

PARED BY THE BUREAU OF BUSINESS RESEARCH, COLLEGE OF BUSINESS ADMINISTRATION

## POPULATION COUNTS AND ESTIMATES: PLANS AND PROSPECTS

roughout the country newly-opened offices are bustling with ity as preparations take place for the largest head count in ry. Next month forms will go into the mail, and the 1970 us will be under way. Despite plans for much greater use mail-out, mail-in system, press reports indicate that 12,000 leaders, 160,000 census takers, 393 district managers, and 00 office workers will be needed to do the job nationally. borate plans have been made to make this also the most acceed census in history. The Census Bureau recognizes that has been substantial under-enumeration in previous counts,

very effort is being made to overcome this problem. There hearly 4,000 pages of instructional and reference material manuals and handbooks which will be used by those involved cing the census. There are also 60 training guides that con-

another 10,000 pages, plus hundreds of practice exercises, ing questionnaires, and review tests.

ril 1 has been designated as the actual census date. An att will be made to count each person as of his place of per-

ent residence on that date. Students away from home will be sed at their place of residence while attending school. Transwithout a place of permanent residence will be counted they are found.

everything goes according to schedule, this will not only be argest and most accurate census in history, but the results be available more promptly than ever before. Most of the led figures for Nebraska should be ready for use within six hs after the census date.

s greater promptness will be possible because this time it

not be necessary to wait for printed booklets. The data will railable first in computer tape form, and much of the inform on the tape will never appear in printed form. Plans are under way on both the Lincoln and Omaha campuses of the crisity for acquisition and immediate utilization of these tapes. Herous meetings have already taken place to plan methods of the new census data. One of these was a Regional Workshop at the University of Kansas last March, at which Nebraska represented by William Ho of the State Department of Eco-

tician for the Bureau of Business Research, who is the auof the article on the inside pages of this issue describing detailed aspects of the 1970 Gensus. the American population becomes ever more mobile, as the

er at the University campus in Omaha, and Alfredo Roldan,

of advances in technology accelerates, and as the need for the ate, up-to-date information for use in planning by private ess and government agencies becomes more acute, the rapid

obsolescence of census data becomes more obvious. With the lengthening of the years since the 1960 census our Bureau, for example, has found itself less and less capable of responding with meaningful figures to the daily requests for information that come from business, government, and the general public. Thus the 1970 data are eagerly awaited, and serious consideration is being given to the necessity of taking a national census every five, instead of every ten years.

The problems stemming from the lack of recent official data, including in our own state the problem of legislative reapportionment, have been met to some extent in recent years by annual population estimates of state totals by the Census Bureau and of county and city totals by state and local agencies. In some states conflicting estimates are being made by different agencies, and there is no agreement between state and Federal estimates.

To overcome this problem of lack of uniformity the Census Bu-

reau has initiated a Federal-State Cooperative Program for Local Population estimates. The objective is the development of state-prepared county population figures using methods mutually agreed upon by the states and the Census Bureau. The program calls for a large-scale test and evaluation study to be carried out when 1970 census results become available and for publication by the Census Bureau of the state-prepared annual county estimates.

Thus far 45 of the 50 states have begun active participation in this program. In Nebraska the Governor has designated the Department of Economic Development as the coordinating agency and the Bureau of Business Research as the agency to carry out the technical phases of the program. Representatives of the Bureau were in attendance at a week-long Workshop in Washington last November to consider and experiment with the different methods available for making the county estimates.

The Bureau is now engaged in collection of data and calculations of its regular annual population estimates for cities and counties as of the end of 1969, using the same methods uniformly applied during the sixties. In recent years these methods have resulted in a state total substantially higher than that estimated by the Census Bureau. Our figures will be published in April, and within a few months thereafter we will know how well they conform with the actual 1970 census.

In this connection it is interesting to note that the most recent revised estimates of the Census Bureau are higher than those previously published and thus reduce the discrepancy between their figures and ours for the state total. The estimates are:

Census Bureau, July 1, 1968

1,453,000

Census Bureau, July 1, 1968 1,453,000

Bureau of Business Research, December 31, 1968 1,501,516

Census Bureau, July 1, 1969 1,449,000

E. S. WALLACE

## THE 1970 CENSUS OF POPULATION AND HOUSING

The first U.S. census of population was taken in 1790, and a census has been taken every ten years since, undergoing a constant rocess of change and improvement. No census has been a mere expetition of the previous one, and the 1970 census will have its was peculiar features. An explanation of the next census can best egiven by means of comparisons with the others, in particular ith respect to the 1960 census. These comparisons will be made a terms of items included in the questionnaire, methods used to oblect data, and processing and delivering of these data. Items in the Questionnaire. In terms of these items there will be

there slight differences between the 1970 and the 1960 censuses: The dominant tone through most discussions of improvement of the 1970 product by users was for a greater exploitation of the cisting (1960) items on the schedule, by more intensive crossibulation, and by providing additional data for small areas. It is in 1960 there will be relatively few items in the complete-punt schedule and more in the fractional sample schedules. Takes I and II list population and housing items included in the 1960 and 1970 schedules.

Collection of Data. With the idea of reducing the number of

numerators, heavy reliance will be put in 1970 on the "mail-out, hail-back" or "census-by-mail" system attempting to cover about 0 to 65 percent of the U.S. population living in larger metropolitan areas and some adjacent counties. Enumerators will intriview only the nonrespondents or those respondents who have eturned incomplete questionnaires. The rest of the country, he "non-mail areas," will be covered by personal interviews. Even in the non-mail areas, however, the mail carrier will make an advance distribution of unaddressed complete-count schedules in order to make use of the self-enumeration technique. The numerator will have to complete only the supplementary schedules, which will be presented at a carefully selected representative sample of residences.

Processing the Data. One of the most striking development aths of recent censuses has been opened by the computer revoluon. The first attempt to use electronic computers in the proessing of census data goes back to the early 1940s. As far as roduction of data is concerned, the 1960 census was fully comuterized. For the 1970 census the purpose is to speed up this rocess and make it more reliable. With this idea, the respondnt of the complete-count questionnaire will have only to blacken ircles that can be read and converted into bit patterns of magetic tape by FOSDIC (Film Optical Sensing Device for Input to Computers) machines. Once in magnetic tape the data will be lectronically edited (spotting missing or inconsistent informaion). Edited data will go in basic record tapes which will not e available for public use because they will contain confidential nformation. Any subsequent tabulations, whether general or pecially ordered, will have first to pass releasability tests to ssure confidentiality and reliability.

Delivering the Data. As stated in the Users Guide (p. 43), one endency is that the censuses of population and housing become more a flexible data base, from which a variety of data products and services may be obtained, than a set of standard tabulations. In the spirit of the computer revolution, moreover, another tend-

1970 Census Users Guide, Data Access and Use Laboratory, Bureau of the Census, U.S. Department of Commerce, p. 15. All further references are to the same publication.

ency is to simplify the work of the census users with access to electronic computers. To achieve this purpose, greater emphasis than in 1960 will be put on magnetic tapes as delivery media. No doubt the cost of a tape will be substantially higher than that of a printed report, the former "ranging from a few hundred to a few thousand dollars, depending on the number of tapes desired" (p. 51), as compared to the cost of a few dollars for a printed report. But for investigators who are going to work with electronic computers anyway, there will be a considerable saving of time, work, errors, and money, using tapes rather than printed reports, because the former are machine readable and the time-consuming and error-prone step of preparing cards is avoided.

An additional advantage of tapes over printed reports is their earlier availability:

1970 Census summary tapes will become available very soon after Census Day. The first tapes provided will be the <u>First Count Summary Tapes</u> containing final complete-count population and housing data for states, counties, congressional districts, minor civil divisions, places, census tracts in tracted areas and enumeration districts in non-mail census areas or blockgroups in mail census areas...There will be about one reel of tape for each state, the summary tape for the first state processed becoming available by July, 1970, and the last state by the end of 1970 (p. 50). (Continued on page 3)

	TABLE	I		
POPULATION	ITEMS	IN	1970	CENSUS

Percentag	e of F	Iouseholds
Sampled	for E	Cach Item
	1960	1970
Relationship to head of household	100	100
Color or race	100	100
Age (month and year of birth)	100	
Sex	100	6.6
Marital status	100	
State on country of hinth	25	20
State or country of birth		20
Years of school completed	25	
Number of children ever born	25	
Activity 5 years ago		20
Employment status	25	
Hours worked last week	25	
Weeks worked last year	25	
Last year in which worked	25	
Occupation, industry, and class of worker	25	20
Income last year:		
Wage and salary income	25	20
Self-employment income	25	20 <sup>1</sup>
Other income	25	202
Country of birth of parents	25	15
Mother tongue	25	15
Year moved into this house	25	15
Place of residence 5 years ago	25	153
School or college enrollment (public or privat	e) 25	15
Veteran status	25	15
Place of work	25	15 <sup>4</sup>
Means of transportation to work	25	15
Occupation-Industry 5 years ago	_	5
Citizenship	_	5
Year of immigration	_	5
Marital history	25	5 55
	25	
Vocational training completed	-	5
Presence and duration of disability Mexican or Spanish origin or descent	-	5 5 5

lSingle item in 1960; two-way separation in 1970 by farm and

non-farm income. 2Single item in 1960; three-way separation in 1970 by social security, public welfare, and all other receipts.

<sup>&</sup>lt;sup>3</sup>This item is also in the 5-percent sample but limited to state of residence 5 years ago.

<sup>&</sup>lt;sup>4</sup>Item will be expanded to include street address where the appropriations for the 1970 censuses make this possible.
<sup>5</sup>In 1960, whether married more than once and date of first marriage; in 1970 also includes whether first marriage ended by death of spouse.

(Continued from page 2)

information.

UNIVERSITY OF NEBRASKA

State tapes will become available in increasing order of population, so that on this basis Nebraska will have the priority of its small population.

Still another advantage of the tapes over the printed reports is the fact that they will contain a substantially greater amount of

The First Count Summary Tapes contain substantially more data than printed (or available tape) in 1960 or to be printed in 1970, and include summaries for much smaller geographic areas (tracts, enumeration districts, or blockgroups). Also the tapes have the advantage of carrying both population and housing characteristics (p. 54).

Delivery media other than tape and printed booklets will be microforms (microfilms or microfiches), which were introduced in 1960, although they were not then the generally available media they are meant to become in 1970. Because of the small storage space required, microforms will be especially advantageous for libraries.

#### TABLE II HOUSING ITEMS IN 1970 CENSUS Percentage of Households

Sampled for Each Item

207

5

5

5

5

5

5

5

5

5

5

5

5

1970

1960

Number of units at this address	-	$100^{1}$
Telephone	25	1002
Access to unit	100	100
Kitchen or cooking facilities	100	_
Complete kitchen facilities	-	100
Condition of housing unit	100	-
Rooms	100	100
Water supply	100	100
Flush toilet	100	100
Bathtub or shower	100	100
Basement	20	100
Heating equipment	25	20
Tenure	100	100
Commercial establishment on property	1003	100
Value	$100^{3}$	100
Contract rent	1003	100
Vacancy status	100	100
Months vacant	25	100
•••		
Components of gross rent	25	20
Year structure built	25	20
Number of units in structure	20	20
Whether a trailer	25	20
Farm residence (acreage and sales of		
farm products)	$25^{4}$	20
Land used for farming	25 <sup>5</sup>	-
Source of water	204	15
Sewage disposal	20 <sup>4</sup>	
Bathrooms	20	15
Air conditioning	5,	15
Automobiles	206	15
300 MODE (MANAGEMENT AND		

Stories, elevator in structure

Clothes washing machine

Bedrooms

Second home

Clothes dryer

Home food freezer

in mail areas.

Dishwasher

Television Radio

Fuel--heating, cooking, water heating

7Collected only in places of 50,000 or more inhabitants.

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Business firms and other agencies that plan to make detailed use of 1970 Census data will find the following readily available publications highly informative and useful: 1970 Census Users Guide and Guide to Census Bureau Data Files and Special Tabulations. Both were prepared by the Census Bureau in 1969 and may be ordered from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402, or from any of the Field Offices of the Department of Commerce. The December, 1969, issue of the Monthly Labor Review may also be helpful.

ALFREDO ROLDAN

BEST WISHES TO MRS. SCHIEFEN

The many readers who have known Mrs. Katherine Schiefen in her more than 42 years of service as secretary to successive deans of the College of Business Administration will no doubt be pleased to join Business in Nebraska in this expression of appreciation to her on the occasion of her retirement. Mrs. Schiefen's years of devotion assure her continued interest in the College and the University. As she leaves her post she takes with her the best wishes of a host of friends and associates as well as of the students and faculty members who have known and worked with her through the years.

### CENSUS DATA AS A PLANNING TOOL

The following excerpts from an article by Mr. Robert T. Perdue, Vice-President of the South Carolina National Bank, are reprinted by permission from the October, 1969, issue of the South Carolina Business and Economic Review.

During the 1960s there has been a growing emphasis on formal planning as a means of organizing and directing the use of resources. Planning by business enterprises in one form or another probably always has been done, although often on an informal basis. Recent studies conducted by the National Industrial Conference Board and the American Management Association indicate a sharp increase in the number of firms engaged in a deliberate and systematic planning process. Due to the long lead time required to purchase, construct, and assemble the necessary plant and equipment to produce a good or service, most industries must formulate plans which stretch over a considerable time span.

There are several inputs to the planning process. Estimates concerning technological change, future availability and sources of capital, manpower resources, and the potential political, economic, and social environment in which the company must operate are typical of the range of inquiry required in any long-range planning effort. One of the basic (Continued on page 6)

<sup>1</sup> To be collected only for coverage check purposes; will not be tabulated. <sup>2</sup>Required on 100-percent basis for field follow-up purposes

<sup>3100-</sup>percent in places of 50,000 or more inhabitants, 25percent elsewhere.

Omitted in places of 50,000 or more inhabitants. <sup>5</sup>For renter-occupied and vacant-for-rent units outside

places of 50,000 or more inhabitants. 620-percent in places of 50,000 or more inhabitants, 5percent elsewhere.

U R N M 1 G

#### - Business Summary -

Nebraska's business activity indexes for November, 1969, showed ume index rose about 1 percent above that recorded in November, 1968. The Physical Volume index increased by about one-half

of one percent for the same period. The "slowdown" was due

primarily to the much lower level of Construction activity in No-

paper Advertising. Cash Farm Marketings showed a 30 percent cent above that of last year.

increase for the period, for the largest gain among the individual indicators.

The United States Physical Volume and Dollar Volume indexes very little gain over those of the previous year. The Dollar Vol- rose 3 percent and 8 percent, respectively, for the period November, 1968, to November, 1969. However, the indexes for both the United States and Nebraska showed seasonally adjusted declines from the previous month.

December Retail Sales were 15 percent higher than in the same vember, 1969, than in November, 1968. Other indicators showing month a year ago, with all categories showing increases for the year-to-year declines were Bank Debits, Retail Sales, and News- period. Hard Goods were strong as a group with a level 24 per-

Percentage of 1948 Average

U.S.

1968-69

231.1

232.9

232.7

239.6

238.1

240.0

240.7

243.3

243.7

240.1

239.9

243.1

238.1

Nebraska

1968-69

201.4

203.6

216.1

231.1

223.9

224.8

219.6

225.0

219.1

218.2

218 0

214.6

206.4

All figures on this page are adjusted for seasonal changes, which means that the month-to-month ratios are relative to the normal or expected changes. Figures in Table I (except the first line) are adjusted where appropriate for price changes. Gasoline sales for Nebraska are for road use only; for the United States they are production in the previous month. R. W. WHITE II. PHYSICAL VOLUME OF BUSINESS

onth

Month

November

December

January

March

April

May

June

July

August

October

September

November

February

## I. NEBRASKA and the UNITED STATES

#### Percent Percent of Same Percent of

40 V	of 1948 Average Month a Year Ago. Preceding M
Business Indicators	Nebraska U.S. Nebraska U.S. Nebraska U.

S. 309.9 395.2 101.3 108.0 Dollar Volume of Business 91.8 96.1 206.4 238.1 100.6 Physical Volume of Business 103.2 96.2 97.9 202.4 415.8 99.0 108.7 81.3 98.1 Bank debits (checks, etc.) Construction activity 201.3 171.2 65.9 98.6 94.6 100.0 183.2 97.1 96.4 90.6 144.2 99.2 Retail sales 101.4 98.4 426.9 433.1 112.1 Life insurance sales 86.0

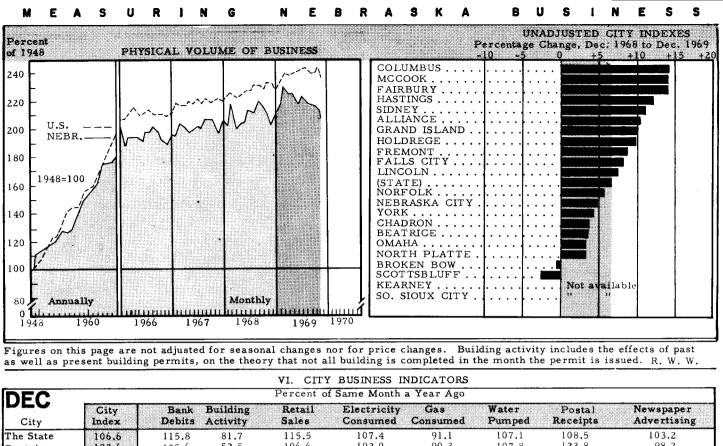
Cash farm marketings 205.5 153.5 130.1 99.4 103.1 101.9 423.5 520.8 103.2 106.7 100.5 99.8 Electricity produced 165.0 96.0 97.2 105.1 164.5 107.5 Newspaper advertising Manufacturing employment 179.7 130.7 105.4 101.0 102.5 99.3 150.2 174.3 103.2 103.4 100.9 100.3 Other employment 102.0 Gasoline sales 203.0 244.5 104.2 102.6 101.4 III. RETAIL SALES for Selected Cities. Total, Hard Goods, and Soft Goods Stores. Hard Goods include automobile, building

material, furniture, hardware, equipment. Soft Goods include food, gasoline, department, clothing, and miscellaneous stores. Percent of Same | Percent of Percent of Same | Percent of | DEO

DEC No. of Reports	Month a Year Ago		Preceding DEC		Month a Year Ago			Preceding			
	Total	Hard Goods	Soft Goods	Month Total	City	No. of Reports	Total	Hard Goods	Soft Goods	Month Total	
THE STATE	664	115.5	123.8	113.0	111.5	Fremont	<b>2</b> 5	113.2	122.4	104.9	105.5
			1			Fairbury	24	126.5	144.4	106.4	101.8
Omaha	47	111.8	122.0	103.4	100.4	Norfolk	25	124.4	131.2	118.3	133.4
Lincoln	62	104.3	104.1	104.5	96.1	Scottsbluff	35	117.3	130.7	105.9	112.6
Frand Island	l 27	121.9	128.6	115.7	126.9	Columbus	26	120.8	124.8	116.1	115.8
Hastings	27	113.4	122.7	105.4	91.7	McCook	16	106.7	106.5	107.0	101.0
North Platte	19	118.3	123.0	111.8	147.5	York	21	111.5	129.7	99.3	109.3

#### 

DEC	No. of	Percent of	Percent of	IDEC	Percent of Same Month a Year Ago					
Locality	Reports	Same Month A Year Ago	Preceding Month	Type of Store	Nebraska	Omaha and Lincoln	Other Cities	Rural Counties		
Kearney	16	113.5	121.1	ALL STORES****	115.5	110.3	115.6	120.6		
Alliance	26	117.2	129.8	Selected Services	116.8	119.6	124.7	106.2		
Nebraska City	17	104.3	98.7	Food stores	111.8	109.4	113.3	112.8		
Broken Bow	13	109.9	107.3	Groceries and meats	108.0	107.2	108.9	107.9		
Falls City	16	112.8	117.1	Eating and drinking pl	. 117.1	110.1	120.5	120.8		
Holdrege	16	116.6	129.5	Dairies and other food	ls 118.8	120.5	117.5	118.5		
Chadron	20	125.5	126.8	Equipment	129.4	136.3	126.2	125.8		
Beatrice	16	106.6	103.7	Building material	128.4	129.8	126.7	128.8		
Sidney	22	108.8	143.4	Hardware dealers	115.6	122.3	110.7	113.8		
So. Sioux City	9	121.2	96.7	Farm equipment	164.6	216.1	140.6	137.0		
ŀ		İ		Home equipment	111.5	110.1	126.3	98.0		
Antelope	5	114.4	112.0	Automotive stores	113.1	99.3	115.5	124.6		
Cass	17	112.7	110.8	Automotive dealers	116.7	100.7	119.4	129.9		
Cuming	9	125.2	126.8	Service stations	104.3	93.6	100.1	119.2		
Sand Hills**	21	108.6	108.7	Miscellaneous stores	115.9	108.7	114.8	124.2		
Dodge***	10	122.8	148.2	General merchandise	112.2	111.5	110.0	115.0		
Franklin	9	111.2	107.4	Variety stores	114.7	113.0	115.1	115.9		
Holt	13	119.4	131.6	Apparel stores	119.9	88.0	114.7	157.1		
Saunders	12	121.1	106.7	Luxury goods stores	116.1	114.1	115.6	118.5		
Thayer	8	115.0	112.8	Drug stores	105.1	103.4	106.0	105.9		
Misc. Countie	s 35	121.6	109.6	Other stores	131.1	137.4	136.7	119.1		
ĺ										
**Hookon Cn	ant Dawe	s. Cherry, and S	heridan Counties	****Not including Sele	ctod Commis			<del></del>		



City	Index	Debits	Activity	Sales	Consumed	Consumed	Pumped	Receipts	Advertising
The State	106,6	115.8	81.7	115.5	107.4	91.1	107,1	108.5	103.2
Beatrice	103.6	125.6	52.5	106.6	102.0	90.3	107.8	123.8	98.2
Omaha	103.4	114.8	67.0	111.8	108.0	88,8	100.4	117.7	93.3
Lincoln	107.4	123.9	133.9	104.3	106.8	87.7	108.5	92.5	110.1
Grand Island	110.0	118.2	65.3	121.9	104.7	111.3	113.9	100.4	
Hastings	112.1	120.4	137.7	113.4	108.5	88.9	131.7	106.0	106.1
Fremont	108.6	114.7	91.7	113.2	106.0	NA	104.7	110.6	NA
North Platte	103.4	110.7	48.0	118.3	106.7	78.6	99.7	120.8	96.7
Kearney	NA	NA	NA	113.5	113.2	NA	NA	NA	NA
Scottsbluff	97.4	93.6	63.2	117.3	112.9	102.6	96.8	93.5	96.4
Norfolk	105.6	108.7	50.5	124.4	108.0	91.1	93.7	111.8	115.6
Columbus	114.2	122.9	157.8	120.8	116.6	9 <b>2.</b> 7	99.1	111.2	108.0
McCook	114.1	123.9	197.6	106.7	104.3	81.2	NA	156.0	111.7
Sidney	111.1	116.0	104.7	108.8	109.8	114.6	142.6	96.9	NA
Alliance	110.4	134.4	71.4	117.2	103.9	104.3	116.0	126.7	89.2
Nebraska City	104.8	113.4	87.0	104.3	106.7	89.6	128.1	103.3	NA
So. Sioux City	NA	NA	NA	121.2	NA	NA	NA	NA	NA
York	104.4	129.4	59.6	111.5	116.0	91.6	96.3	96.1	113.8
Falls City	108.2	100.5	950.9	112.8	114.0	105.5	116.6	96.6	98.0
Fairbury	114.1	96.4	129.5	126.5	104.5	NA	111.4	95.2	162.1
Holdrege	109.8	116.1	195.1	116.6	109.3	109.2	99.4	104.6	85.5
Chadron	103.8	101.0	35.7	125.5	74.5	108.7	130.1	101.6	NA
D 1 D	00.4	00.1	1400	100.0	101 6	80.2	100.7	82 1	105.4

INCOLABRA OLO	102.0	113.1	01.0	101.5	20011	-,			5.655			
So. Sioux City	NA	NA	NA	121.2	NA	NA	NA	NA	NA			
York	104.4	129.4	59.6	111.5	116.0	91.6	96.3	96.1	113.8			
Falls City	108.2	100.5	950.9	112.8	114.0	105.5	116.6	96.6	98.0			
Fairbury	114.1	96.4	129.5	126.5	104.5	NA	111.4	95.2	162.1			
Holdrege	109.8	116.1	195.1	116.6	109.3	109.2	99.4	104.6	85.5			
Chadron	103.8	101.0	35.7	125.5	74.5	108.7	130.1	101.6	NA			
Broken Bow	99.4	90.1	168.9	109.9	101.6	89.2	100.7	82.1	105.4			
DEC Percent of Preceding Month (Unadjusted)												
City	City Index	Bank Debits	Building Activity	Retail Sales	Electricity Consumed	Gas Consumed	Water -Pumped	Postal Receipts	Newspaper Advertising			
The State	108.7	124.5	99.7	135.8	107.2	111.5	102.3	83.6	113.8			
Beatrice	114.1	121.2	106.2	122.7	106.0	124.7	93.1	106.4	149.5			
Omaha	109.8	122.7	107.4	116.6	110.5	100.9	104.7	143.2	94.0			
Lincoln	110.6	127.9	106.8	110.7	104.2	110.1	98.0	114.6	118.1			
Grand Island	115.8	129.3	88.1	144.5	104.5	142.9	108.9	100.8				
Hastings	115.8	134.2	78.3	105.6	NA	NA	108.5	125.0	124.2			
Fremont	107.5	114.3	95.8	122.5	117.4	NA	101.7	96.9	NA			
North Platte	118.5	116.1	102.4	172.4	106.6	122.5	100.2	139.8	128.9			
Kearney	NA	NA	NA	140.5	114.7	NA	NA	NA	NA			
Scottsbluff	117.0	136.0	83.5	130.1	91.4	119.4	9 <b>7.</b> 1	121.4	132.6			
Norfolk	116.4	126.8	81.8	152.6	80.1	138.0	104.9	113.0	121.0			
Columbus	116.2	125.6	95.5	134.0	100.6	120.9	106.3	124.5	112.9			
McCook	123.2	128.8	86.6	118.7	102.3	128.2	NA	206.0	122.8			
Sidney	108.1	111.2	92.7	167.7	89 <b>.2</b>	120.3	59.8	141.5	NA			
Alliance	117.0	119.2	89.8	147.9	113.3	118.4	97.6	221.6	117.0			
Nebraska City	103.5	127.6	68.5	113.5	100.0	97.1	77.5	137.2	NA			
So. Sioux City	NA	· NA	NA	116.5	NA	NA	NA	NA	NA			
York	110.8	134.3	93.9	126.9	98.9	129.9	95.2	91.2	122.4			
Falls City	118.1	117.8	84.2	136.3	115.6	140.9	94.5	139.5	102.7			
Fairbury	113.9	125.9	83.4	117.3	116.2	NA	108.2	96.6	137.3			
Holdrege	122.8	151.2	111.2	148.9	93.4	127.5	88.4	172.9	103.7			
Chadron	111.6	83.6	65.0	149.5	104.7	114.4	115.7	153.7	NA			
Broken Bow	115.5	103.6	68.1	125.9	110.5	134.3	100.0	142.3	121.9			
<u></u>												

ough the findings of each census are of considerable value private sector, the basic need for a 10-year enumeration from the public sector, specifically, the United States Conon which sets forth that representatives to Congress are pportioned among the several states according to the numpeople in residence. The greater involvement of the Fedovernment in the economic and social life of the nation, er, created the need to obtain more information than is proby the few simple questions stemming from the constiturequirement.

is not to imply that questions are included in the census

onnaire without rhyme or reason or at the request of any

cocess is data derived from the census. Without this in-

ion, the output of the best planners would tend to be largely

informational inputs to the plan-

al agency. Before inclusion, questions must conform to ines established by Congress and the Federal Reports Act 2. In order to insure validity and appropriateness, potential ons must be submitted to the Bureau of the Budget for rend approval. Use by the Public Sector Federal Government has first priority with respect to uestions should be included in the census. Congress and

n to the problems of poverty, unemployment, racial dis-

ation, urban blight, inadequacy of housing, manpower train-

# ministration cannot begin to formulate an intelligent ap-

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ture and, perhaps, irrelevant.

nd other related economic and social problems without knowledge of the size and scope of the problem as proby census data. Population, education, and housing charstics generated by census returns provide a basis for dening the nature and cost of solving these problems. For le, age data are used for planning major government proin health, education, and social security. Replies to a lestion this year relating to the respondent's occupation ears ago are needed as planning input to programs for mandevelopment and can be viewed also as an indication of

is needed by the Federal government if it is to deal efely with the nation's vital and pressing needs in the houseir planning efforts, state and local governments, of course, ore interested in data on relatively small geographic areas. ensus Bureau provides information on Standard Metropolitan cical Areas, on a county basis and, for many areas, on levels that of a county, e.g., on the basis of census tracts (which nall, well-defined geographic areas). In cities of 50,000 or statistics will be published on a block-by-block basis. This

obility. Information on the condition of homes and apart-

ts a detailed analysis of wards, subdivisions, and school cts. Population statistics for small areas are particularly tant as indices of need when planning for water and sewage ies, urban redevelopment, and manpower retraining. In planning efforts, school districts are interested in the size ge composition of the school-age population. With this intion it is possible to project school enrollment and faculty ilding requirements.

me statistics are equally as important as population stas to governmental agencies. Some Federal grants are alloto lower levels of government under the Economic Oppor- from American citizens.

lengthy. General census population data, such as size and location

cations for new industries.

ner-city, suburb, and rural), are basic inputs to almost e business's planning process. Consumer goods manufactus retailers, and service groups, however, need to know the cial and economic characteristics of the various strata o population. Census data on age, sex, marital status, yea

tunity Act of 1964 and the Elementary and Secondary Educ

Act of 1965 on the basis of income data developed from the

sus. Population size, age composition, occupation, occupation, five years ago, and distance and means of transportation to p

of employment provide information of considerable signific

to every level of government involved in transportation plans

The above data, along with other census-based information,

as educational levels and vocational training completed, also

sist state development boards as they attempt to find the bes

Use by the Private Sector

Census data are of inestimable value to market research

cialists and planners in private industry. If these people

their wish, the questionnaire for each household would be a

tation to work provide this information. It is easy to un stand how a merchant contemplating opening an additional let in a suburban shopping center would need to know such Beside helping the merchant to decide whether or not to le there, the data could assist him in deciding the general to of credit to be extended and what the store hours should be.

sus information also is valuable to an oil company attempti

locate a service station, to a bank seeking to establish a bra

and to a supermarket or discount house considering expan Of particular help to the research effort of such organiza

is that data are available for areas as small as census trac

school completed, number of children, family income, se

or college enrollment, place of work, and means of trans

The food processing industry made extensive use of census in its marketing decision to develop convenience foods. Potion items relating to age and sex, marital status, education l number of children, employment status, hours worked, occupa and income, along with certain housing items such as data on of fuel used for domestic purposes, and ownership of automob home freezers, washing machines, dryers, and television

were particularly relevant. Another significant factor wa

number of working wives. Women with limited time to pre

family meals were a logical market for prepackaged, froze

precooked food products. The concept was field tested and

fined; today the growing variety of convenience foods is evid

Concluding Comments

It is difficult to speculate on the degree of influence that co data have had upon America's economic and social environ via its utilization in the planning process. Certainly, the qu of life has been improved because of the availability of ce

data to public and private planners. Although there have some complaints voiced recently about the possible infringe upon a family's privacy because of the apparent personal n

of some census questions, it still seems that the potential ber from the census data justify the request for detailed inform

of its success.