calves; of less than \$10 or more than \$1,000 per head for cattle, horses, or mules; of less than \$0.25 or more than \$2.00 per chicken sold; or of less than \$0.10 or more than \$1.00 for each dozen of eggs sold.

Questionnaires with 2 or more sows farrowing or 10 or more hogs on hand, and no hogs reported as sold; 10 or more cattle or 5 or more cows and no cattle or calves sold; 10 or more sheep and no sheep or lambs sold; or with 10 or more sheep, and no wool shorn were to be referred for review by the technical staff.

Estimates were to be entered when 100 or more chickens and no sales of eggs or chickens were reported and when there were 20 or more turkeys, ducks or geese and no sales were reported.

Codes were to be entered for each kind of poultry for question 97.

Section VIII.—Sections VIII to XII were edited by the review clerk as the editing of these sections was performed only for questionnaires in the sample and as the sorting of the questionnaires into sample and nonsample groups was not performed until after the review of the work of the editing and coding clerk.

For questions 100 and 101, entries for acres were estimated when there were entries for tons or dollars, and vice versa. For question 100 entries of less than \$10 or more than \$100 per ton and for question 101, entries of less than \$1 or more than \$20 per ton were referred for checking by the technical staff.

Section IX.—When there was no entry for question 102, and there were hired workers reported for question 103b, estimates were entered. Questionnaires with no report for question 102b and, with reports of \$10,000 or more for the sale of vegetables, or nursery and greenhouse products, or 10 or more acres in orchards, were referred to the technical staff for review.

Section X.—The entry for 103b was checked with the entries for 103c and 103d, and inconsistencies were corrected.

Section XI.—Usually no special editing was performed for this section.

Section XII.—Usually no special editing was performed for this section.

Section XIII.—The entries for acres in this section were cheeked with the entries in Section II and the required corrections were made. For question 108, the total value was computed and entered if only the average value per acre was reported. When both total value and value per acre were given, the calculation of the total value was checked, but changes were made only when the calculated value exceeded the reported value by \$10,000 or when the reported value was double or more the calculated value.

Coding for economic class of farm and type of farm.—The coding of farms by economic class of farm and by type of farm required estimating the total value of farm products sold. The estimates for the various groups of farm products sold were entered when required under the "Remarks" section of the Agriculture Questionnaire. The questionnaire contained the value of farm products sold for:

Vegetables
Other field crops
Forest products
Nursery and greenhouse products
Dairy products
Livestock
Poultry and poultry products

For many crops the quantity sold was shown in Section III. The value of each crop sold was calculated by multiplying the quantity sold by State average prices. The State average prices were obtained in cooperation with the Agricultural Marketing Service of the United States Department of Agriculture, from a sample of dealers, buyers, farmers, etc.

For crops for which the quantity sold was not shown in Section III, the value of sales was to be calculated by multiplying the quantity harvested by State average prices, if the calculated value for the crop would amount to \$100 or more.

Except for farms operated by institutions, etc. (those were coded 9 for economic class), the economic class of farm for questionnaires with a total value of \$1,200 or more or under \$250 was determined by the amount of the value of all farm products sold. The code was as follows:

Total value of farm products sold	Code
\$25,000	1
\$10,000 to \$24,999	2
\$5,000 to \$9,999	3
\$2,500 to \$4,999	4
\$1,200 to \$2,499	5
Under \$250	8

If the total value of farm products sold was \$250 to \$1,199, the code for economic class was determined by the entries for questions 104 and 105. If the entry for question 104 was 100 days or more or if the answer for question 105 was "Yes", the code for economic class was 7. All other questionnaires with a total value of farm products sold of \$250 to \$1,199 were coded 6 for economic class.

The coding of type of farm was performed only for questionnaires with an economic class code 1 to 6, or 9. The type of farm was determined by comparing the value of the sales for a farm product or a group of farm products with the total value of all farm products sold. Usually, the type of farm was determined by the farm product or group of farm products that accounted for 50 percent or more of the value of all farm products sold.

Training of editing and coding clerks.—At the beginning of the training period each employee was given a memorandum outlining the work requirements for the training period. Briefly these requirements were as follows:

- (1) Editing and coding 10 training questionnaires during the training period with not more than six coding errors, nor more than ten other errors.
- (2) Editing and coding a portfolio of 350 or more Agriculture Questionnaires in 5½ working days with less than 15 coding errors per 100 questionnaires and less than 50 other errors per 100 questionnaires.

Each employee was provided with the following materials:

- (1) Instructions for editing and coding A1's.
- (2) A code card giving all the codes to be used.
- (3) A copy of a reference note for referring questions. (See fig. 27.)
- (4) A sheet containing various conversion factors for weights and measures.
- (5) A slip to be inserted in place of questionnaire removed from a portfolio
- (6) A training questionnaire.
- (7) A Landlord-Tenant Questionnaire.
- (8) Red pencils.

FORM 2-36 (11-6-54)	U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS	STATE	
	REFERENCE NOTE (Folio)	COUNTY	
	EDITING REVIEWING	FOLIO NO.	
E.D.	AZ LINE NOS.		
E .D .	AZ LINE NOS.		
E.D.	AZ LINE NOS.		
E.D.	AZ LINE NOS.		
E.D.	A2 LINE NOS.		
REMARKS			
		-	
TECHNICIAN	(Name)	DATE	

FIGURE 27.—Reference note (Form 2-36). Used for referring questions for technical review.

Generally, editing and coding clerks were trained in groups of 10 to 20. The instructor, after asking the trainees to follow along with him, read the instructions from the beginning, holding up each form as it was mentioned in the instructions so that the clerks would become familiar with the terms used. A blackboard was utilized as much as possible. Its use was particularly effective in explaining the following procedures:

- Rewriting or canceling entries.
- (2) Converting fractions.
- (3) Converting units of measure.
- (4) Entering codes.
- (5) Presenting editing problems.
- (6) Filling out reference notes.
- (7) Illustrating incomplete or impossible entries.

The giving of instructions required about 8 hours.

Editing of 10 training questionnaires.—The use of the instructions was emphasized. The first Agriculture Questionnaire was given out for editing and coding. The trainees were not permitted to discuss the questionnaire with other clerks. No question covering a specific point was answered by the instructor. General questions which seemed appropriate were answered so that the whole training group could hear both the question and the answer. When most of the group had completed the editing of the first training questionnaire the editing of the questionnaire was discussed and the correct editing entries on the training questionnaire were given. Clerks were told where to look in their instructions to find why they had made errors. If the same error was made by several elerks the appropriate paragraph in the instructions was read by the instructor. After the trainees signed their names on the questionnaires, these were collected for recording the number of errors.

The remaining 9 training questionnaires were given out in groups of three. The same procedure was followed as outlined for the first training questionnaire.

The 10 training questionnaires were corrected as soon as possible and the number of errors recorded. The corrected questionnaires were given back to the trainees so that they could see their errors.

Editing of the first portfolio.—During the editing of the first portfolio, the supervisors were instructed to circulate through the group of trainees to:

- (1) Answer necessary questions concerning procedures.
- (2) Help clerks find the paragraph in the instructions needed to determine whether entries on the questionnaire were correct.
- (3) Observe clerks to see if they were working systematically and following procedure as outlined in their instructions.
- (4) Check codes to make sure editors were coding correctly.
- (5) Review several edited and coded questionnaires.
- (6) See that reference notes were made correctly when required.

The progress of editing and coding clerks in learning and becoming proficient in the performance of their work is indicated by the following data on questionnaires edited and errors made by weeks of experience.

Weeks of experience	Number of Agriculture Question-	Numbe Agriculti	er of errors p are Question	oer 100 nnaires
	naires edited and coded per hour	Total	Coding errors	Other errors
	11	18.7	5. 2	13. 6
2	20	17. 3	4, 8	12. 5
3	20	14.1	3, 6	10.5
	21	11. 6	2.8	8.8
5	23	8.8	2.1	6. €
ò	24	6.7	1.6	5. 2
7	25	5.1	1.3	3.8
3	27	4.6	1.2	3. 5
9	27	3. 9	1.1	2, 9
10	30	3. 5	. 9	2. 6
11	30	3. 5	. 9	2. 6
.2	31	3, 3	.8	2.
3	33	3.4	.8	2. 0
14	34	2.7	.7 [2.0
5	35	2.8	.7	2.
6	36	2.6	. 6	2.0
17	36	2.4	. 6	1.
8	36	2.0	. 5	1.
9	37	1.7	.5	1.
20	36	1. 7	.4	1.
21	39	1.5	.41	1.
22	40	1.1	. 3	-
23	41	1.1	3	
24	42	1. 2	[4]	
25	42		3	
26	44	1.0	. 3	
27	45	.8	.3	
28	46	1, 2	.3	
29	47	1.2	.4	
30	49	1. 2	. 5	
31	49	. 9	.4	
32	51	2.0	.6	1.
33	52	.9	.3	1.
34	56	1.0	.5	:
Ух	30	1.0		

The work of the editing and coding clerks was reviewed. Clerks were selected for review work from the editing and coding clerks. The review clerks were given 4 hours of additional instruction. These 4 hours were devoted to reading of the instructions, making out a sample verification record (see fig. 28), observing a demonstration of how to sort the Agriculture Questionnaires representing the sample from other questionnaires, and to practicing the determination of codes for economic class of farm and for type of farm.

The job of the review clerk was to review either on a complete basis or a sample basis the work performed by the editing and coding clerks, to prepare a record of errors found in the work of the editing and coding clerks, to sort the questionnaires into two groups—those comprising the sample and those not comprising the sample—and to determine and enter the codes for economic class of farm and type of farm on questionnaires comprising the sample.

Until the error records indicated each editing and coding clerk was performing work of a satisfactory quality, all editing and coding work was verified completely. Editing and coding work was considered satisfactory if there were less than 3 coding and 8 other errors per 100 Agriculture Questionnaires. When the quality of editing and coding became satisfactory, only every tenth questionnaire was completely verified. If the verification of every tenth questionnaire indicated the work was not of acceptable quality, then all questionnaires were reviewed and all subsequent work of the editing and coding clerk was reviewed until the record of errors indicated that the work was of acceptable quality.

The performance of review clerks improved as their knowledge and skill improved and also as the work of editing and coding

Form 2-43 (11-18-54)		U.S. DEPA	RTMENT BUREAU	OF CO	OMMERCE E CENSUS	Stat	e		
v	ERIFICATION	RECORD				Cour	nty		_
Name		☐ Edito		Unit r	number	Foli	io number		
Date edited		verified A1's verified numbers ending)	Number of questionnaires			
Type of error		Sections I-II Color-tenure	Section III Crops		Secti IV-V Irriga	l tion	Section VII Livestock	Total (Non-sample) (e)	Sections VIII-XIII (Sample) Class and type (f)
Poorly written figure corrected	s not								
2. Figures entered by ed clerk, illegible	iting								
3. Fractions and decimal cancelled	s not								
4. Fractions not convert incorrectly converted									
5. Correct entries chang unnecessarily	ed								
6. Sum of detail [±] 20 do equal total	es not								
7. Sum of detail [‡] 100 d equal total	oes not								
8. Specified cross-check made	s not								
9. Sizeable production o and no value of produ	r inventory cts sold								
10. Other relationships n questioned	ot								
11. Not coded					ļ				
12. Coded incorrectly									
13. Other (Specify)					ļ				
Total		1							
Remarks									
Name of reviewer				Unit n	umber		Date		
									omm-DC 43246

FIGURE 28.—Verification record (Form 2-43). For recording errors for editing and coding.

elerks improved. The following data indicate work performance by review elerks by weeks of experience on the job.

Weeks of experience	Number of question- naires reviewed per hour			Number of question- naires reviewed per hour		
	On a complete basis	On a sample basis (10 percent of question- naires)	Weeks of experience	On a complete basis	On a sample basis (10 percent of question- naires)	
	11	42	16	60	98	
	24	60	17	62	97	
	25	66	18	64	103	
	29	71	19	66	9	
• • • • • • • • • • • • • •	34	70	20	64	10	
	38	79	21	63	100	
	43	72	22	55	99	
	50	76	23	67	10.	
	50	80	24	79	103	
	47 53	84	25	62	110	
		86	26	91	11,	
	55 58	93	27	60 71	12	
•	63	90	28		128 145	
	61	90	30.	88 79	14:	

The use of sample verification of editing and coding resulted in the saving of approximately 45,000 man hours in reviewing. The number and proportion of the Agriculture Questionnaires reviewed on a complete basis by week, after review on a sample basis was started, were as follows:

	Agriculture Questionnaires reviewed				
Week	Total	On com- plete hasis	On a sample basis (10 percent of question- naires)		
	Number	Percent	Percent		
	56, 244	85.8			
	142, 992		14. 2 15. 2		
		84.3			
	128, 526	74.8	25. 2 21. 3		
•••••	119, 783	78.7			
••••	130, 278	73. 2	26. 8		
	153, 067	80, 0	20.0		
	162, 567	76. 9	23.		
••••	184, 742	63. 2	36. 8		
• • • • • • • • • • • • • • • • • • • •	201, 976	55. 7	44.3		
	206, 372	49.6	50,		
	210, 533	46.6	53.		
	221, 399	42.5	57.		
••••••	214, 820	38. 5	61.		
• • • • • • • • • • • • • • • • • • • •	210, 864	35. 1	64.		
) <u> </u>	213, 337	26. 5	73.		
) <u> </u>	197, 176	29.5	70.		
I 	212, 481	27.3	72.		
} 	222, 535	26. 6	73.		
) <u></u>	206,/793	22.8	77.		
)	193, 669	14, 2	85.1		
	167, 560	14. 2	85.1		
)	144, 338	10.5	89.		
	157, 805	13.0	87.		
••••••	167, 526	9.2	90.		
) 	129, 592	9.1	90. 9		
) 	90, 957	5.0	95, 0		
,	96, 759	7.8	92.		
) <u> </u>	113, 608	13.0	87.		
) 	65, 393	18.5	81.		
)	26, 111	24.3	75.		

PUNCHING

In order to provide for compilation of data, all information in the Agriculture Questionnaires was transferred to punch cards. Ten separate punch cards were used. (See fig. 29 for copies of these cards.) The punch card used for each part of the Agriculture Questionnaire is indicated in the column "Office use only" on the questionnaire. (See fig. 1.) For example, the information for questions 66 to 72 on the Agriculture Questionnaire was punched on the A card. The number of cards punched for all Agriculture Questionnaires was as follows:

Card type	Number of cards (thousands)	Card type	Number of cards (thousands)
Total	30, 136	I	3, 831 398
А С G H	4, 856 9, 889 1, 142 3, 674	K L M N	3, 522 1, 101 1, 082 642

Cards L, M, and N were required only for Agriculture Questionnaires in the sample. The punching was performed on International Business Machine Company's type 024 punching machine. (See fig. 30.)

All the personnel employed for card punching were temporary and none had any prior experience in punching. All employees were given a training course consisting of approximately 80 hours. During the first 40 hours the punching machine operator was trained, in how to use the punching machine, by means of a series of punching exercises and 6 tests. The second 40 hours of the training consisted of punching cards from a portfolio of Agriculture Questionnaires prepared for training purposes and the completion of 3 tests. The appointments of operators who did not satisfactorily complete tests given during training were terminated.

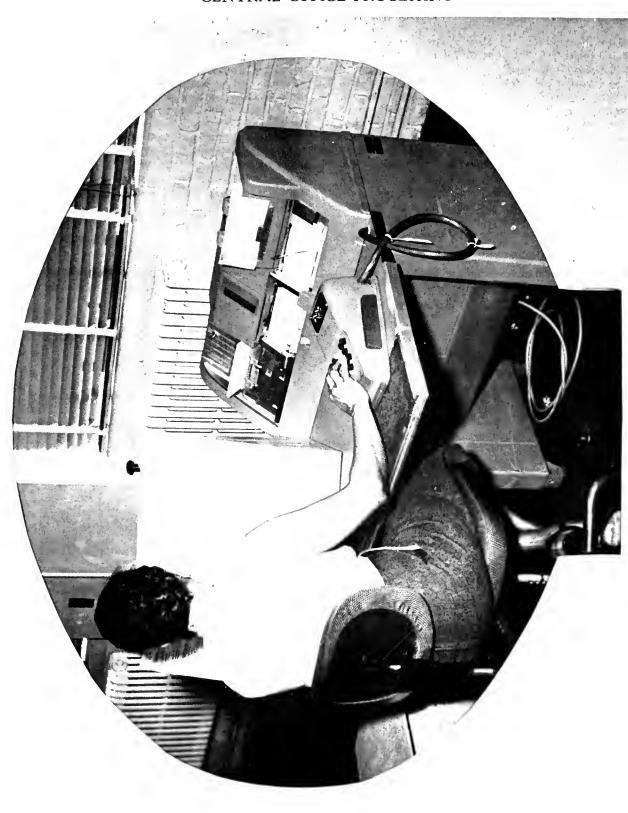
Generally, punching machine operators were trained to punch, and punched, only one of the I0 types of cards. Work units assigned to punch operators consisted of one or two portfolios of Agriculture Questionnaires (400 to 800 Agriculture Questionnaires).

The number of cards punched per hour varied according to the experience of the punching machine operator and the type of card. The average number of cards punched per hour for each card type was as follows:

Type of card	Average number punched per hour	Type of card	A verage number punched per hour
All cards	147	I	150 47
A	134 158	K. L.	187 102
G	133 167	M	162 114

NA INC. NA INC	CROPLAND	WOODLAND OTHER LA	LAND COOK TO LEAD V
STATE OF THE STATE	CULTIVATED SUMMER BOOK OF SUMER BOOK OF SUMER BOOK O	NA PASTURE D ASTURE D	NOT PASTURED CROULAND NARVESTED PSTURE OF STURE CONTRACTOR STREET OF STREET
W G G G G G G G G G G G G G G G G G G G		TONS CUT 1785 OF PAT CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORALL CONS CUT 00 CORAC CONS CUT 00 CORAC CORAC CONS CUT 00 CORAC CORAC CONS CUT 00 CORAC CORA	CROP 3
STATE COUNTY ED NO CONTROL NO CON		M. AMOUNT SOLO. AMIDUNI ITEM IT	CRES, MCRES, PREES, PRODUCTION, A MOUNT REES, PRODUCTION, AMOUNT SOLO ETC. STC. SDLD
FOREST PRODUCTS CUT AND POSTS VEGET LOSS STATE COURTY E 0 CO CO CO CO CO CO CO CO CO CO CO CO CO	HENDON MALCIE THEES CALLOUS POURS	WUNSERT PRODUCTS FLORERING	RAL SPECIALTIES
G STATE COURTY E O X SAND POSTS SAND FERICE SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND FERICE LOSS AND FOREST SAND F	OF IAPPLO 01 STEUT	SALES UNDER CLASS OF	SALES OF SOURCE FEET ACRES VALUE OF SALES OF SAL
CATTLE AND CALVES		IOLE MILK SOLD CREAM S	OLD
CARO NUMBER STATE COUNTY E D X CERT OUESTIONNAIRE NUMBER COLOS TENINE	STEER CALVES COWS MILKED VESTEROAY MILK COWS ON HAND MILK PRODUCED YESTERAAY EUTTER CHURNED LAST WEEK UNIT	VALUE POUNDS OF SALES GUTTERFAT	VALUE SISTY OF SALES
101 uppers and writes are come	TANNUTES	**************************************	LIVE
T O O O O O O O O O O O O O O O O O O O	E BEFORE JUSE JUSE MINNER VALUE	CALVES CATTLE FINITE VALUE NUMBER VALUE OF SALES	SHEEP AND LAMES AND MULES NUMBER VALUE MINES VALUES OF OF OF OF OF OF OF OF OF OF OF OF OF O
SHEEP AND LAN			<u> </u>
SHEEP AND LAN TOTAL UMBER LYEAR EMES		MER PRING OF WOOL	EXCESS RELEASE
CMICHES CHICK	KENS SOLD CHICKEN E	GGS SOLD TURKETS RAISED HE	UNKEY OTHER POULTRY RAISED VALUE OF SALES OF
MOMBER VALUE OF SALE O	ES OF SALES	OF BREEDS BRCECS BREE	
FACILITIES E	GUIPMENT -NUMBER LAND	OWNED CAND RESTED FROM ON STANDARD FOR OTHER	
CARD NUMBER COLLASS TO USE STATE STA	TRACT TORN TORN TORN TORN TORN TORN TORN TOR	VALUE OF ACRES VALUE LAND AND BUILDINGS BUILDING	ND LAND AND [즉 [집]]
/L. i W ! I.' W CASH EXPENDITUR	ES - 1954 Chile	HIRED WORKE	Indust I I I I
SETATE COUNTY : 0 O O O O O O O O O O O O O O O O O O	D FOR CESOLIBE S	IONTHLY BASIS WEEKLY HASIS RR-RATE WOURS PER MATE HOURS OF WORKED SONS OF PAY WORKED	PEN- RATE HOURS PER- RATE ASS'S P SS ON
COMMERCIAL FERTILIZER PURCHASE W G G G G TONS TOTAL COST ACRE		AL FERTILIZER USED P 3 CROP 4 FRUITS VEGETABLES	LIME PURCHASED
NOS TOTAL COST ACRES OF STATE COUNTY E O STATE CONTY TO STATE CONT	ACRES TONS A ACRES TONS O ACRES	TONE - AFRE TONE - AFRE TONE	

 $F_{\mbox{\scriptsize 1GURE}}$ 29.—Punch cards used for the 1954 Census of Agriculture.



Figures 31 and 32 indicate the relationship of the weeks of experience of punching machine operators to the number of cards punched for C card at the Pittsburg Operation Office and for the H card at the Detroit Operation Office. The quantity of cards punched per hour was influenced by a system of incentive pay. Operators who punched more than a prescribed number of cards of acceptable quality during a 2-week period were given extra pay for each 100 cards punched above the established standard. Incentive pay was paid for approximately one-third of all cards punched and approximately 71.4 percent of all cards were punched by operators during periods for which they received incentive pay.

The punching of cards was verified either completely or on a sample basis. The purpose of verification was not to eliminate all errors but to insure that the level of errors was kept within acceptable levels. Until the verification of punched cards indicated the work was of satisfactory quality, the work of each punching machine operator was verified 100 percent. Verification was performed by the use of a manually operated verifier. (See fig. 33.) All cards found in error were corrected.

As soon as it was determined that less than 6 percent of the cards punched by a punching machine operator contained errors and that the number of cards not punched did not exceed 1.2 percent, only a sample of 4 percent of the work of the card punching machine operator was verified. However, when the errors found in the 4-percent sample indicated that the quality of the work was not acceptable, the work of the operator was verified 100 percent, until the record of errors indicated that the work was of satisfactory quality. Card punching machine operators were required to produce work of acceptable quality within a given time period in order to be retained as an employee and in order to receive incentive payment for the work performed in excess of established standards. Card punching machine operators with the poorest work performance were assigned to verification work. Except for excess cards (cards representing unusually large quantities for an item), cards found in error during verification on a sample basis were not corrected.

The use of sample verification of cards resulted in a saving of approximately 140,000 man hours. The number and proportion

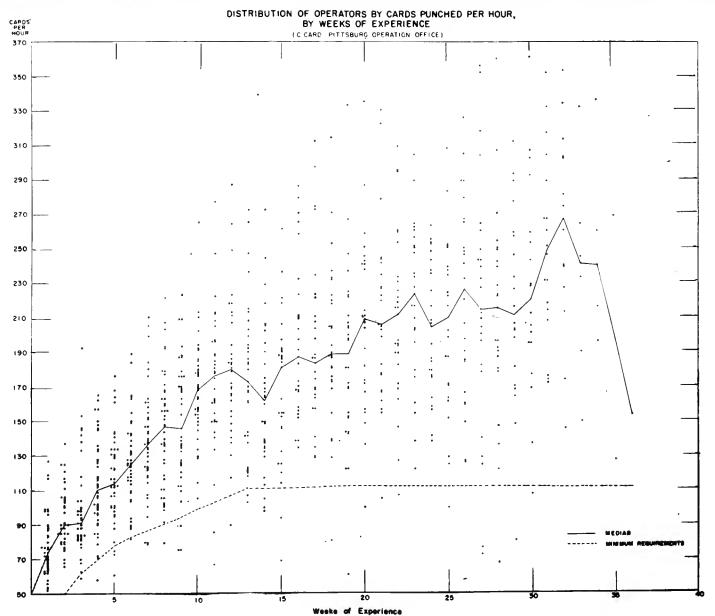


Figure 31.—C cards punched per hour by weeks of experience, Pittsburg Operations Office.

of the cards verified on a 100 percent basis and on a sample (4 percent) basis by two-week periods were as follows:

	C	Cards verified			
Períod	Total	On 100 percent basis	On a sample basis		
	Number	Percent	Percent		
Prior to Mar. 13			76. 93.		
Mar, 14 to Mar. 26			95.		
Apr. 10 to Apr. 23.			95.		
Apr. 24 to May 7			95.		
May 8 to May 21			95.		
May 22 to June 4.		3.6	96.		
une 5 to June 18		3.9	96.		
une 19 to July 2.			72.		
uly 3 to July 16			96.		
uly 17 to July 30			97.		
'uly 31 to Aug. 13	1, 392, 863 1, 049, 598		99. 99.		

Correction of punching and other errors prior to publication.— The checking for errors before the publication of data was performed at three stages—before tabulation, after tabulation, and just prior to publication.

Before tabulation, all punch cards were subject to an examination by means of electric statistical machines for possible errors. Mechanical methods were used to select punch cards which lacked required information, those on which the data punched were inconsistent or unreasonable, and those with data of sufficient importance to warrant further verification. Specifications were established for each card type so as to select cards having any of the characteristics of these three groups and all cards were passed through the Census Multicolumn Sorter for the purpose of selecting these cards. Before the selection of error cards was made, reproductions of C cards were made, so that the information for only one crop appeared on a C card. (The information for as many as 3 crops was punched on a C card. See fig. 26.) The specifications for the selection of cards for further verification were as follows: (See fig. 26 for copies of the cards and fig. 1 for a copy of the Agriculture Questionnaire.)

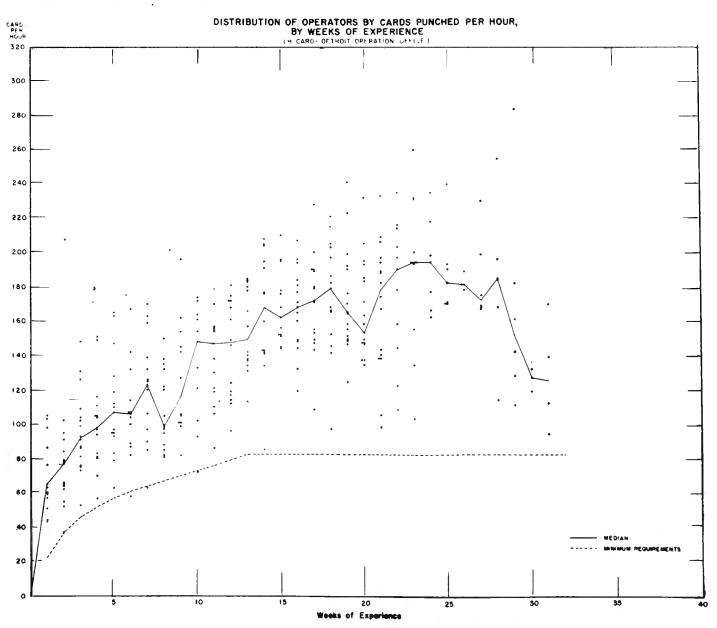


FIGURE 32.—H cards punched per hour by weeks of experience, Detroit Operations Office.

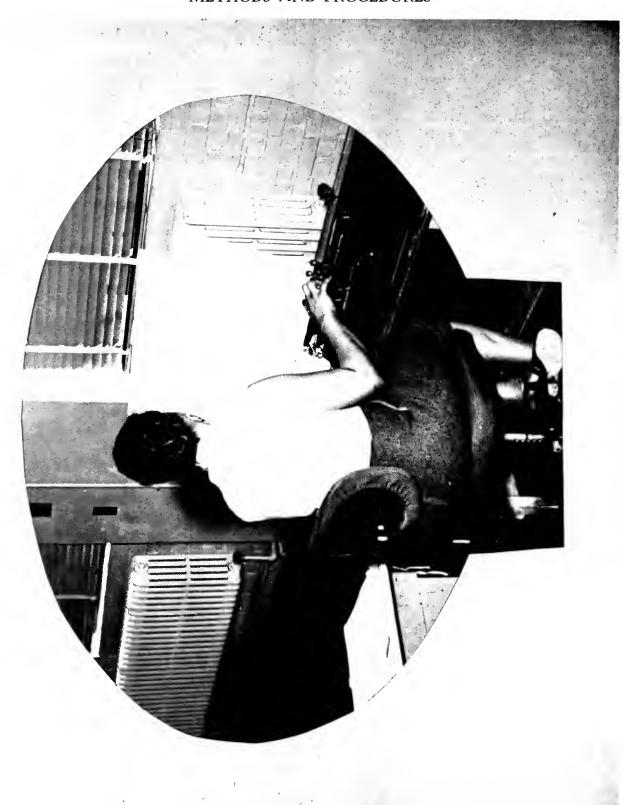


FIGURE 33.—Machine used for verifying punched cards.

All Cards

- All excess cards. (These were cards punched for entries with figures larger than the maximum number that could be punched in the column or columns provided on the punch card.)
- 2. All cards with misplaced "X". If there was no entry on the questionnaire for an item, an "X" was to be punched in the first column provided for punching the item on the punch card. Cards with the "X" punched in a column other than the first column would contain errors, and hence were selected.

Card A

- The number of acres for any land use greater than the total acres in the farm.
- 2. "Total land" divided by ten (10) greater than any use.
- 3. Acres reported as "improved other pasture" greater than all other land used for pasture.
- 4. 1,000 or more acres in any CROPLAND group.
- 20 acres or more of cropland harvested for a card with a code of 8 for economic class.
- Cards classified as "cropland wholly irrigated" with a number for "acres of total cropland harvested" in excess of "irrigated cropland harvested."
- Cards classified as "cropland partly irrigated" with the same entries for "total cropland harvested" and "irrigated cropland harvested."
- 8. Any entry for "acres of irrigated cropland harvested" in excess of "total acres of cropland harvested."
- No number for "acres of irrigated land" with an "irrigated-farm" code.
- 10. Any entry of less than 10 years for "age of operator."
- 11. Any entry for "year began operation" between 55 and 99 indicating the years 1855–1899 or 1955 to 1999.
- 12. All cards for farms of less than 3 acres.
- 13. All entries for color code, tenure code, or class code other than those provided for by the coding scheme.
- 14. Any entry for "irrigated pasture," greater than the entry for "cropland pastured" or the entry for "improved pasture."
- 15. The number for acres in either "conservation practices" greater than the acres for "cropland harvested."
- 16. The economic class code of 9 with a code for type of farm other than 12.
- 17. Any "crop" type of farm code and no entry for "acres of cropland harvested."
- 18. 1,000 or more total acres in farm not classified as a ''specified farm.''

Card C for corn

- Total acreage of corn for all purposes reported without an entry of acres for grain, silage, or hogged off.
- Total acreage for all purposes less than the acreage reported for any use.
- 3. Any "total acreage" report of 400 or more acres.
- 4. All reports with quantity harvested without acreage harvested or acreage harvested without quantity harvested.
- 5. All reports of 1,000 or more bushels of grain per acre harvested for grain.
- 6. Any total production of 1,000 bushels of grain on a farm having \$1,200 or less "value of all products sold."
- 100 or more tons of silage produced per aere harvested, or 200 tons or more in total.
- 8. Less than 1 ton of silage per acre harvested.
- Bushels of corn sold exceeding bushels of corn harvested for grain.

Card C for sorghums

- Total acreage for all purposes without an amount either for acreage for grain, acreage for silage or acreage hogged or grazed.
- 2. Total acreage for all purposes less than the acreage for any use.
- 3. Any total acreage for all purposes of 400 or more acres.
- 4. All reports with quantity harvested without acreage or acreage harvested without quantity harvested.
- All reports of 1,000 or more bushels of grain per acre harvested, 100 or more tons of silage per acre, or 10 or more tons of hay per acre harvested.
- Acres exceeding the corresponding quantity harvested except for acreage hogged off which required no quantity harvested entry.
- 7. Bushels of grain sold in excess of bushels of grain harvested.

Card C for crops other than corn and sorghum

- Quantity harvested without acreage. When space for quantity was provided for on the questionnaire, all reports of acreage without quantity harvested.
 - In addition to the general specifications for all crops there were additional conditions for specific crops as follows:

Small Grains, Sugarbeets, Tree Fruits

- Production in excess of 100 units per acre or per tree of bearing age.
- Quantity harvested less than quantity sold or acreage harvested.

Hay Crops, Cotton

- 1. Production in excess of 10 units per acre harvested.
- 2. Less than one-tenth unit of production per acre harvested.

Tobacco, Seed Crops, Potatoes

- 1. Production in excess of 1,000 units per acre harvested.
- 2. Less than 1 unit of production per acre harvested.

Small Fruits

1. Production of 100 or more units without acreage.

Vegetables

1. Ten or more acres of any crop.

Other Crops

- 1. Twenty or more bushels of potatoes without acreage.
- Production of tree fruits or nuts with entry for trees of nonbearing age only.
- Trees of bearing age in excess of 100 with no entry for quantity harvested.
- 4. Entries of acreage harvested without quantity harvested.

Card G

- 1. All sales of \$1,000 or more.
- More than 100,000 board feet of lumber cut with no entry for the sale of forest products.
- No dollar amount representing sales but with an entry of 100
 or more cords of firewood cut, or 1,000 or more fence posts
 cut or any number of cords of pulpwood cut.
- Maple trees tapped without report for maple syrup made; or gallons of syrup or pounds of sugar made and no number for number of trees tapped.
- More than 1 gallon of syrup or one-tenth pound of sugar per tree tapped.
- 6. Any report of \$50,000 or more for sales of horticultural products.
- Any report of acreage or glass area in horticultural specialties with no number for "value of sales"; or value of sales and no amount for area.

Card H

- Number of total cattle reported without a number for any age-sex subgroup.
- 2. 100 or more cows on hand with no calves or heifers on hand.
- Number of cows milked yesterday greater than total number of cows on hand.
- Number in any age-sex subgroup greater than number of total cattle.
- 5. Number of milk cows on hand exceeding total of all cows.
- Less than one-tenth of milk cows on hand reported as having been milked yesterday.
- 7. Milk cows on hand numbering five or more and none reported as having been milked yesterday.
- More than 10 gallons of milk production per cow milked yesterday.
- An amount punched for quantity of whole milk or cream sold without an amount for dollars or the number of dollars without the quantity sold.
- Ten or more cows milked yesterday with no amount of dairy products sold for the year.
- More than \$1,000 income from dairy products sold for every cow milked.
- Milk reported as being sold for less than 10 cents a gallon or less than 1 cent a pound.
- Value of cream sold more than \$10 per pound of butterfat or less than 10 cents per pound of butterfat.

Card I

- Number of horses or mules greater than the total of both kinds.
- Number of hogs in either of two age groups larger than total for both groups.
- A number for total hogs with no number for either age subgroup.
- 4. Ten or more total hogs on hand and none sold.
- 5. The number of "hogs born before June 1" less than the total of all ages without a number for "hogs born since June 1."
- 6. The number of "sows farrowed or to farrow" greater than "total hogs on hand."
- 7. Two or more sows on hand but no report for "hogs sold."
- 8. The average value of hogs sold less than \$1 each.
- 9. The average value of calves sold less than \$1 each.
- 10. The average value of cattle sold less than \$1 each.
- 11. The average value of sheep or lambs sold less than \$1 each.
- 12. The average value of horses or mules sold less than \$1 each.
- 13. The value of hogs sold averaging more than \$100 each.
- 14. The value of cattle or calves sold averaging more than \$1,000 each.
- 15. The value of sheep sold averaging more than \$100 each.

Card J

- All cards with a number for sheep 1 year of age or over with no number for "wool shorn."
- All cards with number for total sheep with no number for the age-sex classification. All cards with the number for the age-sex group exceeding the total sheep.
- 3. All cards with 100 or more pounds of wool per sheep shorn or less than 1 pound per sheep shorn.
- 4. All cards with total goats and with number for kind of goats not shown.
- 5. All cards with more than 10 pounds of mohair per goat clipped or less than 1 pound of mohair per goat clipped.
- All cards with a report for goats clipped less than one-tenth of the number of Angora goats on hand.

Card K

- All cards with 100 or more chickens on hand with no number for either chickens sold or eggs sold.
- 2. All cards on which the amount for "value of other chickens sold" or amount for "value of broilers sold" is less than one-tenth of the number punched for "number sold."
- 3. All cards on which the amount for "value of other chickens sold" or the amount for "value of broilers sold" is more than ten (10) times the number punched for "number sold."
- 4. All cards on which the amount for "value of eggs sold" is more than ten (10) times or less than one-tenth (1/10) the number representing "dozen sold."
- 5. All cards with ten or more turkeys raised or 100 or more of "poultry other than chickens or turkeys" raised without a report of sales for "other poultry and poultry products" or miscellaneous poultry reported as sold and no entry for "number raised."
- 6. All cards with 1,000 or more chickens on hand.

Card L

- Numbers for value of land and buildings larger than 1,000 times the number for acres.
- 2. Land values of less than 1 per acre provided value was reported.
- 3. Acres of "land rented to others" in excess of entry for "land owned" or "land rented from others."
- 4. Entry for "cash rent paid" greater than 10 percent of "value of land rented from others," or no entry for acres rented from others but with an amount for "cash rent paid."
- Any column for farm facilities punched other than "yes" or "no."
- "Yes" report for "mortgage debt" with no number for "acres owned."
- A card coded as "livestock-share tenant" with a crop type of farm code.
- 8. Cards with incorrect tenure codes such as:

Full owner with no "land owned."

Part owner with no entry for either land owned or land rented from others.

Tenant with no entry for "land rented from others" or with entry for "land owned."

Manager with no entry for "acres managed."

Economic class codes 8 or 9 with entry "other than miscellaneous" for type of farm.

- 9. Report of "value" without an accompanying acres entry.
- 10. Ten or more ponds, 3 or more garden tractors.
- 11. Any digit in column for class, color, tenure, type of farm codes other than that specifically provided by the code.

Card M

- 1. All cards representing \$20,000 or more for any expenditure.
- 2. Hired labor expenditures of \$5,000 or more without hired workers on farm or any number of hired workers with no amount shown for cash expenditure for hired labor.
- All reports of \$5,000 or more of expenditures for gasoline and oil, or for machine hire, and any hired labor in amount of \$5,000 or more, if the economic class code was 5 or higher.
- 4. Any number for total hired workers without the number to be employed "less than 150 days" or "more than 150 days" or the number of workers in either of these subgroups exceeding the total or the number of workers unequal to total workers when only one subgroup was reported.
- Any card with reports for monthly, weekly, or daily workers with the corresponding reports for the number of hours, number of workers, or amount of wages paid missing.
- All reports for hourly workers with either the number of workers or the rate of pay missing.

Card M-Continued

- 7. All reports for hours worked by monthly workers of 400 or more hours or less than 100 hours, for weekly workers of 100 or more hours or less than 20 hours, and for daily workers of 20 or more hours.
- Any card representing 10 or more workers for any basis of pay group.
- 9. All cards whereon all the expenditure items were punched "X."
- All punches for color, tenure, economic class, or type of farm other than that provided by the appropriate code.

Card N

- More tons of fertilizer applied to crops than the total of tons purchased.
- More than 200 pounds of fertilizer applied per acre of hay or pasture.
- 3. More than 1 ton of fertilizer applied per acre of crop fertilized.
- Absence of number for either tons, cost, or acres on which applied.
- 5. An amount for tons of fertilizer purchased with no entry for "acres of crops on which used."
- Absence of number for lime for either tons, cost, or acres on which applied.

The number of cards selected for each type for further verification was as follows:

Card type	Total Cards select mechanica		
	of cards	Number	Percent of total cards
All cards	38, 410, 859	3, 143, 893	8.2
A C-1 (corn)	4, 856, 169 2, 961, 609	274, 508 215, 494	5. 7 7. 3
C-2 (sorghums)	372, 657 14, 828, 890	62, 883 1, 188, 824	16.9 8.0
G	3, 673, 804	52, 013 452, 188	4. 6 12. 3
K	397, 529	160, 862 58, 473 101, 619	4. 2 14. 7 2. 9
M	1, 100, 542	205, 288 202, 209	18. 7 18. 7
N		169, 532	26. 4

All cards selected by the mechanical edit were listed on an IBM type 402 tabulating machine (see fig. 41). These listings were reviewed by members of the technical staff. Cards that appeared to be in error were marked on the listings. These cards and all excess cards (cards containing very large entries) were checked to the Agriculture Questionnaires and corrections were made when required. The following table indicates the number and proportion of each type of card corrected.

	C	ards correcte	d
Type of card	Total number of cards	Percent of cards selected	Percent of total cards punched
All cards	 1, 327, 918	42. 2	3.
1.1 (corn)	152, 500 117, 940	55, 6 54, 7	3. 4.
7-1 (corn) 7-2 (sorghums) 7-3	 22, 091 394, 100	35. 1 33. 2	5. 2
 	 11, 947	23. 0	Ī.
· • • • • • • • • • • • • • • • • • • •	198, 839 75, 881	44. 0 46. 4	5, 2.
	 6, 784 50, 712	11.6 49.9	1. 1.
[70, 470 152, 869	34. 3 75, 6	6. 14.
V	 73, 785	43.5	11.

Checking for errors after tabulation involved the checking of totals for counties, minor civil divisions, or other geographic areas for possible mistakes. Part of this checking was clerical in nature, and involved the checking for consistency of totals for the same or similar item on various tabulations. The major part of this checking was performed by technical staff and involved comparison of totals, averages and ratios for adjacent areas, for the 1954 and prior Censuses, and of totals and averages with data secured from other sources.

Prior to publication, the data in statistical tables were checked and reviewed. Checking comprised the comparison of data in various tables for consistency and the review involved the visual examination of the data by the technical staff.

ADJUSTMENT OF DATA FOR THE SAMPLE PRIOR TO TABULATION

Description of the sample.—The sample used for the 1954 Census of Agriculture consisted of specified farms and one-fifth of the remaining farms. Thus, the sample for most areas comprised somewhat more than 20 percent of all farms and in fact represented 22.5 percent of all farms in the United States. Farms in the sample comprised a larger proportion of all farms in the Western States than in other geographic areas.

The actual selection of farms in the sample was made by Census enumerators as part of the enumeration procedure. The enumerator listed the head of each household or each place on a single line on Form A2 and determined whether an agriculture questionnaire was to be obtained. If he filled an Agriculture Questionnaire, he was required to indicate in which one of the 5 size-of-farm groups the farm belonged. Each line on the Form A2 contained squares listing 5 size-of-farm groups. The enumerator was required to indicate for each farm or place enumerated in which of these 5 size-of-farm groups, the farm or place belonged. A random fifth of the squares for each of four of these 5 size groups was lightly shaded. (See fig. 9 for a facsimile of a page of Form A2.) If the farm was indicated as belonging in a shaded square, the farm was included in the sample. The fifth square, always shaded, was provided for indicating all farms of 1,000 acres or more; thus all farms of 1,000 or more acres were included as a part of the sample.

In some States, all farms with more than a specified acreage of cropland harvested, or irrigated cropland harvested, or more than a specified number of total cattle and calves on hand, milk cows on hand, or chickens sold also were included in the sample regardless of the size of farm. These farms, and all farms of 1,000 acres or more, were designated as "specified farms."

Adjustment of the sample.—For the 1954 Census of Agriculture, it was considered desirable to make adjustments in the sample in order to improve the accuracy of estimates based upon tabulation of data for the sample.

An adjustment in the 20 percent part of the sample was made by a process essentially equivalent to stratifying the farms in the sample by size, for the purpose of (1) improving the reliability of the estimates from the sample on an economic area level, and (2) for the purpose of reducing the effects of possible biases introduced because some Census enumerators did not follow perfectly the method devised for selecting the farms in the sample. In order to adjust the sample for each State economic area, counts were obtained of all farms except "specified farms" and of sample farms except "specified farms" for each of ten size-of-farm groups based on "acres in this place." The 10 size-of-farm groups were as follows: Under 10 acres, 10 to 29 acres, 30 to 49 acres, 50 to 69 acres, 70 to 99 acres, 100 to 139 acres, 140 to 179 acres, 180 to 259 acres, 260 to 499 acres, and 500 to 999 acres. In determining the extent of the adjustment the difference between the number of farms in the sample exclusive of "specified farms" and the total number of farms exclusive of "specified farms" divided by 5 was obtained for each size group. The actual adjustment for each size group in the sample was made by eliminating tabulating cards for farms when too many were included in a size group and by duplicating all tabulating cards for one or more farms when too few were included in the sample size group. The farms for which all the information was eliminated or duplicated were selected at

random from counties over- or under-represented in each size group in the State economic area. Although adjustments were made in 98 percent of the counties in the United States, the gross adjustments involved were small, averaging 3.2 percent for farms eliminated and 4.0 percent for farms duplicated for the United States. These adjustments are summarized in the following table:

Summary of Sample Adjustment by Size of Farm for the United States: 1954 Census of Agriculture

		Adjustr number		Total adj	justment
Size of farm	Number of farms	Farms dupli- cated	Farms elimi- nated	Farms duplicated plus farms eliminated	Net adjustment (number of farms)
Total	4, 782, 416	37, 181	29, 928	67, 119	+7, 243
Under 10 aeres	484, 291	7, 676	977	8,653	+6, 699
l0 to 29 acres	713, 335	7, 468	1, 903	9, 371	+5,56
30 to 49 acres	499, 496	5, 048	1, 886	6, 934	+3.162
60 to 69 aeres	346, 323	3, 204	1, 768	4,972	+1,436
70 to 99 acres	517, 740	3, 661	2, 919	6, 580	+743
00 to 139 acres	491, 158	3, 076	3, 205	6, 281	-129
40 to 179 aeres	461, 651	2, 562	3, 253	5, 815	-691
80 to 259 acres	463, 698 482, 246	1, 974 1, 886	4, 220 5, 109	6, 194	-2, 246
260 to 499 aeres 500 to 999 acres	191, 697	626	4, 698	6, 995 5, 32 4	-3,223
1,000 aeres or more.	130, 481	020	4, 098	5, 324	-4, 073

In order to illustrate the sample adjustment process, the actual calculations for Economic Area 3b in New York consisting of Chemung, Schuyler, Steuben, Tioga, and Tompkins counties is described. The following table shows the summary for the State economic area, of the total number of farms in each size group; the sample number that would be expected in a 20 percent sample, obtained by dividing the total number excluding "specified farms"

Size group (total acres in place)	Total number farms ¹	Expected number in sample (total number divided by 5)	Actual number in sample as desig- nated by enumer- ator	Difference be- tween expected number and actual number	Adjustments to be made
Under 10	491	98. 2	90	-8.2	Duplicate information on 8
10 to 29	596	119. 2	99	-20.2	questionnaires. Duplicate information on
30 to 49	492	98. 4	105	+6.6	20 questionnaires. Eliminate information on 7
				,	questionnaires.
50 to 69	734	146. 8	142	-4.8	Duplicate information on 5 questionnaires.
70 to 99	988	197. 6	200	+2.4	Eliminate information on 2 questionnaires.
100 to 139	1, 379	275. 8	258	-17.8	Duplicate information on
140 to 179	1,007	201. 4	192	-9.4	18 questionnaires. Duplicate information on 9
180 to 259	1, 247	249.4	267	+17.6	questionnaires. Eliminate information on
260 to 499	1, 103	220. 6	230	+9.4	18 questionnaires. Eliminate information on 9
F00 4 = D00	100	20.0	40		questionnaires.
500 to 999	199	39. 8	43	+3.2	Eliminate information on 3 questionnaires.

¹ Excludes specified farms.

by five; the actual number designated as sample farms, the difference between the expected number and the actual number, and the direction of the adjustments specified in each size group.

The direction of the adjustments to be made in each size group was determined by the direction of the net difference for all counties in the State economic area. To illustrate the allocation of adjustments among counties, data are given for size group "under 10 acres" in the preceding table.

County	Total number farms ¹	Expected number sample farms	Actual number sample farms	Difference
Chemung Schuyler Steuben Tioga Tompkins	78 69 113 121 110	15. 6 13. 8 22. 6 24. 2 22. 0	10 13 20 25 22	-5.6 -0.8 -2.6 +0.8 0.0
Total	491	98. 2	90	-8.2

¹ Excludes specified farms.

In this illustration 8 duplications were allocated to Chemung, Schuyler, and Steuben counties as the original sample in these counties was less than 20 percent. Tioga and Tompkins counties were not assigned adjustments in this size group because the original sample was equal or greater than 20 percent. The actual allocation of the adjustments to the various counties was made one at a time and each adjustment was assigned the county with the greatest ratio for the difference between expected sample size and actual sample size to the standard deviation. In this example the ratios were as follows: Chemung County, 1.59; Schuyler County, 0.24; Steuben County, 0.61. Therefore, the first adjustment was assigned Chemung County. After this adjustment the new ratio for Chemung County became 1.30; the difference for that county continued to be the largest, therefore, the second adjustment was made in Chemung County. The table at bottom of page indicates the sequence of adjustments as they were determined.

The selection of the questionnaire for which the tabulating cards were to be duplicated (or eliminated) was made by a random process. In this example, 5 questionnaires were selected at random from the 10 farms with less than 10 acres in Chemung County, for duplication.

When the questionnaires to be duplicated or eliminated had been selected, colored finder tabulation cards with "ears" were punched with the identifying information for these questionnaires and these cards were inserted with the punch cards for the county. These finder cards readily identified cards for questionnaires that were to be duplicated or eliminated. Cards to be eliminated were removed from the file before making the tabulations and cards to be duplicated were duplicated with a reproducing punch and placed in the file for tabulating. The adjustments for the sample were made only when the cards for the sample were to be used for making tabulations.

	Chemung County		Schuyler County		Steuben County
Ratio 1	Adjustment	Ratio ¹	Adjustment	Ratio 1	Adjustment
1. 59 1. 30 1. 02 . 74 . 45 . 17	Assigned 1st adjustment (duplication). Assigned 2d adjustment. Assigned 3d adjustment. Assigned 4th adjustment. Assigned 6th adjustment.	0. 24	Assigned 8th adjustment.	0. 61 . 38 . 14	Assigned 5th adjustment. Assigned 7th adjustment.
Summary	5 adjustments assigned Chemung County	1	adjustment assigned Schuyler County	3 adjustm	ents assigned Steuhen County

¹ Ratio of the deviation of the sample number from the expected sample number to the standard deviation.

TABULATION

All tabulating work was performed by the use of punch cards by electric tabulating equipment. The table below indicates the number and duration of use of various types of punching and tabulating equipment for the Census, including the preparation of special tabulations for special reports. The tabulations were prepared using Census-built and International Business Machine Company statistical machines. (See table below and figs. 34 to 43.)

Tabulation sheets showing tabulations made by counties appear in the appendix. Tabulations made for State economic areas and for subregions were similar to those made by counties. Tabulations for the L, M, and N cards at the county level and for all tabulations for State economic areas and for subregions included only the cards for farms in the sample. As it was necessary to multiply the totals for cards for farms, except specified farms, in the sample by 5 in order to obtain an estimated total for all farms,

tabulating machines were modified to mechanically make this multiplication during the tabulating. Illustrative examples of the various diagrams used on the several tabulating machines are given in figures 44, 45, 46, and 47.

Several steps were taken to maintain quality of the tabulating work. For most tabulations, card counts were established in advance and if the tabulation did not show a total card count within 3 of this control count, the tabulations were not usually considered acceptable and were rerun. In order to prevent errors arising because of machine failure, test decks of cards (see fig. 48) were established for each tabulation. These test decks were tabulated 4 times each 8 hours and if the tabulation did not show the correct totals, immediate steps were taken to locate the cause of the error. Immediately after the completion of tabulations, the tabulated data of a sample comprising one-tenth of the horizontal lines were examined for evidence of machine errors.

Number of Punching and Tabulating Machines by Type Used by Months for the 1954 Census of Agriculture*

Month and year	Punching machine (IBM type 024)	Punching machine used for card correction (IBM type 031)	Collator to match, merge, and check sequence of cards (IBM type 077)	Sorting machine (1BM type 082)	Counting and tabu- lating machine (IBM type 101)	Tabulating machine (IBM type 402)	112 counter accounting machine capacity 150 cards per minute (1BM type 407)		90 or 120 selector combina- tion multi- column sorter and 60 counter unit tahu- lator (Ceusus machine 487 and 489)	Multi- column sorter 80 column board wired (Census machine 488)	Census 60 counter unit tabu- ulator old type not combined with multi- column sorter (Census machine 581)	Census 60 counter unit tabulator combined with multicolumn sorter with modernizations (Oensus type 582)
November December	43 207			1 1		1		1 1				
1955 January February March April	327 328 330 315	18 26 26 26	2 3 3 5	9 9 15 18	1 1 5 7	1 6 12 12		7 8 12 12	5 8 11 14	2 2 2 3	3 3 4 4	1 2 3 3
May June July August	299 299 236 116	26 26 26 26 26	3 6 6 5	18 18 24 27	8 8 10 10	12 15 17 14	2 5 5	10 13 14 12	14 14 15 15	3 3 5 5	4 4 4 4	3 3 3 3
September October November December	3 1 1 1	26 9 9 6	5 3 2 1	27 21 21 17	10 6 6 5	11 8 8 6	5 5 5 5	7 7 6 5	14 13 13 13	5 5 5 5	4 5 5 5	3 1 1 1
1956 January February Marcb April	1 6 13 36	3 8 4 6	4 3 3 2	10 11 11 11	5 5 4 3	4 4 4 1	3 3 3 3	6 6 6	13 6 6 6	5 1 1	7	1
May	18	7 2 2 1	2 1 1	6 6 6 5	1	3 3 3 2	1	4 4 4 2	3 3 1 1	1 1 1 1		
September October November December		2 2 2 2 2		5 9 5 5		2 3 2 2		2 3 3 2	1 1 1 1	1 1 1 1		

^{*}IBM refers to machines of the International Business Machines Co.

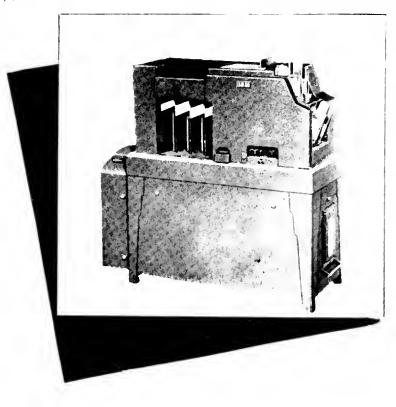
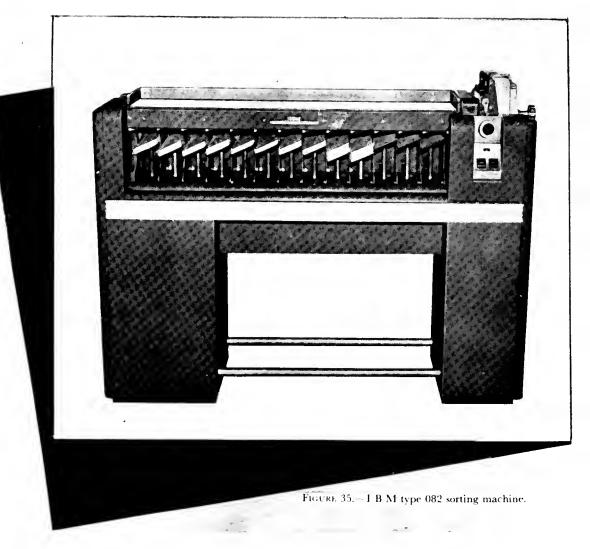
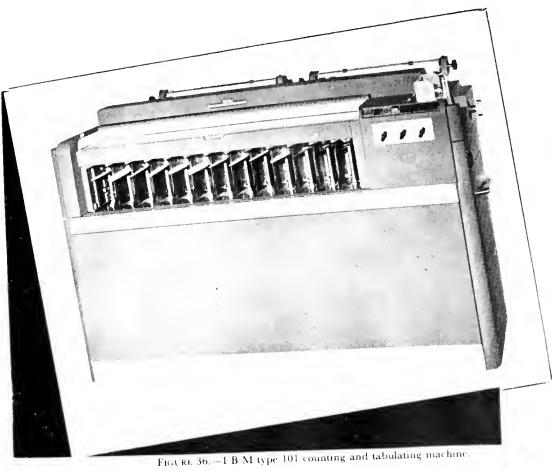
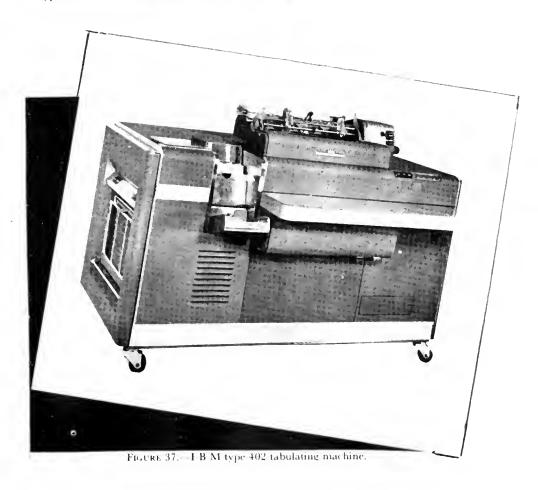


FIGURE 34.—I B M type 077 collator.







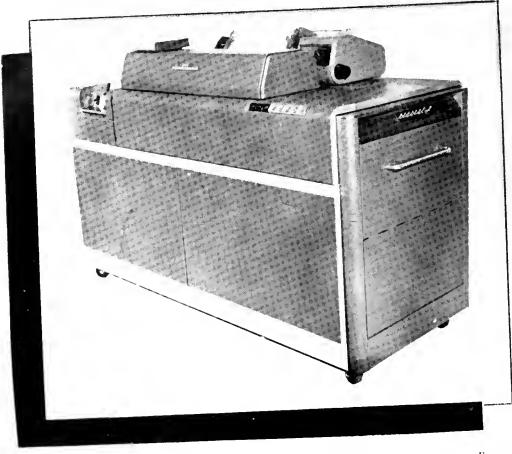


Figure 38. I B M type 407 accounting machine.

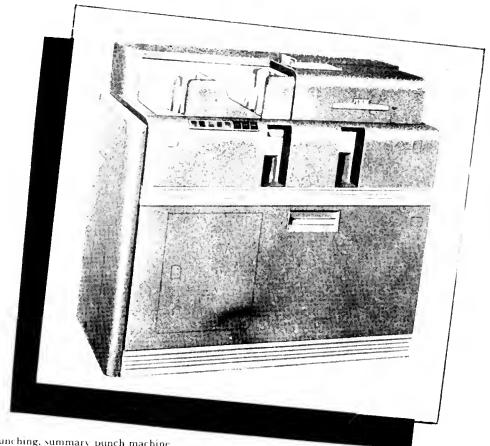
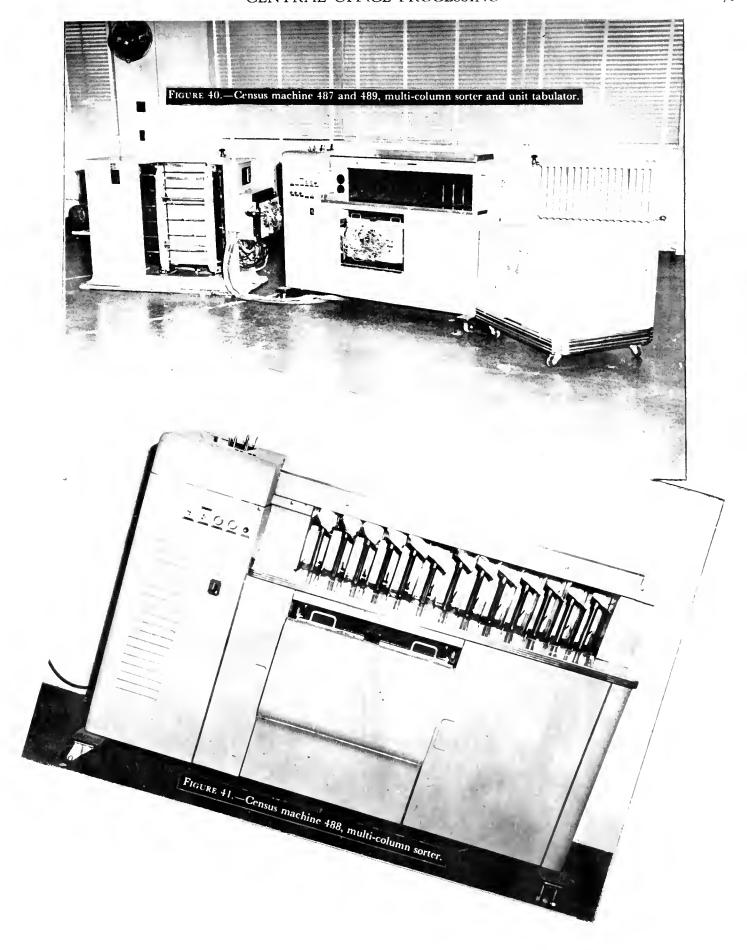
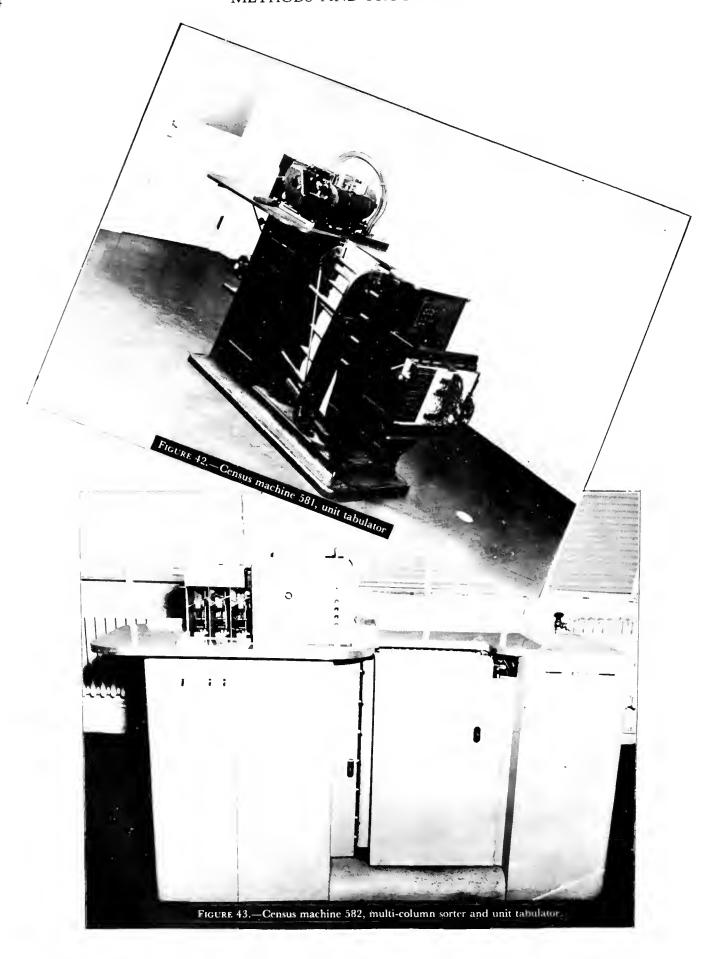


Figure 39.—I B M type 514 reproducing, gang-punching, summary punch machine.





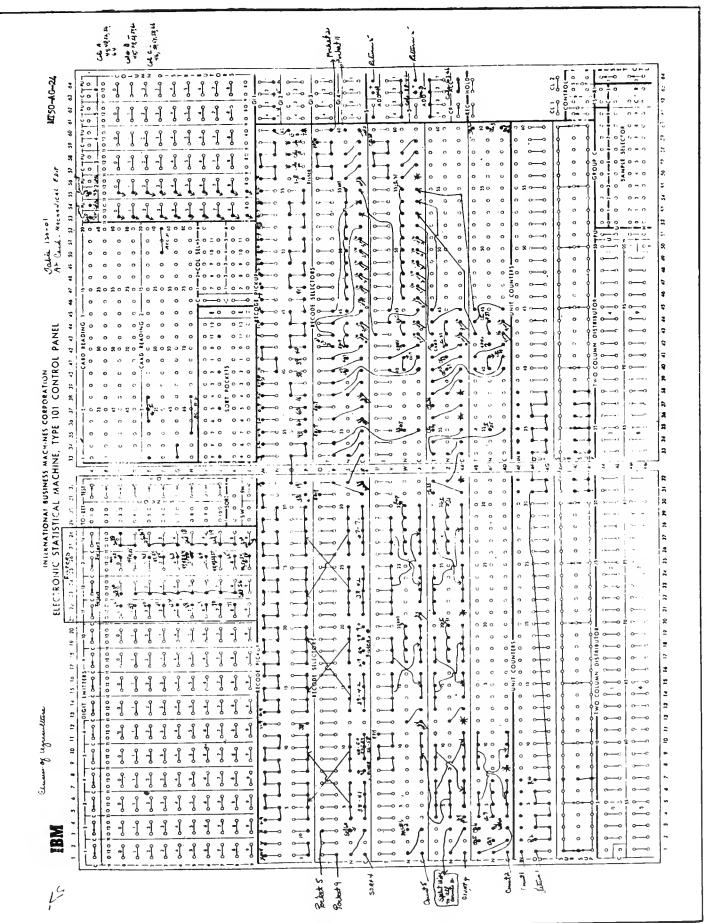


FIGURE 44.—Illustrative example of wiring diagram, type 101, control panel.

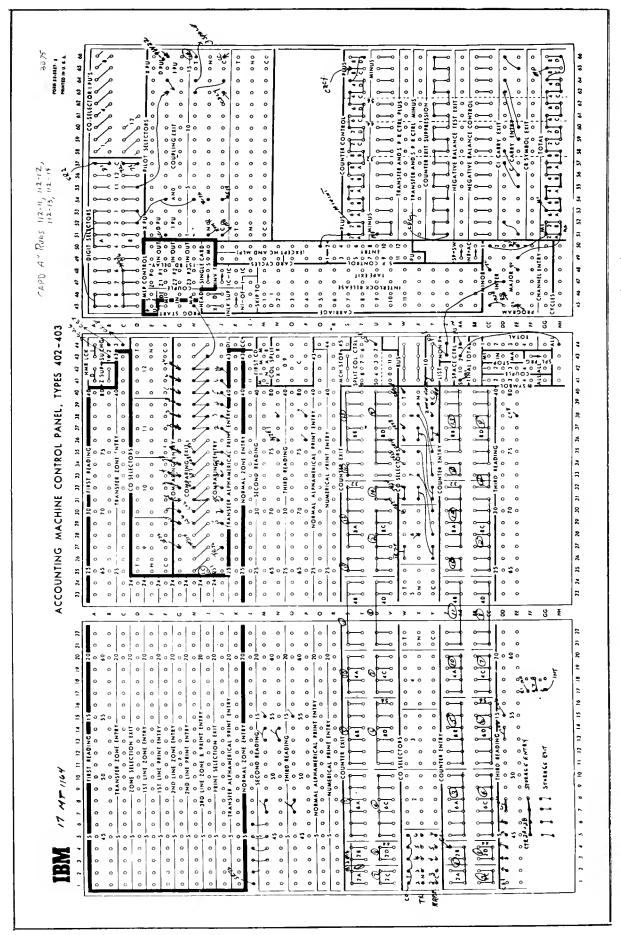


Figure 45.—Illustrative example of wiring diagram, type 402-403, control panel.

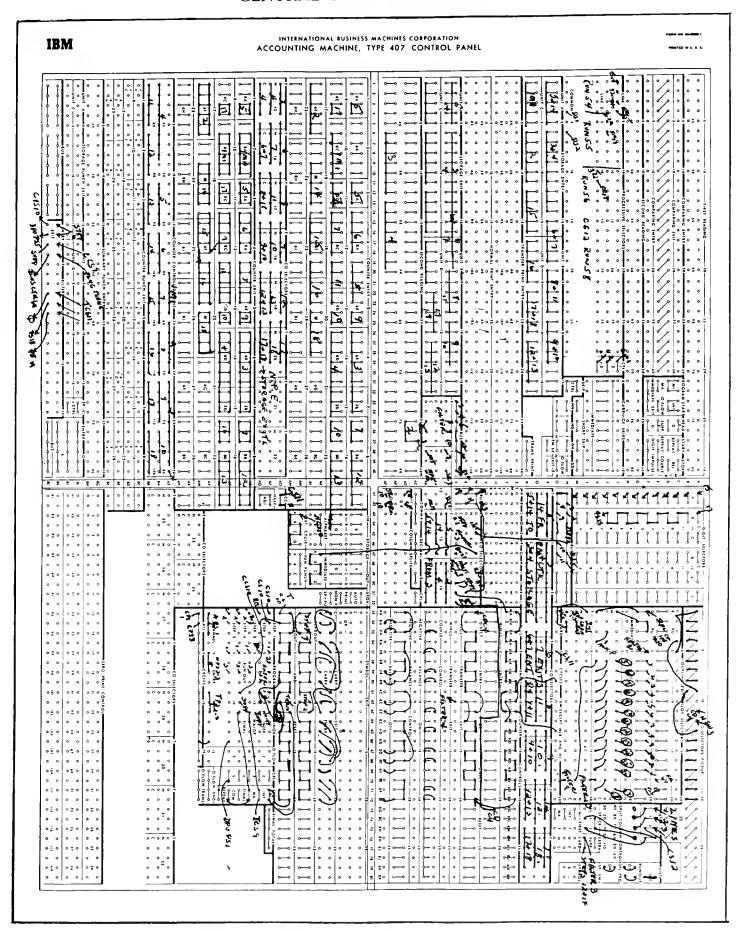


Figure 46.—Illustrative example of wiring diagram, type 407, control panel.

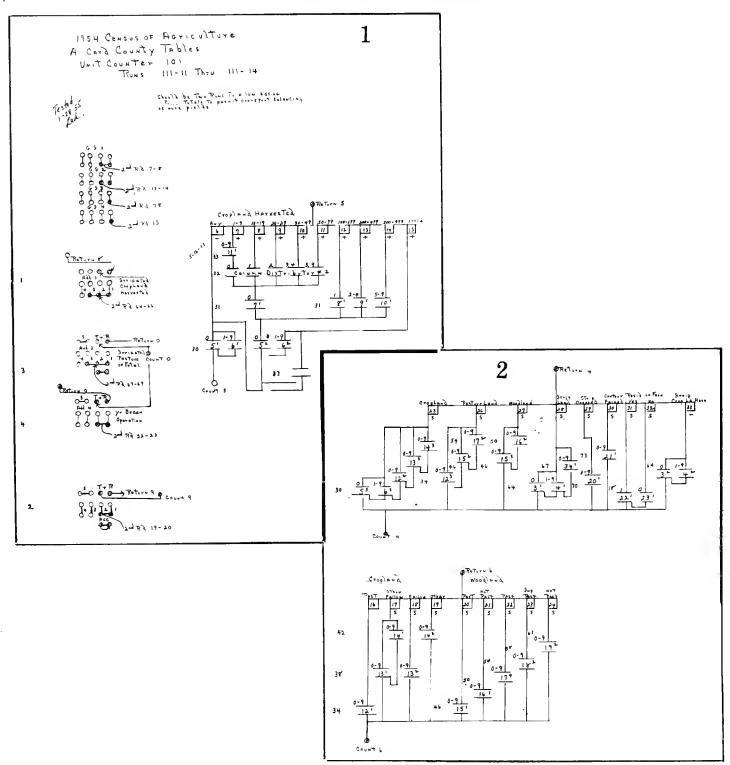


FIGURE 47.—Illustrative example of wiring diagram, unit counter 101.

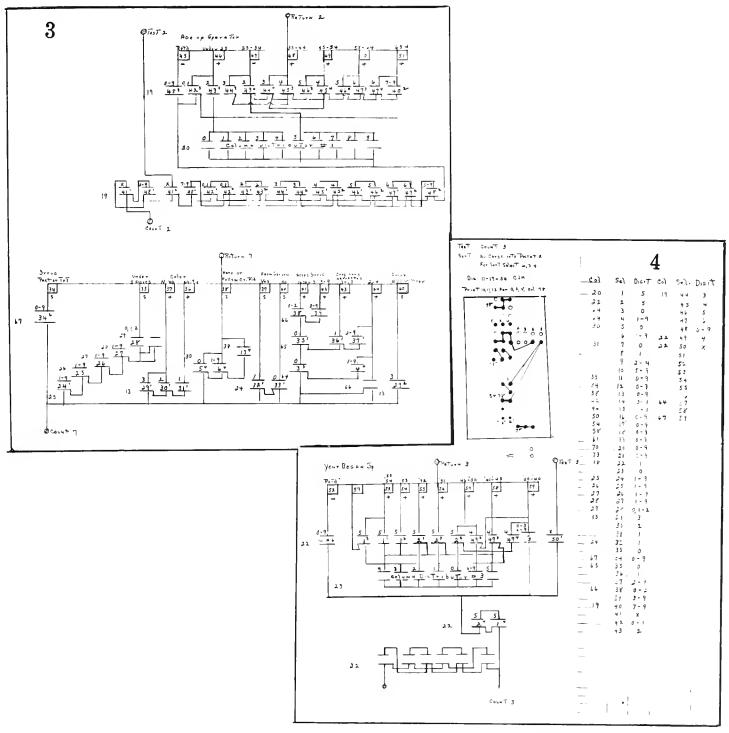


Figure 47.—Illustrative example of wiring diagram, unit counter 101—Continued.

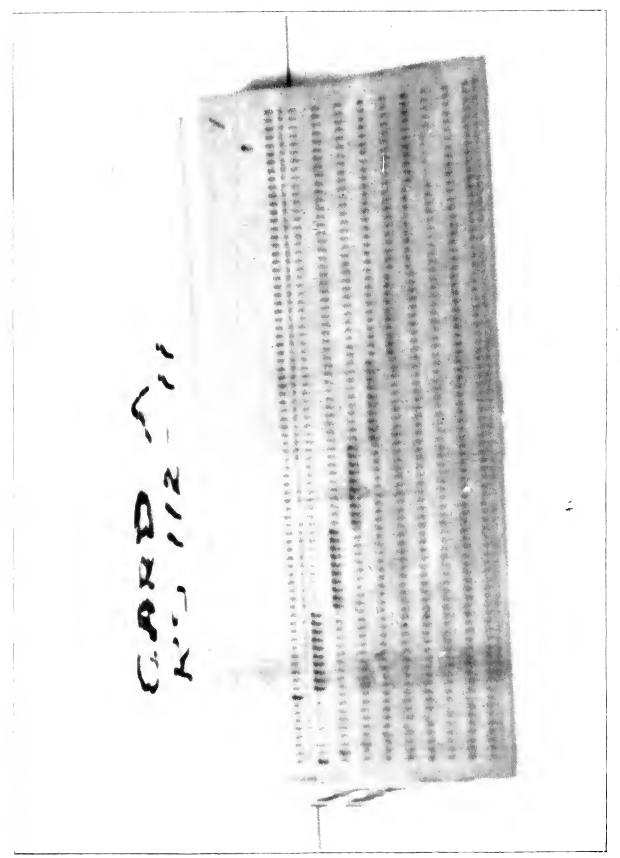


FIGURE 48.—Test decks of cards used to discover tabulating machine errors.

EVALUATION OF THE COMPLETENESS OF THE CENSUS

Generally, reliable data to indicate the completeness of the Census of Agriculture are not available from other sources. Programs for providing measures of the completeness of the Census were a part of the 1950 and 1954 Censuses of Agriculture. These programs required the making of a special survey to provide estimates regarding the completeness of the counting of the number of farms, and the acres of land in farms, cropland harvested, corn, wheat, and cotton.

For 1954, two samples were used for this special survey. The first sample comprised 772 small geographic areas or segments in rural areas in 319 counties. These small areas usually contained 4 or 5 farms each and the total number of farms for all these areas was 2,800. The location of the 319 counties containing these small areas is indicated by figure 49.

The sample of segments was selected by grouping the counties in the United States in 200 groups so that each group had slightly less than 30,000 farms according to the 1950 Census of Agriculture. For each of these groups, a sample of counties was selected with probabilities proportionate to the number of farms in 1950. In the part of the 200 groups of counties, where the acreage of wheat and cotton was important, the selected sample was spread among about 50 additional counties in order to reduce variability of the sample for the acreage of wheat and cotton. Within the counties selected for the sample, a sample of segments, each comprising 3 to 5 farms, was selected so that the sample would be self-weighting at the proportion of 1 in 1,500.

The second sample was obtained after the completion of the enumeration by drawing the boundaries of the 772 segments on the enumerator's maps and making a list by the use of the Form A2 of all places which the Census enumerator indicated as located within the segment area. This list sample, covered to a large extent, the same places and farms as the 772 segment sample.

This list sample was supplemented by taking a sample of 1 out of 950 farms of 1,000 to 9,999 acres (this resulted in a sample of 120 farms) and a sample of 1 in 20 of all farms of 10,000 acres or more (this resulted in a sample of 365 farms).

The evaluation program called for the re-enumeration of all places in the 772 segments and all places listed in the list sample. A group of 60 specially selected and trained enumerators were used for this re-enumeration. They were given 40 hours of training and were provided with detailed questionnaires for recording the information. Aerial photographs or other detailed maps were given them for the 772 segments. The enumerators were required to indicate on the aerial photograph (see fig. 50 for an illustrative example) or on special maps, the location, and boundaries of every field within the segment. Detailed information regarding the area and agricultural use of each field was obtained. Enumerators were required to account for the area of the segment. Enumerators were instructed to fill Agricultural Questionnaires for any place or farm found in the segment and not included in the list sample. For places and farms in the list sample, and not located within the 772 segments, enumerators were instructed to obtain detailed information regarding the area comprising the farm and its agricultural use.

After the completion of the reenumeration the reports of the special enumerators were checked against the Agriculture Questionnaires filled by the Census enumerators by Central Operations Office personnel. In all cases, when there were significant differences between the two reports, another special enumerator was sent to check and obtain a report for the reasons for the differences.

Estimates on farms missed in the Census were obtained on the basis of detailed records and maps of all places located within the 772 segments. Estimates on the coverage of land in farms, and the acreage of cropland harvested, wheat, corn, and cotton harvested were based on the detailed data for farms included in the list sample, and located outside the segment as well as on the detailed data for farms in the 772 segments.

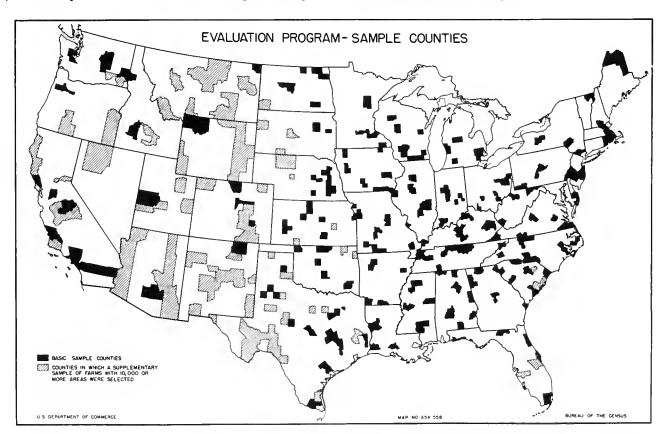
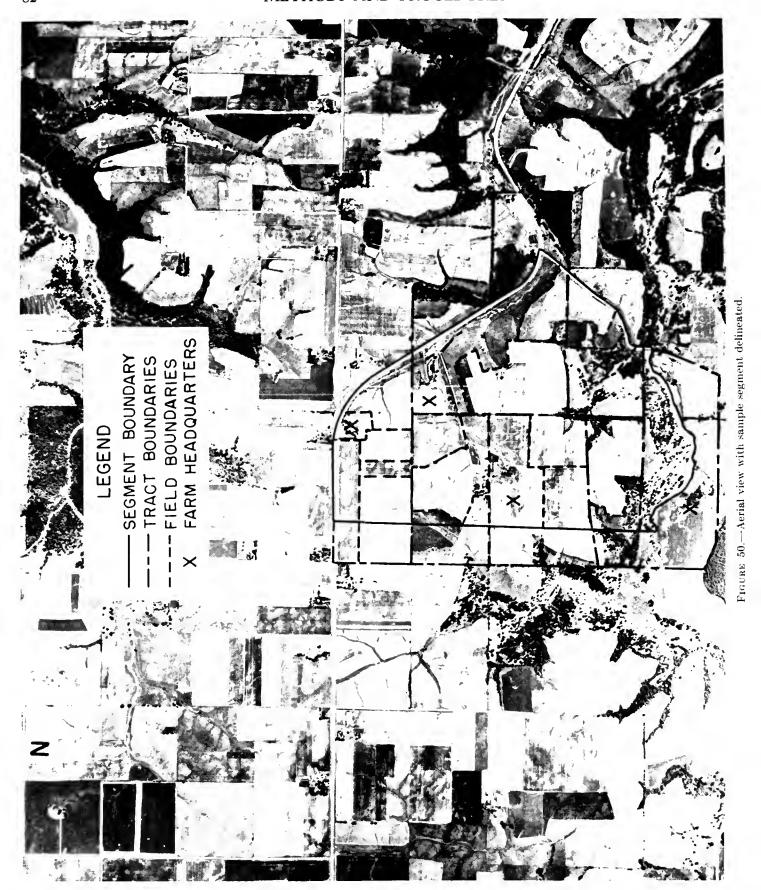


FIGURE 49.—Evaluation program—Location 319 counties comprising sample used in evaluating completeness of enumeration.



PREPARATION AND PUBLICATION OF REPORTS

Reports are the important end product of a Census. The kinds of data to be published determine not only the content of the questionnaire but also the kinds of tabulation made.

The form of reports was related to timing. Every effort was made to make the basic data for counties and States available as soon as possible. The series of releases AC54-1 and AC54-2 were issued with data for each county and State as soon as the data became available. (See appendix, figs. 51 and 52, for facsimiles of these releases.) The time schedule for the issuance of preliminary release, AC54-1, is given on page 13. Final reports appeared in three volumes. Volume 1 contained detailed data for counties, State economic areas, and States. Volume 11 contained a summary by subject for States and geographic divisions of the data presented in Volume I. Volume III comprised special reports. A list with a brief description of all final publications for the 1954 Census of Agriculture appears on page IV.

The publication process.—Generally, the offset or multilith printing process was used for printing reports for the 1954 Census

of Agriculture. The setting of type was limited largely to texts for all reports and for the preparation of analytical reports.

In preparing copy for printing, work tables were prepared from the tabulations. These work tables (see appendix, fig. 53 for an illustrative example) had preprinted stubs and an indication of the source of the data. The data were posted on these forms and tables were reviewed by subject-matter technical staff before being sent for typing for offset printing or multilithing. Preprinted forms (see fig. 54 for an illustrative sample) were used for preparing typed copy. The typing was performed with electric typewriters. After typing, a photoprint was made of the typed table and this photoprint was used for verification of the typing. Verification of the typing was usually accomplished by proofreading headings, notes, and a sample of the lines containing data for each page. The verification of data was usually accomplished by adding the typed data and checking with established totals.

Printing.—The printing of preliminary reports was performed by the Department of Commerce. The printing of final reports (Volumes I, II, and III) was performed by the United States Government Printing Office, using either its own facilities or that of contractors.

			4 :

APPENDIX

DESCRIPTION OF PRELIMINARY REPORTS OF THE 1954 CENSUS OF AGRICULTURE

Series AC54-1.—One 4-page report for each county and for each State in the United States, one summary report for the United States, one each for the North, the South, and the West.

These reports presented preliminary results on number of farms, farm characteristics, acreage in farms, value of land and buildings, uses of land, farm facilities and equipment, specified classes of livestock, specified crops harvested, and fertilizer and lime used. Available comparable data from the 1950 Census of Agriculture were also included.

Series AC54-2.—Value of Farm Products Sold by Source.—This series supplemented Series AC54-1. There was one report for each State with data by counties, and one for the United States with statistics by States. The report presented information on the value of sales of field crops, vegetables, fruits and nuts, and horticultural specialties; the value of sales of dairy products, poultry and poultry products, livestock and livestock products; and the value of sales of forest products.

Series AC54-3.—Consisted of preliminary reports presenting data on selected items from the 1954 Census of Agriculture as follows:

No. 1—Farm Expenditures for Gasoline and Other Petroleum Fuel and Oil.

No. 2—Farm-Mortgage Debt Rises with Increasing Farm Land Values.

No. 3—Summary of selected items from the 1954 Census of Agriculture by Congressional Districts, by States. Data were presented for number of farms, value of products sold, selected facilities, and principal crops, for Congressional Districts with 1,000 or more farms.

Press releases.—Several hundred advance reports, on almost as many subjects, were prepared and issued as press releases. Among these releases were reports on the following:

Statistics for selected items of inventory and agricultural production for the leading 100 counties of the United States.

Sales from farms of different economic classes, for States and for the United States.

Summary reports for the United States on selected items such as farms classified by value of farm products sold in 1954; average age of the American farmer; increase in farm facilities and equipment; expenditures for selected items; etc.

All preliminary and advanced reports or releases were superseded by the final volumes of the 1954 Census of Agriculture. For a description of final reports, see page 1V. April 1955

LIBERTY COUNTY, GEORGIA

(57-089) Series AG54-1

This release presents figures from the 1954 Census of Agriculture, together with available comparative data from the 1950 Census of Agriculture. The figures from the 1954 Census are preliminary and are subject to revision. A similar report will be released for every county in the United States. A preliminary report, carrying State totals only, will be issued following the publication of figures for all of the counties in the State. After that, final figures for this county and for other counties in the State will be published in a State Report

Generally, the data for both 1954 and 1950 are based upon the tabulation of reports for all farms in the county. However, the 1954 and 1950 data for items followed by a star (★) represent estimates for all farms inade on the basis of reports from a sample of approximately 20 percent of the farms. These estimates are subject to sampling errors and hence will not agree exactly with totals obtained by a tabulation of data for all farms. Inventory items are for October-November for 1954 and for April for 1950; and production items are for the calendar years 1954 and 1949.

Item	County total	Item	County total
FARMS, ACREAGE, AND VALUE		FARMS BY SIZE	
Fermsnumber 1954	607 548	Under 10 acres	236 159
Approximate land areaacres 1954	326,400	Under 3 acresnumber 1954	67
Proportion in farmspercent 1954 Land in farmsacres 1954	31.0 101,029	1950 3 to 9 acresnumber 1954	169
1950	107,554	1950 10 to 29 acresnumber 1954	153 172
Average size of farmacres 1954	166.4	1950	175
1950	196.3	30 to 49 acresnumber 1954	68
Value of land and buildingsaverage per farm, dollars 1954	10,217	50 to 69 acresnumber 1954	31 39
1950 average per acre, dollars 1954	6,018 51.81	70 to 99 acresnumber 1954	20
1950	33.36	1950 100 to 139 acresnumber 1954	25
Land in farms according to use:		1950	17
Cropland harvested	488 500	140 to 179 acresnumber 1954	9
acres 1954 1949	4,038	180 to 219 acresnumber 1954	3
1 to 9 acres	5,618 385	220 to 259 acresnumber 1954	5
1949 10 to 19 acrea	348 60	1950 260 to 499 acresnumber 1954	16
1949	93	1950 500 to 999 acresnumber 1954	17
20 to 29 acres	19 29	1950	14
30 to 49 acres	12 15	1,000 acres and overnumber 1954	18
50 to 99 acres	11	FARMS BY COLOR AND TENURE OF OPERATOR	1
1949 100 to 199 acres	10		
1949 200 acres and over	4	Farms by color of operator: White operatoranumber 1954	209
1949	1	1950	166
Cropland used only for pasturefarms reporting 1954 1949	142 115	Norwhite operatoranumber 1954 1950	398 382
acrea 1954 1949	1,962	Farms by tenure of operator: Full ownersnumber 1954	550
	4,389	1950	458
Cropland not barvested and not pasturedfarms reporting 1954 1949	255 124	Part ownersnumber 1954	33
acres 1954	2,507	Managersnumber 1954 1950	58
Woodland pastured	1,167	All tenantsnumber 1954	21
1949 acres 1954	167 57,448	1950 Proportion of tenancypercent 1954	3.5
1949	72,491	1950 Cash tenantsnumber 1954	5.1
Woodland not pasturedfarms reporting 1954 1949	176 215	1950	8
acres 1954 1949	13,235	Share-cash tenantsnumber 1954	
Other pasture (not cropland and	15,537	Share tenantsnumber 1954	
not woodland)ferms reporting 1954 1949	107 57	Crop-shere tenantsnumber 1954] 1
acres 1954 1949	4,175 1,497	Livestock-share tenantsnumber 1954	2
Improved pasturefarms reporting 1954	55	1950	10
Other land (house lots, roads, wasteland,	2,544	Croppersnumber 1954	- 6
etc.)	564 499	Other and unspecified tenantsnumber 1954	6
acres 1954	17,664	Annaharan Richt Payne Alm Politicamin	
1949	6,855	SPECIFIED FACILITIES AND EQUIPMENT ^a	
Irrigated land in farms	:::	Telephone	37
acres 1954		Electricity	518
1949	•••	Television set	94
Land in cover crops turned under for green manure	34.	Piped running water	187
ecres 1949	227	1950	34
Cropland used for grain or row cropa farmed		Electric pig brooder	10
on contourferms reporting 1954 acres 1954		Milking machine	
		Grain combinesfarms reporting 1954	
FARM OPERATORS		1950 number 1954	:
Residing on farm operatedoperators reporting 1954 1950	580 521	Corn pickers	
		1950	
Not residing on farm operatedoperators reporting 1954 1950	11 21	number 1954 1950	
		Pick-up hay belers	10
With other income of family exceeding value of agricultural products sold*operators reporting 1954	498	number 1954	10
1949	342	Field forage harvesters	1.
Working off their farm, total*operators reporting 1954	454	number 1954	12
1949 100 days or moreoperators reporting 1954	398	Artificial ponds, reservoirs, and earth tanks	16
1949	263	number 1954	18

FARMS, FARM CHARACTEFISTICS, AND FARM PRODUCTS

County to	Item	County totel	Item
	FARMS BY TYPE OF FARM -Continued		SPECIFIED FACILITIES AND EQUIPMENT Continued
	Poultry farmsnumber 1954	188	otortrucksfarms reporting 1954
	1950 Livestock farms other than dairy and poultrynumber 1954	143 225	cumber 1954
	1950 General farmsnumber 1954	161 82	950farms reporting 1954
	1950	56	1950
	Primarily cropnumber 1954	103 . 75	bumber 1954 1950
	Primarily livestocknumber 1954	82	Wheel tractors other than garden farms reporting 1954
	1950	39 90	1950 number 1954
	Crop and livestocknumber 1954	53	1950
	Miscellaneous and unclassified farms	6	Garden tractors
	1950	6	Crawler tractors
1	FARMS BY ECOHOMIC CLASS* Commercial farms	7 196	number 1954 tomobilesfarms reporting 1954
1	1950	176	1950
1	Class I (value of products sold, \$25,000 or more)pumber 1954	205 198	number 1954 1950
1	1950		rms by class of work power:
	Class II (value of products sold, \$10,000- \$24,999)number 1954	275 215	No tractor, horses, or mules
1	1950		No tractor and 2 or more horses and/or
ľ	Class III (value of products sold, \$5,000- \$9,999)number 1954	31 37	mules
	1950	45	Tractor and no horses or mules
	Class IV (value of products cold, \$2,500- \$4,999)number 1954		FARM LABOR [★]
	1950		ek of Oct. 24-30:
	Class V (velue of products sold, \$1,200-\$2,499)number 1954	473 620	Family and/or hired workers
ĺ	Class VI (value of products sold, \$250-\$1,199)number 1954	469	Family workers, including operatorfarms reporting 1954
	1950 Other farms	444 108	Operatorspersons 1954 Unpaid members of operator's familyfarms reporting 1954
	1950	128	persons 1954 Hired workers
	Part-time ¹ number 1954 1950	25 48	persons 1954
	Residential (with less than \$250 value of	i	SPECIFIED FARM EXPENDITURES*
	products sold)	593	ecified farm expendituresfarms reporting 1954
	farms, etc.)number 1954	475	Hachine hire and/or hired laborfarms reporting 1954
	HORSES AND MULES	302 174	1949
	Horses and/or mules	200	Machine hire
ĺ	oumber 1954	83 18,264	1949 dollers 1954
	CATTLE AND DAIRY PRODUCTS	1,775	
	Cattle and calves	167 139	1949
5	1950 oumber 1954	47,641	dollera 1954 1949
5	1950	65,558 505	Feed for livestock and poultryferms reporting 1954
	Cowe, including heifers that have calved	409 104,043	1949 dollere 1954
3	1950 oumber 1954	87,822	1949
3	1950	107	Gasoline and other petroleum fuel and oil
ĺ	Milk cows	99	1949
	number 1954	36,448 18,164	dollars 1954 1949
ĺ	Heifers and heifer calvesfarms reporting 1954	496	Commercial fertilizer
1	number 1954	56,541 1,290	dollers 1954 tons 1954
1	Steers, bulls, and steer calvesfarms reporting 1954 number 1954	5,808	time and liming masterials
	Whole milk soldfarms reporting 1954	55 595	tons 1954
54	1949 gallons 1954	4,037	dollars 1954 acres limed 1954
26	1949	655	ops on which commercial fertilizer was used, 1954:
26	dollars 1954 Cream soldfarms reporting 1954	63	Hay and cropland pasturedfarms reporting
1	1949	242 938	tons acres on which used
ĺ	pounda of butterfat 1954 1949	44	Other pasture
ĺ	HOGS dollars 1954	257 1,205	acres on which used
1	Hogs and pigsfarms reporting 1954	374	Cornferms reportingtons
4	1950 number 1954	466 2,773	acres on which used
4	1950	50	Cotton
2	Born before June 1	68 155	acres on which used
	Born since June 1	156 85	Fruits, vegetables, potatoes, etcfarms reporting toms
2	number 1954 Sows and gilts farrowing	287	acres on which used
]	number 1954	121	Other crops
	June 1 to December 1	172 450	acres on which used
11/14-1	Average date of anumeration		FARMS BY TYPE OF FARM
	POULTRY AND POULTRY PRODUCTS		ield-crop farms other than vegetable and
	Chickens, 4 months old and over, on handfarms reporting 1954	70 18	Truit-and-nutnumber 1954 1950
			Cash-grainnumber 1954
12	number 1954		1950
1 <u>2</u> 8	1950	:::	Cotton
	1950 Chickens cold		Cottonaumber 1954 1950
8	1950 Chickens cold	 6 70	1950 Other field-cropoumber 1954
	1950 Chickens cold		1950 Other field-crop
8	1950 Chickens sold farms reporting 1950 number 1952 1950 1950 1950 1950 farms reporting 1952 number 1952 number 1952	6 70 12 5	1950 Other field-crop
8	1950 Chickens cold	6 70 12 5	1950 Other field-crop

¹Part-time forms include those with value of products sold of \$250-\$1,199 and operator either reporting 100 days or more of off-farm work or reporting other income exceeding value of agricultural products sold.

LIBERTY COUNTY, GEORGIA-3

Item	County total	Item	County total
POULTRY AND POULTRY PRODUCTS—Continued		SPECIFIED CROPS HARVESTED—Continued	
Chicken eggs sold	30 92	Annual legumes—Continued Soybeans grown for all purposes—Continued	
dozens 1954	12,670	Soybeans harvested for beansfarms reporting 1954 1949	 1
dollars 1954	5,454	acres grown alone 1954	
Turkeys reised		acres grown with other crops 1954 bushels 1954	
1949 number 1954		1949	13
1949	945 10	Soybeans cut for hayfarms reporting 1954	2 2
Light breeds	97	acres grown alone 1954 acres grown with other crops 1954	11
Heevy breeds	13 300	tons 1954	3 13
		Soybeans hogged or grazed, or cut for	2
Turkeys kept for breedingfarms reporting 1954 number 1954	26 76	silagefarms reporting 1954	
Light breedsfarms reporting 1954 number 1954	18 52	acres grown alone 1954 acres grown with other crops 1954	:::
Heavy breedsfarms reporting 1954	8	Soybeans ploved under for green manure	2
number 1954	24	acres grown alone 1954	2
ANIMALS SOLD ALIVE		acres grown with other crops 1954 Cowpeas grown for all purposesfarms reporting 1954	10
Cettle, hogs, sheep, horses, or mules sold		1949	173
elivefarms reporting 1954		acres grown slone 1954 1949	284 420
dollars 1954 1949		acres grown with other crops 1954 1949	105 206
Cettle and/or calves sold alivefarms reporting 1954	135	Cowpeas harvested for dry peasfarms reporting 1954	64
1949 number 1954	1,507	1949 scres grown slone 1954	171
1949	1,327	acres grown with other crops 1954	48
Cettle sold elive, excluding celvesfarms reporting 1954 number 1954	674	bushels 1954 1949	461 663
dollars 1954		Cowpeas cut for hay	19 42
Calves sold slive	833	acres grown alone 1954	185
dollars 1954	19,831	acres grown with other crops 1954 tons 1954	12 246
Hoge and pigs sold alivefarms reporting 1954		1949	202
1949 number 1954		Covpeas hogged or grazed, or cut for silage	25
1949 dollars 1954		acres grown elone 1954 acres grown with other crops 1954	59 45
Horses and mules sold alivefarms reporting 1954	8	Cowpeas plowed under for green	
number 1954 dollars 1954		manure	
SPECIFIED CROPS HARVESTED	, , , ,	acres grown with other crops 1954	
Corn: Corn for all purposesfarms reporting 1954	426	Peanuts grown for ell purposes	20
1949 acres 1954	464	acres grown alone 1954 1949	17 46
1949	3,022	scres grown with other crops 1954	42
Harvested for grainfarms reporting 1954	407	Peanuts harvested for picking or	79
acres 1954	1,801	threshingfarms reporting 1954	4
1949 bushels 1954		1949 scres grown alone 1954	33
1949 Cut for silagefarms reporting 1954	34,099	acres grown with other crops 1954 pounds 1954	1,230
1949		1949	3,218
scres 1954 1949		Peanut vines or tops saved for hay or forage	2
tonsgreen veight 1954	92	1949 scres grown elone 1954	12
Hogged or grazed, or cut for green or		scres grown with other crops 1954	2 2
dry fodder		tons 1954	1 20
acres 1954	6.55	Velvetbeans grown for all purposesfarms feporting 1954	53
1949	. 552	1949 scres grown alone 1954	103
Sorghuma:	.	scres grown with other crops 1954 bushels 1954	308
Sorghum for ell purposes except sirupferms reporting 1954 1949	.	1949	87 263
BCTES 1954 1949		Hay crops, excluding specified annual legumes and sorghum hay: Alfalfa, clover, and their mixtures cut	
	1	for hayfarms reporting 1954	
Small grains: Wheat threshed or combinedfarms reporting 1954		6cres 1954 tons 1954] :::
1949 scres 1954		Lespedeza cut for hayferms reporting 1954	"i
1949		acres 1954	
bushels 1954 1949		1949 tons 1954	4
Osts threshed or combinedfarms reporting 1954		1949	4
1949 acres 1954	. 68	Oats, whest, barley, rye, or other small grains cut for hayfarms reporting 1954	15
1949 bushela 1954		1949 scres 1954	5 180
1949		1949	57
Barley threshed or combinedfarms reporting 1954		tons 1954 1949	117 56
1949		Other hay cutfarms reporting 1954	10
acree 1954 1949		acres 1954 tons 1954	35 35
bushels 1954 1949		Other field crops: Crimson clover seed harvestedfarms reporting 1954	
Other grain threshed or combinedfarms reporting 1954	. 4	1949	
scres 1954 bushels 1954		acrea 1954 1949	• • • •
		busbels 1954	
Annual legumes: Soybeans grown for all purposesfarms reporting 1954		1949 Lespedeza seed harvestedfarms reporting 1954	
	. 21	1949	2
1949			
	. 13	acree 1954 1949 pounds 1954	

Figure 51.—Facsimile of preliminary report Series AC54-1—Continued.

FARMS, FARM CHARACTERISTICS, AND FARM PRODUCTS

reporting 1954 1950 145number 1954 1950 613number 1954 1950 613number 1954 1969 1979 1989 1999 19	Trees of all ages		SPECIFIED CROPS HARVESTED—Continued ther field crops—Continued Lupine seed harvested
reporting 1954 1950 145number 1954 1950 613number 1954 1950 613number 1954 1969 1979 1989 1999 19	Tree fruits, nuts, and grapes—Continued Peaches farms reporting 19 19		ther field crops—Continued Lupine seed harvestedfarms reporting 1954
1950 .number 19541950number 1954number 1954number 1954pounder 1954number 1954number 1954number 1954number 1954number 1954number 1954number 1954pounder 1954pounder 1954number 1954pounder 1954number 1954pounder 1954pounder 1954number 1954number 1954pounder 1954number 1954number 1954number 1954number 1954number 1954number 1954number 1954number 1954number 1954number 1954number 1954number 1954number 1954number 1954number 1954pounder 1954number 1954number 1954pounder 1954pounder 1954pounder 1954pounder 1954pounder 1954pounder 1954pounder 1954pounder 1954pounder 1954pounder 1954pounder 1954pounder 1954pounder 1954pounder 1954pounder 1954pounder 1954pounder 1954pounder 1954number 1954pounder 1954number 1954number 1954number 1954number 1954number 1954number 1954number 1954pounder 1954pounder 1954pounder 1954number 1954pounder 1954number 1954.	Peaches farms reporting 19 Trees of all ages number 19 Trees not of bearing age number 19 Trees not of bearing age number 19 Quantity harvested bushels 19		
number 1954 115number 1954 125number 1954 126number 1954 127number 1954 128number 1954 129number 1954 139number	Trees of all ages	1	
number 1954	Trees not of bearing agenumber 19 Trees of bearing agenumber 19 Quantity harvestedbushels 19		ecres 1954
number 1954	Trees of bearing agebumber 19 Quantity harvestedbushels 19		1949 pounds 1954
1949. 2 reporting 1950. 31 roumber 1954. 70 roumber 1954. 61 roumber 1954. 69 reporting 1950. 1,738 reporting 1950. 6 roumber 1954. 69 reporting 1954. 69 reporting 1954. 69 reporting 1954. 69 reporting 1954. 69 reporting 1954. 69 reporting 1954. 69 reporting 1954. 69 reporting 1955. 69 reporting 1954. 70 roumber 1954. 70 roumber 1954. 70 roumber 1954. 70 roumber 1954. 70 reporting 1954. 70 reporting 1954. 70 reporting 1954. 70 reporting 1954. 70 roumber 1954. 70 reporting 1954. 70 roumber 1954. 10 roumber 10 roumber 10 roumber 10 roumber 10 roumber 10 roumber 10 roumber 10 roumber 10 roumber 10			1949
1950. 215number 1954. 706number 1954. 699number 1954. 100number 1954.		60	lrish potatoes harvested for home use or for salefarms reporting 1954
number 1954. 700 1950. 1,733number 1954. 693number 1954. 693number 1954. 799 reporting 1954. 79	Pearsfarms reporting 19	98 4	1949 acres 1954 ¹
number 1954	Trees of all sgesnumber 19	8	1949 ²
number 1954	Trees not of bearing agenumber 19	637 899	bushels 1954
1949 79: reporting 1954	Trees of bearing agenumber 19 Quantity harvestedbushels 19		Sweetpotetoes harvested for home use or for sale
1950number 1954number 1954number 1954number 1954number 1954pounds 1954number 1954number 1954number 1954number 1954number 1954number 1954number 19541950 1950 1950number 1954number 1954.		123 284	1949
number 1954number 1954number 1954pounds 1954pounds 1954number 1954pounds 1954number 1954numb	Cherriesferms reporting 19	29 158	ecres 1954 ¹ 1949 ²
number 1954number 1954pounds 1954pounds 1954number 1955number 1955number 1954number	Trees of sll egesnumber 19	1,908	busbels 1954
number 1954pounds 1954pounds 1954pounds 1954pounds 1954number 1954number 1954number 1954number 1954number 1954pounds 1956number 1954pounds 1956number 1954number 1954number 1954number 1954number 1954number 1954pounds 1956number 1954pounds 1956number 1954number	Trees not of bearing agenumber 19	8,529 46	1949 Cotton hervestedfarms reporting 1954
1949	Trees of bearing agenumber 19 Quantity harvestedpounds 19	69 109	1949 acres 1954
1950	19	244	1949
number 1954	Plums and prunes	78 111	beles 1954 1949
.number 1954number	Trees of all agesnumber 19	56	Tobacco harvestedfarms reporting 1954
number 1954	Trees not of bearing agenumber 19	48 137	1949 acres 1954
1949	Trees of bearing sgenumber 19 Quantity harvestedbushels 19	104 130,525	1949 pounds 1954
1950 10number 1954 23number 1954 66pounds 1954 3 1950 134pounds 1954 3 1950 134number 1954 12pounds 1954 12pounds 1954 13 1950 13 1950 13 1950 13 1950 12number 1954 1,000 1949 3,30 reporting 1954 3 1950 1,02number 1954 34 1950 1,02number 1954 34 1950 1,02number 1954 33 1949 33 1949 33 1949 35number 1954 13 1950 13 195	19	107,599	1949
number 1954. 23number 1954. 66number 1954. 66number 1954. 66pounds 1954. 3pounds 1954. 13number 1954. 13number 1954. 12number 1954. 12number 1954. 12number 1954. 12pounds 1954. 1,000 1954. 1,000 1959. 17number 1954. 33pounds 1954. 34pounds 1954. 34number 1954. 34number 1954. 34number 1954. 33pounds 1954. 12number 1954. 34number 1954. 35number 1954. 36number 1954. 36number 1954. 56number 1956. 56number 1956. 56number 1956. 56number 1956. 56number 1956. 56number 1956. 56number	Figsfarms reporting 19	71	Sugarcane or sorghum harvested for eirup
.number 1954. 1number 1954. 6 .number 1954. 6 .number 1954. 6 .number 1954. 3 .1950. 18 .number 1954. 12 .number 1954. 1,00 .number 1954. 1,00 .number 1954. 1,00 .number 1954. 3,30 reporting 1954. 3 .number 1954. 34 .number 1954. 34 .number 1954. 34 .number 1954. 34 .pounds 1954. 16 .number 1954. 34 .pounds 1954. 16 .number 1954. 35 .number 1954. 36 .number 1954. 36 .number 1954. 55 .number	Trees of all agesnumber 19	212	1949
number 1954pounda 1954pounda 1954pounda 1954number 1954number 1954pounda 1955pounda 1955pounda 1956pounda 1956pounda 1956pounda 1956pounda 1956pounda 1956pounda 1956number 1956number 1956number 1956number 1954pounda 1954poun	Trees not of bearing agenumber 19	25 83	acres 1954 1949
1949. 1,46 reporting 1954. 3 1950. 18 1950. 1950	Trees of bearing agenumber 19 Quantity harvestedpounds 19	1,538 6,206	gellons 1954 1949
1950	19		Root and grain crops hogged or grazed, other than
number 1954. 131 1950. 400number 1954. 122number 1954. 1,000 1949. 3,300 reporting 1954. 341 1950. 1,022number 1954. 341 1950. 1,022number 1954. 341 1950. 1,022number 1954. 341 1950. 1,022number 1954. 351 1949. 3,74 reporting 1954. 351number 1954. 551number 1956. 551number 1956. 551number 1956. 551number 1956. 551nu	Grapesfarms reporting 19	33 14	corn, sorghums, and annual legumesfarms reporting 1954 1949
number 1954number 1954number 1954pounds 1954 1,00 reporting 1954 1,950 1,1950number 1954 1,950number 1954 1,950 1,022number 1954 1,950 1,023number 1954 1,950 1	Vines of all agesnumber 19	671	ecres 1954
pounds 1954 1,000 1949 3,300 reporting 1954 34 1950 17 1950 1,022number 1954 34 1950 1,022number 1954 33pounds 1954 83pounds 1954 33pounds 1954 33pounds 1954 1950 3number 1954 55 1950 18number 1954 55number 1954 55pounds 1954 55pounds 1954 55pounds 1954 55number 1954 55pounds 1954 5	Vines not of bearing agenumber 19	128	1949
1949 3,30 reporting 1954 3 1950 17number 1954 34 1950 1,02number 1954 33pounds 1954 33 1949 3,74 reporting 1954 5number 1954 5number 1954 5number 1954 5number 1954 5number 1954 5number 1954 5pounds 1956 5pounds 1956 5pounds 1956 5pounds 195	Vines of bearing sgenumber 19 Quantity harvestedpounds 19	554	egetables harvested for home use (other than Irish and sweet potetoes)farms reporting 1954
1950 17number 1954 344number 1954 16number 1954 33pounds 1954 83pounds 1954 3pounds 1954 35number 1954 35number 1954 5number		482	1949
1950 17number 1954 14number 1954 14number 1954 33pounds 1954 83pounds 1954 51pounds 1954 51pounds 1954 51pounds 1954 55number 1954 55number 1954 55number 1954 55number 1954 55pounds 1955 55pounds 1955 5	Improved pecans (budded, grafted, or top-worked)	44	egetables harvested for salefarms reporting 1954
1950. 1,026 1,02	19	45 105	1949
number 1954		67	ecres 1954 1949
pounds 1954 833 1949 3,74 reporting 1954 1950 32number 1954 155number 1954 156number 1954 56pounds 1954 56pounds 1954 56pounds 1954 56pounds 1954 56pounds 1954 56arms reporting 326 arms reporting 327 arms	Trees not of bearing agenumber 19 Trees of bearing agenumber 19	4,806 4,534	Solddollars 1954 1949
reporting 1954	Quantity harvestedpounds 19	1	Snap beans (pole and bush types)farms reporting 1954
1950number 19541950number 1954number 1954pounds 1954pounds 19541949 26' ble seeds dollars arms reporting arms reporting square feetarms reporting	Wild or seedling pecansfarms reporting 19	(3)	Green lima beansfarms reporting 1954
1950 186number 1954pounds 1954 55 1949 26 ble seedsdollars tale, arms reporting arms reporting square feet arms reporting		1 2	acres 1954farms reporting 1954
number 1954pounds 1954pounds 1954follows 1949 26' ble seeds etable seedsdollars tals, arms reporting acresoollars square feet arms reporting square feet arms reporting		(3)	acres 1954
compounds 1954 56 ble seeds compounds 1949 266 ble seeds compounds 1949 266 ble seeds compounds 1949 266 compounds 1949.	Trees not of bearing agenumber 19 Trees of bearing agenumber 19	1 1	Canteloups and muskmelonsferms reporting 1954 ecres 1954
ble seeds etsble seedsdollars tale, arms reporting acresoollars square feet arms reporting square feet arms reporting	Quantity harvestedpounds 19	2	Sweet corn
etable seedsdollars tals, arms reporting acresoollars arms reporting square feet arms reporting cores	19	(3,	acres 1954 Cucumbers and pickles
dollars tals, arms reportingcollars arms reporting square feet arms reporting cores	Nursery and greenhouse products, flower and vegetable seeds	41 10	0krafarms reporting 1954
tale, arms reporting. acresoollars. arms reporting square feet arms reporting cores	and plants, 1954: Nursery and greenhouse products, flower and vegetable seeds	2	ecres 1954
arms reporting	and plants, flowers, bulbs, and mushroomsdolls Nursery products (trees, shrubs, vines, ornamentals,	5 1	Blackeyes and other green cowpeasfarms reporting 1954 acres 1954
arms reporting square feet arms reporting carms reporting	etc.)farms reporti		Sweet peppers and pimientos
square feet arms reporting arms reporting acres	Soldoolla		Squashfarms reporting 1954
square feet arms reporting acres	Flowers and flowering plants grown for sale: Grown under glass	(³) 5	acres 1954 Tometoesfarms reporting 1954
acres	square fe	4	ecres 1954
	Grown in open	25 53	Watermelons
	Soldfarms reports	2	Other vegetablesacres 1954
dollsrs ble seeds	Vegetables grown under glass, flower and vegetable seeds		Berries and other small fruits harvested for sele:
sale:	and plants, bulbs, and mushrooms produced for sale: Grown under glass or in housefsrms reports		Strewberrles
square feet	square fe		acres 1954
arms reporting scres	Grown in openfarms report:		1949 qua <u>r</u> ta 1954
arms reporting	Soldfarms reports		1949
dollers			Tree fruits, nuts, and grapes: Land in bearing and nonbearing fruit orchards, groves,
arms reporting 12	Forest products, 1954: Firewood (and fuelwood) cut	34 346	vineyards, and planted nut treesfarms reporting 1954 1950
le (4'x 4'x 8') 69	cords (4'x 4'x 8	59	acres 19544.
arms reporting 4 number 11,09	Fence posts cut		1950°. Apples
arms reporting 2	Sawlogs and veneer logs cut	39	1950
ands of bd. ft 1,33 arms reporting 6	thousands of bd. Fulpwood cut		Trees of all sgesnumber 1954
cords 4,33	cor	2	Trees not of bearing agenumber 1954
Tarms reporting 7 dollars 53,43	Value of firewood, fence posts, logs, lumber, pulpwood, and piling and poles soldfarms report:		Trees of bearing ageumber 1954 Quantity harvestedbushels 1954 1949

For 1954, does not include acreage for forms with less than 20 bushels harvested.
For 1949, does not include screage for forms with less than 15 bushels harvested.
Reported in small fractions.
For 1954, i.es not include acreage for farms reporting less than 20 fruit and nut trees and grapevines.
For 1950, does not include acreage for farms reporting less than 1/2 acre.

U. S. DEPARTMENT OF COMMERCE Bureau of the Census

March 1956 IDAHO (No. 82) Series AC54-2

VALUE OF FARM PRODUCTS SOLD BY SOURCE

The value of farm products sold in Idaho amounted to \$332,125,790 in 1954, an increase of 18.2 percent from the sales of \$281,025,323 in 1949, according to the results of the 1954 Census of Agriculture released by the Bureau of the Census, U. S. Department of Commerce. The value of farm products sold in 1954 in Idaho, according to source of sales, was as follows: Field crops other than vegetables, fruits, and nuts, \$185,145,886; livestock and livestock products, other than dairy and poultry products, \$90,654,325; dairy products, \$37,731,469; fruits and nuts, \$6,507,486; poultry and poultry products, \$5,503,846; forest products, \$1,551,888; and horticultural specialties (nursery and greenhouse products), 1,433,936.

A comparison of the value of farm products sold, by source, for 1954 and 1949 follows:

Source	1954	1949
All crops sold, total	\$196,684,262	\$153,836,501
and fruits and nuts)	185,145,886	146,027,104
Vegetables	3,596,954	3,345,976
Frui's and nuts	6,507,486	3,201,619
Horticultural specialties	1,433,936	1,261,802
All livestock and livestock products		
sold, total	133,889,640	126,321,394
Dairy products	37,731,469	27,817,955
Poultry and poultry products Livestock and livestock products	5,503,846	6,134,311
(other than dairy and poultry products)	90,654,325	92,369,128
Forest products, total	1,551,888	867,428

Data for 1954 for individual counties in the State are given on page 2. $\,$

DEFINITIONS AND EXPLANATIONS

Total value of farm products sold.—The data given represent the value of farm products sold based on information obtained from farm operators in the 1954 Census of Agriculture. The total value of all farm products sold represents the total of sales from each farm regardless of who shared in the receipts. The landlord's share of the crops and livestock sold and, also, the livestock which the landlord took from the tenant's farm were considered as sales from the tenant's farm. The value of all crops sold represents the value of crops sold from the harvest of 1954 regardless of when sold. The sales of livestock and livestock products represent the sales during 1954 regardless of when the livestock were raised or produced.

In obtaining the value of farm products sold from farm operators, census enumerators were instructed to obtain the gross value of all sales without deductions of any kind. However, in the case of milk, poultry, eggs, etc., deductions were often made by the buyers of farm products for hauling, handling, marketing, etc., before making payments to farmers. In such cases, farmers often considered the amount received after the deductions of marketing cost as the gross value of farm products sold.

The data given for the value of all farm products sold represent totals for all farms regardless of the amount sold. In the case of part-time farms, residential farms, etc., the value of all farm products sold may have been very small. Therefore, the average value of farm products sold per farm, computed on the basis of the data given in the accompanying table, may not indicate accurately the value of all farm products sold by commercial farms. Data on the number of commercial farms and for all farms classified by economic class

are given in the preliminary report, Series AC54-1, issued for each county.

The value of farm products sold does not include income of farm operators from nonfarm sources, government payments for soil conservation, lime and fertilizer furnished, nor subsidy payments, etc.

The value of livestock and livestock products sold, the value of farm products sold, the value of vegetables sold, and the value of horticultural specialties sold were obtained from each farm operator at the time of enumeration during the period October to December 1954. The values of field crops and fruits and nuts sold were calculated by multiplying the quantity sold by State average prices obtained by the Agricultural Marketing Service of the U.S. Department of Agriculture in cooperation with the Bureau of the Census. The value of field crops includes all crops sold except vegetables, fruits and nuts, forest products, and horticultural-specialty crops (nursery and greenhouse crops). The value of vegetables sold does not include the value of Irish potatoes or sweetpotatoes The value of fruits and nuts sold includes the value of berries and small fruits sold. The quantity sold for the principal crops was obtained from each farm operator, while the quantity sold for less important crops and for fruits and nuts was estimated.

The statistics given in this release will be included in Volume I of the reports of the 1954 Census of Agriculture. Detailed data for a large number of items for the 1954 Census of Agriculture bave already been published for each county and the State in Series AC54-1.

2-DAHO

METHODS AND PROCEDURES

VALUE OF FARM PRODUCTS SOLD BY SOURCE: 1954

Value of all farm products sold (dollars) State A11 All crops sold All livestock and livestock products sold farma number county Total Forest Livestock Fruits Poul try Horti-Field crops¹ products Total Vegetables Deiry and livestock products² cultural Total and poultry products products nuts specialties The State ... 38,735 332,125,790 196,684,262 185,145,836 6,507,486 3,596,954 1,433,936 133,889,640 37,731,469 5,503,846 90,654,325 1.551.980 Ade..... 2,007 11,619,157 2.802.230 2.017.078 210,390 388,841 8.811.927 4.981 566 473,902 3,356,459 5,000 Adams 2,121,150 283 192,303 205 356,717 40 1,518,874 114,288 20.341 1,384,245 53,011 Bannoci 873 6.644.395 4.068.913 4.050.989 741 12.933 4,250 2.575.182 611.483 179,526 1,784,173 300 Bear Lake 759 3,163,872 1,088,676 1,087,701 35 940 2,075,196 618,195 43.566 1.413 435 Benevah...... 440 2,584,708 1,898,917 1,898,161 216 540 478,972 137,620 279,553 61,799 206,819 Bingham..... 2,160 21,744,327 15,456,133 15,402,181 7.274 24,027 22,651 6,288,194 1.915.448 224.680 4,148,066 Blaine 321 3,846,727 1,063,904 1.058.290 . . . 214 5,400 2,782,148 235,741 16,170 2,530,237 675 80ise...... 142 600,840 97,996 96.376 1,620 486,816 22.934 13,022 450,860 16,028 Bonner..... 1,150 1,871,364 352,259 322.744 231 19.244 10.040 1,396,204 711,654 80,273 604,277 122,901 Sonneville.... 1,483 16,180,566 11,332,636 11,285,110 5,401 7,183 34,942 4.844.963 1,151,963 219,108 3,473,892 2.967 Soundary 596 2,405,720 1.543.461 1.537.636 161 3,607 2,057 748,007 289,979 405,992 52,036 114,252 8utte..... 271 2.568.188 1,358,719 1,358,385 334 1,209,469 76,435 46,644 1,086,390 Camas..... 131 1.813,527 1.373.476 1.373.430 40 439,785 . . . 29,219 7.557 403,009 266 Canyon..... 4.183 32,072,372 17,800,659 14,062,957 1,358,207 1.837.363 542.132 14,266,218 6,733,944 600,223 6,952,051 5,495 Caribou..... 578 6,353,221 3,825,607 3,825,432 175 2,527,614 . . . 498,091 61.750 1,967,770 13,892,923 1,225 7,706,287 7,691,203 104 1 520 13,460 6,186,436 1,236,527 154,738 4.795.171 200 67 1,019,605 191.015 190,982 33 828,590 . . . 28.486 2,389 797,715 . . . Clearweter.... 389 1,308,210 897,635 892,044 3.122 2 469 249,259 41.274 28,700 179,285 161,316 Custer...... 290 2.099.951 494,423 494,198 175 . . . 1,604,828 66.852 14,416 1,523,560 700 Elmore..... 407 3,629,143 1,174,509 1,158,771 13,234 2,504 2,444,234 118,047 77.321 2,248,866 10,400 Franklin.... 1.098 5,988,799 2,742,441 2,653,495 77.171 4.975 6.800 3,246,358 1,520,515 615.784 1,110,059 Fremont..... 892 10.100 429 7.021.041 7,016,302 716 4,023 3,077,888 480,466 90,315 2,507,107 1.500 Gem..... 916 6,278,951 2,664,365 550.843 174,689 1,938,483 350 3,593,308 1,543,290 109,381 1,940,637 21,278 Gooding..... 1,038 8,682,887 3,678,685 3,628,850 33,328 3,652 12,855 5,004,190 1,435,859 170,745 3,397,586 12 Idaho..... 1,090 9,633,946 6,293,851 6,278,054 1,410 14,387 3,028.795 . . . 353,419 115,139 2,580,231 316,300 Jefferson..... 1,247 9,992,414 6,681,582 6,656,194 8.875 11,505 5,008 3,310,832 987,650 126.785 2,196,397 1,122 15,781,779 9,301,911 9,270,652 11.850 3,854 15.555 6,479,868 1,144,183 82,755 5,252,930 . . . Kootenai..... 1,324 4,236,432 2,315,007 2,181,436 24,081 36,075 73,415 1,756,181 812,327 386.638 557.216 165,244 Latah..... 1,309 11.042.694 9,456,914 9,422,437 3,750 17.152 13.575 1,437,411 466,899 118,533 851.979 148,369 Lemhi 491 3,046,683 345,383 335,332 806 7,745 1,500 2,701,300 208,082 68.434 2,424,784 Levia..... 391 6,713,143 6,261,744 6,151,219 110.085 440 380,248 24,414 30,307 325,527 71.151 Lincoln..... 413 3,983,054 2.019.387 2.019.147 150 75 1.963.662 636,673 59,367 1,267,627 . . . Madison.... 8,608,769 902 5,339,439 5,318,976 816 10.582 9,065 3,269,330 786,000 226,909 2,256,421 Minidoke 1.067 12,262,465 8,627,217 8,602,410 13,420 907 10,480 3,635,248 881,161 2,659,744 ... Nez Perce..... 938 7,741,611 9,906,768 8,414,028 561,412 55,905 55,100 1,403,582 248,280 133,410 1,021,892 89,158 Oneida..... 485 4,253,997 2,940,163 2,934,790 5,373 1,313,834 191,108 61,890 1.060.836 Owyhee 8,063,225 3,736,929 3.558 972 51,032 109,095 17,830 4,326,296 714.391 33,557 3,578,348 . . . Payette 1.113 7,425,788 3,457,796 1,502,109 397,413 1.515.324 42,950 3,967,644 1,520,517 112,009 2,335,118 348 Power 397 5,910,876 4.933.473 4.933,005 50 418 977,403 . . . 198,644 27.978 750,781 Shoshone..... 168 207,545 18,999 4,204 1,463 337 12,995 173,686 38,845 57,056 77,785 14,860 Teton..... 447 2,894,030 1.611.664 1,605,683 3,458 2,523 1,279,766 413,417 849,630 2,600 Twin Falls..... 2,406 32,371,545 20,828,136 20.254.205 249 272 212,039 112,120 11,543,362 2,700,727 288,371 8,554,264 47 Valley..... 206 1,373,013 574 . 561 573,152 1,000 409 786,886 . . . 56,555 19,279 711.052 11,566 Weehing ton.... 776 5,821,592 2,342,826 1,956,837 253,564 111.975 20,450 3,469,641 652,288 79,981 2,737,372 9,125

 $^{1}\mathrm{Other}$ than vegetables and fruits and nuts.

Other than deiry and poultry products.

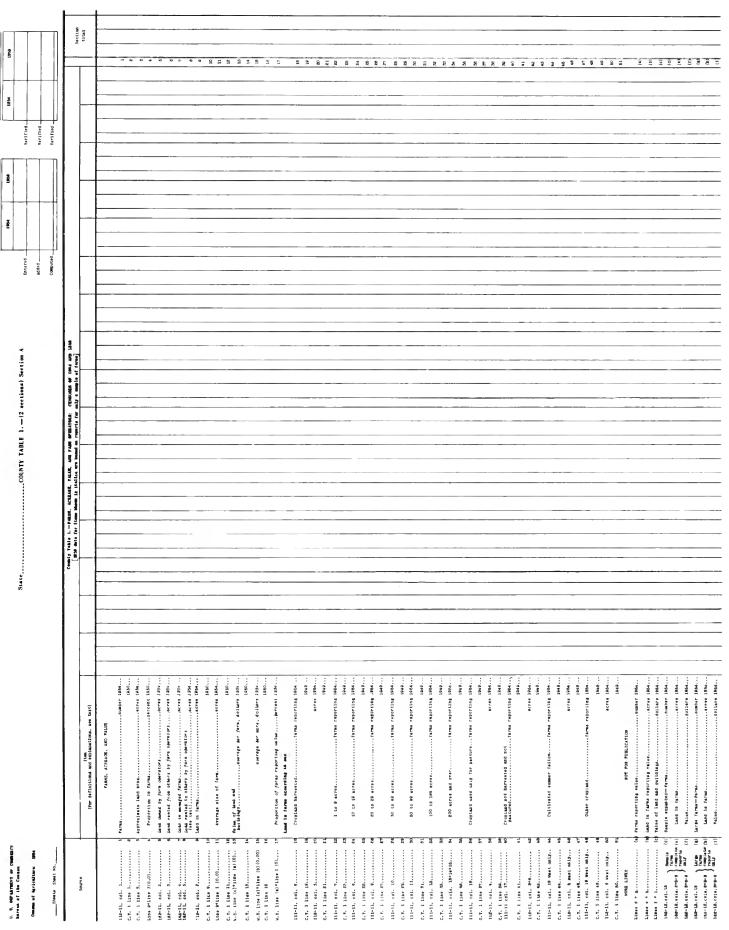


FIGURE 53.—Facsimile of work sheet or posting form County Table 1—Continued.

1 (1)

STATISTICS FOR COUNTIES

County Table 1.—FARMS, ACREAGE, VALUE, AND FARM OPERATORS: CENSUSES OF 1954 AND 1950—Continued [Data for items shown in Italies are based on reports for only a sample of farms. See text]

	[Data for items sh	own in italics are based on reports for only a sample of farms. See text]
	Item (For definitions and explanations, see text)	
	FARMS, ACREAGE, AND VALUE	
1 2	Farmsnumber 1954	
3	Approximate land areaacres 1954	
5	Proportion in farmspercent 1954	
6	Land owned by farm operatorsacres 1954 Land rented from others by farm operatorsacres 1954	
7 8	Land managed by farm operators	
	Land rented to others by farm operators (see text)acres 1954	
9	Land in farmsacres 1954	
10	1950	
11 12	Average size of farmacres 1954	
13	Value of land and buildings: Average per farmdollars 1954	
14	1950,	
15 16	Average per arredollars 1954	
17	Proportion of forms reporting valuepercent 1954	
	Land in faras according to use:	
18 19	Cropland harvestedfarms reporting 1954	
20 21	acres 1954 1949	1
- 1		
22	1 to 9 acres	
24 25	10 to 19 acres	
26	20 to 29 acresfarms reporting 1954	
27 28	1949 30 to 49 acresfarms reporting 1954	
29 30	1949 50 to 99 acres	
31	1949	.[
32 33	100 to 199 acresfarms reporting 1954	
34 35	200 acres and over	
- 1		
36 37	Cropland used only for pasturefarms reporting 1954 1949	
38 39	acres 1954 1949	
40	Cropland not hervested and not	
41	pusturedfarms reporting 1954 1949	
42 43	acres 1954 1949	
44 45	Woodland pastured	
46 47	acres 1954 1949	
48	Woodland not pasturedfarms reporting 1954	
49 50	1949 BCTES 1954	
51 52	1949 Other pasture (not cropland and	
	not woodland)farms reporting 1954	
53 54	1949 acres 1954	
55 56	1949 Improved (see text)farms reporting 1954	
57	acres 1954	
58	Other land (house lots, roads,	
59	wasteland, etc.)	
60	acres 1954 1949	
61		
62 63	Cropland, total	
64 65	acres 1954 1949	
66	Land pastured, total	.]
67 68	1949 acres 1954	
69 70	Woodland, totalfarms reporting 1954	
71	1949 Bores 1954	
72 73	1974 1949	
74	Irrigated land in farmsfarms reporting 1954	
75	1949 acres 1954	• 1
76 77	1949	
78	Cover crops turned under and land	
79	planted to another cropfarms reporting 1954	
80	Cropland used for row or grain crops farmed on contour	
81	acres 1954	•
	FARM OPERATORS	
82 83	Readding on farm operatedoperators reporting 1954 1950	:
	Not residing on farm operatedoperators reporting 1954	
84 85	Not residing on larm operatedoperators reporting 1950	
	4	

Figure 54.—Facsimile of preprinted form for offset typing of County Table 1.

	DEPARTMENT OF BUREAU OF 1	HE CENSU	s				64811	_			TABULATI		111-11 - 111-12 -	111-14				A CARD		PART I	TICN	-		GPIĆULIUPE [*]	
STATE		JE, JRE					FARM O	PERATOR,	AND AC	LES OF C	ROPLAND	KARVESTE	AND IRRIGA	ATED LANG				TAI MACE	1		ATE NAM				
	ACRES IBBIG41ED, CBOPLAND HABYESFED	10 E D 12 (12) 13 512E 14 IPE		OPINATION P	ISTAL SANS BAST			PIAND	30 FF			00 1,800 640 99 E40	lpt.	BOPLAND	ge onus	WOODS	-	OTHER STURES IMPE	LAND	CPOP LAND LAND ANY	LANE PASTRELD SET	WOCD LAND ANP	IFF CATED BEKE ART	CONSERVAT	
	ACC #1	G I	ACC #3	ACC. 83	301 301	j		10	11	331	12	16 15	34 39	09 (d) 38 (f)1	10 0 1N 42:	90 IN	10 9 1N 30:	10 0 1 00 341 1N 32 3	9 :9 0 30 :94 0 3 74	10 7 IN 30 M. 30 43 25	10 ft (H) 34 43 84 28	6 8 IN 46 50 27	0.0 IN M 67 36		77 P
n							+-						-						-						
п	4CC 21	0 (400 20	1(C =1	3 4			40	14	п	13	4 19	ч	u u	10	70	31	77 3	34	п	1	41	20 1	78	» I
	DEPARTMENT OF T	ME CENSU	5					C	OUN	ITY 1	ABULATI	ON NO.	111-11 · 111-12 ·	111-13				A CARD		PART II				GULVITUAT.	
STATE	NSUS OF AGRIC	SRUTJUS	1954				RATOR, AN	IO ACRES	OF CROI	LAND H	ARVESTED	AND IRRIG	ARACTERISTIC SATED LAND:	S OF FAR	M OP-			SEE WACH		NT INBUIAT	off Marie	1			
	AGE OF OPERATOR	11 E O 12 Series 13 512E 14 196	CH ERRY	1445 641-41 31	HORES WHITE	B A BEET	ENES FAMIL	T GARDEN	UHD84	IGATED LAN POPLAND H	40 (4CRES) 44 VESTED	AMI		P OPERA	7 to B - Y (1 4 II S 33 44	45 OB DVEB B	SUMM MAC	7 6 9 9	-	0 P E F	4	1941		HITE CHECE
	16 30 , CC .24		10 10 10 10 0 18 15 64 31 22 3	IN (0.9 IN 10 07: 7:	1015 (1 PN 5 79) 12) 28 34	2 3 IH (0 I	-	10 Ser 341	3 _a)	ICDLUMICS	64 66	10 9 Int 18;	- -	rCDI W	WNS 18 70:	30		9 (N 22) 32 3	3 34	35	COLUMNS 72 :	331	,,, -	-0"	PH Q
,	TOTAL																			-					
,			+		-					-			7												
23	AEE 10	01	11 . 72 . 3	, ,,	25 26	F	p 20	е е	81		43 4	4 4	64	A7 46	69		31		3 51	,,	34	87	50 	50	
	EPARTMENT OF				-			СО	UNI	ТҮ та	BULATION	NO.	112 - 11 •	112 - 1	3	۰		A	CARD				80	ercui fued	
	BUREAU OF TH						_ n	U S E	OF F	ARM L	AND;	1	112 - 12 -	112 - 1 size	4			PTRVM ()	##CE!#	TABULATIO	NAME				
SORT INDICATE	ud browners	LAHO IN			OF LAND				0001		-	STURED	THER LAND	OTHE		C D H S E	P V A 11 0	SUMM MACH		+	-chiceto	1.			
2 31478 Chgo17 1 3 31 1444 2 B C	OF FARMS	782 79: 3	(30-33)	USED +00 PASTURE (SH 37)	CUSTVATE SUMME FAILOW 136-431		47 431 41 431	FASTURE (44-47)	-	PASTURBO (90-93)		# 30) #	OTHER PASTURE (38-40)	PASTUR PASTUR IRI-43		70 721 13	73 173	2	. 14		15	_	16		17
TOT	AL	7										-													
					0																	4			
								CO	IIN.	T Y TA	ALE ATIO	NO.	162 - 11					L	CARD					an controll	
)	BUREAU OF TO	IE CENSUS					AND ACR	Y OF FAIR	M EQUI	PERATOR	OTAL ACI	ES OWNE	D, ACRES M. UMERATION	ANAOED WIHTIW				MINUN D	MACHI BACO OL G	OFFE DAT	ON E NAME				
COUNTY SORT INDICAT	TION TOTAL	ACRES	AC M2 SENTED	ACRES	ACRES	Q&A EN	COPH	PICK UP	Lilerest Lilerest		H0101		ACTOP4	AUTO-	octo		PIRMETATI	SUMM MAC	+	-	Selder	· ·	T		
(3) (3-3) (4-4) (4) (5 C	D NUMBER OF FREMS	(39-45)	ACRES RENTED FROM OTHERS (NO 3 IN COL. 14) (SD 34)	ACRES MANAGED G PH COL 14) (35-34)	ERNTED TO OTHERS	SINES	PIOPES 2	BALEES 1301	(30)	TANES FIC. (SI 38)	(32) (1)	WHEEL (III)	(34) (33) 18 14	1301	(D IN C	77) 18	(76-79) 17	(V IN COL. (78.79)		+	n	31		11	19
101					 										+-								1		
														+-											
								CO	IIN'	o 1 Y 14	NIR ATIO	N NO.	162 - 12					L	CARD					Odićuj Tuvi	
CE	BUREAU OF TO	HE CENSUS	3				PARAS, ING VAL	ACREAGE	AND VA	THE OF I	AND AND	BUILDING	S POR PARM SPECIFIED 14	S REPORT- ARMS				MEUH O		NI TREULATI	I NAM				
COUNTY SOUT INDICATE	ON	COHPL	ETE 4E+08TS (V	ALUE AND ACRES II	EPORTED FOR ALL O	OWNERSHIP O	ATEGORIES P	O4 WHICH E	THER IS RE	PORTEDI			REPORTING CASI	H BEHT FAID B	A OTHERS			SUMM MAC	1646 24		- SHECOL				
9 14474 CD0811 0 1440 11 (23) 1441 4 8 C	9) (CC)	DWH(0 ACRO (99-40)	VALUE (44-47)	(C.C.)	ACMS (30-54)	40 (D (A) 74:	401	9 e. IC C1	ACRES 161-45		VALUE (66-21)	F 8. C. C.1 TG		VA (55	108 401	(73-76) 13	II REPO	E1FD E1FO	1	16	17		78		19
TOTA												\pm		-	_										
														-											
	`						Figur	- te 55.	÷Fa	acsin	ile of	coun	ty tabi	ulation	she	ets.									

APPENDIX

	DEPARTMENT OF T	FCOMM	ERCE	CBC4	NAME						C	100	4TY	TABUL	ATION	NO.	931-13						C-3 c	ARD	**	ART I				AGRICULT		
CE	NSUS OF AGRIC		_	Скор						UMBER (ND ACRE					soup.				ac	_ [TABULATIO						
STATE									•) #1 BY	ED WITH	H CROP	NET WITH		30.101							998VH			DA1		4				
COUNTY		1				_								e1c. (*)										MACH		ON, ETC	SHECK	10		_		
	TREES, ETC.	-11 1 IL 01	ACRES, TRE PRODUCTIO	H, AMOUN	rt soub,	TOTAL NUMBTR OF	THA	UNDER							(1)		1,000	ANY						1,000			1		10,000 ANG OVER	FAEAS REPORTING AMOUNT SOLP	MASTERS	\$t#O
	(FIELD 1)	12	(PIEUD 2)			FARMS	REPORT	3	3-7	10-34	25-49	30.99	100-199	300-399	300-499	900-999	1,000 AMD OVER	REPORT	UNDER 25	25-49	30-99	100-477	300-199	1,499	1,346	1,000-	1,000-	9,000-	OVE			
	(18.30)	37-38.6-7 OF 36-38 IA	(7) 251	124			COL HE						AS 18-30)					0-9 IN COL 31						HUMMS 21					,	COL 31	CO1 17	
	TOTAL	0 1.	ACC. #1	ACC	. #1	8	•	,	•	,	10	11	12	13	14	18	14	17	18	18	36	31	lu	33	34	11	24	U	28	79	36	0
	TOTAL	-		-		-	-			-	-		⊹ −	-		-		_							-				-	-		_
	-	-				-	_					-	-	-		-	-	-							-	-	-					
		-		-											-	-									-	-						
	466 #1	91.	ACE ET	400	##						10	11	13	12	14	10	16	12	16	>0	79	21	72	23	20	23	26	27	24	77	ж	
23	100						3				10		13	- 17		"	2	"						779		10			100	1		
						-					C. Ja		_		-	-	-		- 2	``	105		-		_	ADY 11				AGRICUIT	uri	
	DEPARTMENT OF			CHOP	NAME _					C	OUI	NTY	TABL	JLATIO	NO.	931- 931-	11						C-3	ARD		ART II		Pi				
C	NSUS OF AGRI							NU	MBER D	F FARMS	REPORT	INO AN	D ACRE	s, PRODL	CTION.			OLD;					BERUN		MACHIN	E TABULATI	TE HAM	cī ,				
STATE											11 87 8	E D WITH	N CROP										786	MA CH			SHECK					
COUNTY			_		ALMS BI	PORTING *	IODUCTIO:	N AMOUN	rt som F			- FIGATED	, naves Of	HLY WITHIR		ATION		CI	0) (0	DE CH	e <u>c</u> e		SUMM	насн	e e	CHE		UNIS				-
	AMOUNT SOLD	-11- E.B. 04	ANY U	60 E 25-49	30.79	100 49	300-999	1,000-	1.500-	3,000	5,000- 4,999	\$ 000- 7.999	10 000 AND OVER	HONZ	WHOLLT		HOCK	1 99	100- 196	300-	300-	1, 11 erc	2, 12 ETC.	5, 13 ETC	4, 14 ETC	5, 15 ETC	6 1a ETC	7, 17 ETC	E iR ETC.	9 19 81C	10, 20 ETC.	CHECK
	(MELD 4)	-12- 1931641100	#EPO41	25 25-47				1,499	1,999	2,999	4,199	7.999	OVER												-	15 IN	IS IN	(7 IN	19 IN	_		-
	(31-35)	37-38, 6-7 02 36-36, 14				T es		DEUMNS 24		-		1 44	42	COL 14)	(3 H) COL 14)	(2 IN COL 11)	(3 IH COL 741	ÇOI 261	(F IH. COL 361	COL 361	COL 36	() IN COL 7)	(2 IN COL 7)	(3 IN COL 7)	501.71	COL 71	COL 71	COL 71	COL 7)	(7 IN COL 7)	60 71	0
	TOTAL	0 L	31	23	, RE	33	34	37	38	79	40	41	42	4		-			-						-				-			
	IOIAL	-	-						-	_	-		+	+		1		-														
1		-	+	-			_			+		+	-				F					_				-				8.		0
		├—	-									-		-																		1
21				:			-		-																							-
37			31		-		24	37	-	1															4		-					
23	ACC ZA	01	1 31	n n	н	33	34	37	24	- 7	40	41		49	04			· ·	- 41		20	1 11	32	13	34			3.7	54	- 11	60	-
											-	- :						-		-	- 3.				F				100			
k.		٥			Ų.	k,			W			i									- 4			8								
h (DEPARTMENT OF THE	Сомм	ERCE		Ų.	l.					cc	UN	TY 1	ABULA	TION H	NO. 1	02 - 1	1			÷			G c	ARD					AGNICUIT	ior	
		COMM	ERCE SUS			l.			FA	IRMS REI	PORTING	AND I	PRODUC	TION AN	ID VALU				ЭΟΒ,		Ž.		paper		MACHINI	TABULATIO	DN			AGVICUIT	or	
CE 37ATE	BUREAU OF TH	COMM	ERCE SUS		02	S _n			FE	NCE PO	PORTING	AND I	PRODUCT		D VALU	E OF SA	LLES OF	FIRE W	οοв,		A.		RAFUN TAB A	D •	MACHINI	E TABULATIO	HAM			AGPICUITI	01	
CE STATE COUNTY	BUREAU OF THE	COMM HE CEN	ERCE 505 1954	nor I .	Fact Post	a cor	T - 24M	2001	FE FA	NCE PO RMS RE	PORTING STS, SA PORTING	AND I	PRODUCT AND PI E TREES	TION AN ULPWOO AND M	ID VALU D. LAPLE TI	IE OF SA	LLES OF	FIRE W		4/8	UP MADE		TAB A	D *	MACHINI	TABULATIO	DN NAM			AGPIÇUIT	OR .	
CE 37ATE	BUREAU OF THE NSUS OF AGRIC	COMM HE CEN	1954		FINCE POST	75 CUT		V LOGS CU	FE FA	RMS RE	PORTING	AND I	AND PI	TION AN	O.	E OF SA	LLES OF DUCTS;	FIRE W	0		TO AM TU	ns U	TAB A	D *	MACHINI	STADULATE STADULATE	HAM			AGP(CU)TI		
COUNTY SORT INDIC	BUREAU OF THE NSUS OF AGRICATION TOTAL NUMBER OF AGRICATION TOTAL NUMBER OF FACTOR OF	COMM HE CEN OULTURE	FIRE WOOD O	MBES FARM SEPOS SHO	f No	UMBEF 20 351	SAW PARMS BFOOT ING V VIA II.	V LOGS CU BOAGO (000)	FE FA	PULPWI	PORTING STS, SA' PORTING	AND I	AND PI E TREES	OF SALES DOLLARS (23.34)	ID VALU	REE PRO	TRI TARMS TEPOOR TIMO	BY E.D.	D	PARMS IEPORT INO	9A110) 10	SUGAR A	MACH MACH MACH MACH MACH MACH MACH MACH	MACHINI SCHIPE BO	E TABULATIC	CHECK	(0				
CE 37ATE COUNTY SOB1 INDIC	SATION YOT. THE PROPERTY OF T	COMM HE CEN OULTURE	FIRE WOOD O	ABER ESEM	f No	UMMEP		000)	FE FA	PULPWO	PORTING STS, SA: PORTING	AND I	PRODUCT AND PI	OF SALES	ID VALU	REE PRO	DUCTS;	BY E.D.	D	PARAS IEPORT ING	GALLO) 10	SUGAR A	MACH MACH MACH MACH MACH MACH MACH MACH	MACHINI	SEAO COM	HAM			AGP/CUSTS		13
CE 37ATE COUNTY SOB1 INDIC 00 \$17A72 C0001 11 21 15 39 A B C	BUREAU OF THE NSUS OF AGRICATION TOTAL NUMBER OF AGRICATION TOTAL NUMBER OF FACTOR OF	COMM HE CEN OULTURE	FIRE WOOD O	MBES FARM SEPOS SHO	f No	UMBEF 20 351		000)	FE FA	PULPWI	PORTING STS, SA: PORTING	AND I	AND PI E TREES	OF SALES DOLLARS (23.34)	ID VALU	REE PRO	TRI TARMS TEPOOR TIMO	BY E.D.	D	PARMS IEPORT INO	9A110) 10	SUGAR A	MACH MACH MACH MACH MACH MACH MACH MACH	MACHINI SCHIPE BO	E TABULATIC	CHECK	(0				13
CE 37ATE COUNTY SOB1 INDIC 00 \$17A72 C0001 11 21 15 39 A B C	SATION YOT. THE PROPERTY OF T	COMM HE CEN OULTURE	FIRE WOOD O	MBES FARM SEPOS SHO	f No	UMBEF 20 351		000)	FE FA	PULPWI	PORTING STS, SA: PORTING	AND I	AND PI E TREES	OF SALES DOLLARS (23.34)	ID VALU	REE PRO	TRI TARMS TEPOOR TIMO	BY E.D.	D	PARMS IEPORT INO	9A110) 10	SUGAR A	MACH MACH MACH MACH MACH MACH MACH MACH	MACHINI SCHIPE BO	E TABULATIC	CHECK	(0				13
CE 37ATE COUNTY SOB1 INDIC	SATION YOT. THE PROPERTY OF T	COMM HE CEN OULTURE	FIRE WOOD O	MBES FARM SEPOS SHO	f No	UMBEF 20 351		000)	FE FA	PULPWI	PORTING STS, SA: PORTING	AND I	AND PI E TREES	OF SALES DOLLARS (23.34)	ID VALU	REE PRO	TRI TARMS TEPOOR TIMO	BY E.D.	D	PARMS IEPORT INO	9A110) 10	SUGAR A	MACH MACH MACH MACH MACH MACH MACH MACH	MACHINI SCHIPE BO	E TABULATIC	CHECK	(0				13
CE 37ATE COUNTY SOB1 INDIC 00 \$17A72 C0001 11 21 15 39 A B C	SATION YOT. THE PROPERTY OF T	COMM HE CEN OULTURE	FIRE WOOD O	MBES FARM SEPOS SHO	f No	UMBEF 20 351		000)	FE FA	PULPWI	PORTING STS, SA: PORTING	AND I	AND PI E TREES	OF SALES DOLLARS (23.34)	ID VALU	REE PRO	TRI TARMS TEPOOR TIMO	BY E.D.	D	PARMS IEPORT INO	9A110) 10	SUGAR A	MACH MACH MACH MACH MACH MACH MACH MACH	MACHINI SCHIPE BO	E TABULATIC	CHECK	(0				13
CE 37ATE COUNTY SOB1 INDIC	SATION YOT. THE PROPERTY OF T	COMM HE CEN OULTURE	FIRE WOOD O	MBES FARM SEPOS SHO	f No	UMBEF 20 351		000)	FE FA	PULPWI	PORTING STS, SA: PORTING	AND I	AND PI E TREES	OF SALES DOLLARS (23.34)	ID VALU	REE PRO	TRI TARMS TEPOOR TIMO	BY E.D.	D	PARMS IEPORT INO	9A110) 10	SUGAR A	MACH MACH MACH MACH MACH MACH MACH MACH	MACHINI SCHIPE BO	E TABULATIO	CHECK	(0				23
CE 37ATE COUNTY SOB1 INDIC	SATION YOT. THE PROPERTY OF T	COMM HE CEN OULTURE	FIRE WOOD O	MBES FARM SEPOS SHO	f No	UMBEF 20 351		000)	FE FA	PULPWI	PORTING STS, SA: PORTING	AND I	AND PI E TREES	OF SALES DOLLARS (23.34)	ID VALU	REE PRO	TRI TARMS TEPOOR TIMO	BY E.D.	D	PARMS IEPORT INO	9A110) 10	SUGAR A	MACH MACH MACH MACH MACH MACH MACH MACH	MACHINI SCHIPE BO	E TABULATIC	CHECK	(0				13
CE 37ATE COUNTY SOB1 INDIC	SATION YOT. THE PROPERTY OF T	COMM HE CEN OULTURE	FIRE WOOD O	MBES FARM SEPOS SHO	F Nei	70 201 3	PARAS PARAS IFNO VVIIII	000)	FE FA	PULPWI	PORTING STS, SA: PORTING	AND I	PRODUCT AND PIE TREES SALUE SENS PORT NO 19 221	OF SALES DOLLARS (23.34)	ID VALU	REE PRO	TRI TARMS TEPOOR TIMO	BY E.D.	D	PARMS IEPORT INO	9A110) 10	SUGAR A	MACH MACH MACH MACH MACH MACH MACH MACH	MACHINI SCHIPE BO	TASULATIC	CHECK	(0				13
CE 37ATE COUNTY SOB1 INDIC 00 \$17A72 C0001 11 21 15 39 A B C	ATION TOTAL	COMM HE CEN OULTURE	FIRE WOOD O	MBES FARM SEPOS SHO	F Nei	UMBEF 20 351	PARAS PARAS IFNO VVIIII	000)	FE FA	PULPWI	PORTING STS, SA PORTING CORDS (20.32) 9	O AND I	PRODUCT AND PIE TREES SALUE SENS PORT NO 19 221	DOLLARS 11	ID VALU	REE PRO	TRI TARMS TEPOOR TIMO	BY E.D.	D	PARMS IEPORT INO	9A110) 10	SUGAR A	MACH MACH MACH MACH MACH MACH MACH MACH	MACHINI SCHIPE BO	E TABULATIC	CHECK	(0				333
CE 37ATE COUNTY SONT INDICE 0 1/12 12.3 13.3 C	ATION TOTAL	COMM HE CEN OULTURE	FIRE WOOD O	AMERICAN STATEMENT OF THE STATEMENT OF T	No. C	0 M M M M M M M M M M M M M M M M M M M	PARMS IF POST INCO	000)	FE FA	PULPWI	PORTING STS, SA PORTING CORDS (20.32) 9	AND I	PRODUCT AND PIE TREES SALUE SENS PORT NO 19 221	DOLLARS 11	ID VALU	REE PRO	TRI TARMS TEPOOR TIMO	BY E.D.	D	PARMS IEPORT INO	9A110	7 14	TAB / SUPAGE NA	MACH MACH MACH MACH MACH MACH MACH MACH	MACHINI SCHIPE BO	TABULATIC	CHECK	(0				13
CE 37ATE COUNTY SOST INCIDENT 17	ATION TOTAL ATION ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL	COMM	ERCE 5US : 1954 : 1954 : 1954 : 1954 : 1954 : 1954 : 1954 : 1954 : 1954 : 1955	ALL TABLES	No. 5	20 23) 3	PARMS IFFOR INCO	BOARD (24.2) (24.2) 7	FE FA	PULPWI	PORTING STS, SA PORTING CORDS (20.32) 9	O AND I	PRODUCT AND PIE TREES SALUE SENS PORT NO 19 221	DOLLARS 11	ID VALU	REE PRO	TRI TARMS TEPOOR TIMO	BY E.D.	D	PARMS IEPORT INO	9A110		TAB / SUMMA SUMMA SUMMA SUMMA POINT PROTECTION PROTECTI	MACH MACH MACH MACH MACH MACH MACH MACH	MACHINI SCHIPE BO	E TABULATIC	CHECK	(0				33
CE 37ATE COUNTY SOST INCIDENT 17	BUREAU OF TAMES OF AGRIC ATION TOTAL (ATION COMM	ERCE 5US : 1954 : 1954 : 1954 : 1954 : 1954 : 1954 : 1954 : 1954 : 1954 : 1955	ALL TABLES	No. 5	0 M M M M M M M M M M M M M M M M M M M	PARMS IFFOR INCO	BOARD (24.2) (24.2) 7	FE FA	PULPWI	PORTING STS, SA PORTING CORDS (20.32) 9	AND I WILGGS G MAPI	PRODUCT AND PIE TREES SALUE SENS PORT NO 19 221	DOLLARS 11	ID VALU	REE PRO	TRI TARMS TEPOOR TIMO	BY E.D.	D D A A A A A A A A A A A A A A A A A A	PARMS IEPORT INO	9A110		TAB O MARK	MACH MACH MACH MACH MACH MACH MACH MACH	MACHINI SCHIPE BO	E TABULATIC	CHECK	(0				13	
CE 37ATE COUNTY SOST INCIDENT 17	ATION TOTAL ATION ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL	COMM	FIRE WOOD C	ATABASA ATABATABASA ATABASA ATABASA ATABASA ATABASA ATABASA ATABASA ATABASA AT	NO.	0 000 11 P	PARMS IFFOR INCO	BOARD (24.2) (24.2) 7	FE FA	PULPWI	PORTING STS, SA PORTING CORDS (20.32) 9	O AND I	PRODUCT AND PIE TREES SALUE SENS PORT NO 19 221	DOLLARS 11	ID VALU	REE PRO	DUCTS;	FIRE WW E.D. ECS TAPPE NUM 32 1	D	PARMS IEPORT INO	9A110		TAB O MARK	MACH MACH MACH MACH MACH MACH MACH MACH	MACHINI SCHIPE BO	E TABULATION CAYE	CHECK	(0				13
CE 37ATE COUNTY SOST INCIDENT 17	ATION TOTAL ATION ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL	COMMING COMMIN	1954 1954 1954 1954 1954 1954 1954 1954 1954 1955	ATABASA ATABATABASA ATABASA ATABASA ATABASA ATABASA ATABASA ATABASA ATABASA AT	No. 5	OMATE 70 231 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	PARAS IN INC.	90,490 07,490 174 77	FE FA	PUPW SO	PORTING STS, SA PORTING CORDS (20.32) 9	AND I WILGGS G MAPI	PRODUCT AND PIE TREES SALUE SENS PORT NO 19 221	DOLLARS 11	O. LAPLE TI	IE OF SIZE PRODUCTS AND SET OF SIZE SET OF	ALES OF DUCTS;	SESTAPPE NULL 1327	D D A A A A A A A A A A A A A A A A A A	PARMS IEPORT INO	9A110		TAB O MARK	MACH MACH MACH MACH MACH MACH MACH MACH	MACKINITE TO THE TOTAL THE TOTAL TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO TH	O ANY	2500 t	21				13
CE 37ATE COUNTY SOST INCIDENT 17	ATION TOTAL ATION ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL	COMMING COMMIN	ERCE SUS 1954 FIRE WOOD C	1/ALIAN 1/ALIA	NATIONAL ASSESSMENT OF THE PARTY OF THE PART	UMART 70 201 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	PARMS IFFOR INCO	BOAS0 000 13-07 7	FE FA	PUPW SO	PORTING STS, SA PORTING CORDS (20.32) 9	AND I WILGGS G MAPI	PRODUCT AND PIE TREES SALUE SENS PORT NO 19 221	DOLLARS 11	O. LAPLE TI	IE OF SIZE PRODUCTS AND SET OF SIZE SET OF	DUCTS;	SESTAPPE NULL 1327	D D A A A A A A A A A A A A A A A A A A	PARMS IEPORT INO	9A110		TAB O MARK	MACH MACH MACH MACH MACH MACH MACH MACH	MACKINITE TO THE TOTAL THE TOTAL TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO TH	TABULATION DAYS	2500 t	(0				13
CE 37ATE COUNTY SOST INCIDENT 17	ATION TOTAL ATION ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL	COMMING COMMIN	ERCE SUS 1954 FIRE WOOD C	ATABASA ATABATABASA ATABASA ATABASA ATABASA ATABASA ATABASA ATABASA ATABASA AT	NATIONAL ASSESSMENT OF THE PARTY OF THE PART	UMART 70 201 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	PARAMETER AND ADDRESS OF THE PARAMETER AND ADDRESS OF THE PARAMETER AND ADDRESS OF THE PARAMETER	BOAS0 000 13-07 7	FE FA	PUPW SO	PORTING STS, SA PORTING CORDS (20.32) 9	AND I WILDS	PRODUCY AND PS E TREES STALLE RESTRICT TO THE STALLE	DOLLARS 11	D VALUE TI	IE OF SIZE PRODUCTS AND SET OF SIZE SET OF	ALES OF DUCTS;	SESTAPPE NULL 1327	D D A A A A A A A A A A A A A A A A A A	PARMS IEPORT INO	9A110		TAB O MARK	MACH MACH MACH MACH MACH MACH MACH MACH	MACKINITE TO THE TOTAL THE TOTAL TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO TH	O ANY	2500 t	21				13
CE 37ATE COUNTY SOST INCIDENT 17	ATION TOTAL ATION ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL	COMMING COMMIN	ERCE SUS 1954 FIRE WOOD C	1/ALIAN 1/ALIA	NATIONAL ASSESSMENT OF THE PARTY OF THE PART	UMART 70 201 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	PARAS (PARAS)	BOASI OF A	FE FA TI TI TI TI TI TI TI T	PUPW SO	PORTING STS, SA: PORTING CORES SOS 321 7	AND I WILDS	PRODUCY AND PS E TREES STALLE RESTRICT TO THE STALLE	TRON AND MODELLE CONTROL OF SALES 111	ID VALUE TI	IE OF SIZE PRODUCTS AND SET OF SIZE SET OF	ALES OF DUCTS;	FIRE W.	D D A A A A A A A A A A A A A A A A A A	PAREAS PROPERTY OF THE PAREAS	GALLO		TAB O MARK	D = MACH MACH MACH MACH MACH MACH MACH MACH	AACKINIA S	ATT	30	10-18-1		32		100
CE 37ATE COUNTY SOST INCIDENT 17	ATION TOTAL ATION ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL	COMMING COMMIN	1954 1954 1954 1954 1954 1954 1954 1954 1954 1954 1955	1/ALIAN 1/ALIA	NATURE AND A STREET AS A STREE	UMART 70 201 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	PARAMETER CONTRACTOR C	BOASI OF A	FE FA TI TI TI TI TI TI TI T	PULVE POLY SO	PORTING STS, SA PORTING CORDS (20.32) 9	AND I WILDS	PRODUCT AND PI	TRON AND MODELLE CONTROL OF SALES 111	ID VALUE TI FARME TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL T	IF OF SI	ALES OF DUCTS;	FIRE W. E.D. SECS TAPPER NUMBER 1	D D STATE OF THE S	PAREAS PROPERTY OF THE PAREAS	GALLON I BO		TAS SUGAR NO.	D = MACH MACH MACH MACH MACH MACH MACH MACH	MACKINITE TO THE TOTAL THE TOTAL TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO TH	ATT	16	10 LO 10 LO	1	32		33
CE 37ATE COUNTY SOST INCIDENT 17	ATION TOTAL ATION ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL	COMMING COMMIN	FIRE WOOD C	1/ALIAN 1/ALIA	TATE ASSESSED ASSESSE	TO 2010 S COUNTY S COUNTY S COUNTY S COUNTY S COUNTY	PARAS (PARAS)	BOASI OF A	FE FA TI TI TI TI TI TI TI T	PULVE POLY SO	PORTING \$15, \$34, \$25, \$31, \$32, \$32, \$32, \$32, \$32, \$32, \$33, \$33	AND I SWILDS S MAPL	PRODUCT AND PI	TRON AND MODELLE CONTROL OF SALES 111	ID VALUE TO CAPLE TO	DE OF SIZE PRO SIZE P	ALES OF DUCTS;	FIRE W.	D D STATE OF THE S	PAREAS PROPERTY OF THE PAREAS	0.410 10.4 10 10 10 10 10 10 10 10 10 10 10 10 10		TAS SUGAR NO.	D = MACH MACH MACH MACH MACH MACH MACH MACH	JACCHINICAL STATE OF THE STATE	ATT	PARME PARME	31 Selber	1	32		13
CE 37ATE COUNTY SOST INCIDENT 17	ATION TOTAL ATION ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL	COMMING COMMIN	1954 1954	1/ALIAN 1/ALIA	PARE STELL S	20 (00 m) 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	I ALAN AND AND AND AND AND AND AND AND AND A	BOASI OF A	FE FA TI TI TI TI TI TI TI T	PULVE POLY SO	PORTING \$15, \$34, \$25, \$31, \$32, \$32, \$32, \$32, \$32, \$32, \$33, \$33	AND I SWILDS S MAPL	PRODUCT AND PI	TRON AND MODELLE CONTROL OF SALES 111	ID VALUE TI APPLE TI TA APPLE	IF OF SI	ALES OF DUCTS;	FIRE WILL	D D STATE OF THE S	PAREAS PROPERTY OF THE PAREAS	GALLO		TAS SUGAR NO.	D = MACH MACH MACH MACH MACH MACH MACH MACH	JAACHINITE BE	ATT	PARME PARME	31 Selber	1	32		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CE 37ATE COUNTY SOST INCIDENT 1/3 1/3	ATION TOTAL ATION ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL	COMMING COMMIN	ERICE SUS 1954 INIT WOOD C SME STAT	1/ALIAN 1/ALIA	TATE ASSESSED ASSESSE	20 (00 m) 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	TABLE OF THE PARTY	BOASI OF A	FE FA TI TI TI TI TI TI TI T	PULVE POLY SO	PORTING STS, SA: PORTING CORES SOS 321 7	AND I WILDSO	PRODUCT AND PI	TRON AND MODELLE CONTROL OF SALES 111	ID VALUE TO APPLE TO THE PROPERTY OF THE PROPE	IN OF SIZE PRODUCTS AND ADDRESS OF THE PRODUCTS AND ADDRES	DUCTS:	ESS TAPPE NUM 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D D STATE OF THE S	PAREAS PROPERTY OF THE PAREAS	0.410 10.4 10 10 10 10 10 10 10 10 10 10 10 10 10		TAS SUGAR NO.	D = MACH MACH MACH MACH MACH MACH MACH MACH	MACHINE STATE OF THE STATE OF T	ACRE 2	PARE FARE	13-11-13-13-13-13-13-13-13-13-13-13-13-1	1	32		33
CE 37ATE COUNTY SOST INCIDENT 1/3 1/3	ATION TOTAL ATION ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL	COMMING COMMIN	1954 1954	1/A1000 1/A100	PARE STELL S	20 (00 m) 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	I ALAN AND AND AND AND AND AND AND AND AND A	BOASI OF A	FE FA TI TI TI TI TI TI TI T	PULVE POLY SO	PORTING STS, SAA (STS) STS, SAA (STS) COURS STS, SAA (STS) COURS STS, SAA (STS) S	AND I WILDSO	PRODUCT AND PI	TRON AND MODELLE CONTROL OF SALES 111	ID VALUE TI APPLE TI TE APPLE	IN OF SIZE PRODUCTS AND ADDRESS OF THE PRODUCTS AND ADDRES	DUCTS: THE TH	FIRE WILL	D D STATE OF THE S	PAREAS PROPERTY OF THE PAREAS	GALLO		TAS SUGAR NO.	D = MACH MACH MACH MACH MACH MACH MACH MACH	######################################	ACRE 2	FARST CALLS	13-11-13-13-13-13-13-13-13-13-13-13-13-1	1	32		123
CE 37ATE COUNTY SOST INCIDENT 1/3 1/3	ATION TOTAL ATION ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL	COMMING COMMIN	ERICE SUS 1954 INIT WOOD C SME STAT	1/A1000 1/A100	PARE STELL S	2 COUNTY	SALES AND SALES	BOARD OF A	FE FA	PUPPER NO.	POSTING STOR STATE CORRES TO 22 TO 22 TO 22 TO 24 TO 24 TO 24 TO 25 TO 2	AND WIGOS S MAPH	PRODUCT AND PI	TRON AND MODELLE CONTROL OF SALES 111	TAPLE TILE	REE PRO INS. SPTG FT MAPILE TO THE PROPERTY M	DUCTS: 18 14 14 14 14 14 14 14 14 14 14 14 14 14	ESS TAPPER WILLIAM STATES TO THE WILLIAM STATES TO THE STA	D D D D D D D D D D D D D D D D D D D	IALES	GALLO 10 - Cl - Cl - Cl - Cl - Cl - Cl - Cl - C	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	TABLES AND STATE OF THE STATE O	D = MACH MACH MACH MACH MACH MACH MACH MACH	ACCIDITION OF THE PROPERTY OF	ACT C	FARMEN SALES	JO-Liberton TALLES	н.	32		13
CE 37ATE COUNTY SOST INCIDENT 1/3 1/3	ATION TOTAL ATION ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL ATION TOTAL	COMMING COMMIN	INT WOOD CAMES IN THE WOOD CAM	THE COURTY C. D	TATE ASSESSED	20 00 00 00 00 00 00 00 00 00 00 00 00 0	1 1 1 1 1 1 1 1 1 1	BOASI OF A	FE FA TY TY TY TY TY TY TY TY TY TY TY TY TY	PULVE POLY SO	PARTING TORRES T	AND I WILDSO	PRODUCT AND PI	TRON AND MODELLE CONTROL OF SALES 111	ID VALUE TO APPLE TO THE PROPERTY OF THE PROPE	REE PRO INS. SPTG FT MAPILE TO THE PROPERTY M	DUCTS: 18 14 14 14 14 14 14 14 14 14 14 14 14 14	FIRE WILLIAM STATE OF THE WILL	D D STATE OF THE S	TABLES	GALLO		TAS SUGAR NO.	D SACH	######################################	ATT CORE O	PARAMETER STATE OF THE STATE OF	10-11-13-13-13-13-13-13-13-13-13-13-13-13-	1	32		123

FIGURE 55.—Facsimile of county tabulation sheets.—Continued.

	EPARTMENT OF BUREAU OF T	HE CENSUS					CATTLE AND V	MILK COWS, RI	TY TABULATION OF GALLY PRODUCT	HOLE MULK SOLD				H C	MACHINE TAN	ULATION HAME		ricultual
SORT INDICATION	HUMAER	TOTAL CATILE ON	cows	MILE COWS	дацон			MILE SOLD	YALUE		PAM SOLD	COWS	MULE PRODUCED YESTERDAT	BUTTER				
(1) (3 2) (4-4) C	(74) (CC)	(18-21)	(73.34)	(34.36)	(43-48.3 H		POUNDS 0-48 IN COL 421	OF BUTTER FAT	OF ALIS	OF SUTTER FAT	OF BALES (SP 43)	7857880AT	YESTERDAT (37-39)	LAST WEEK	14	13	16	2 16
101																		
																	06	
			14	- C			77									e		
	BUREAU OF	HE CENSUS							NTY TABULA					I CARD	PART			TICUSTUP!
STATE	NSUS OF AGR	CULTURE 19	954				sows	PARROWED OR	TO FARROW, AND OF SHEEP AND	MALS SOLD ALLY					MACHINE TAS	Deli Hame		
COUNTY						ANIMAL	S SOLO ALIVE		HOBSES AND MU		6 Plos			SUMM MACH	0 04 70 7	ARPOW	T	
	SHIEF AND LAMES SOLD ALIYE HUMBER	10 3	P AND LAMES OLD ALIVE VALUE OF SAIES	TOTAL NG OF ANT FARMS TALE	CAPILE OR CALASS	5010 CALV	0 SOTE 19	PER HOPES SALES OF MEAT SALES	04 101AL HQ85ES	MULES 107AL SET	EN BORN DEE SINCE ANT IF I JUNE I	stroot since	1 50w 11	sows 3 sows	s sows s s	ows a sows	7 SOWS # SOWS #	SOWS TO AND OVER
	(81-44) ACC #1	70.	63 40 ACC #1	433	18 to 1N en OF 33	0 8 IN IS W	IN 15 # IN 10 5	IN 19.8 IN 14 48	12 13	16 33 3		19 10		n n		5 34-35 AND/OR 3	4.50	n n
	TOTAL	1.	acc 21		•													
				-														
23	AEC SI	01	466 E9	,	† , †		+,+	10 11	и и	u 15	. † ., † .,	19 39	91	n n	30	25 10	77 18	n n
<u> </u>	35				B						4							
	BUREAU OF	HE CENSUS	'						NTY TABULAT				•	CARD	PART			ncustuite
D'AR	NSUS OF AGRI	CULTURE 19	54				FARRO		ORTING HORSES OF							DATE HAME		
COUNTS				ANIMAL	3 SOLD ALIVE			OFSES AND MULES		**************************************	NO B	10141		SUMM MACH		दमस्याम		
		EO NO	CATILE AND CALVES SOID	HO HO CATHE SOLD	NO NOGS	NO HO SHEEP HOESE AND AND AMES MUIE SOID BOID	S SALES NO OF MENT FOI		SORN BORN SIFORE SINCE	HOT HOT MASS FROME SINCE UNE I JUNE I		POPAL I WILLIAMS OF FARMS						
		7 8	1NO 8 9 1 15 10 68 8 12	92 28 COT 35 COT 4	P HO P P P	(D II 8 NO II IN IN OL 81: COL 1	9 FOL	18 - COL 221 - COL 20	COL 111 COL 201 C	00 08 HO 08 2 01 34: COL 34: COL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	49 34	81	57 53	1 # 1 :		37 T 39 T	77
	TOTAL																	
-																		
25		01 51	-+ 	13 24	n	74 17		-2 41	13 11		87 49	e4 50	, ,	17 13	н з	а и		,, <u>u</u>
40	, "Y	7			N.	y =	(D)					4 y	,	1 0		4	401	CUITUM
	EPARTMENT OF THE SUS OF AGRIC	HE CENSUS	54					REPORTING AND	TY TABULATION	S AND MULES, H	OGS AND PIGS,				MACHINE TABU	LATION		
STATESTATE							sows,	AND NUMBER AN	D VALUE OF SALES	OF ANIMALS SOLE	ALIVE; RY E.O			SHIN C	CHIEF POARD	BATE MANZ		
COUNTY														TAB MACH		CHECKED		
SOPT INDICATIO	graph (HORSES AND MU			AND PIGS	BOBN		SOLO ASIVE	CATTLE SOLD		ALVES SOLD ALIVE	1012 1 (VA)	_ SOW1	TAB MACH		SHISERO	1	
	F 1 OF COLUMN 1	PIAL HORSE	40185 TO 20 311 2	DIAL	GONN GONN GETORE JUNE 1 131 331	808H 31NC1 JUN1 1	NUMBER	SOLO ALIVE VALUE OF SALES	197 351	US OF SALE HUM.	OF SALES	NUMBER CF S	50WS UF SPROKE (LES JUNE 1	TAS MACH		SHISERS		31
	7.2 IC.C.	PIAL HORSE	401ES 10	DIAL	STORE I		NUMBER	VALUE OF SALES	NUMBER YAN	UT OF SALE HUM	OF SALES	NUMBER CF 3	50WS UF SPROKE (LES JUNE 1	TAB MACH	10			31
	7.2 IC.C.	PIAL HORSE	40185 TO 20 311 2	DIAL	STORE I		NUMBER	VALUE OF SALES	197 351	US OF SALE HUM.	OF SALES	NUMBER CF S	50WS UF SPROKE (LES JUNE 1	TAS MACH SUMM MACH FASTOWED SINCE JUNE 1 (34.37)	10			31
	7.2 IC.C.	PIAL HORSE	40185 TO 20 311 2	DIAL	STORE I		NUMBER	VALUE OF SALES	197 351	US OF SALE HUM.	OF SALES	NUMBER CF S	50WS UF SPROKE (LES JUNE 1	TAS MACH SUMM MACH FASTOWED SINCE JUNE 1 (34.37)	10			11
	7.2 IC.C.	PIAL HORSE	40185 TO 20 311 2	DIAL	STORE I		NUMBER	VALUE OF SALES	197 351	US OF SALE HUM.	OF SALES	NUMBER CF S	50WS UF SPROKE (LES JUNE 1	TAS MACH SUMM MACH FASTOWED SINCE JUNE 1 (34.37)				21
	7.2 IC.C.	PIAL HORSE	40185 TO 20 311 2	DIAL	4 OPIN 9 STORE 1 June 1 131 331		NUMBER	VALUE OF SALES	197 351	US OF SALE HUM.	OF SALES	NUMBER CF S	50WS UF SPROKE (LES JUNE 1	TAS MACH SUMM MACH FASTOWED SINCE JUNE 1 (34.37)		.,		21
1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rants orthis 73 ICCL O 1	DIAI NORSE D. IV. 27 721 3 8	9 20 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	DIAL	STORE I	(3) 201 2	NUMBER	VALUE OF SALES	197 351	US OF SALE HUM.	OF SALES	NUMBER CF S	50WS UF SPROKE (LES JUNE 1	TAS MACH SUMM MACH FASTOWED SINCE JUNE 1 (34.37)		.,		27
1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PASS DR STATE	PIAN NOTSE 19 27 27 21 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	9 20 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	07A1	COPEN (COPEN) PROPERTY (COPEN	2 2	NUMBER	VALUE OF SALES	197 351	US OF SALE HUM.	OF SALES	NUMBER CF S	J 50W3 W15 JPMS J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TAS MACH SUMM MACH FASTOWED SINCE JUNE 1 (34.37)		.,		2
1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rants orthis 73 ICCL O 1	PIAN NOTSE 19 27 27 21 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	9 20 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	07A1	(Oh)	2 2	NUMBER	VALUE OF SALES	197 351	VI OF SALE 1000 (20 dd) (20 dd	77 VALUE OF MATE OF MA	NUMBER CF S	50W3. UF SPORE	TAS MACH SUMM MACH FASTOWED SINCE JUNE 1 (34.37)		.,		31
1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PASS DR STATE	PIAN NOTSE 19 27 27 21 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	9 20 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	07A1	ACAMA (COMMITTEE OF THE COMMITTEE OF THE	7	Novet 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VALUE OF LALD (III AT) V	197 351	VI OF SALE 1900 (20 dd) 60 11 11	7 VALUE OF MAT	NyaM3 5 TA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50W3 M15 SPOSS M	TAS MACH SUMM MACH FASTOWED SINCE JUNE 1 (34.37)	Alf1 9](c	.,		21
10 24 CA TOTA	PASS DR STATE	PIAN NOTSE 19 27 27 21 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	9911 2	1 27 3 3 3 4 27 4 27 4 27 4 27 4 27 4 27	40200 100000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 1000	THE IF AS	Novet 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VALUE OF LAID	17 AV AV AV AV AV AV AV AV AV AV AV AV AV	VI OF SALE 1000 (20 dd) (20 dd	77 VALUE OF MATE OF MA	NyaM3 5 TA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50W3 M15 SPOSS M	TAS MACH SUMM MACH FASTOWED SINCE JUNE 1 (34.37)		.,		21
1011 1021	2	77.1 NOSIS 197 27 27 2 2 1	70 11 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1 27 3 3 3 4 27 4 27 4 27 4 27 4 27 4 27	40200 100000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 1000	THE ST ASC	10 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a	VALUE OF SALE	7 AV 7 AV 7 AV 7 AV 7 AV 7 AV 7 AV 7 AV	2001 C. C. P.	VALUE OF MATE (C. 1423) (C	NUMBAS (**) (79.71) 72 14 1	50W3 M15 SPOSS M	TAL MACS VANDE MACS FATOWID JUNE 1 G17 17	Alt - 1 Pile			
10 24 CA TOTA	2	77.1 NOSIS 197 27.21 2 2 2 2 2 2 2 2 2	70 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 27 3 3 3 4 27 4 27 4 27 4 27 4 27 4 27	10200 1 10200	THE ST ASC	100 mes.	VALUE OF SALE	7 AV 7 AV 7 AV 7 AV 7 AV 7 AV 7 AV 7 AV	20 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VALUE OF MATE (C) 1/4 231 1 12 1	NUMBER OF STREET	SOW3 SPANSE MASS	TAL MACH	Al7 - 1 2 1 4 4 4 4 4 4 4 4 4	1000		21
101/	2	77.1 NOSIS 197 27.21 2 2 2 2 2 2 2 2 2	70 11 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	ALCON MAN LOCAL	40200 100000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 1000	JE SAN AND AND AND AND AND AND AND AND AND A	100-105 100	VALUE OF SALES (III AS) (III AS) (III AS) (III AS)	7 AU 7 AU 7 AU 7 AU 7 AU 7 AU 7 AU 7 AU	SOUTH CLE	VALUE OF MATE	NUMBER OF STREET	SOW3 SPANSE MASS	TAL MACH	Al7 - 1 2 1 4 4 4 4 4 4 4 4 4	1000		21
10 24 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	2	77.1 NOSIS 197 27.21 2 2 2 2 2 2 2 2 2	70 11 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	ALCON MAN LOCAL	ALAIX, AGUAL STANDARD	JE SAN AND AND AND AND AND AND AND AND AND A	10 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a	VALUE OF SALE	7 AU 7 AU 7 AU 7 AU 7 AU 7 AU 7 AU 7 AU	2001 C. C. P.	VALUE OF MATE	NUMBER OF STREET	SOW3 SPANSE MASS	TAL MACH	Al7 - 1 2 1 4 4 4 4 4 4 4 4 4	1000		27
101/	1	77.1 NOSIS 197 27.21 2 2 2 2 2 2 2 2 2	10 10 10 10 10 10 10 10 10 10 10 10 10 1	TABLE IN THE STATE OF THE STATE	ACADA ACADA	(2) AND AND AND AND AND AND AND AND AND AND	LOA DAS	VALUE OF SALES (II AT) (II A	70.0011 7 A) 7 A) 7 A) 7 A) 7 A) 7 A) 7 A) 7	WOOD EAST VOICE OF THE STATE OF	O INTERPORT OF THE PROPERTY OF	Number 1	50W1 10W1	74.1 MAC 1 FAT HOWED JUNE 1	Al7-1 2010 400-1 200 779 99 400-1 100 400-1 0 (200) 10 AUR 10 A			
101/	1	7/10 NOBIA 197 37 271 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	70 11 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	CARL AD.	ACAMA ACAMA	(2) All (2) All (3) All (3) All (4) Al	100-105 100	VALUE OF SALE (A) AT (B) AT (C) AT	TOURTS TOURS TO THE TOURS TO TH	SOUTH CLE	O TO TO THE PARTY OF THE PARTY	NUMBER OF STREET	50ws 50ws 10ws	74.1 MAC 1 FAT HOWED JUNE 1	Al7 - 1 2 1 4 4 4 4 4 4 4 4 4	10 (200) 10 AUR 10 A		21
1 19 Usb 1 10 10 10 10 10 10 10 10 10 10 10 10 1	1	7/10 NOBIA 197 37 271 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	10 10 10 10 10 10 10 10 10 10 10 10 10 1	CARL AD.	ALAMA AND MANAGEMENT AND AND AND AND AND AND AND AND AND AND	(2) AND (2) AND (3) AND (4) AN	100.0051 100.00	9 0 0 0 0 0 0 0 0 0	TOURIST TO A STATE OF THE STATE	## CONTENT 100	O 14 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F (0) C C C C C C C C C	SOW1 Sow1 Sow1	7.6.1 MAC 1. MAC	Al7-1 2010 400-1 200 779 99 400-1 100 400-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		H	

В	JREAU	OF TH	COMME E CENS JLTURE	U\$					F	ARMS RE	PORTING	COUN	SER OF	TOTAL SHE	EP, LAI	MBS, EWE	ES, RAMS,	AND	WETHER	ıs,			RETURN 184 A	0	MACRINE 18	D816	NAME		Anticu	Kluit -	
SORT INDICATION		Sutta a	HD LAMES	Lum			Durit	1		1	▼												SUMM	MACH			CHECALD	1.			
5047 INDICATION		EMS	M/WH	100 85		FA EMS EFPORT ING	EMES .	ratms trig	AND WITHERS	7414	AS UNDER 1		EMS PTO	SHEEP SHE		OUHDS OF WOOL	UNDÉS 23	25 49		100 PPI	800 379	eG Shtep em	1000	1300 OVEV			Ì		1		
2.3: 10-61 (7	, atro		119 321	100		ING	(27 30)	10 1 7 111	(H M)	4975			10 101	(36 34)		WOOL	23				5 19 221	PPI	149	Ovte		-	\rightarrow		-		
	0	(1	-	-+			•	7				10	11		13	13	14	10	16	17	10	19	39	1)	1	23	13	34		33
TOTAL		_			_																										
																							i								
						-		-							-											- 100				-	
1		1																		1						1 _					
	0																							_		ė	-				
	_					- 7	*		~			_	40		•	90															
			F COMP									COU	ITY.	TABULAT	ION I	NO. 15	51-11						K c	ARD	PAR	TIE			AGEN	ALIVIA	
			HE CEN	E 1954						NUM	BER OF	FARMS REPO	RTING (CHICKENS C	ON HA	ND, CHIC	KENS AND	CHIC	CKEN					-	MACHINE 18	A BUL ATION	-	-			
STATE										EGG	S SOLD,	TURKEYS I	AISED A	IND TURKE	YS RE	PT FOR I	MEEDING,	POU	LTRY				68 6UH		204 NO	Dall	Haut				
COUNTY												AS OTHER	OULIKI	Name A	w 30	ш, и, е	v.						7A9 I			-	CHECTED				
	BROIL	193		OTHER		1001	3010 To	IAL MIT IAI	n					7 4 8 M 3	tero	DITING)	-				1		MACH MACH	T HUM	111	1	HICEEN	5 D N	NAND	
	SOLE	› I	£.0	CHICKENS S	DLD,			AREN OF FORLS	CHICKEHS	SOLD BI	POLITE CH	CREMS EGOS	TURKET	S REPT POR BET	OHIOT	TUR	RRTS RAISED				LTTY GAISE		UNDIE 23	13 49			300 399	600 797	800 1500 1399 3199	1208 4 OVE	ZPRO
	SALE	3		VALUE O		YALU 3A1	LES PA	LAS PEDDOC	IS ON HAND	AMT		SOLD SOLD		BSEEDS	BRIEDS	4917	MIEDS M	EAVY			OVINEAS		25		"				3179	4 OVI4	
	(27 -1	lks	(7-8)	(36-39)		143	-01	27 34 45 CH 1	101 101	10 9 IN	(S.F 194 (S 231)	5-5 IN (0.9 II 331 481	(0 t IN 50 Ot 6	(0-F IN 1) 381)	(9-9-30s 871	(9-F IN 59-04-34)	(8-9 FN COL 301 FI	70-9 N 341	II IN COL	2 IN COL	IS IN COL	14-E IN 64-09-691				(COL	CUMMS 18 31	1:			
	400		91	ACC #	1	ACC	21	5 6	, ,			10 11	12		14	19		17 6		19	30	31	n	23	14	23	26	n	24 29	30	-
	TC	TAL	<u> </u>								_														1					1	
																	-								+	- +					-
					_				+	- I			-	+							-		_			_	-	_			
	ACE	±1	91	€CE 21		#CC	21		,			10 35	- 11	19	14	-14	14	17	18	17	*	21	n	13	10	13	76	27	38 19	, =	
				٠.																61	, :		14					P/ 4	N/C		
		-						_		-0-		_		_				-		-	23				-						
			OF CO	MMERCE								CO	JNT	Y TABU	LATIC	ON NO.	151-11						KC	ARD	PAR	T-11			46810	JI FUIII	
	_			ENSUS URE 1954							NUMBER (OF FARMS I	EPORTIN	O CHICKEN	IS ON	HAND, C	HICKENS A	AND (CHICKEN						MACHINE IN	480141101	н -				
STATE											IGGS SO	LD, TURKEY S AND OTH	S RAISE	D AND TU	RKEYS	KEPT FO	R BREEDI	NG, F	POULTRY				HITCH	-	9011 HC		NEM!	1.			
COUNTY				_	_					•						300, 11	L D.						14.8				C 467 , 10 F C				
	FARMS DEI	CHITIO	_	1 .	ARMS I	REPORTING	D CHICKENS IN	OUTEN SOL	0 1		CHICKE	N EGGS	1010 0	07781			7 11 5 8 1		8 6 1 5 F 0	. FIG.	1 611	101	, 94,64	MAY I	1011	EYS P	A 1 3 E D	HILAYI	841103		_
		OFHER	EO		,000	4.000	1 1	000- 12,00		UNDER		400 810	1,400	1.000	3.000	L'ADER		90	100	300	, ago	800	1 860	LNDEI	2"	90	100	800	400- 800	1 #00	ZENO
	POULTEY AND FEG- DUCTS SOLD	ea-sto		2.000	-	7 344	13,999 11	399 61.99	AHD OVER	100	399	789 E.SET	1,000	4.777 A	HD OVE	25		10	199	m	700		ano over	23		=	199	701	THE 1.07	4 440.044	CARCI
	10 4 18 504 FR1	COLD TO	(7.4)			ici	OLUMNS 23 361					:COLUMNS	40 441						(COLUMN)	13 30 53							COLUMN	5 M F			
	ACC		g I	31	n	13	34	35 30	27	30	39	40 41	62	43	м	+3	44	47	48	49	30	81	37	13	14	18	54	57	16 19		0
l	TO	DTAL																													
																								100	A 313	0					
								-	-				1								-		1	4		1				-	
						-				-				+									_							-	+
	ACC	27	0 1	\$1	n	В	н	3 ×	77	78	31	a 41	a	0	44	60	66	67	44	•	30	15	17	11	14	1.0	34	17	30 31	- "	
							•																								
												-	186	-			_								- 10						—
DE	PARTME	NT OF	СОММ	ERCE								COUN	TY	TABULATI	ON N	10. 15	2 - 11							K CA	JED				AGRICU	1049	-
			IE CENS									CHICKENS													MACHINE TA			b			
	US OF	AGRIC	ULTUR€	1954						TURK	EYS RAIS	SED, TURKE	NENS I	CEPT FOR II	REEDI	NO, OTHE	ER POULTR	Y RA	ISED				HEUN		#0 #0	DATE	HAME	1			
										AND	VALUE	OF SALES C	POINE	POULIKI	AND	POULIET	PRODUCT	3; PT					TAR M				.{HIC4€D	*			
UNTY						714	ECKEMS SOLD				Tue:	ET'S EET FOR	OHIUSSES	T T	UFRETS	RAISED		DUCKS		T4(25 07	SALES	OTHER	POULIET I			T	1				
SORT INDICATIO) HS	MEEB	CHICKENS	OH HAMD		AOILIES .		OF MERCE	RGC	S SOLD	_	FIGHT	MEAV? M1000	TION!		HEAVE		BUCKS RAISED		06 81922 1 89 PPS1387	PB01787	GEEN	QUINE	5 57965							
(2.5) (4-6)	1 ~	FARMS CCI	178	311		(33 36)		n n	1	60-443		28 440	(61-63)	(30-13)		(34.87)	:43	66 OI T		79.7	-	pr 40 08 4	n .: 100 m			1		17			10
		1			_	•		4	-	1	_		7		-	•	+	10	-	- 11		13	13	14	13	+-	la .	- 1/	1 1		
TOTA	ı								1					-	لسنا				_			1		+		_	_		+-	+	
										-				_		-									-	-	•				
															}																
		T							1					1													i				
100	خاج															0	_							1							
0.5	PARTI	ENT OF	Сомм	ERCE												01	2 . 11	01	2 . 12				C-1; C	-2 c	ARD				- AGBIÇU	17001	
В	UREAU	OF TH	IE CENS	SUB								COUN	TY	TABULATI	ON N	10. 71	2 - 11	92	2 - 12												
CENS	us of	AGRIC	ULTURE	1954						AMO	EX UT 1 /	ARMS REPO	RITING A	ND ACKES	HARY	/ESTED, P	RODUCTIO	N, A	ND				978100		MACHINE SAI	HOITAJUS	HAMI	+			
ATZ												c 1 com						c	2 SORGH	UMS			746 #		NO			a a			
утну											W *1	2 2 11 17	HEROATION	•				23 1	17 67 E. 13 57 181	11G4 TION			SUMM		- 1		intiits	1.			
SOUT INDICATE			OR SOROH				S HARVESTED I				MA CUT POR	SILAOP	HOGGED HOGGED OR CVI PO	DE SORGHUMS OFF DE GRAZEI E PODDES OF H	D.,	FORAGE C	CUT POS					PARMS							1		
OF 1727E 00-111		PARES	e ACI	BEAC SEPO	EMS STIND	ACRE		AMELI	TEPOSTING	ACRES		TONS	*****	ACRES	110	10 WB	POHS	STPOS.		BUSHELI	, l*	EPOSTING	FOR			1	\rightarrow		+	-	
1 11 31 (3 a) 8 C	(8.7)	(C (-)	(16	30) (9-9)	H IDS	(3) 25	10	8	(0 T 170 30)	- 134 MI		(39 -41) B	(9 9 IN 42)	143.461		tre on	10 111	(9 5 15		(2) 33)	_+	9.6 (10.32)	::53 :		17	1	16	19	34		91
	TAL														T																
1 1	-			- +-	-				1		+				1						-+		_			-				+	
			1				- 4							-			-									1				1_	
	44	*										7.5									-41									-	
																						-									
																				_											
								نستخ		· -						÷					-	- St								4.1	

METHODS AND PROCEDURES

1984 Consus of Agric	altere	•	C	OUNTY TAB	JLATION No	. 115–11		L CARD	NOT THE LATION		ETETURE
State			NUMBE	R OF FARMS BY C	LASS, BY TYPE, W	THIN SAMPLE		Rarun D No Tab Mach	No.	Name b	
GROUP INDICATION	LINE No	Total Number of Sample Fasss	Commercial (2) Farms	(3)	(4) II	Number of	SAMPLE FORMS BY CO	LANS OF FARH V (7)	VI (8)	Gther Parms	Part-Time
	1										
	3	Rosidential	Abnormal	Field Crop Parms Other Than Vagetable and (13) Fruit Nut	Cash Grain (14)	(15) Cotton	Other Field Crops (18)	Vegetable (17)	Fruit and Nut	Dairy (19)	Poultry (20)
	5	Livertock Evel. Dairy and (21) Poultry	General Farms	General Crop	General (24) Livestock	General Crop and	Miscellaneous (26)	[27]	(28)	(29)	(50)
*****	. 7				0	· a	ALCOHOL:				
	9	TOTAL NUMBER OF SPECIFIED FARMS (31)	Commercial (32) Farms	(33)	(34)	NUMBER 0) 8	PECIPIED FARMS BY C	(37)	(38)	Other Farms (39)	Part-Time (40)
	11 12 13	No. of Specified Fa Residential (41)	Abnormal	Field Crop Farms Other Than Vege- table and Fruit- (43) Nut	Cash Grain (44)	Cotton (45)	Other Field Crops	Vegetable	Fruit and Nut	Dairy (49)	Poultry (50)
	14										
	13	Livestock Excl Darry and (51) Poultry	General Farms (52)	General Crop (53)	General Lucatock (54)	General Crop and (58) Livertock	Miscellaneous (56)	(57)	(58)	TOTAL NUMBER OF SAMPLE FARMS (59)	TOTAL PARMS SAMPLE AND SPECIPIED (60)
1994 Consus of Aq	rricult			COUNTY	TABULATIO	N NO. 168-11	L CAI	MACHINE TANKA	Date Name b	AGRETTLYTIAE	
County		Sample.	FAF	RMS REPORTING I	ACILITIES, EQUII DATE OF ENUME	PMENT, WORK AN ERATION	IMALS. Rerus I	Mach Board No No	Checked 4		
GROUP INDICATION	Line	TOTAL NUMBER OF FARMS (1)	TELEPHONE Yam (2)	Electricity Yas (3)	TELEVISION YES	RUNNING WATER YES	FREEZER Yes	Pio Bacouga Yes	FEED GAINDER Y83 (8)	MILEINO MACBINE YES (9)	GRAIN COMBINE YES (10)
	2 3	CORN PICKERS	PICK-UP BALERS	Fonace Natyestena	PONOS, TANES,	Motos Tauces	Any, Other Than	Taac: Wheel	Garden	Crawler	AUTOMORILEA
	4	(11)	(12)	(13)	(14)	(16)	(16)	(17)	(18)	(19)	(20)
	6			W one	l'ower Animals and	Tractor Ool), Wheel or	No. West	TELEPHONE No	Electricity No	Telsyleiow No	RUNNING WATER
	7 8	None (21)	1 animal only (22)	2 or more animals only (23)	tractor wheel or (24) crawler	Wherl or (25) Capwier	Any Work Power (26)	(27)	(28)	(29)	(30)
	9				Mareneo	Монто	AOR DEST (ACRES O	WHED)			
	10	Pagesen No (31)	Pro Brooder No (32)	Fard Grinder No	Macrine No (34)	(35) Yan	(36) No	No Report	(38)	(39)	M 40TERA (40)
	12							QATE OF EX	UMBRATION		
	14 15	Acaus Gwhen	ACRES RENTED FROM (42)	ACRES MANAGED (43)	ACRES RENTED TO OTHERS	CARE RENT PAID (45)	(46) L-9	Geto (47) 10-16	(48) 17-23	(49) 24-31	(50)
- 46					1	OATE OF E	NUMERATION				
		(5)) 1–6	(5T) 7-13	Novamban (53) 1←20	(54) 21-27	(55) 28-30	(58) 1-4	(57) 5-11	Dисьиани (58) 12-18	(59) 19-25	(60) 26-31
3		(51) 1-6	(81)	(36)	(94)	(60)			,	P	
1954 Consta of Agric	ultur	•				ON No. 178-11		Mach	HNE TABULATION Doard Date N	A O	*KGTANY#
County		☐ Sample ☐ Specified	FA	FARM EXPENDI	OPERATOR, FAM FURES, OFF FARM MILY AND OTHER	ILY AND NIRED W M WORK BY OPER. R INCOME	ATOR	Rema D No	Ch	ecked e	
GROUP INDICATION	LINE	Total Number Of Farms (1)	INCOME EXCERDS SALES YES (2)	WORKED GFF FARM (3)	100 + Days Gpp Faru (4)	ANT LABOR FAMILY AND/OR HIMEO (5)	Any Family Labor Operator and/or Unpaio Family (6)	1 Or More Hours	OPERATOR WORKING 1-14 Hours (8)	15+ Hours (9)	UNPAID FAMILT
	2 3	Hined Wonker (11)	REGULAR WORKERS TO WORK 150+ Days	SESBONAL WORKERS TO WORK LESS THAN 150 Days (13)	Any	Labor and/or Machine Hire (15)	Machine Nire	Labor (17)	1-99 (18)	100-199 (19)	200-499 (20)
	5 6	500-999	1000-2499	2500+	Feed	Gasoline and	INCOME EXCREUS SALES NO (26)	(27)	(28)	(29)	Маетива (30)
	7 8	(21)	Hrano	WORFERS BY BASIS	124 07 PAT	(25)	12.07	7,4	FARM WORK BY OPR		
	9 10 11	Monthly (31)	Weckly (32)	Daily (33)	Hourly (34)	Piecework (35)	None (36)	1–49 Days (37)	50-99 Days (38)	100-199 Days (39)	200 + Days (40)
	. 12	Family and/on Operator Laron Only (51)	HIRED WORKERS AND UNFAIG PAMILT (52)	BIBED LARGE AND OPERATOR ORLY (53)	No Labor (54)	(55)	(56)	(57)	(58)	(59)	(60)
	14	FAMILY OFF Yes	No (4Z)	Отван Івсом Үм (43)	No (44)	Yer (45)	No (46)	EEPENDITURES FOR HIREN LABOR WITE NO REPORT FOR HIRED WORZERS OF (47) FARM	HISAD WOBERRA	OPERATOR ONLY— No Pawilt On Hired Workshi (49)	UNPAID PAMILY ONLY—NO OPERATOR OR HIRRO WORKERS (50)
			Figure	55.—Facs	imile of co	unty tabul	ation sheets	Continu	ed.		

CENS	UREA'S OF	OF COMMITTHE CENS	us						FARM LABO	NTY TA	CIPIED FA	JEM EXPEND	TURES				Praus		MACHINE PARL	DATE NAME		AGPICULTUPP	
COUNTY SOUT INDICATION	TOTAL NO OF FARMS	OPERATOR V	3 08 MORE	INFAID AMILT	NIZED WO	REESS - NUM 7D WORE 130 + DATS	TO WORE 1835 THAN 130 DAYS	MECHINA	M EXPENDIT		MOUNT	47701139 409	FAEMS BEPORTING ANY LABOR	MONTHLT BASIS	ED PERSON	OAILY BASIS	T46 SUMM	MACH MACH PIECE WORE MASIS	10	CHICAL	2		
TOTAL	_	(2 IN 34) 2	(3 IN 34)	4	(38-39)	(40-41)	(43-43) 7	(10-31)	(22-26)	(27 3)	11	(32-35)	114 19 104 10 00 01 10 10 10 00 01	BASIS 44 431 12	(32 531 16	8A3(3 (80-61)	8A515 (67-68) 16	(72-73) 17	10	19	20	31	n
									*		- V												
CENS	BUREAU OF	OF COMM	sus		ï			ACRES O	COU CIAL FERTILIZI N WHICH US	NTY TA	ED, AND	USED, TON	, TOTAL C	OST AND			TAG	MACH	WACHINE TAB	DATE NAME	n	a GPICULTUP	
SORT INDICATIO	FARMS	40 (0)	86) 19	ONS A	A S E D ACRES ON PHICH USED	10N3 (33-35) 3	PLAND PAST ACRES (30-32) 8	0.7 H E & P - 10 HS 129 411 7	4 C F E S (34 - 20)	7 r d C 7 r d C 7 r d C 7 r d S 145 471		TONS 31 531	E USED CROP ACRES (48 50)	6 P U I T S TONS (57 39)	. VED ETC 90183 134 361	0.7 TOH3 163-43	H # # C B O	PS ACPES 60-62:	17	14	10	30	31
							-																
De	PARTMENT	OF COVM	FRCE						COU	NTY TA	BULATIC	N NO. 1	82 - 12					N c	ARD.		-	AGDICULTUR*	
	US OF AG	RICULTURE		LIMP	PUBCHASE	0			AND USE OF	APLE OR SPI	ECIPIED F	ARMS	u	AL FERTI-				MACH	MACHINE TAS		2.		
13 A		serostine El Os Lint	PERMS PERMITING	10H3 66 681	COST (49 72)		ACRES TIMED	ROPS PASTURE		880112 CB	H PB #47 OPS > +0 ≥45	CROPS 80 PU	Com (ce) (se)	13	14	ìF.		16	19	30		21	72
		T OF COM							col	YTNL	TABULAT	TION NO.	121-11				н	CARD	PART	1		#GPICusted	
CEN STATE	ISUS OF A	GRICULTUR	RE 1954	,				OF NEI	REPORTING A	ND NUMBER ND STEERS; I	BY E. D		ODUCTS A	ND NUMBER			: UM:	MACH M MACH	MACHINE 741	DATE NAME			
	HUMBER OP HI(FERS 107AL (23-27) ACC #1	17 BF	NUMBE D7 BVE15 51 178 301	DI DARW	AS HINE	67 Ht 0	e in De in	\$ 92 P O B T 4 N \$ 1125	COL 34 COL	IN 10.9 IN	DALLENS F	POUNOS POU	0 t /H	1 2			15 17	20 29	4HS 32 241	074 75 99	100 199 200	499 300 999	1000 Z**O AHO CNI O41P
n 21		01	acc =	, ,		,	\$, ,	15 6	1 17	13	14 19	п	9 14.		29 31	27	13	14	13 78	., ,	, ,,	и е
	BUREAU C	T OF COM	ISUS						COL RTING AND A RULLS AND ST		CATTLE, D			UMBER			N C	.: -	PART MACHINI FABI			ace-custuet	
		f D (7-8)	(0.0 IN CD1.161	2 4 22 33	ICD4	10 24 23 UMHS 18 21	ON NAND 49 20 99	100 AH2 OVER 0.9 1% COL 34	40 41	,		19 10 14	13 19 1 13 34 341	Q N H A 1 10 29 30 49	50 74 73	100 / NO OVER	CAITE ON RAND	cows	MILE COWS REI	0 1 B E P O B MULLS STREES D E NO B P N 25 COL 29 3 50	CPT 644 MILE SOLO #8370 GA	VS 801118 80 CMUS-NED 18 1811 7 W248 F 80 MD 0 P	TOTAL ZENO CHECK PARMS
<u>'</u>	TOTA		,,	25 27	74	5)	, »			9	5	41 41		0 4	7	a 11	0	b	14 9	3 14			
77		1 01		. "				CRE 55.	—Facsi	mile of			ulatio	n sheet	s—Co	ntinu	ed.				15	1,4	

Man-Hours and Costs for Other Than Personal Services Per 100,000 Farms by Major Functions: 1954 Census of Agriculture

ftem	Man- hours per 100,000 farms	Costs for other than personal services per 100,000 farms	Hem	Man- hours per 100,000 farms	Costs for other than personal services per 100,000 farms
Total	206, 123	113, 418	Oentral office processing—Continued		
Preparation of questionnaires and instructions.	174		County tabulations:		
Printing of questionnaires and instructions		5, 617	Supervisory work Technical work	1.010	
Preparing enumerator and crew leader maps Packing and distribution of materials for enumeration	1, 406		Clerical work	9, 021	
Preparing special lists such as of large farms, farms in urban	440	564	Clerical work Rental of equipment Other Feograpic Area tabulations		2, 23
areas, etc.	557		Economic Area tabulations:		3, 13
Planning and central office supervision of enumeration	1, 127	507	Economic Area tabulations: Supervisory work. Technical work Clerical work Rental of equipment Other.	696	
secrating supervisors, etc. for Agriculture Field Offices	287	334	Clerical work	648	
Beneral administration and control of crew leaders and enu-			Rental of equipment	5, 461	1 05
merators—Agriculture Field Offices:	0.040		Other		1, 55
Supervisory work Clerical work Travel Rentai of space	2, 942		Preparation and printing of—		
Travel		2, 907	Preliminary releases:		
Communications and other expenses		973 2, 191	Supervisory work	226	
·		2, 191	Technical work Clerical work	1 207	
Training of crew leaders	2, 258	1, 571	Printing.	1, 191	1, 38
Fraining of enumerators	8, 908 16, 187	2, 048 427	Printing. Volume I (Statistics by Counties, and State Economic Areas):		1,00
Supervision of enumerators Travel	(135, 632	9, 494	Supervisory work	1	
	milae)		Technical work	100	
Enumeration Travel	82, 669 (379, 239	230 26, 547	Clerical work. Printing	8,142	
	miles)	20,011	1 Offithe II (Signishes by Subject for Divisions and States):		4, 286
Beneral field direction and control—Regional Field Offices:			Supervisory work Technical work Clarical work	152	
Supervisory work	844		Clerical work	109 1, 584	
Technical work Checking enumerators — k and preparing payrolls	113		Frinting	1,004	89:
Other elerical work	2, 885 640		Special reports: Supervisory work	1	
Other clerical work Travel.	(9, 935	695	Technical work	1.684	
	miles)	1 101			
Communications Other (space, etc.		1, 191 1, 051	Other		2, 626
		.,	Printing Other Evaluation program	1, 849	1, 90- 217
Central office processing Receiving, arranging by Minor Civil Division and mis-			General administration and miscellaneous services:		
cellaneous checking.	2, 594			244	189
	1, 158		1'rocurement of supplies and services	1, 388	
Supervisory work Technical work Clerical work	792	1, 038	Overall direction Procurement of supplies and services Personnel. Listisportation Budgeting. Accounting and payrolling. Purebase and repair of general use equipment. Telephone and communications for control officer.	857	2, 688 2, 793
Clerical work	9, 434		Budgeting	118	2, 79
Punching and verifying tabulating cards:			Accounting and payrolling	1, 793	
Supervisory work	592		Telephone and communications for central offices.		3, 277 5, 582
Supervisory work Other clerical work Rental of equipment	7, 859				
Tabulating cards		2, 136 918	Rental of space for central office processing Informational activities		3, 055
Other		14	Maintenance of general central office files	200 727	39
Selection of cards with probable errors, checking and cor-			General administration of central office processing except		
recting cards prior to tabulation:			tabulation General administration for tabulation	2, 224 1, 232	1, 193
Supervisory work	526		MISCELLABEOUS AGINITUSTRATIVE SETVICES	570	1, 152 5, 588
Technical work	396		Social Security and other taxes		3, 321
Clerical work. Rental of equipment. Other	4,021	479	Other	1, 919	2, 407
Other		275			

FIGURE 56.—Table of Costs.

	.,
	44

*	

15.0		
		,
•		
	•	

™ :-			

674Y 676Y 617 617 617 618 618 618 618 617 617 618 618 618 618 618 618 618 618 618 618			
2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3			
	1		