Prepared by the Bureau of Business Research, College of Business Administration

THE FUTURE OF THE PLAINS

The following analysis by James Alcott, Director, Economic Development Division, Midwest Research Institute, Kansas City, is condensed from his report to the 21st annual meeting of the Board of Trustees of that organization and reprinted by permission. The 1975 projections of population and economic activity are based on forecasts by the National Planning Association Center for Economic Projections, Washington, D.C.

The logical starting point for a regional analysis of this kind is with population, because people are both the basic ingredient and the object of economic growth. The six states selected for this study - Nebraska, Iowa, Kansas, Missouri, Oklahoma, and Arkansas - have grown, and will continue to grow, less rapidly than the rest of the nation. A significant point to note, however, is that the rate of growth is increasing, while the rate of growth for the nation as a whole is not. During the 1950's, they grew at about 0.6 per cent annually, less than one-third the national rate. During the 1960's and 1970's, the rate should be nearly one percent annually, which is two-thirds the national rate, and, on a relative basis,

1950-'60	Nationally	1960-'70	Nationally
1. Kansas		▶l. Nebraska	28
2. Missouri	34	2. Kansas	30
3. Nebraska	38	3. Missouri	33
4. Oklahoma	40	4. Oklahoma	38
5. Iowa	41	5. Iowa	43
6. Arkansas	48	6. Arkansas	48

DANK OF DODILI ATION CROWTH

twice as fast as the growth of the 1950's.

Nebraska will have the highest growth rate of these states between now and 1975, and it is the only state to better its rank among the 50 states appreciably in terms of growth rate. Arkansas will have the lowest growth rate, and its rank is unchanged. The most populous state of the six, Missouri, will have just over two percent of the nation's population in 1975. Nebraska, the smallest, will still have under one percent.

POPULATION GROWTH ANALYZED

In the period 1950-1960, the region had a population increase of about 900,000 persons. Had we grown at the overall national rate, the increase would have been three times as great. By the early 1970's, the gap will have been narrowed somewhat. If these states were to equal the national growth rate, the population would be up by 3.6 million. The projections are that the increase will be just over 2 million. The relative gap, then, is 1.6 million over the 15-year period, whereas at one time it was 2.5 million in the 10-year span between 1950 and 1960.

The great demographic trends today have to do with urbanization and with age composition. The midwest has been lagging the nation in urbanization, but it is now catching up. In 1960, the six states were only 58 percent urban, compared with 70 percent for the nation. By 1975, they should be 66 percent urban versus 76

	PERCENTAGE	OF URBAN	POPULATION	
		1960		1975
Kansas		61%		70%
Missouri		67%		72%
Iowa		53%		60%
Nebraska		54%		63%
Oklahoma		63%		71%
Arkansas		43%		54%
Region		58%		66%
Nation		70%		76%

percent for the country as a whole. The greatest relative urban growth will take place in the least urbanized state of the region, Arkansas; and the smallest urban growth will be in Missouri, the most urban of these states.

This growth will occur in existing urban areas and mostly in the suburban areas of the larger cities. It will be marked in many of the smaller cities of the region such as Springfield, Missouri, and Fort Smith, Arkansas, both of which have developed as major distribution and industrial centers. It also will occur in such college towns as Ames and Stillwater, and in state capitals such as Lincoln and Topeka. This growth will spell private opportunities - in housing and land development, shopping centers, banks. And it also spells public problems - the extension of utilities, services, schools, and other government functions.

The midwest has a rather "expensive" age distribution in its population. The bulk of the population will be under 25 and over 65; groups requiring major public expenditures, but of different kinds. The area distribution differs most significantly from the national in the older age bracket. In 1975, the six-state region will have a larger proportion of its population in this group than will the U.S.

One of the great problems of this part of the country is a perennial exodus of younger people. It shows up dramatically most often in the ranks of the college graduates. In these six states 70 percent of the graduating engineers at the bachelor's degree level leave their "home" state for employment elsewhere.

In the 35-44 age group, the midwest will show a decrease of 280,000 between 1950 and 1975, while the nation will decrease 1.8 million. This hollow reflects two factors: the low birth rates of the 1930's, and, in the midwest, the past-exodus of younger people. Since it is in this age group that industry looks for its future executives, changes in management staffing philosophies will be necessary, especially in the midwest. (Continued on page 4)

Business Summarv =

increased from a year ago with cash farm marketings (+23.7%)

(-6.0%) was the only indicator showing a decrease.

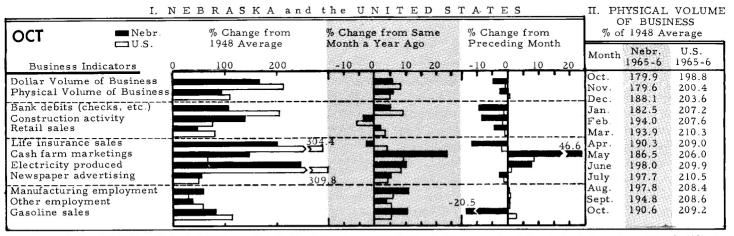
Indexes of city business indicators rose in 21 of 22 cities over

S

Nebraska's retail sales in November increased 10.0% from No-Nebraska's dollar volume of business in October increased 6.5% vember, 1965. The month-ago change, seasonally adjusted, was +4.1%. Of the individual sales categories, building material (-9.7%) from October, 1965 and the physical volume increased 5.9%. Comparable figures for the U.S. were 8.6% and 5.5% respectively. Doland drug stores (-0.3%) were the only categories decreasing from lar volume changes from September, 1966 were -4.6% (Nebr.) and last year. Farm equipment sales, up 34.4%, showed the largest increase. Of the twenty-two reporting cities, thirteen increased -0.3% (U.S.) with changes in physical volume of -2.1% (Nebr.) and +0.3% (U.S.). All of the Nebraska indicators, with the exception from last year with seven of these having increases greater than of construction activity (-3.1%) and life insurance sales (-2.4%), 10%. Only five cities decreased from October, 1966.

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 Chart 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. E. L. BURGESS

showing the greatest increase. In the U.S., construction activity last year. The state index was 9.2% above November, 1965.



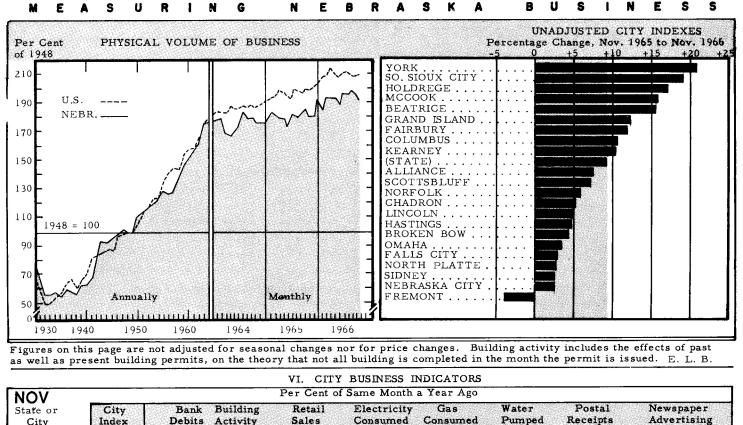
Total, Hard Goods, and Soft Goods Stores. Hard Goods include automobile, building RETAIL SALES for Selected Cities. material, furniture, hardware, equipment. Soft Goods include food, gasoline, department, clothing, and miscellaneous stores.

NOV No. of Reports*	Per Cent of Same Month a Year Ago		Per Cent of Preceding NOV			r Cent o nth a Ye	Per Cent of Preceding				
	Total	Hard Goods	Soft Goods	Month Total	City	No. of Reports*	Total	Hard Goods	Soft Goods	Month Total	
THE STAT	E 919	110.0	111.2	106.9	104.1	Fremont Fairbury	33	84.9	83.3	86.3 100.4	100.1 108.5
Omaha	98	99.1	91.3	105.6	105.3	Norfolk	28 37	98.9 105.4	97.1 106.3	100.4	100.7
Lincoln	91	101.6	103.3	100.2	103.6	Scottsbluff	36	111.0	120.9	102.5	105.5
Grand Islan	d 36	114.2	112.6	115.7	102.1	Columbus	29	104.4	93.5	114.2	109.7
Hastings	34	95.5	97.6	93.7	103.1	McCook	24	113.3	105.1	120.0	110.0
North Platte	22	101.3	87.1	111.2	96.7	York	34	104.8	108.1	102.1	117.1

NOV Locality	No. of Reports*	Per Cent of Same Month A Year Ago	Per Cent of Preceding Month		
Locality	٠	11 Tour 11go	Month		
Kearney	21	111.4	102.9		
Alliance	29	111.0	110.5		
Nebraska Cit	y 23	111.1	115.6		
Broken Bow	17	99.1	109.7		
Falls City	16	97.3	97.7		
Holdrege	23	108.2	96.4		
Chadron	25	96.2	84.8		
Beatrice	19	92.4	102.5		
Sidney	22	93.0	95.8		
So. Sioux City	15	115.1	106.0		
Antelope	13	122.5	92.3		
Cass	27	99.2	103.6		
Cuming	16	102.1	79.0		
Sand Hills**	27	103.7	100.1		
Dodge***	11	111.4	124.5		
Franklin	10	107.3	122.9		
Holt	14	130.1	121.4		
Saunders	18	109.9	110.8		
Thayer	10	95.4	93.8		
Misc. Countie	s 61	114.3	98.0		

NOV	Per Cent of Same Month a Year Ago						
5 to 17 to	Nebraska	Omaha and Lincoln	Other Cities	Rural Counties			
ALL STORES****	110.0	101.7	106.9	121.2			
Selected Services	107.5	98.5	117.8	106.1			
Food stores	109.5	107.7	109.5	111.2			
Groceries and meats	112.9	111.0	114.3	113.5			
Eating and drinking pl.	104.3	103.3	100.9	108.8			
Dairies and other foods		101.2	106.2	104.8			
Equipment	114.2	90.3	98.5	153.8			
Building material	90.3	83.4	87.5	100.1			
Hardware dealers	104.3	97.8	108.0	107.2			
Farm equipment	134.4	86.8	95.2	221.3			
Home equipment	102.2	95.3	106.2	105.2			
Automotive stores	105.9	102.9	106.2	108.7			
Automotive dealers	107.4	103.6	106.0	112.7			
Service stations	104.0	100.1	107.3	104.7			
Miscellaneous stores	105.0	98.1	107.3	109.6			
General merchandise	100.5	92.8	99.6	109.2			
Variety stores	105.0	100.1	109.2	105.7			
Apparel stores	105.7	98.4	107.7	110.9			
Luxury goods stores	112.7	106.0	110.4	121.7			
Drug stores	99.7	97.2	99.3	102.2			
Other stores	114.8	104.1	132.2	109.1			
Liquor stores	102.9	99.7	108.5	104.7			

*Not including liquor stores ***Outside Principal City **Including Hooker, Grant, Dawes, Cherry, and Sheridan Counties



State or	City	Bank	Building	Retail	Electricity	Gas	Water	Postal	Newspaper
NOV				Per Cent of	Preceding Mo	onth (Unadjus	sted)		
Broken Bow	104.3	115.7	102.3	99.1	107.8	139.8	99.3	95.3	107.7
Chadron	105.1	107.6	94.7	96.2	110.1	133.3	97.7	143.8	NA
Holdrege	117.2	NA	346.8	108.2	109.2	139.7	111.9	101.7	NA
Fairbury	111.8	113.3	22.7	98.9	113.1	121.9	98.9	125.3	131.3
Falls City	102.9	104.0	94.6	97.3	98.9	115.4	101.3	107.4	116.6
York	120.8	121.8	171.9	104.8	105.4	122.5	116.6	122.5	-1 -1
So. Sioux City	119.2	138.5	445.4	115.1	114.2	101.7	NA	109.0	NA
Nebraska City	102.6	120.9	70.8	111.1	107.2	NΑ	107.1	84.8	NA
Alliance	107.5	106.1	82.1	111.0	113.9	144.4	94.2	99.0	113.8
Sidney	102.6	91.8	88.7	93.0	108.2	124.5	139.2	106.5	NA
McCook	115.7	116.0	18.0	113.3	117.9	126.5	NA	107.0	123.3
Columbus	110.6	109.3	65.1	104.4	113.0	121.3	114.0	107.4	112.8
Norfolk	105.7	92.4	70.9	105.4	112.7	119.1	108.9	95.7	124.1
Scottsbluff	107.2	108.0	31.9	111.0	109.8	139.9	133.2	100.1	83.0
Kearney	110.5	107.4	62.3	111.4	112.7	125.6	107.5	115.4	NA
North Platte	102.8	104.8	65.8	101.3	103.2	126.9	98.0	109.9	101.8
Fremont	96.0	109.0	57.7	84.9	NA	NA	106.3	96.8	NA
Hastings	104.9	106.6	72.7	95.5	95.8	120.8	113.5	104.8	112.5
Grand Island	112.4	114.6	37.1	114.2	118.0	137.6	102.2	105.3	
Lincoln	105.0	104.4	39.4	101.6	107.5	108.9	100.9	118.8	106.3
Omaha	103.5	105.9	71.8	99.1	107.8	101.5	97.6	109.8	107.6
Beatrice	115.6	101.2	141.7	92.4	114.8	112.5	132.0	111.6	123.3
The State	109.2	107.4	65.0	110.0	108.4	111.0	95.4	110.1	110.4

Consumed

Consumed

Pumped

Receipts

Index

City

Debits Activity

Sales

Do. Dioux City	1 * ± / • ←	150.5	113.1	113.1					
York	120.8	121.8	171.9	104.8	105.4	122.5	116.6	122.5	-1 -
Falls City	102.9	104.0	94.6	97.3	98.9	115.4	101.3	107.4	116.6
Fairbury	111.8	113.3	22.7	98.9	113.1	121.9	98.9	125.3	131.3
Holdrege	117.2	NA	346.8	108.2	109.2	139.7	111.9	101.7	NA
Chadron	105.1	107.6	94.7	96.2	110.1	133.3	97.7	143.8	NA
Broken Bow	104.3	115.7	102.3	99.1	107.8	139.8	99.3	95.3	107.7
NOV				Per Cent of	Preceding M	onth (Unadjus	ted)		
State or	City	Bank	Building	Retail	Electricity	Gas	Water	Postal	Newspaper
City	Index	Debits	Activity	Sales	Consumed	Consumed	Pumped	Receipts	Advertising
The State	99.9	103.2	94.9	101.1	100.4	134.3	81.7	93.9	106.4
Beatrice	102.5	102.1	91.3	99.7	109.8	162.2	86.9	98.5	116.8
Omaha	100.4	103.6	97.8	101.4	99.0	111.9	88.3	107.4	97.3
Lincoln	101.0	100.6	103.5	100.0	100.3	150.1	76.4	78.3	113.5
Grand Island	105.7	98.7	113.7	98.9	103.1	199.5	88.2	116.8	
Hastings	101.2	112.2	97.2	99.6	91.0	177.2	73.5	99.4	108.5
Fremont	101.9	102.7	94.6	96.8	113.5	NA	87.3	124.4	NA
North Platte	98.6	99.8	81.1	93.6	95.7	175.3	44.3	122.6	105.1
Kearney	94.6	104.2	79.7	99.8	78.9	152.0	65.0	110.8	NA
Scottsbluff	102.4	111.1	90.7	101.7	129.1	165.3	95.6	89.0	101.3
Norfolk	100.0	104.1	84.0	97.4	126.1	159.2	77.7	87.1	111.6
Columbus	104.8	98.6	106.9	106.1	107.7	163.8	74.6	96.5	107.4
McCook	102.8	102.9	84.4	106.0	99.6	192.9	NA	83.5	130.9
Sidney	102.6	92.9	98.4	93.0	116.3	182.2	78.7	134.6	NA
Alliance	109.9	111.8	106.7	110.5	109.6	226.5	61.4	119.8	107.7
Nebraska City	94.6	96.7	86.2	112.2	100.0	NA	93.1	88.8	NA
lo. Sioux City	101,3	101.9	97.4	101.9	107.1	65.9	NA	104.0	NA
York	104.6	103.0	87.2	112.2	94.3	158.2	87.2	111.5	
Falls City	101.9	113.7	106.6	95.1	99.4	145.6	89.6	96.0	105.6
Fairbury	102.8	120.1	88.8	104.5	100.0	139.3	88.9	113.1	93.8
Holdrege	104.0	116.2	161.9	94.0	97.6	212.8	63.9	98.2	NA
Chadron	111.3	122.2	77.2	82.1	105.8	154.5	NA	135.0	NA
Broken Bow	100.1	99.0	99.0	106.4	100.0	183.3	77.3	99.1	102.3

down to 34 percent. rs from now, the economy of the midwest will resemble ely the economy of the entire country, as manufacturing to grow and agriculture to decline on a relative basis. est, however, exhibits some significant differences from al pattern. It is moving in the same direction as the nation in all categories but one. While the proportion of nt in manufacturing will decline slightly for the country e, the midwest will actually increase its proportion of

the production line. Other large increases, in absolute

ll be in government employment, particularly at state

evels, and in services of all kinds. The only significant

vill be in agriculture, which will drop from 18 percent of

vestern employment in 1960, to about 10 percent in the

he 1950's only Kansas tended to have industry growth

eding the national rates for the same industries. During

and 1970's the performance of these six states will ex-

ational level in manufacturing, agriculture, mining, and

construction. Manufacturing is especially important the sizable increase in jobs. Agriculture will actually

ECONOMIC ACTIVITY CHANGING

nomic activity of the national population has been under-

e basic and dramatic changes since World War II, as the noved more toward a service economy. In 1950, 46 per-

working population was engaged in making and producing

agriculture, mining, construction, and manufacturing. ne proportion had dropped to 40 percent, and by 1975 it

from first page)

r jobs than the national trend would indicate. On the , a relatively poor performance in the trade, services, ment sectors will be obscured by fairly sizable absolute in employment. ver to a key question, especially for this region, should uch more apparent in the next decade. The question ill the decline in agricultural employment bottom out? tion of people from the farms has already been tremenboth the national and world demand for food is increas-

y, so it would seem that the two trend lines will meet.

ix states Iowa should have the smallest further decline

PRODUCTIVITY MOVES HIGHER

ural employment.

ductivity is traditionally low.

INCOME INCREASING SLOWLY

nomic structure of the region - measured by output ose resemblance to the composition of employment, but s in productivity among various activities give rise to significant differences. Between 1960 and 1975, for he U.S. gross national product should increase over 80 ith an employment gain of only 29 percent. Gross prodting in the midwest should increase by some 75 percent, ployment gain of only 16 percent. The greatest increase originating in the midwest will be in manufacturing, y transportation, communications, public utilities, and activities. In each of these, new plant and equipment quired, resulting in a more efficient and modern midoductive base. The smaller part of output growth will

higher than the U.S. average of \$3,400 in 1975, although both 1 souri and Kansas will be less than \$100 away from this m mark. As in the past decade, these kinds of increases spell very stantial growth in discretionary income - the dollars availab spend over and above basic necessities. These are the do

tion, is increasing at a slower rate than that of the U.S. The s

with per capita income is more encouraging. Average per capital income is more encouraging.

income (figured in constant dollars) will increase from \$2,00 \$3,000 annually - 50 percent - between 1960 and 1975. Th

about the same dollar increase as is expected nationally, but

still leave the average income about \$400 below the average

No state in the region will have an average per capita inc

that create the huge demand for recreation, travel, education, tural activities, and investment programs. They have cre the "second market" - the market for the second car, the se house, the second television, and all the rest. Today, a family with an income of less than \$3,000 a yes

considered to be living in poverty. Within ten years this \$3 figure (adjusted for inflation) will be standard for each pe

in this region. On a family basis, average income will be \$10,000. The proportion of personal income derived from wages and aries in the midwest will increase as the shift out of agricu continues. A second significant shift upward will occur in trans

payments - income largely derived from government in the of welfare payments and social security benefits. This m increased demands on state and local governments, whose f resources are already strained.

ANALYSIS SUMMARIZED

The region will continue to see a great growth in urban deve

There will be a shift into manufacturing activities, and the out of agriculture will continue. The region will experience a large growth in gross reg

What are the summary points from all this?

Population growth will be concentrated at both ends of the distribution, with a relative shrinkage in the middle. Population growth in the next 10 years should be better than of the 1950's by a factor of two, although it will still trail the

product, but a relatively small increase in employment.

averages in most cases. In looking for the reasons why, it is not easy to pinpoint ca factors. One obvious problem is the heavy concentration in .

only a modest growth in value. Another set of factors is th wholesale and retail trade (which was our largest employed segment in 1960), the midwest is growing at a rate slower than

ROLE OF TECHNOLOGY

Technology is a major determinant of economic growth,

much of the concern about slow growth in the midwest has prop focused on this factor. The technical base of the midwest is as well developed as that in most other regions, and it should

instructive to see what the reasons are. One major factor i

ncreasing magnitude, but an income which, like popula- numbers of scientists and engincers - electronics, aerosp

national average. In services and government, the most rap

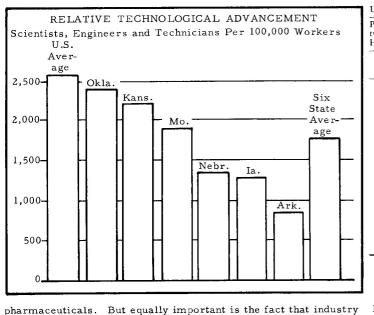
well below average.

rnment and services - both labor intensive activities -

culture, an industry which is losing employment and which si

growing employer categories, the midwest is growing at a

ployment and production will produce a total personal relative absence of industry which by its nature employs l



in the midwest - regardless of kind - employs these technical people in lower ratios than its counterpart in other regions. Half of the deficit is caused by this under-utilization of technical talent.

An important consequence of the low technical base is a regional

inability to retain or attract the technical people needed. Keviews

Modernizing Local Government, a Statement on National Policy, Research and Policy Committee, Committee for Economic Development, New York, 1966. \$1.00. Although the studies listed above have quite different titles, and

State College Supplement to the Atlanta Economic Review, Atlanta,

Georgia, 1966. Paperback. \$1.00.

rather than vice versa.

states.

although each has a different approach to the problem, both books focus attention on the need for elimination of obsolete local governments and the equally urgent need for modernization of functional local units.

The study on small communities does not pretend to be definitive, but it has special merit, as has the CED study, in its description of the functional community and in its emphasis on the need for political boundaries determined by economic and sociological considerations. The author believes that lines of demarcation should be influenced by the problems of living and earning a living,

The need for an effective system of local government is empha-

sized also in the CED book. This study advocates major reforms which would reduce the present 80,000 local governments to no more than 16,000 and would revamp the 50 state constitutions to provide for boundary revisions, extensions of legal authority, and elimination of needless government units. This would in turn cur-

The small community decline problem in Georgia discussed in the book by Professor Renas does not appear to differ significantly from the problem in Nebraska, for both states are undergoing a constant polarization process with the cities growing relatively rapidly while many small communities are gradually disintegrating.

Nebraska small communities which have sought help in attempt-

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There is no question that our region has failed to participate ful-

ly in the unprecedented economic growth of the United States during the last two decades. The indicators now show that our pattern of economic growth will move more closely to the national pattern over a period of time. This should provide an opportunity for the astute, well-informed observer to profit both from the mistakes and the advances elsewhere and to plan profitably for the future.

of the declining community." It sometimes appears that federal

and state agencies have a myriad of competing or overlapping programs; hence there is need to inventory and evaluate the types of

information, research, and planning activities that are now avail-

The Small Community Faces the Development Maze; the Search proliferation of agencies that are attempting to minister to the ills for a Coordinated, Effective Program, Stanley Renas, Georgia

> able from state agencies and private groups, and to make detailed recommendations on the way in which a comprehensive and coordinated statewide planning program to meet the needs of small communities can be carried out. Although coordination between agencies is needed, the study points out that this is only one of many factors affecting failure of the small community to improve itself. Nebraska researchers,

as well as Georgians, have found that the move for improvement must originate with the community seeking help rather than from the agency providing help. A further consideration is that the community must have a function; that is, a small community will die if its present contribution to society is no longer needed and if it fails to find a new function for which society is willing to pay.

The imperative need for functional organization is emphasized

in both studies, but is more definitively analyzed in the CED study

which makes nine specific proposals for reform of obsolete local governments. D. S Customer Services, Karl Morrison, Economics Faculty Publicatail the overlapping layers of local government now found in most tion, University of Mississippi, University, Miss., 1966. Paper-

> Businessmen engaged in retail operations as well as students of retailing will be interested in Dr. Morrison's penetrating analysis of the implications and costs of the numerous types and variations of customer services offered by retail establishments. In discussing trends in retailing, the author predicts that the next

decade will be a period of increasing competitive experimentation

"Parkinson's Law of the Rising Pyramid apparently applies to the

ing to solve their problems have discovered as has Mr. Renas that and that probably tradition will continue to lose influence as a determinant of customer service offerings. He believes that more

back. \$1.00.

specific services, how often they use them, and how insistent they are that specified services be available. Dr. Morrison believes further that more care will be used to find out what direct and

efforts will be made to find out how many customers actually use

imputed costs are attributable to specified customer services -

Retailers will be interested in the author's careful analysis of the pressures toward increasing customer services. He points out, however, that in the same markets and often among the same

and what values.

kinds of stores there will also be strong pressures toward curtailing services because rising operating costs will squeeze margins

in many cases already so narrow that the search for means of reducing or controlling costs exhibits an air of desperation. Accepting the assumption that a retailer's principal business is the sale of services, - an assumption with which not everyone will agree - the author contends that every service should be considered

to be on trial constantly and should be discarded unless there is reasonable evidence that the value it contributes at least equals its cost. He emphasizes that every service is expensive, that customer demand for specific services is frequently overestimated, and that equity requires that the costs of services should be borne as nearly as possible by those who use them. In many cases price

structures exhibit a considerable degree of rigidity and retailers find it inexpedient to set prices much different from those charged by their competitors. For many retailers, services thus become the real battle line in their fight for survival and success. According to the author the principal factors which tend to determine service policies and practices are: cost compared to benefit, customer preference, store character, strategy, merchandise,

competitors, and changes in service demands.

D. S. Store Location and Customer Behavior (Technical Bulletin 56), Claude and Nina J. Gruen, co-authors, Urban Land Institute, Washington, D.C., 1966. \$3.00. A Programmed Solution for Approximating an Optimum Retail Location, David L. Huff, Reprint No. 12, Center for Regional Studies, University of Kansas, Lawrence, Kansas, 1966. No charge.

Because of the growing concentration of population and greatly increased costs of starting up business, the right spot for a new store has become even more of a "make-or-break" decision for retailers than it was in the past.

The two studies here reviewed present techniques for approximating an optimum location of a proposed retail development. Although the techniques are different, both take into account cus-

tomer behavior and consumer demand in relationship to retail The Gruens propose thorough investigation to be done through

questionnaires and personal interviews, and conversion of customer forecasts into sales forecasts. Dr. Huff presents a computerprogrammed solution for the problem which involves calculating, for a set of potential locations, the net operating profit of each and

then selecting from among this set that particular location at which the net operating profit is greatest. Dr. Gruen, an urban economist on the senior staff of the San

Francisco office of a consulting firm, Arthur D. Little, Inc., and Mrs. Gruen, a consulting social psychologist to the same firm,

have devised a new approach to locating retail facilities which is based on analyzing the behavior of specific groups most likely to 1. Definition of the customer base. Questionnaire data and able research techniques are used to identify customer potential and actual. 2. Determination of retailer's identity from inferences, ca drawn from customers' socio-economic characteristics

phases:

ing retail location decisions. The Gruens found, however, t

locational decision creates a situation that gradually change

retailer's identity, it will alter his ability to attract custom

all of his locations. The retailer must, therefore, consider effect today's decisions may have on his future retailing id

Successful store location, according to the Gruens, involv

3. Investigation of shopping habits and preferences. Inte of a group having the socio-economic characteristics retailer's customers are conducted to determine (1) he

ferent specific locations affect them, (2) what impact ea would have on how the customer "sees" the retailer, how the attraction of the shopping location will be cha the retailer moves there.

4. Forecasting number of customers. The information dev through phases 1-3 is used to define appropriate market for each site, and a demographic analysis is then made of

market area. 5. Conversion of customer forecasts into sales forecasts. tical information about the retailer's sales experience i to make forecasts as to future development. Dr. Huff set up a model for a case study and used a cor

program that possessed sufficient capability to search an city for an optimum location. The basic information nec for analyzing the problem involved ll categories, and 10 seq steps were programmed in analyzing the information. The probability model is presented as a simple but effecti for estimating sales of prospective retail firms and Dr. Hu that through use of this tool and the assistance of a compute possible to search a very large geographical area for an op-

retail location. It appears that estimates stemming from such investi would provide investors with a more rational basis of de than they have had before. In hope of optimum returns from investment, retailers may find that the Gruen approach to th tion problem, complicated though it may appear to be, may

worth the effort involved, and that Dr. Huff's computer-progr solution provides a powerful tool for decision making. WORD RECEIVED OF DEATH OF DR. T. BRUCE RO Dr. T. Bruce Robb, who was chairman of the Departm Business Research at the University from 1924 to 1937, o

October 30 at Seattle according to word received at the 1

from Dr. Robb's son, Bruce. During the years that Dr

headed Business Research at the University, 28 bulletin published in the series of "Nebraska Studies in Business authored a number of the bulletins, including Business Rese Its Nature and Objectives, which was long regarded as a def differentiation of business research from other economic in gation. Dr. Robb resigned from the University to take a p

with the Federal Reserve Bank of Kansas City. He was for a ber of years on the faculty of William Jewell College wh continued to do a great deal of research and writing. Frie the family may wish to write to Bruce Robb at 6520 N.E

Seattle, Wash. 98115.

be attracted by a retailer. Until recently the relationship between consumer residence and locational accessibility of the store has formed the basis for mak-