A STUDY OF THE FARM REAL ESTATE MARKET IN KANSAS

by

HAROLD ARNOLD BERENDS

B. S., Kansas State College of Agriculture and Applied Science, 1957

A THESTS

submitted in partial fulfillment of the

requirements for the degree

MASTER OF SCIENCE

Department of Economics and Sociology

KANSAS STATE COLLEGE
OF AGRICULTURE AND APPLIED SCIENCE

TABLE OF CONTENTS

INTRODE	CTION .		• •	•	•	٠		•	9		•	٠				•	٠	•	٠	•	•	•	0	•	٠		•	٠	1
Th	e Proble	003		•		•	•	٠		•	•	•			•			•	•					•	•		•	•	4
Ger	meral Pr	rocedu	res.	•		•	•	٠	•	•	•	•	•			0		٠	•	•	•		•			•	•		4
FUNCTIO	INS OF A	MARKET	ř	•		0	٠	•	•		•	•		•		•	•		•	•	•	•		•	•	•		•	5
Arr	y Market	t				•		•	•	•	•	•	•	0	•	•	•	•	•	•	•	•	•	•		•		•	5
Fa	rm Real	Estate	e Ma	rket		٠		٠	٠		•	•	•		•	•			•		•	•	٠		•			•	13
Cr	ritoria i	for App	prai	sin	; a	15	a 17]	ket		•		•			•		•		•	•		•		•	•				15
HYPOTHE	1973					٠	٠			٠		•	٠		•			•	•			•						•	16
TESTING	HEPOTH	. ESE			•			٠	•	•	•	•	•		•	•			•		•		•	•	•				17
Pr	peadures	B							•	•	•			•	•	•		•		•			•	•				•	17
Se	eqpe					٠	•	•	•			•	٠	•			•	•		•	•	•		•	•		•		18
Azn	oas Stud	ited .			•	٠				•		•	•		•	•				•			•					•	22
	aracteri																												
	aracteri																												
	ansforri			/																									
	lected C																												
	AND COM																												
	Typical																												
	nclusies																												
	went.																												
BIBLIOGR																													
APPENDIX																													
													-	-	-	-			-								-	-	Se 2

THE RODUCTION

Farm roal estate values hit a new record high in the United States on March 1, 1957. This raised the national index to 147, (1947 - 49 = 100), which was 7 percent above a year earliar. The increase in market values of farm real estate represents the continuation of a trend that has been underway since 1954.

Most of the supports for rising prices of farm real estate are to be found in the non-agricultural sector of he economy and in advancing farm technology. In the non-farm sector, the high level of business activity, a slowly rising general price level, and increasing needs for space for a growing population have forced real estate prices higher in many localities. This rapid growth of population, and the demand it has generated for residential and industrial uses of land and service and recreational areas are estimated to absorb about one million acres annually. Although this is only a small fraction of all land sold, this demand for non-farm use helps to establish values of farm real estate at a higher level.

The Agriculture Research Service stated that in the farm scotor, efficient use of many technological advances that have been developed in recent years requires larger operating units. With many thousands of commercial farms still below the optimum acreage for efficient use of available labor and machinery, farmers have continued to seek additional land either by renting or by curchase. Because the acreage of land on the market is also restricted by these and other factors, etrong competition exists for the limited market supply of land. This is evident particularly in those areas where larger

¹ The Farm Real Estate Market, May 1957, ARS-U DA, p. 3.

operating units offer the best opportunity for reducing unit cost of produc-

This demand for farm real estate in Kansas, along 4th the downward trend of farm real estate sales in Kansas, has kept the farm real estate values on the upward trend. "This upward trend has continued through five years of extreme drought and declining net farm incomes since 1952." Financing has become more costly from the increase in interest rates that must be paid for borrowed money used in buying farm real estate.

"Land values from 1939 to 1955 in Mansas followed closely the trend for the United States except that United States land values tended to advance faster than Mansas land values during World War II." In the postwar period, land values were relatively higher for Mansas.

Declining prices, declining production from extress droughty conditions, and increased costs since 195° have reduced not increase considerably. Yet land values in Kansas have continued upward since 1950, with the exception of a slight decline in 1953, and reached a record high in 1957.

Otto, Collina and Pine reported that "income is basic to the value of land. Current and past incomes influence what people are willing to pay.

Future incomes, however, determine the real value of land from an investment viewpoint."

Many farmers and non-farmers feel that, except for current drought, land values are not too high. If this is the case, then land values prior to 1950 were too low or the capitalized value was disregarded.

¹ The Farm Real Estate Merket, May 1957, ARS-USDA, p. 4. 2 The Farm Income Situation, September 1956 (for 1949-54) and March 1957 (for 1955-56), AMS-USDA.

³ Otto, Merton L., Hubert L. Collins, and Wilfred H. Pine. Trends in Land Values in Kaness, August 1956, p. 5.

Information concerning the functions of a farm real estate market is limited. Obtaining additional information has created a problem, because the people involved are not always available to give information about a particular transaction. Each tract of land has its own characteristics which will have a different value for each individual involved. Information about methods of estimating future incomes are needed to determine future earnings.

The information previously available has been general in nature and without data and details for specific transactions. Does knowledge of a general nature provide ade unte information to buvers and sellers so t at a farm real estate market can function ell? If not, what are the weaknesses and imperfections that exist? Are the mumber of transactions that occur large enough to test a market to see if it is functioning properly?

This study was the outgrowth of an Agriculture Research Service, United States Department of Agriculture (A.R.S.-V.S.D.A.) Land Pricing Study, that was carried out in ten Great Plains states in 1957. The North Central Land Tenure Research Committee gave considerable guidance as a result of work done on land pricing and credit problems. This committee worked very closely with the U.S.C.A. land Pricing officials in setting up this study and giving assistance in making many decisions. The clanning of the study and preparation of the questionnaires for this study was made by the A.R.S. This study is part of a cooperative project existing between the Maness Agricultural Experiment Station and the A.R.S. for the complete study.

The A.R.S. selected the areas (one county in most areas) that would be used in the Great Plaine Land Pricing Study including three areas in Kansas. A fourth area was selected by the Eansas Agricultural Experiment Station and the A.R.S. in Factorn Kansas and outside the Great Plains part of the state.

The four areas are not statistically representative of Kansas. They did provide an opportunity to see if variations in the farm real estate market existed among these four areas in Kansas.

The questionnaires were coded and all the inconsistency checks were made by the A.R.S. The information was punched on TSM cards by the A.R.S. and a set of cards was made available for this study of the farm real estate market in Kansas.

The Problem

A basic economic function of the farm real estate market is to get the real estate under the control (expership) of those who will make the most productive use of it. If the market does not do this, weaknesses exist.

These should be discovered and measures suggested to eliminate them. Criteria must be established with which to determine imperfections, if any, in the market. The criteria or conditions required are discussed in a following section. This study was made to determine the extent to which these conditions exist in the farm real estate market in Hansas.

General Procedures

This type of study is facilitated by the use of a questionnaire, so the same information can be secured from buyers or seller of each transaction involved. To develop a questionnaire, one may contact several parties involved in transactions and ask what they consider important in a transaction. This information is combined and developed into a questionnaire. Different questionnaires were developed and used for buyers, sellers, bidders, and dealers or agents.

Selection of areas was required to obtain the influence of certain factors on a market. Personal interviews were used to obtain details about each transaction including quantitative and non-quantitative information.

The information used in the thesis is largely statistical. Case study is appropriate and is suggested as an addition to statistical analysis included in this thesis.

FUNCTIONS OF A MARKET

Any Market

Stigler states that,

It is the function of any market to bring together buyers and sellers who wish to exchange goods and money. A market is efficient in this role if one can purchase the commodity at the lowest price at which any seller is supplying it and sell it at the highest price at which any buyer is taking it. 2

The price of a given commodity may be determined in several different ways, while the subject matter of the theory of markets determines the emact terms on which, or the limits within which, exchange will actually take place. "The simplest form of exchange is isolated bergaining." This form of exchange occurs between two parties who must trade with each other or not trade at all, because there is no third person to trade with. "The price that closes the deal is settled by bargaining, (which will) wary from time to time and depend on the shrewiness, patience, psychological insight, and general bargaining skill of the two parties."

According to Scitoveky, competitive bargaining is a common form of exchange. Competition restricts a person's bargaining power by making the

¹ Stigler, George J. Theory of Prices, p. 56. 2 Scitovery, Tibor. Welfare and Connetition, p. 12.

³ Thid., p. 13.

other party less dependent and therefore, less keen on striking a bargain with bin. As a rule, however, both parties to a transaction have competitors, which hems in the bargaining power of both. Both parties know what prices have been reached in similar transactions in the past and each expects his opponent to have similar knowledge. Therefore, either party can threaten to close the deal with a third per on if the other party makes inordinate demands and both parties know that such threats can be carried out. Therefore, competition limits the chances of influencing prices through bargaining. It also restricts the scope for bargaining and the range within which the final price will lie. Competition makes price more determinate and less dependent on chance and bargaining skill.

Perfect competition would reduce the bargaining power of both parties until neither party involved would feel that he could influence price and both would regard price as given to them. Perfect competition makes price completely determinate and independent of the chance of bargaining. This type of market requires a large number of competing cellers whose sales are small compared to the market's total turnover and they regard the price as given to them. At the same time, it is necessary for all the buyers to know about the existence of alternative offers and that all of them should be pr pared to shift with the smallest change in price (Fig. 1). The buyers must be experts in the strictest same in the appraisal of the goods they buy. Scitovsky says that,

A person who regards the price of a commodity as given to him and is able, at this price, to buy or sell as much as he likes will be called a price taker. It is apparent that both buyers and sellers can be

2 Ibid., p. 16-17.

¹ Scitovsky, Tibor. Welfare and Commetition, p. 14-15.

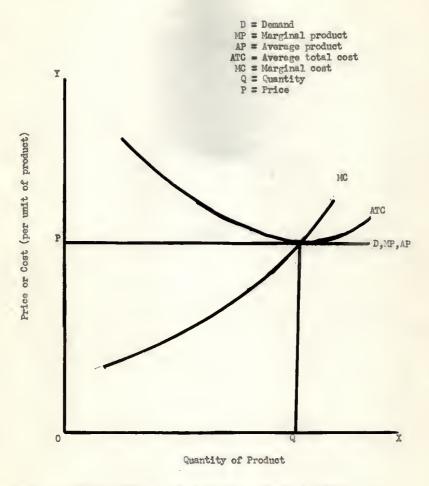


Fig. 1. Market conditions of a market under perfect competition.

price takers. A market in which all the buyers and all the sellors are price takers is called a perfectly competitive market.

The practical importance of perfect competition is not very great. For markets in our economy are perfectly competitive, because for markets fulfill the conditions of perfect competition, large numbers, and expertness on both the buyers' and the sellers' side.

From the standpoint of economic theory, the concept of perfect competition is very important. As it shows that perfectly competitive behavior by all members of every market would result in the most efficient organization of production and the best allocation both of productive resources and censumers! goods and services. Therefore, perfect competition can be used as a standard to appraise actual economic institutions and organizations.

The consumer deals in markets which are not perfectly competitive, because the average consumer does not know and cannot possibly acquire an expert knowledge of all the goods and services be purchases. Consumers have a very immerfect knowledge of the alternative opportunities available to them and usually lack, the mobility and funds necessary to inquire about alternatives. This leads to the producer or merchant refusing to bargain and setting price on a take it or leave it basis. A person who establishes his price in this manner is a price maker and his action is price setting. "The price maker's advantage in the market is called a monopolistic advantage and his favored position is a menopoly position. Competition among price makers is called anonopolistic competition or sometimes, imperfect competition."2

When the people or consumers are confronted with a take or leave it price situation, they become price takers and are in exactly the same position as the members of a perfectly competitive market. Therefore, the competition

2 Ibid., p. 20.

¹ Scitovsky, Tibor. Welfare and Commetition, p. 18-19.

on the price maker's side is imperfect; where as, the competition on price taker's side is a perfectly con-stitive position, which is an asymmetrical market (monopolistic or imperfect market).

We may point out,

....the two necessary conditions for price setting are (1) a disparity in numbers between the two sides of the merket, which disrupts personal contacts between haver and seller and renders bargaining uneconomical.

(2) The inexpertness of one side of the market, which, of course, is always the side with the larger numbers. It should be noted that buyers as well as sellers may be price makers and set the terms of their offer, depending on whether the number of buyers or that of the sellers is the smaller.

The adventage that price makers can obtain from their favorable market position is limited by the competition among themselves. The extent of this limitation depends on the nature and extent of competition. "The individual price maker has to meet two forms of competition; the actual competition of his established rivals and the threat of competition from newcomers to his market." The established rivals of the price maker can offer his customers alternative opportunities of buying or selling. Then the price maker may be forced to offer terms more advantageous to his customers than he would offer in the absence of such competition. Newcomers that are attracted by the price maker's profit, threaten to enter his market, through their entry into the market the total offering would be increased, and the price maker's turnover would be lower. Therefore, both forms of competition would limit the price maker's bargaining advantage and profit; it is to his interest to prevent competition from both sources.

The competition among price makers may be classified as free and restricted

¹ Scitovsky, Tibor. Welfare and Competition, p. 21.

^{2 &}lt;u>Ibid.</u>, p. 21. 3 <u>Ibid.</u>, p. 22.

competition, depending on whether the entry of newconers to their market is
free or restricted. The individual price maker's monopoly profit tends to be
zero under free competition (Fig. 2); when it is above zero, it attracts newcomers into the market and tends to eliminate monopoly profit. Free competition
exists in many markets today. "There are three conditions necessary to keep
competition free from restraints: (1) The existence of a competitive spirit,

- (2) The existence of an adequate limit to the size of an individual firm,
- (3) The absence of obstacles to the entry of newcomers to the markets."1

"Restricted competition is competition among price makers who are protected from the competition that the entry of newconers to their market would entail."² Restricted competition may assume a variety of forms which it may take.

Simile restricted competition is the least severe form, which is competition among price makers whose competitive behavior is completely free and unrestrained. The only difference between free competition and simple restricted competition is that under free competition the price maker's profit tends to be eliminated by new competitors entering into his market; while, under simple r stricted competition, the entry of newcomors is limited, which prevents the elimination of the price maker's profit.

"A single monopoly is a firm or person who is all alone on his side of the market." The monopolist sets his price in exactly the same way as any other price maker. The price maker may aim at maximized profits or refrain from maximizing profits.

¹ Scitovsky, Tibor. Velfare and Commetition, p. 304.

^{2 &}lt;u>Ibid.</u>, p. 373. 3 <u>Ibid.</u>, p. 377.

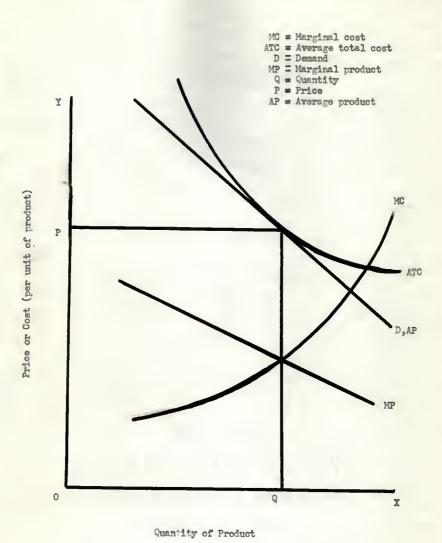


Fig. 2. Market conditions of a market under imperfect competition. Source: Welfare and Competition, Scitovsky, Tibor, p. 348.

"Collective monopoly is an agreement among a group of competing price makers to restrain competition among themselves." These agreements may take any number of forms, ranging from informal rules of business ethics to the detailed regulation of all phases of market behavior. Collective monopoly secures an advantage for its members by lessening or eliminating the scope for substitution among their products.

"Cligopoly is restricted competition among price makers whose competitive behavior is restrained not by agreement, but by their realization of the interdependence of their actions." Cligopoly may result when the number of competing price makers is small. Oligopoly may consist of one large firm and several small firms which the large firm is often accepted as a price leader and the small firms fashion their market after the large firm in an effort to maintain good relations with him.

Another form of oligopoly is the market in which the number of competitors is small but there is no single firm with enough power or initiative
to assume the role of price leader. This being the cituation, if any one in
the group of competitors introduced a change in his price, the others might
follow suit, but only if they were forced to retaliate in order to maintain
their position in the market.

There are many other possible forms of oligopoly where restraints come about spontaneously without agreement.

Today, we have two types of markets, the informed and the uninformed.

The informed market is a type of a market in which the average buyer knows enough about the quality of the goods and services offered to appraise them on their own merits, without relying on

2 Ibid., p. 384.

¹ Scitovsky, Tibor. Welfare and Commetition, p. 378.

trademarks, advertisements, and the reputation of the producers or sellers.

A market is uninformed when the average buyer in the market has an incomplete idea of the nature of the goods or services he buys, and judges their quality not by his own standards, but on the basis of advertising and indexes of quality.

The farm real estate market may be classed as an informed or an uninformed market.

Farm Real Estate Market

The farm real estate market is believed to be an imperfect market. It generally lacks market organization; relatively small numbers of buyers and sellers participate, each of whom may sell or buy land only at extremely infrequent intervals; and imperfect knowledge exists among buyers and sellers concerning the land on the market.

The farm real estate market deals with a geographically fixed resource, while other markets may be dealing with goods that can be transported, processed, and stored in a finished product form to be sold on any market in the country or in any country in the world.

The farm real estate market may be thought of as a fixed resource market since land is fixed geographically. Land is a productive resource the value of which is derived from the product. W. N. Scofield stated that:

More than any other productive resource, land has associated with it strong elements of tradition, social values, and beliefs as to its intrinsic 'goodness,' which change constantly over time and liffer among groups of individuals. Even though we may be aware of these quasi-cooncaic factors, problems of measurement usually exclude them from our analysis and we proceed as though income from land, as measured by physical production, should explain market behavior.

2 <u>Ibid.</u>, p. 333-334.

¹ Scitovsky, Tibor. Welfers and Commetition, p. 327.

When we obtain puzzling results as in the last several years, some of us may question either the data or the rationale of the market. Instead, the explanation lies in the over simplification of our assumptions and our inability to handle value judgements adequately.

Value judgments of buyers and collers are reflected in the farm real estate market, as a tract of land may have a higher value to one buyer than another, based on the location, type of farming operation or land use, and skepticalism of the future. Appraising value judgments is very difficult, because many times there are no records concerning the tract of land on which to base one's judgments.

Vithout adequate information and knowledge concerning the farm real estate market, there is little chanc for the development of keen competition among the small number of buyers and sellers involved. Also, government programs have an uncertainty effect on land values in some areas, as the wheat belt. Acreage allotments and restrictions probably have caused many farmers to seek additional land to maintain family income and spread fixed costs.

Attention must be given to "several strong forces now operating in the national economy, which underlie the more local and regional factors, such as farm technology, price support programs, and not form income.² The continuation of inflationary action has prompted many farm owners not to sell and has strongthened the demand for land. "Land has provided excellent protection against loss of purchasing power, having risen about 50 percent more than the general rice level since 1940."³

¹ Scofield, William H. "Prevailing Land M rket Forces," Journal of Farm Recognice, Volume XXXII, Number 5, December, 1957. p. 1500.

² Ibid., p. 1503. 3 Ibid., p. 1503.

Another factor that is very difficult to appraise is the effect of the expected increase in population on the land market. Nany participants in the land market have the belief that a "land shortege" will eventually occur. This belief is based on the idea that "we are making more people, but no more land." However, we must not overlook our present production potential and the increased output possible from technological advances now known or which can reasonably be forseen. 1

Criteria for Appraising a Market

When appraising a market, the objective is to determine how well the market operates. Criteria for appraising the operation of any market criginate from the conditions for perfect competition. The conditions of a perfectly competitive market requires standardisation of qualities, full knowledge of alternatives, and with complete openness (not localized) in all transactions.² When these conditions prevail, a market is efficient in its role of functioning to bring buyers and sellers together to exchange goods and money. If there is a demand for a good or service, it is the responsibility of the market to reflect the place, time, and form utility of this rood or service.

In apprecising a farm real estate market, we assume that a market approaching a perfectly competitive condition is desirable. In the real estate market,
we must realize that we have a somewhat different situation, so each individual
unit varies in characteristics, such as location, topography, fortility,

¹ Soofield, William H. "Frevailing Land Market Forces," Journal of Ferm Foonemics, Volume XVXIX, Number 5, December, 1987. p. 1504.
2 Stigler, George J., The Theory of Price, p. 56.

improvements, etc.

The oritoria used to appraise the fara real estate market in Kansas are: (1) Variations in characteristics among tracts of land, (2) number of transactions, (3) kmo ledge of the parties involved, (4) variations in circumstances and ch racteristics of the parties involved, and (5) variations in pricing precedures.

RYPOTHUSES

It is believed that the farm real estate market has many imperfections in its operations throughout the state of Kansas. The farm real estate market does not perform perfectly because:

- 1. Wide variations in characteristics exist among tracts of land.
- 2. Only a small member of transactions in localized markets occur.
- 3. Imperfect knowledge exists among buyers and sellers.
- 4. Variations exist in value judgements and circumstances of buyers and sellers.
- 5. No set pricing procedure is used in the land market.

Imperfections in the farm real estate markets differ in various parts of Kansas in regard to:

- 1. Characteristics of land.
- 2. Localization of markets.
- 3. Knowledge of individual buyers and sellers.
- 4. Characteristics and circumstances of buyers and sellers.
- 5. Pricing procedures used in determining the value of land.

TENTING PERCENTEES

Procedures

Farm real estate transfers may be classified in various ways, such as, size of tract, extent of improvement, soil classification, productivity, location, type of roads, and avarages and percentages compared to determine, as far as possible, the differences due to these factors. Various averages may be used, such as, arithmetic mean, geometric mean, harmonic mean, modian, and mode. The arithmetic mean was used in most analyses of this study. Ranges were used to show variations in values.

Only bone fide sales were used and to apply statistical techniques for testing certain hypotheses regarding the effect of various factor on sale values for individual tracts of land. It was assumed that the price per acre of each particular tract sold represents an observation from a hypothetical universe of observations produced under conditions similar to the ones which produced the values in this sample. The usual statistical F-test was used to test hypotheses regarding the effects of various factors on the sale price.

The N2 test (chi-square) was used to test the hypothesis of independence between attributes when counts were taken of the number of individuals which fell into various cells of a two-way table. Here again the cencept of sampling from a hypothetical universe was used.

¹ Bona fide sales or transfers were defined for this study by the ARS as "those transfers where a fair market price was established by a willing buyer and a willing sellor."

² Snedecor, George W., and W. G. Cockren. Statistical Methods, Fifth edition, p. 225, 268.

Scope

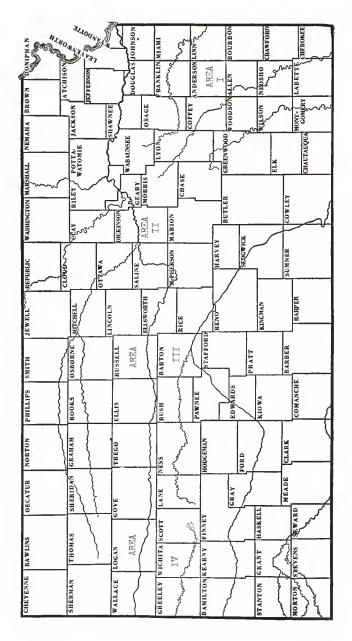
Four Areas in Kennas. Four areas were selected for this study. The first two were Anderson County in the extreme eastern portion, and Dickinson County in the east central portion of Kansas, both of which are general farming areas. The third area included Russell and Barton Counties in Central Kansas. This area was selected for the effects of oil on the real estate market. The fourth area consisted of Wichita and Legan Counties in the extreme Western Kansas. This area is considered as a high rick area (Fig. 3).

These different areas were selected to obtain information on the various factors that may influence the real estate market in Eangas.

Time Periods. There were two time periods used in this study. In the general farming areas of Anderson and Dickinson Counties, the time period of January 1, 1956 to December 31, 1956 was used. For the central and western areas of Russell, Barton, Wichita, and Logan Counties, January 1, 1956 to March 31, 1957 was used. The extension of three menths in the Central and Western Eanses was needed to obtain more bone fide farm real estate transfers in these areas. Reference is made only to 1956 hereafter.

Field Proceduras. The information on form real estate sales in each of these counties was obtained from the public records in the Registrar of Deeds offices at the county counthouses. Each transfer of farm real estate that was recorded in this time period was examined and checked to see if it was a bona fide pale.

The addresses of the buyers and sellers were obtained from the tax roll at the County Treasury office, Soil Conservation Service, Agricultural Stabilization and Conservation offices, telephone directory, and city light and power companies. The names and addresses of agents and bidders were obtained



The Areas Included in the Land Pricing Study, Kansas, 1956. ŝ म् मुम्

from the buyers and sellers.

There was an attempt to contact each buyer, seller, agent, and bidder involved in the farm real estate transaction. When the buyer and seller lived within the area or within ten miles of the county line, the interviewer made at least one call back, and in most cases two calls back were made in an attempt to contact the party involved if he was not at home on the first call. In cases where the wife was home, an appointment was made to see the husband at a time that would be the most convenient for him. There was an extreme effort put forth to contact all parties involved in farm real estate transfers during this time period.

At least one attempt was made to contact the buyers and sellers that lived out of the area and in various other sections of the state. No out-of-state interviews were taken in this study.

The time required to complete an interview was approximately 40 minutes. Many of the interviews were taken of an evening because the business men in town were often cut of town or other business interfered with answering a questionmaire. Many of the farmers were busy with their late spring and summer work and wanted the interviewer to come back some evening. For these reasons, many of the schedules were taken on the first call back. Personal interviews were considered the only effective way of getting information needed in this study.

Table 1 shows the number of bone fide sales and numbers of buyers and sellers questionnaires completed.

Table 1. Bons fide transfers and questionnaires completel, Kansas, 1956.

Mumber of treets	00		Area		
transferred	: Anderson :	Diekirsen :	: Anderson : Dickinson : Pussell-Tarton : Loren-Vichita : Total	Loven-Wichitte	1 Tota
Sons fide transfers	2	33	07	77	189
Suyer questionnaires completed	73	8	R	37	142
Seller questionnaires completed	33	to F	77	R	103
Total questionmaires	83	27	28	65	572

Areas Studied

The selected areas are not a true representation of all farm real estate in Kansas. No counties were taken in the northeast corner of Kansas in the corn belt and the extreme southeast corner of Kansas in the general farming area where the average rainfall is the highest. Also omitted were the flint hills region, which is primarily bluestem grass, and an area where industry may affect the price of land (as around Wichita, Topeka, or Kansas City) and the heart of the wheat belt area in South-Central Kansas. This study does not represent all of Kansas but only the given four areas.

In each of the two western areas, two counties were taken to increase the number of transactions to the 40-50 level within a single geographic universe. Although, the study was not limited to this range as Dickinson area had only 35 transfers and Anderson area was high with 72 transfers.

The following is a brief description of each area that was used in this study.

Area 1 - The Anderson area is a diversified agricultural area. The livestock programs are predominated by beef cattle and dairy enterprises. Theat was the major cash crop with 26,700 acres in 1955, while an even distribution of feed crops were grown which consisted of 21,600 acres of corn, 21,000 acres of barley, 2°,300 acres of oats, 20,200 acres of sorghums, and 10,700 acres of slfalfa hay. 1

The average size of farm in this area was 261 acres.2 The average

¹ Managas State Board of Agriculture, Farm Facts 1955-56, 19th Report, pp. 10, 18-29, 46-47.

² U. S. Department of Commerce, U. S. Census of Assisulture 1954, Volume I, Part 13, p. 44.

length of the growing season is 164 days. The average rainfall is 37 inches per year. The county has an average elevation of 1,100 feet above sea lovel. The topography varies from gently sloping to distinctly rolling lands with soils that are residual from limeston, sandatone, and shale, with shale predominating. At the present time, nort of the upland soils are acid and deficient in mitrogen and phosphorus. Lime and fertilizer should be used for successful production. Erosion has been quite savere in this county.2

The total area of the county is 369,280 acres, which was 50 percent oropland and 40 percent pasture and meadow in 1954.3

Area 2 - The Dickinson area consists of a diversified type of agriculture. The beef cattle enterprise is the most important in the livestock program. A total of 53,350 head of beef cattle were on the farms in this area on January 1, 1956. Dairying is a minor enterprise in this area.4

Wheat is the major cree in this area, with 130,000 acres in 1955. The other crops are grown primarily for feed for livestock enterprises. The feed crops are well distributed with 40.700 acres of servhums. 38.200 acres of cats. 35,700 acres of alfalfa hay, 30,800 acres of corn, and 24,500 acres of barley.

The average farm consisted of 291 acres in 1954.6 The amount of rainfall if approximately 31 inches per year. The average growing season in the

¹ Moover, Leo M. A Summary of Manage Agriculture, Agricultural Economics

Report No. 55, p. 6.

Ibid., pp. 18-29, 45-47. U. S. Department of Commerce, U. S. Consus of Aericulture 1954, Volume I, Part 13, p. 44.

⁷ Foover, Leo H. A Surpary of Kansas Acriculture, Agricultural Economics Report No. 55, p. 6.

county is 171 days. This eres has an elevation of approximately 1,250 feet above sea level. The topography is rolling with areas of low hills. There is a broad expanse of bottom land soils adjacent to the Fances River and its tributaries that are level to gently sloping. The soils are primarily residual from linestone and shale in the southern portion and from linestone, sandstone, and shale in the northern portion. The soils are relatively deep and fertile. These soils are not acid and will respond to nitrogen and phosphorus fertilizers. Water eresion has taken place on the sloping uplands. 1

In 1954, this area consisted of 547,200 scree, which 63 percent was cropland and 36 percent in pasture and meadows.²

Anna 2 - Barton-Buscoll area primarily consists of wheat and beef cattle enterprises. Wheat is the major crop of this area with 370,000 acres and sorghums rank second with 113,300 acres in 1955. Screhums have been raised primarily for livestock feed. The beef cattle enterprises consist of cow herds and full season wintering and grazing of steers, that totaled 75,300 head on January 1, 1956. Dairying on a small scale has become an important secondary enterprise close to the larger cities.

The average size farm consisted of 406 acres in Barton County while in Ruscell County 570 acres in 1954. The average growing season in this area

4 U. S. Department of Commerce, U. S. Commun of Acticulture 1954, Volume I, Part 13, p. 44.

¹ Kansas Agricultural Experiment Station and Kansas State Flamming Seard, Agricultural Resources of Kansas, Kansas State College Bulletin 172, p. 51-52. 2 U. S. Department of Commerce, U. S. Gansun of Agriculture 1954, Velume T, Part 13, p. 45.

³ Kanesa State Board of Agriculture, Farm Facts 1055-56, 39th Report, pp. 10, 18-19, 28-29.

is 173 days. The average reinfall in this area is approximately 25 inches per year. The elevation of this area is approximately 1,800 to 1,850 feet above sea level. The topography is that of a sloping to gently rolling plains except in the immediate vicinity of the larger streams where the topography becomes broken and killy. The soils have been derived primarily from the veathering of limestone except in the southern portion, south of the Arkansas River, where they have been formed from the veathering of cutwash plains materials. The soils contain a good supply of plant food materials and are not acid in reaction. Sheet and wind erosion occur occasionally and can be prevented easily; sovere erosion seldem occurs.

This area consists of 1,122,760 acres. In 1952 the southern county (Barton County) was made up of 75 percent eropland and 19 percent pasture, while the northern county (Russell County) was made up of 51 percent cropland and 42 percent pasture.

Oil activity in this area has been an important economic factor. In 1955, there were 6,270 producing wells with a production of 25,138,407 barrels. Oil production covers an area of 130,280 acres.

None of the land transfers in this study involved land which had producing oil wells on them.

3 Kansas Agricultural Experiment Station and Kansas State Planning Board, Agricultural Resources of Kansas, Kansas State College Bulletin 122, pr. 17-10 161-163.

¹ Kansas Agricultural Experiment Station and Kansas State Planning Board, Agricultural Resources of Manage, Manage State College Bulletin 122, p. 18, 181. 2 Moover, Leo M. A State of Eanses Agriculture, Agricultural Economics Report, No. 55, p. 6.

⁴ U. S. Depirtment of Commerce, N. S. Comma of Arriculture 1054, Volume I, Part 13, p. 44.

⁵ Goobel, E. D., A. L. Hermbeker, W. R. Atkinson, and J. M. Jewet'. Oil and Gas Developments in Fances During 1955, State Geological Survey of Kaneas, Sulletin 122, p. 128-160.

Area 4 - The logan-Wichita area is characterized by a primarily dry land type of agriculture, with irrigation becoming more important through the central pertion east to west in Wichita County. Theat is the major crop with 240,000 acres, while sorghums ranked second with 267,200 acres in 1955. Beef cattle is the only important livestock enterprise with 48,350 head on January 1, 1956 in this area.

The average size of ferm in Wichite County was 1,228 acres in 1954, while Logan County averaged 1,625 acres per ferm.² The amount of rainfall is approximately 18 inches per year.³

The length of the growing season averages between 159 to 164 days. The elevation ranges from 3,100 feet to 3,300 feet above sea level. The tepography is that of gentle eloping to gently rolling plains with a few low hills and in some places sharp breaks in the vicinity of larger streams. The soils have been formed almost entirely from the weathering of wind deposited materials. Erosion by water has not been severe. Practically all of the soils under cultivation are subject to erosion by wind which has been severe on occasion in many localities. The limiting factor of crop production is the lack of rainfall.

This area totals 1,150,080 acres, of which Wichita County had 97 percent of its share (463,360 acres) in farms with 70 percent in cropland and 26 percent in pasture in 1954, while Logan County (666,720 acres) had 39

¹ Mansas State Board of Agriculture, Farm Facts 1955-56, 39th Report, pp. 10, 18-19, 28-29.

² U. S. Department of Commerce, U. S. Commun of Agriculture 1954, Volume I, Part 13, p. 48.

³ Heover, Lee M. A Summary of Eansas Asriculture, Agricultural Economics Report No. 55, p. 6.

⁴ Manass Agricultural Experiment Station and Manass State Planning Board, Agricultural Besources of Manass, Manass State College Bulletin 122, pp. 123-124, 215-319.

percent in cropland and 42 percent in pasture in 1954, (18 percent of land was not reported.)

Characteristics of Real Estate

Farm real estate has many characteristics. Some of these are physical characteristics of soil affecting productivity, size of tract, kind of road, distance to town and market, and extent of improvements and all of these may affect a particular transaction.

market in 1956 was considered average by 65 percent of the buyers in all four areas. The study showed no significant difference in the quality of land sold among the four areas studied in the state (Table 2). The productivity of the tracts transferred could be tested only on the basis of wheat yields, since wheat was the only crop important in all four areas. The variation in yields among these areas is due more to rainfall than to the quality of land. Table 3 shows that yields in the central and vestern areas were lower than in Eastern Rangas. The average estimated yields of tracts transferred were higher for each area than the 1945-54 average yield for all land in the area. Anderson area had the greatest deviation with an estimated yield of 27.9 bushels per acre, on tracts transferred compared to the 1945-54 average yield of 20.4 bushels per acre. Earton-Russell area had the smallest deviation with an estimated yield of 14.7 bushels per acre on the tracts transferred compared to the average yield of 15.5 bushels per acre for 1945-54 time period.

¹ U. S. Department of Commerce, N. S. Commun of Assiculture 1954, Volume I, Part 13, p. 48. 2 Table 2 to 62 in appendix.

The estimated yields of the transfers in the Dickinson and Logan-Wichita areas were 19.7 and 19.8 bushels per acre respectively, while the 1945-54 average county yields were 16.8 bushels per acre for Dickinson and 15.1 bushels per acre for the Logan-Wichita areas. Twenty-five percent of the tracts did not show wheat yields; these tracts either were all grass or wheat was not included in the farming program.

The information received on the corrying capacity of native grass was inadequate. The Anderson area renorted that 37 percent of the tracts required 4 to 6 acres per animal unit. It is common knowledge that as rainfall decreases going westward into the short native grass regions the number of acres required per animal unit increases (Table 4).

Size of Tract. The tracts transferred varied in size in the four areas.

Anderson area had the smallest tracts transferred, averaging 133 acres per tract, while the Logan-Michita area averaged 404 acres per tract (Table 5).

The tracts transferred ranged from 40 acres (minimum size taken in this study) near towns and cities to 10,700 acres located in Logan County of the Logan-Wichita area.

The average size of tracts transferred was smaller than the average form unit in the respective areas. Of the tracts transferred in 1956, 48 percent were purchased for farm enlargement or to be used as a part of previous farm units, while only 12 percent were purchased for complete farm units.

Kind of Boad. The kinds of roads of road that joined the tracts of land transferred varied from area to area (Table 6). While Anderson area had only 4 percent of its tracts located on dirt roads, the Legan-Wichita area had 60 percent of the transfers on dirt roads. Differences in kinds of roads were highly significant in the four areas studied. The kind of road eignifi-

cantly influenced the price per acre of land transfers in the Dickinson area at the 5 percent level and in the Barton-Bussell area at the 10 percent level, while no effect on price was detected from kind of read in the other two areas (Table 7). The entire variation in average price per acre cannot be attributed to the kind of reads, since other factors such as productivity and improvements may be related to the kind of read and cannot be entirely separated.

Distance to Term. With modern methods of transportation and the network of all-weather roads in the more thickly populated areas, the distance to team or to market today is not as important a factor in influencing the price per acre of land as in the past. Nonetheless, a recept study indicated that farm real estate within a few miles of town sold significantly higher than that at a greater distance. I Even with the present network of all-weather roads, the additional costs for transportation involved in marketing form products can affect the value of farm real estate tracts that are located several miles from a market. Distance to town, if the distance is great may involve other inconvaniences or costs such as time and cost of going to and from schools, churches, and all social events. Eighty-three percent of the tracts transferred were within nine miles of town (Table 8). Distance to town had no significant effect on the price per acre except for the Logan-Wichita area. This erea had a significant variation at the 5 percent level with 12 tracts at the average of \$75.42 per acre up to 4 miles to town, 12 tracts at \$54.75 per acre from 5-9 miles to toun, 8 tracts at \$40.50 per acre at the 10-14 mile interval, 2 tracts at 835.00 per

¹ Marsh, Charles F., and Wilfred E. Pine. The Value of Farm Real Entate, Kansas Agricultural Experiment Station, Bulletin 307, April 1957, p. 14-16.

acre at 15-19 mile interval, and 2 tracts at \$35.50 per acre at the 20-24 mile interval to town (Table 9).

Extent of Improvements. Improvements are important and necessary on most complete farm units. When a tract is purchased for farm enlargement, the buyer often does not desire improvements. The transfers that occurred in 1956 were 47 percent unimproved, while 26 percent of all transfers had what the buyer considered average improvements (Table 19). Improvements were given primary consideration in some cases and contributed much to the buyer's decision on the final price. Other buyers preferred unimproved tracts and gave little or no consideration to improvements. Price per acre paid was greatly influenced by the extent of improvements in all but the Logan-Wichita area in which 25 of 37 tracts were unimproved. Price per acre in the Anderson area was highly significantly influenced by extent of improvements, with average price per acre ranging from \$49.17 for unimproved tracts to \$117.86 for tracts with above average improvements (Table 11).

Other Factors. Other factors, such as percent of tract in cropland, wheat allotment acreages, and the amount and adequacy of buildings are additional variations in the characteristics of farm real estate which may affect value.

The percent of cropland in tract varies with the four areas studied. The areas with the greatest number of tracts with 80-100 percent in cropland were in the central and vestern Kansas areas. Differences among the areas were highly significant (Table 12). Percent of cropland in tract significantly affected the price per acre in the Barton-Russell and Logan-Wichita areas (Table 13).

The percent of cropland in wheat allotment was less in the Anderson area

than in the other three areas. The percent of cropland in wheat allotment was highly significantly different among the four areas (Table 14). The average price per acre was significantly influenced in all areas by percent of cropland in wheat allotment.

Forty percent of all tracts transferred have houses and other buildings. The transfers in the Anderson area had 56 percent of the tracts with both a house and other buildings (Table 15). Variations in the amount of buildings were highly significant among the four areas. The tracts with house and other buildings were considered adequate for a farming headquarters by 91 percent of the buyers of these tracts (Table 16). The influence of amount of buildings on average price per acre was highly significant in Anderson and Dickinson areas (Table 17).

Characteristics of the tracts of land transferred appeared to have influenced the price per acre paid. The small number of cases prevented subscriting and testing the effect that each factor alone had on price per acre. The many variations in characteristics among the tracts transferred and little evidence of a grading system indicate the difficulties which buyers and sellers may have in pricing land. Each tract tends to be unique, resulting in an imperfectly competitive situation. Adequate grading would help eliminate this weakness in the farm real estate market.

Characteristics and Circumstances of Suyers and Sellers

The seller schedules were not available for this study. The information obtained was given by the buyer to the extent that he could answer the questions concerning the seller on the buyer questionsire.

Sollars. Reasons for selling, as given by the buyer, were many with no

dominant reason (Table 18). In many cases, the buyer did not know why the seller sold a given tract. The occupation of the sellers varied with active furners selling 37 percent of the tracts. The greatest variation of seller occupations among areas was the nonfarmer-professional occupation in Anderson area selling 13 of the total 16 tracts sold in all areas (Table 19).

The residence of the cellers varied in this study, with 52 percent of all sellers living in town (Table 20). Anderson area had the highest percent of cellers living on the farm sold. The variation in residence of sellers among the four areas was significent. While a high percent of the sellers lived in town, the distance the sellers lived from the tract sold varied among the four areas. A majority of the sellers lived in the same or adjoining county with 31 percent of these sellers living more than five miles from the tracts they cold. The distance the seller lived from the tract sold was significantly different among the four areas.

Buvers. The active farmer was the predominant buyer, purchasing 67 percent of the tracts sold. The remaining 33 percent of the tracts were purchased by persons in numerous other occupations (Table 21).

The local real estate market was made up of a single luyer and a single seller in 75 percent of the transactions involved (Table 22). The competition from other bidders involved so few cases that no reasonable evaluation could be made of the influence of competition among bidders. An explanation for the limited number of bidders may relate back to the length of time the buyer was in the market for land. Since land is a scarce resource for most active farmers, 65 percent of the buyers bought on a "quick decision" basis or at the first opportunity to purchase a tract of land to fulfill their needs as econ as the tract came on the market (Table 23).

Sixty percent of the buyers who participated in the farm real estate market in 1756 were living on another farm and 4 percent lived on the farm bought, while 36 percent of the buyers lived in town (Table 24). No significant differences existed in the residence of buyers among the four areas.

The age of buyers varied among areas with the Anderson area having 59 percent of its buyers under 45 years of age, while Dickinson area had 73 percent, Darton-Russell area 72 percent, and Logan-Jichita area 62 percent of the buyers 45 years of age and over. The differences in ages of the buyers for the four areas were not significant (Table 25). The age of buyers showed no significant effect on price per acre paid in this study (Table 26).

in the real estate market. For the four areas, 43 percent of the buyers lived within five miles of the tract purchased, while 36 percent lived beyond five miles, but within the same or adjacent county. Differences in location of tracts to the buyers were highly significant among the four areas (Table 27). The location affected the price paid per acre in the four areas, with the highest price being paid for tracts when the buyer was living on the farm or within five miles (Table 28). Location of buyer to land bought has significantly influenced the price per acre of tracts in the Logan-Tichita and Anderson areas. This supports the belief that the real estate market is a relatively localized market. Another factor to support this belief is that 64 percent of all buyers knew the sellers personally (Table 29) and 59 percent of the buyers learned the tract was for sale through the seller (Table 30).

Reason for Buying. Reasons for buying, as given by the buyers interviewed,

¹ Legan-Tchita area was significant at the 5 percent level, while Amierson area was significant at the 10 percent level.

were many and varied. The prime motive for buying in the four areas was for farm enlargement. Continuation of technological advancements and striving for more optimum sized unit, buyers in 48 percent of the cases purchased additional land to enlarge their farming units in 1256. Greater acreage of wheat allotment was not given as a reason for any transaction. It is believed that it was a more or less indirect reason in several cases. "Tenant to owner" was given so the reason for ten transfers, with four transactions each in the Anderson and Dickinson areas. This gave these tenants a chance to advance up the agricultural ladder from tenant to at least part owner. Land purchased for an investment was probably a reason in every case, but was considered the prime reason in only 23 cases. Of these 23 buyers, only three were active farmers, so it was evident that they were buying mainly for investment. The distribution of reasons for buying is shown by area in Table 31.

Firsty-two percent of the buyers reported they were under no pressure to buy (Table 32). Eight percent were under pressure to buy, with only two cases involved a situation where the buyer could no longer rent. Three tracts were bought because the purchasers were afraid some one else would buy first, and the remaining seven cases there were other reasons for the pressure to buy.

Farm enlargement resulted when a landowner purchased a tract to add to a provious farm unit. Farm enlargement, in a sense, resulted in 61 of 94 cases where an active farmer bought land (Table 33). The land ened by that particular farmer increased, but the farm unit operated was enlarged only if the tract curchased was in addition to the ground in the farm unit prior to the purchase. Active farmers purchased 61 of 67 farm enlargement transfers that occurred in this study. Not farm enlargement would occur if the tract purchased to enlarge one farm unit did not decrease another farm unit. Not

farm enlargement results when the number of farm units decreases. Farm enlargement, consisting of 48 percent of the transfers, did not appear to be related to price paid per acre (Table 34).

Extent of Bermaining. The lack of price bargaining was a unique characteristic of the transactions involved. Forty-eight percent of the buyers indicated there was no price bargaining; they bought the tract at the seller's asking price or if the seller had not set a price, the seller accepted the first offer of the buyer. Effective bargaining was present in 38 percent of the transactions involved, in which the buyer bid less than the asking price and paid less than the asking price, while & percent of the buyers bid less than the asking price, but paid the asking price when the transaction was completed (Table 35).

The price paid per acre was not significantly different where bargaining existed than in the cases where no price bargaining existed (Table 36).

Bargaining on other considerations such as mineral rights, royalty rights, and landlord's share of standing crops, were insignificant in the four areas in 1956.

Generalizations. The characteristics and circumstances of buyers and sellers vary greatly within and among areas. Many reasons for selling and buying existed, location in relation to seller and buyer differed, little competition from bidders occurred, and the length of time the property was on the market was short. Various methods of selling were used with variable amounts of bargaining involved.

These result in unique conditions for each transaction and result in imperfect competition. Only slight opportunity appears to exist to deal with cellers and buyers who do not differ widely in characteristics and circumstances.

Transferring and Pricing Procedures

Buyers learned about the tracts they purchased through the cellers in 59 percent of the cases (Table 30). Sellers often know of prospective buyers and would make contacts personally rather than listing with agents, as agents handled only 23 percent of the transfers. Many of the sellers felt they could sell their places for as much as the agent and would save the commission charges. Only 6 percent of the sellers advertised their land for sele. The medium of advertising used by sellers was the newspaper, while agents used the newspaper, window display, and radio, in a few instances. The buyer learned of a tract for sale through community knowledge in 4 percent of the cases and through a friend in 3 percent of the cases. Other methods made up the remaining 5 percent of the transactions. It is believed that many sellers would have benefited by the use of agents and more advertising to inform more prospective buyers that a given tract is for sele. When sellers handle their own sale contacts with little advertising, the real estats market is limited to a local area in most cases.

Pricing Procedures. An analysis of evaluation procedures was attempted in this study. The theory of future income is accepted as one basis for evaluating land. The extent that this theory was used by the buyers appeared to vary with individual buyers but was difficult to determine. The buyers reported they had estimated the value in 74 percent of the tracts involved and had not estimated the value in 26 percent of the cases (Table 37).

Variations in buyers estimates of the land value were highly significant in the four areas. Information concerning crop yields was obtained by 65 percent of the buyers, while 24 percent of the buyers did not try to obtain this information. A highly significant difference existed among the four areas in

the extent to which orop yields were obtained by buyers (Table 38). Eighty percent of the buyers indicated that they received no help from other professional personnel such as the local bankor or county agent in determining the price paid (Table 39).

The use of recent farm real estate sales as a guide to price setting was expected. Only 16 percent of the buyers indicated the use of specific sales in guiding their pricing decisions. Fifty-six percent of the buyers reported they did not know of recent sales, while 26 percent knew of recent sales, but claimed they did not use these sales as a pricing guide. Many of the buyers indicated they paid about average market price for land (Table 40).

Only 20 percent of the buyers obtained information on net income to use as a pricing guide, while 75 percent of the buyers did not ask for figures on net income of given tracts (Table 41). Inspection of the tract by the buyer occurred in 95 percent of the cases (Table 42). The buyers were able to judge to a cortain extent, the type of soil, amount of erosion, and growth of any crop that may be growing on the land at that time.

It was observed that a relatively large number of buyers stated they were not in the market for land prior to the tract they purchased. It was expected that most buyers had given serious thought to buying land to the extent that they had been looking for some land to buy. The buyers indicated that 65 percent of the transactions involved "quick decision" buying as stated previously, and the location to the buyer's operation influenced the decision to buy (Table 23).

Supers indicated that in 75 percent of the cases no other bidders were involved (Table 22). This suggests a high degree of imperfect competition in the real estate market. Mexee gave several reasons why the lack of bidders

may have existed: (1) The seller priced his tract of land below the general market value and the first person contacted made the purchase, (2) the seller made no effort to contact persons other than the ultimate buyer, (3) the seller contacted a person well acquainted with capabilities of the land, (4) the buyer was everly optimistic in estimating the future returns, and (5) the seller did not advertise or list the tract with an agent.²

Responses of many buyers left the impression that competition is present without another person becoming a bidder. It was indicated by several buyers that the number of people desiring land or the demand for land was a decisive factor in determining price. These buyers must have felt that competition was present; although not a particular bidder, someone would have nurchased the tract, given the opportunity. This does not indicate a perfect market, but loss of an imperfect market than the number of bidders indicate.

Marraining. Bargaining between the sellers and buyers as stated before was less than expected. Active farmers were the largest group in the sellers market. This group consisted of 53 sellers, of which 23 did not participate in price bargaining, while 23 sellers participated in price bargaining with the buyers and sold for less than they were first asking (Table 43). Retired farmers sold with no price bargaining in 12 of 18 cases. He significant differences existed in the extent of bargaining among compations of the sellers.

Some of the sellers may not have been in a bargaining position, as 21 gave financial pressure as the reason for selling, of which 11 were active

¹ McNee, Vermon C. An Analysis of the Farm Scal Estate Market in Cley and Dickinson Counties, Kansas, 1955, p. 18. Unpublished M. S. thesis, Kansas State College, 1957.

farmers. Health and age was the reason in 28 cases for selling (Table 44). The remaining sellers had many and veried reasons for disposing of land and their bargaining positions were difficult to determine without further information.

The buyers reported no price bargaining in 48 percent of the transfers, with 45 of the 94 active farmers indicating no price bargaining (Table 45).

This may indicate that the sellers priced the tract at or below market level and the buyers saw no need for bargaining. On the other hand, the buyers may have been over optimistic about the value of a given tract. To support this indication, 38 of 67 transfers for farm enlargement did not involve price bargaining, while buyers bid lower and paid less in 11 cases compared to 9 cases of no price bargaining when land was bought for an investment (Table 46).

The location of the land purchased did not significantly affect the extent of bargaining (Table 47). Also, the price per acre paid by the buyers was not affected significantly by the extent of bargaining. The class interval of \$160 and up per acre was the only interval where "bid lower-paid less" cases exceeded the "no price bargaining" cases. Anderson and farton-Bussell were areas where the price per acre was higher for "bid lower-paid less" cases than for the "no price bargaining" cases. The greatest spread occurred in the Logan-Michita area with \$7 per acre spread compared to \$2 per acre spread for the Dickinson area. In contrast to the other two areas, 13 "no price bargaining" cases were \$28 per acre less than 12 "bid lower-paid less" cases in the Barton-Russell area and \$3 per acre less for 20 "no price bargaining" cases compared to 18 "bid lower-paid less" cases in the Anderson area (Table 36). This suggests that other factors

influence the price per acre more than the extent of bargaining. The buyers did not consider oil and gas leasing rights an important bargaining factor in 23 percent of the cases, while in 4 percent of the cases these rights were given important consideration. According to the buyers, there was no bargaining involved for the oil and gas rights in the remaining 73 percent of the transactions.

The mineral and royalty rights received little or no bargaining, the sellers apparently being willing to give up any rights they owned. In many cases, part of the rights had been sold at some previous date. Only one tract of land was transferred with no mineral and no royalty rights, this tract being located in the Anderson area. All of the mineral rights were obtained in 63 percent of the cases and all of the royalty rights were obtained in 62 percent of the cases. One-half of the mineral and royalty rights were received by 10 percent of the buyers, while 1/4 and 1/3 share of mineral and royalty rights were received in one case each. Information on the remaining 25 percent of transfers was not obtained. Only in very few cases did the buyers feel that they paid extra to obtain the mineral and royalty rights that they received.

after the bergaining has been completed and a price has been agreed upon by the buyer and the seller, the agreement may stand as an oral agreement, or a written agreement may be drawn up and the major points of the agreement put in writing and signed by each party. The type of agreement used varied significantly among the four areas with 65 percent of the agreements written and 30 percent oral, while 5 percent did not answer (Table 48).

Terms and Financing. Forty-four percent of all transfers were cash transactions. Buyers acquired new mortgages for 46 percent of the transfers and assumed a mortgage for 6 percent of the cases. Information regarding the

length of term of the mortgage was given by the buyers for 60 of the ??

mortgage cases. The information received indicated that 31 percent of all

leans were 30 year leans or more, 25 percent were 20-24 year leans and 18

percent were 5-9 year leans, 10 percent each were 1-4 year and 10-14 year

leans. Pased on the information from this study, it was found that the buyers

were using the long term leans in Anderson and Dickinson areas with only one

30 year lean in Legan-Michita area. The method of financing was significantly different eneng the four areas. Anderson and Dickinson area transfers

were financed primarily by new mertgages, while the transfers in Barton
Russell and Legan-Michita areas were primarily cash transfers (Table 49).

The rate of interest that was charged for farm mortgages ranged from 4.0 to 7.9 percent. A total of 73 cases reported the interest rate with 36 transactions in the 4.0 to 4.9 percent interval, 28 transactions in the 5.0 to 5.9 percent interval, 8 transactions in the 6.0 to 6.9 percent interval, and one transaction in the 7.0 to 7.9 percent interval. This indicates that majority of the buyers "shop" around for a long term loon at a low rate of interest. The source of loans included the sellers, local banks, Federal Land Bank, insurance companies, and individuals. The information obtained was inadequate to give any definite source that was used extensively.

Other Factors. Nest of the buyers felt that a farm real estate appraisal was not needed. They based their belief on the facts that the majority of the buyers had known the land for several years or had farmed it at some previous date. The nonfarmers also felt that an appraisal would not help in most instances. This may explain why 75 percent of the buyers felt that an appraisal would not have helped them to determine the price. Only 5 percent of the buyers had an appraisal made that was not connected with

getting a losn (Table 50).

The relationship between size of tract sold and distance from town was significantly different for the four areas. The 107-239 acre class interval included 37 percent of all transfero. The majority of these transfers were 160 acre tracts, while the 60-37 acre class had 28 percent of the cases with 80 acre tracts being the common size. Sixty-nine of the 142 tracts were in the 0-4 mile range of town, while 50 tracts were in the 5-9 mile range. The town, in many cases, was small and the main objective was to find out the distance to a market for grain products (Table 51).

The sellers in 1956 had other land in 42 percent of the cases according to the information given by buyers. The majority of the sellers with other land were in the two western areas. According to the buyers, 29 percent of the sellers did not own other land; they did not know about the remaining 29 percent (Table 52). The sellers had not farmed the tracts involved in 44 percent of the transfers, while 40 percent had farmed the tract at some previous date or at the time of the sale (Table 53). The sellers in the Parton-Russell and Logan-Michita areas often lived in town and drove out to their farms. The information given by the buyers was inadequate to determine how many sellers lived in town and owned nonfarm real estate (Table 54). Tablee 55 to 62 provide additional information not used in the body of the thesis.

Selected Cases

A complete description of selected cases cannot be given. The questionmaires were held beyond the time available for this thesis in Washington, D. C. for the A.R.S. Great Plains land Pricing Study. A study of selected cases has much nerit. The form real estate market is such a unique market—the musber of transactions is small and each transfer varies in one or more of its characteristics. No set pricing standard or procedure has been developed to fit all the variations that occur in a farm roal estate market.

Replace lend Sold and Farm Polarement. A case located in Anderson

County may be cited as an example of a buyer buying to replace land sold and

for farm enlargement. This individual sold a 160 acre tract of grass and a

97 acre tract with fair improvements and then bought 320 acres that consisted

of 120 acres of cropland and 200 acres of pasture and meadow in one tract.

His farming operation consisted of gen ral farming and a grade A dairy

enterprise. The place was farmed as a complete farm unit and was considered

above average in location value. The location of the farm was on a gravel

road, grade A milk route and eight miles from the county seat. This was a

typical owner-operator case. The family consisted of one daughter approxi
mately 17 years old and two sons approximately 15 and 13 years old. This

owner was in his early 401s and appeared to be a good farm manager. The farm

was financed through a local finance company at the rate of 5 percent for a

term of 20 years. The price paid was \$75 per acre. The farm had an 18 acre

wheat allotment and an estimated wheat yield of 35 bushels per acre.

Investment. The buyer in this case was a nonfarmer living in Anderson County. He was approximately 32-35 years of are. The reason for wanting more land was to enlarge his present 160 acre farm to an efficient farming operation. The opportunity came for this enlargement when a 320 acre tract was put on the market that was located close to his present place. The buyer bought the place and it was rented to his present tenant who was considered an efficient tenant. The buyer felt that he had bettered himself and the tenant by having a complete farm unit under one tenant. Also, a 480 acre farm

would attract and keep a better tenant than would a 160 acre farm. This buyer mortgaged the 160 acres owned and borrowed a high percent of the amount from a local loan company at 5 percent for a term of 20 years. The amount of loan is not recalled. The price paid was 194 per acre. The place was 78 percent cropland with a 75 acre wheat allotment and the wheat yield was estimated at 35 bushels per acre.

Tenant to Owner. This case involved a young farmer approximately 25 years of age. He had been a tenant on a poor farm with little chance of progressing. This young ambitious farmer applied and qualified for a FMA loan. The farm he bought consisted of 240 acres, on a grade A milk route, and located on a gravel road six miles from the county seat. The farm consisted of 75 percent cropland with 29 acres of wheat allotment, with an estimated yield of 25 bushels per acre. The price paid was \$60 per acre.

The FMA loan consisted of 100 percent plus \$2,000 for farm improvement that was used to build a grade A milking parlor and repair the present house and barn. The main farming enterprise involved was a grade A dairy enterprise.

This is a good example of a young farmer who is honest, hard working, and has a desire to become an owner-operator. This young farmer is highly thought of by his neighbors and friends, who have confidence that he will be able to handle this 100 percent loan without difficulty bearing an unusual misfortume.

Other cases. Information on the Barton-Russell and Logan-Wichita areas is not available at this time to describe cases from these areas. Selected cases in Dickinson area are described by MoNes in "An Analysis of the Farm Real Estate Market in Clay and Dickinson Counties, Kansas, 1956" a masters thesis at Kansas State College, 1957.

The above selected cases support the hypotheses that there are variations

in tracts of land and there are variations in judgements and circumstances of buyers and sollers. When the number of transactions are limited in a study, the selected case method helps to show some of the variations that exist in the farm real estate market.

SUMMARY AND CONCLUSIONS

Records show that farm real estate values in Kansas reached an all time high in 1957, during a period of drought and declining farm incomes. This increase in land values appears in conflict with experience prior to 1950 when land values and farm incomes in Kansas followed the same trend. The buyers may have expected higher incomes following 1956 which would support higher land values. Generally, land values respond rather quickly to changes in current income. The land market is made up of value judgements of each buyer and each seller; each individual case will differ. Some characteristics will have more value to one buyer or seller than to another.

This study had the cooperation of A.R.3. in providing data from three areas of the Great Plains Land Pricing Study. This study analysed the results of the buyers in the farm real estate market in Anderson, Dickinson, Russell, Barton, Logan, and Wichita Counties, Kansas in 1956. The analysis includes 142 bona fide transactions without sampling. A typical farm real estate transaction is described in the following section.

A Typical Situation

The modal tract of land was average in quality according to the buyers, with an estimated yield for wheat at approximately 20 bushels per acre. The typical tract consisted of 160 acres and was on a gravel road in Eastern

Kansas or on a dirt road in Western Kansas. The tract lies within nine miles of town with average improvements in the eastern area and no improvements in the vestern area. The typical tract has more than 50 percent cropland with approximately 30 percent of the cropland in wheat allotment.

The typical seller was an active or a rotired farmer who had sold because of health and age or financial pressure. The seller lived in town within the same or adjacent county in which the tract was located and owned other land than the tract sold. According to the buyers, the seller had not farmed the tract sold in 44 percent of the cases, while 40 percent of the sellers had farmed the tract at some given time and the buyers did not know about the remaining 16 percent.

The typical buyer was an active farmer of 40 to 50 years of age, living on another farm within five miles of the tract bought. The buyer knew the seller personally through business and social acquaintances and bought the tract on a "quick decision" with little or no competition from other bidders. The most frequent reason for buying was for farm enlargement. The buyer generally inspected the property, obtained information on crop yields, and then estimated the value of the land to determine the price. A written agreement was used in closing the transaction. The buyer felt that an appraisal was not necessary and would not help to determine the price he would pay. The method of financing most often consisted of new mortgages in Anderson and Dickinson areas and all cash for Barton-Ruesell and Logar-Wichita areas. The typical new mortgage was for 30 years at an interest rate of 4.5 percent.

Conclusions Respect to Hypotheses

This study indicates that the farm real estate market in Eansas has many imperfections when compared with the characteristics of a market which is considered perfect. Variations existed among the tracts of land with respect to characteristics which influenced the price of land. This was found to be true in all four areas.

The hypotheses tested in this study are:

- I. The farm real estate market does not perform perfectly because:
 - 1. There are variations in characteristics among tracts of land.

Variations existed in the quality of land with 65 percent of the tracts considered average by the buyers. A wide range of estimated wheat yields was reported with 21 percent in the 15 to 19 bushel class. The information on carrying capacity of crass was not used because 46 percent of the tracts had little or no grass. The size of tract varied extensively with 40 percent of the tracts in the 100-239 acre class. The kind of road varied among dirt, gravel, and paved with 56 percent of the tracts on gravel roads. Tracts varied in distance to town with 48 percent within four miles while other tracts varied in distance to more than 25 miles. The extent of improvements varied with 47 percent of the tracts with no buildings while 26 percent were reported to have average improvements. The percent of tract in cropland varied in this study with 39 percent of the tracts in the 80-100 percent class. while percent of cropland in wheat allotment varied from 0-19 percent for 53 tracts, 20-39 percent for 55 tracts, 40-59

percent for 30 tracts, and four tracts over 60 percent.

 There are only a small number of transactions in a localized market.

The farm real estate market is a localized market. Only a small number of transactions occur in an area within a year. Majority of the tracts studied were sold by the seller to a buyer with whom he was personally acquainted. Eighty-three percent of the buyers lived within the same or adjacent county in which the tract was located.

3. There is imperfect knowledge among buyers and sellers.

Imperfect knowledge exists among buyers and sellers in the farm real estate market. Encodinge of a tract being offered for sale is often limited to a small number of persons. This eliminates much of the competitive bidding that may prevail and prevents the working forces of competition to act when only one or a few nearby neighbors know that a tract of land is for sale. Advertising or other means to provide more knowledge about the farm real estate market before a tract had been priced would have provided more competition and a smaller percent of the cases transferred on a "quick decision" basis.

 There are variations of value judgements and circumstances of buyers and sellers.

Value judgements and circumstances of buyers and sellers vary with each transaction. A buyer may give a tract a higher value if it joins his farm and he needs additional land for farm enlargement. A seller may have to sell because of financial pressure or various other reasons. With limited information on the sellers, it was felt that the circumstances of the buyers influenced the market more than the circumstances of the sellers. The large number of farmers buying tracts for farm enlargement has tended to support the market price. However, no evidence indicated a premium price was paid for farm enlargement tracts.

5. There is no set pricing procedure in the land market.

No set pricing procedure used by the buyers was detected in this study. Processes used by most buyers were similar to those used in theory. Property inspection, information on crop yields, and estimated land values were used by the buyers to determine the price. It is believed that most buyers included other factors or methods in their pricing procedures not indicated by the information obtained.

- II. The farm real estate markets differ in various parts of Kansas in regard to:
 - 1. The variation of the characteristics of land.

The characteristics of land in this study were significantly different among the areas. The size of tracts transferred varied among areas. There was a significant difference in the kind of roads among the areas. The kind of roads had a significant effect on the price paid in Dickinson and Barton-Russell areas. The distance to town had a significant effect on price in Dickinson area. The variations in extent of improvement and the amount of buildings were highly signifi-

cant among the areas, which affected price in all areas but Dickinson. The differences in the percent of tract in cropland were highly significant among the areas and affected price in Barton-Russell and Logan-Vichita areas. Differences in percent of cropland in wheat allotment were highly significant among the areas. These significant differences affected the price in all areas with the greatest effect on tracts in the two western areas.

2. The variation of each localized market.

The variation in the localisation of markets was not significantly different among areas. The variation in the number of transactions per area, how buyer learned of the land for sale, appraisal made by the buyer, and reasons for buying and salling were not statistically significantly different in wari us parts of Kansas. The extent of bargaining involved no significant differences sacing areas and had no significant effect on price within areas. The extent that an agent was used by the seller in the farm real estate market varied from 12 percent in Anderson area to 35 percent in Legan-ichita area. Other differences involved were small in nature.

3. The knowledge of individual buyors and sellors.

The knowledge buyers obtained on crop yields and estimated land values was significantly different among the areas. There were no significant differences among the areas for the length of time the buyers were on the market, knowledge of recent sales, help obtained from others, and ask for not income figures on tracts involved. Other variations in knowledge of

persons involved were not apparent among the areas.

4. The characteristics and circumstances of buyers and sellers.

The characteristics and circumstances of the buyers and sellers differ in various parts of Eancas. According to the buyers, the sellers in Logan-Michita area sold because of financial pressure in 30 percent of the cases while health and are were given as the prodominant reasons in the other three areas. The seller's occupation varied among areas with active farmers dominating except for retired farmers in Dickinson area. The residence of sellers showed simificant variation among the areas with 52 percent of all sellers living in town.

The buyers were active farmers in 67 percent of the cases in the four areas. The location of the buyers to the tract involved showed there were significant variations in distance among areas with the buyers living on another farm in 80 percent of the cases. The reasons for buying were many and varied among the areas with 46 percent of the tracts bought for farm enlargement. The buyers in Anderson area were younger with 35 percent unter 35 years of are compared to 3 percent in Barton-Russell area. The variations in the methods of financing were highly significantly different among the areas. The method of financing signific ntly affected the price in Anderson and Dickinson areas where the tracts were predominantly financed by new mortgages and Barton-Russell and Logan-Wichita areas involved primarily cash transactions which showed no significant affects on price.

5. The pricing procedures used in determining value of land.

There were statistically significant differences in pricing procedures among the areas in this study. Seventy-five percent of the buyers believed that an appraisal would be of no help in determining price. Appraisal had no effect on price in all areas except in Perten-Russell area at the 10 percent level.

The buyers inspected the property in 95 percent of the cases and obtained information on erop yields on 65 percent of the tracts, which were significantly different among the areas. The buyers estimated the value of land on 74 percent of the tracts and differences were highly significant among the areas with a significant effect on price in Dickinson area.

Recent sales were not used by 56 percent of the buyers as a guide for pricing of land. There were no significant differences among areas in use of recent sale data and these sales had no significant effect on price. The buyers received no help from others in determining price for 80 percent of the tracts in this study; there were no significant differences among the areas. Figures on not income had no significant effect on price within the areas.

This study does not represent the farm real estate market for Kansas as a whole, but only in the given four areas and primarily from the buyer's view.

A more representative sample of the state might be desirable in a future study.

A larger number of transfers would make a statistical analysis nore meaningful and additional subscrting of data would be resultile for a more detailed study.

A detailed gradium system for land and pricing according to grade may be an answer to many uncertainties in knowledge and variations in value judgements that exist in the form real estate market. A grading system for land might be difficult and expensive to develop for practical use by the layman in the form real estate market. A substantial amount of research would be required to provide the needed information to educate the public especially the layman in the form real estate market so it will function with fewer imperfections.

ACENO LEDGICIET

The assistance and guidance given by Wilfred R. Pine, Professor of Agricultural Economics, Kansas State College, in the preparation of this thesis is gratefully acknowledged.

Arlan Feyerhera, Associate Professor of Mathematics, is recognized for his assistance in the statistical analyses. The Statistical Laboratory vork was done under his supervision.

The cooperation and suggestions of Vernon McKee, Charles Nauheim, Virgil Murlburt, and William E. Scofield are appreciated.

The suggestions of others in the Department of Economics and Sociology Manuas State College, are also appreciated.

BIBLICGRAPHY

Books

- Bakken, Henry H. Theory of Markets and Marketing. First edition. Medison, Wisconsin: Mimir Publishers, 1953.
- Barker, C. W., and M. Anshen. Modern Marketing. New York and London: McGraw-Hill Book Company, 1939.
- Crouse, E. F., and C. H. Everett. <u>Enval Appraisals</u>. Englewood Cliffs, New Jersey: Prentice-Wall, 1956.
- Durnier, E. F., and R. B. Heflebover. <u>Fernonies With Application to Agriculture</u>. First edition. *Yeu York and London: McGraw-Hill Book Company*, 1934.
- McMichael, Stanley L. Selling Beal Estate. Third edition. New York: Prestice-Mall, 1950.
- 'isdici, Giusoppe. Principles of Annuisal. (Published in Italy) Republished by Iova State College Press, Ames, Iova, 1953.
- Murray, W. G. Parm Ammuical. Amos, Towns Iowa State College Frees, 1954.
- Pyle, John Freeman. Marketing Principles. Second impression. New York and London: McGraw-Hill Book Company, 1936.
- Renns, Roland R. Land Formatics. New York: Harper & Brothers, 1947.
- Scitovsky, Tiber. Welfare and Germetition. Chicago: Richard D. Irwin, 1951.
- Snedecor, George W., and '. G. Goe'ron. Statistical Matheir. Ames, Towns:
 Town State College Press, 1956.
- Stigler, George J. Theory of Prices. Revised edition. New York: MacMillen Company, 1952.
- Vaughn, Floyd L. Harbeting. New York: Farrar & Rinchart, 1942.

Government and State Bulleting

Goobel, Z. D., A. L. Hornbaker, W. R. Atkinson, and J. N. Jevett. Oil and Cas Pevelerments in Kensas Puring 1955. State Geological Survey of Kansas Bullotin 122. 1956.

- Hoover, Leo M. A Survey of Fanc a Activature. Agricultural Economies Report Ho. 55. Kansas Agricultural Experiment Station. July, 1953.
- March, Charles F., and Wilfred H. Pino. The Value of Fare Real Fetate.
 Kansas Agricultural Experiment Station Bulletin 389. April, 1957.
- Otto, Merton L., Rubert L. Collins, and Wilfrod E. Pins. <u>Trans in Land</u>
 <u>Values in Especia.</u> Kaneas Agricultural Esperiment Station Circular 341.
 August, 1956.
- Kansas Arricultural Experiment Station and Kansas State Planning Board.

 Arricultural Resources of Kansas. Volume XXI, Humber 1°. Kansas State
 College Bulletin 122. October 15, 1937.
- Kansas State Board of Agriculture. Farm Facts 1055-56. 39th Report. Topoka: State Printing Office, 1956.
- U. S. Department of Agriculture. <u>Agricultural Finance Review</u>. Volume 14. Washington: Government Printing Office, November, 1951.
- U. S. Depertment of Agriculture. The Farm Income Situation. September 1956 for 1949-54, March 1957 for 1955-56. Washington: Agriculture Marketing Service.
- V. S. Department of Agriculture, <u>Marketing</u>. The Yearbook of Agriculture, 1954. "ashington: Covernment Printing Office.
- U. S. Department of Commerce. U. S. Conque of Acticulture 1954. Volume I, Part 12. Washington: Covernment Printing Office, 1956.

Journals

The American Farm Economic Association. <u>Journal of Farm Economica</u>, Volume XXXIX, Rumber 5, December, 1957.

Unpublished listerials

McKee, Vernon C. An Analysis of the Farm Real Estate Market in Clay and Dickinson Counties, Kanasa, 1976. Unpublished W. S. thesis, Kanasas State College, Market'an, Kanasa, 1957. APPENDIX

Table 2. Distribution of tracts of farm real estate sold (bons fide males) according to the quality of land as stated by the buyer in Kansas, 1956.

	***	T. W.	Area		
quality of land	: Anderson	: Dieleinsen	Russell-Barton	Anderson : Dielinson : Russell-Barton : Lowen-ichita :	Total
		Mu	Tachers		
Above average	*6	89	E.	11*	33
Average	#62	218	20%	23%	93
Bolow average	**	*	47	34	15
Not ansvered	0	0	m	0	
Total	67	30	R	37	142
		Per	Percent		
Above average	21	20	22	33	23
Average	67	2	62	3	65
Below average	22	CI	5	83	11
Not answered	0	0	m	0	p=1
Total	001	100	100	100	100
Included in X2 test	X2 = 2,7275	.754Pc.90			

Distribution of tracts of farm real estate sold (bone fide sales) according to wheat yields as estimated by the buyer, Kansas, 1956. Table 3.

Wheat yields	8-4	Area	C.I		
(Bushels)	s Anderson :	Diekinson :	Bussell-Barton	: Incon-Mita :	Total
Average yield ner acre sold	27.9	19.7	14.7	*19.8	
1945-54 2	20.4	16.8	13.5	15.1	
		Numbers	97.3		
10 - 14	0	e-i	6	භ	18
15 - 19	0	5	100	6	8
20 - 24	m	•	7	0	Z :
25 - 29	R	4	grej	r-1	100
28-26	20	erd	0	0	H
35 - 39	50	0	0	0	N.
70 - Over	0	0	0	C1 **	N
Not applicable	U	2	93	뒤	×
Total	43	R	1/3	37	775
		Percent	ent		
10 - 14	0	m	288	23	13
15 - 19	0	77	25	77	21
20 - 24	2	8	13	316	15
25 - 29	28	13	m	m	13
30 - 34	23	m	0	0	60
35 - 39	#	0	0	0	7
ZOAO - 07	0	0	0	N.	g-d
Not applicable	2	7	31	2	25
Total	200	100	100	100	100

Drop these two tracts Revised Figures of Kansas State Board of Agriculture. Two tracts which were irrivated and the wheat yielded 60 bushels per acre.

the average is 16.5 bushels per acre.

Table 4. Distribution of tracts of farm real estate sold (bons fide sales) socording to the carrying capacity of grassland as estimated by the buyer, Kansas, 1956.

Cerrying capacity	99	AT	Area		80
(Acres ner animal unit)	* Anderson :	Dielcinson	Pussell-Barton	1 Loman-Mehita	Total
			Numbers		
Not applicable	17	20	22	17	99
0:0	60	7	7	2	23
9-7	16	•	60	~	R
7 - 10	CI	0	2	භ	17
11 - over	0	0	e-i	m	7
Not answered	0	0	0	0	0
Total	73	200	×	37	172
		Per	Percent		
Not applicable	07	29	99	977	97
0-3	50 F	13	22	19	16
9 - 7	37	20	25	20	23
7 - 10	S	0	22	22	12
11 - over	0	0	6.7	to	m
Not angwered	0	0	0	0	0
Total	000	100	100	100	100

Distribution of tracts of farm real estate sold (bona fide sales) according to size, Kansas, 1956. Table 5.

	80	Area	**		**
	1 Anderson	: Dickinson :	Ruesell-Berton	Anderson ; Dickinson ; Russell-Sarton ; Lown-Michita ;	Total
Total transfers	67	28	ĸ	37	175
Average acres	133	375	221	707	225
Acres in tract		Percent	دي		
0 - 59	16	13	0	0	10
66 - 09	33	37	22	19	27
100 - 239	35	07	77	43	07
240 - 399	77	2	16	Ħ	2
614 - 007	N	67	6	77	7
720 - 1499	0	0	m	60	m
1500 - over	0	0	0	***	p-1
Total 100 100	300	100	100	100	100

Table 6. Distribution of tracts of farm real estate sold (bona fide sales) according to Ednd of road on which located, Eansas, 1956.

1	00	Area	200		**
Kind of road	s Andersen	: Dickinson	ndersen : Diekinsen ; hussell-Barten : Lomen-Hebits	: Loren-Mehits	Total
		Eunbers	824		
Tita	28	46	***	22*	35
Gravel	37*	15*	21*	12*	R
Paved	100	€	* 00	2#	26
Not answered	0	0	0	ri	3
Total	73	8	×	37	142
		Per	Percent		
Dirt	7	23	6	99	70
Gravel	73	2	99	R	26
Paved	19	27	25	50	138
Not answered	7	0	0	m	2
Total	300	100	100	100	100
Included in X2 test	X2 = 41.4308	P < .005			

Table 7. Average price per acre of tracts of farm real estate sold (bona file sales) according to kind of read and by area, Kansas, 1956.

	94					A. W.	200				
Find of road	road :	Ande	L'BON		a	ickinson:	Bussal	1-Barton :	Logan-	1	
	***	Casea	99	Price :	4-	Cases : Price :	Cases	00	Cases	Price :	Total
			0.0	per acre		: ner acre:		: ner acre:		t ner acre	
Dirt		8	40	\$39.00	7	\$ 75.71	m	\$ 43.33	23	\$57.17	35
Gravel	7	3		77.23	15	112.27	21	104.52	12	51.42	2
Paved		00		87.88	80	108,38	6 3	135.12	2	60.00	56
Not ag	answered	8		28.50	0		0		0		N
87	rotal.	43		S. III	8	*	R	4	37	S. S.	17.2
Stonich	leance a	t the 5	Der	cent leve	1. (1)	[avel. (F = 4.473)					

△ Significance at the 10 percent level. (F = 3.313) N.S.Not Significant

Distribution of tracts of farm real estate sold (bons fide sales) according to distance to town and market, Kansas, 1956. Table 8.

Distance to town	*	Area	88		
(11100)	s Anderson	Dickinsen	Pussell-Barton	Login - 1chita	Total
		Num	unbers		
7-0	26*	178	477	110	88
615	#24	11%	12#	12#	5
10 - 14	, co	2*	***	Ž.	2 00
15 - 19	0	0	0	0	0
20 - 24	0	0	0	· 6	3 0
25 - OVET	0	0	0	1 0	2 0
Not answered	0	0	C	l e-	1 -
Total	73	8	32	37	142
		Per	Percent		
1	9	57	777	9	~
5-0	500	37	or or	3	100
10 - 14	10	0	000	3	37
15 - 19	0	0	C	f.	1 -
20 - 24	0	0	0	. E.	1 0-
25 - over	0	0	0	, er	1 0-
Not answered	0	0	0	. ~	l gri
Total	100	100	100	000	005

Average price per acro of tracts of farm real estate sold (bonn fide sales) according to distance to town and by area, Kansas, 1956. Table 9.

				Area	98				
Distance to town	ATT	lerson :	Dick	ichinem :	Bossell	-Barton :	Locan-	lichita :	
(M11es)	Cases	Price s	Cases	Price :	Cases	Price :	Cases	: Price :	Total
		100		1					
7 - 0	26	267783	17	17.66 \$	77	\$126.36	12	\$75.42	69
i l	T.	61.60	11	60 701	12	25.58	12	54.75	20
10 - 7k	10	\$0°00	N	123,00	9	95.67	60	70.50	60
25 - 25	C		0		0		N	35.00	N
20 - 26	C		0		0		6/3	35.50	2
Total	27	55	2	E S	8	M.S.	3% 1	*	177

1 One case per cell was not used in F-test, therefore one tract over 25 miles was not included. Significance at the 5 percent level (F = 2.849).

Distribution of tracts of farm real estate sold (bone fide sales) according to quality of improvements as stated by the buyer, Kansas, 1956. Table 10.

Improvement					
	1 Anderson	: Dickinson	Dielinson : Enssell-Barten :	Loren- ichita	Total
		Numbers	orra		
To buildings	11*	17*	16*	23%	67
Above average	2	~	2	50	17
Average	18*	80	and	*7	37
Below average	5	~	9	~	91
Good house, poor			,	(•
other buildings	p-t	0	0	0	H
Poor house, good					
other buildings	0	0	o	0	0
Not answered	r	0	sel	cı	4
	67	R	8	37	277
		Per	Percent		
No buildings	28	23	53	67	77
Above average	16	10	9	*	12
Average	75	27	R	Ħ	8
Below average	12	2	19	6 0	#
Good house, poor					
other buildings	8	0	0	0	
Poor house, good					•
other buildings	0	0	0	0	0
Wot answered	3	0	m	N.	M
Total	100	100	300	100	100

Avorage price per acre of tracts of farm real estate sold (bone fide sales) according to improvements and by area, Lansas, 1956. Table 11.

	00							Ten					
(SC)	Extent of	Am	der	200		Dieki	กรดา	85	h198911	Barton	Lordn	!!tehite	
1	provement	Cases	8	Price	0-0	Cases	Price	00	Cages	Price s	Cases	Cases : Price	Total
				r per acre	1		t ner acre			: Der acre		1 200 8079	
												200	1
	We buildings	12		\$ 49.17		17	\$ 90.53		17	\$107.35	25	200-40	TJ.
	Ahova gomaca	7		118.86		60	134.00		~	226.50	N	45.60	17
	Amamama	-		DE 36		60	770.25		2	83,29	7	39.75	37
	Raliner atmenages	i sc		63.60		0	93.00		9	90.83	(1)	51.67	379
	Total	3	-	*		28	ık		R	**	37	M S	1/17
=	Significance :	t the	20	ercent le	707	(F = 3.	538).						
**	Simificance &	t the	P	ercent le	rel	(F # 4.	818).						
***	Significance a	t the	0.1	percent 1	9407	1 (F =	7.479).						

One case per cell was not used in F-test, therefore one tract with good house and poor other buildings was not included. N.S. Not significant

Table 12. Distribution of tracts of farm real estate sold (bona fide sales) according to percent in cropland, Manera, 1956.

Percent of tract	00	Area	eg.		
in cropland	* Anderson	: Dickingon :	Possell-Barten : Lounn-	Iomn-dohita	Total
		Munh	67.8		
0-3	15*	17. E	11%	***	07
64 - 07	22*	*6	104	*9	27
80 - 100	68	16*	11*	\$22*	55
Total	67	2	R	37	175
		4	rcent		
0 - 39	w 10	17	35	777	28
62 - 07	57	R	R	16	33
80 - 100	77	53	22	9	8
Total	000	100	100	100	100
nelnded in X2 test	X2 = 22,9564	P<.005			

Average price per acre of tracts of farm real estate sold (bone fide sales) according to percent of tract in cropland and by area, Kansas, 1956. Table 13.

n cropland : Cases : Price : Cases : Price : Cases : Frice : Frice : Frice : Cases : Frice : Cases : Frice : Cases : Frice : Frice : Cases : Frice : Frice : Cases : Frice : F		04			CTC	45				
6 \$29.67 0 \$ 772.71 7 672.71 7 672.71 7 677.75 2 67.11 4 95.50 4 67.75 2 113.33 2 55.50 3 17.45 6 93.17 8 105.36 3 6 59.50 11 152.36 22 11 152.36 22	Percent of tract	Crana	price :	Canada	Inscription 1	Russel. Canes	-Barton	Casas	1chita	Total
-10 6 \$429.67 0 \$ 772.71 7 677.72 67.11 4 95.50 4 67.75 2 67.75 2 67.75 3 113.33 2 53.50 3 53.50 3 67.75 6 93.17 8 105.38 3 77.45 6 93.17 8 105.38 3 77.45 6 93.17 8 105.38 3 77.45 6 93.17 8 105.38 3 77.45 6 93.17 8 105.38 3 77.45 6 93.17 8 105.38 3 77.45 6 93.17 8 105.38 3 77.45 6 93.17 8 105.38 3 77.45 6 93.17 8 105.38 3 77.45 6 93.17 8 93		- 6-	r per acres		1 DOT ACTOR		: per acrei		s per acre	
9 67.11 4 95.50 4 67.75 2 113.33 2 53.50 3 113.33 2 53.50 3 113.33 2 53.50 3 113.53 2 53.50 3 11 152.36 22 13 15.36 22 14.5. 77 18.5. 72 1	0 - 10	9	19.67	0	49	7	\$ 72.71	2	\$25.57	20
- 59 11 85.55 3 113.33 2 53.50 3 - 79 11 77.45 6 93.17 8 105.38 3 17.45 6 93.17 8 105.38 3 17.45 11 15.36 22 17.45 11 15.36 22 17.45 11 15.36 22 17.45 11 15.36 22 17.45 11 15.36 22 17.45 11 11.50 11.50 11.50 11 11.50 11.50 11 11.50	-	0	67.11	7	95.50	7	67.75	es	53.00	19
-79 11 77.45 6 93.17 8 105.38 3 -100 6 89.50 16 108.19 11 152.36 22 Total 73 11.5. 20 1 11.5. 20 1 11.5.	1	텀	85.55	m	113.33	ev	53.50	3	42.33	19
Total /3 N.S. 20 1 N.S. 20 1 N.S. 22 P.	-	11	77.45	S	93.17	60	105.38	m	48.33	23
73	ı	9	89.50	16	108.19	11	152.36	Si.	67.95	53
	Total	1.3	S. S.	29 1	100 PM	84	6549	37	*	177

Significance at the 5 percent level (F = 3.944). Significance at the 1 percent level (F = 5.040). Not significant. S. E. # #

Distribution of tracts of fays real estate sold (bons fide sales) according to porcent of eropland as stated by the buyer in wheat allotsout, Ransas, 1956. Table 14.

Percent of cropland	40	45	800		
in wheat allotment	s Anderson	Dickingon	Dickinson : Russell-Parton	I Locar- ichita	Total
		West	Wanbers		
0 - 19	33	29.8	*6	*6	33
20 - 39	#CI	15*	*7	26**	55
65 - 07	0	H	18	-	8
62 - 09	0	g1	r	0	N
80 - 100	0	r	10	ri	N
Total	73	200	R	37	142
		Ter	Percent		
0 - 19	77	2	23	57	37
20 - 39	23	22	13	2	07
65 - 07	0	37	56	~	21
62 - 09	0	3	m	0	rl
80 - 100	0	67	0	m	
1000	300	100	100	100	100
Included in X2 test	X2 = 36.8283	P < .005			

Distribution of tracts of furn real estate sold (bona fide sales) according to the smout of building, Ransas, 1956. Table 15.

	2	Area			
Amorant or bulldings	: Anderson	s Diekinsen	2 Russell-Barton	: Loren-Michita	: Total
		Kuni	Rumbers		
No house, no other					
buildings	11%	N. T.	16"	23*	67
No house, other					
buildings	2	0	4	7	13
House, no other					
bulldings	r-1	g(0		3
House, other					
buildings	27%	12*	12*	46	57
Not anguered	0	0	0	0	0
Total	67	2	×	37	142
		Percent	sent		
No house, no other	3	1			
Fo house, other	92	27	20	8	47
buildings	75	0	13	7	11
buildings	ev	m	0	~	83
House, other					
buildings	R	07	37	77	97
Not answered	0	0	0	0	0
Total	CCT	100	100	700	100
Traffed for 72 bond	W. 1 62 / F. 10	1000		THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS N	

Distribution of twacts of farm real estate seld with house and other buildings (born file sales) according to the adequacy of buildings as stated by the buyor, Ransas, 1956. Table 16.

		A5	Area		90
Adequacy of buildings	Anderson	Dickinson	: Anderson ; Dichinen ; Russell-Barton ; Loman-Mohita ; Total	1 Lowen-Mohita	r Total
		Num	Wenbers		
o, not adequate	0	eri	0	CK	3
Tes, adequate	23	10	24	2	52
Not adequate now.					
could be fixed	erd	-	0	0	ev
Not answered	0	0	0	0	0
Total	57	77	75	0	24
		Per	Percent		
O. not adequate	0	භ	0	æ	K
Yes, adequate	8	22	100	బ్	16
Not adequate now,		4		(•
could be fixed	7	100	0	0	7
Not anguered	0	0	0	0	0
Total	100	100	100	100	100

Average price per acre of tracts of farm real estate sold (bone fide sales) according to amount of building and by area, Eansas, 1956. Table 17.

Amount of : Anderson : Dicidness : Price : Cases : Frice : Trice : Tri						20			60	
: Cases : Price : Cases : Frice : Gases : Frice : Cases : Frice : Frice : Cases : Frice : Frice : Cases : Frice : Cases : Frice : Cases : Frice : Frice : Frice : Cases : Frice : Cases : Frice : Frice : Frice : Cases : Frice : Frice : Frice : Cases : Frice : Fric	Amount of	Ande	rson	Dick	s uosa	Pringel	-Bertm	Loren	ichita :	
thgs 11 \$49.73 17 \$ 90.53 16 \$105.44 23 \$60.67 br 7 65.57 0 4 105.50 4 55.75 24 89.38 12 121.75 12 110.75 9 44.89 24 89.38 12 121.75 12 110.75 9 14.89 25 1 88.5 29 1 88.5 12 110.75 9 14.89 1	buildings	Cages	: Price :	Cases	: Price :	Cases	Price :	Cases	2	Total
Ings 11 \$49.73 17 \$ 90.53 16 \$105.44 23 \$60.67 br 7 65.57 0 4 105.50 4 55.75 0 0 0 0 24 89.38 12 121.75 12 110.75 9 44.89 12 1 87.3			t per acras		1 ner acrot		1 her acres		1 ner acres	
Ings 11 \$49.73 17 \$ 90.53 16 \$105.44 23 \$60.67 IT 7 65.57 0 4 105.50 4 55.75 O 0 0 0 24 189.38 12 121.75 12 110.75 9 44.89 12 1 87.3 29 1 87.5 12 110.75 9 14.89 12 1 87.5 12 110.75 12 110.75 9 14.89	on serion of									
ther 7 65.57 0 4 105.50 4 55.75 ther 0 0 0 0 0 r 24, 89.38 12 121.75 12 110.75 9 44.89 12 12 12 32 1 18.5. ase per cell was not used in F-test, therefore one tract in each of Anderson, Dickinson.	other buildings	디	\$49.73	17		16	\$105.44	23	\$60.87	67
her . 0 65.57 0 4 105.50 4 55.75 her . 0 0 0 0 0 0 24 89.38 12 121.75 12 110.75 9 44.89 22 1 *** 29 1 *** 32 11.85. 10 per cell was not used in F-test, tierefore one tract in each of Anderson, Dickinson.	lo house, other									
24 89.38 12 121.75 12 110.75 9 44.89 12 per cell was not used in F-test, tierefore one tract in each of Anderson, Dickinson.	buildings	5	65.57	0		7	105.50	7	55.75	15
24 89.38 12 121.75 12 110.75 9 44.89 1 2 1 10.75 9 1 14.89 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	louse, no other									
24 89.38 12 121.75 12 110.75 9 44.89 12 12 11 10.75 9 1 14.89 12 12 12 12 12 12 12 12 12 12 12 12 12	buildings	0		0		0		0		0
24 89,38 12 121,75 12 110,75 9 44,89 12 12 12 12 15 9 14,89 12 12 12 12 12 12 12 12 12 12 12 12 12	ouse, other									
Total 29 1 88 29 1 88 36 1 N.S. 139 1 One case per call was not used in F-test, therefore one tract in each of Anderson, Dickinson.	buildings	27.	86.68	12	121.75	22	110.75	0	68.77	57
1 One case per call was not used in F-test, therefore one tract in each of Anderson, Dickinson,	Total	£2 I	本章	29 1	中本	8	100 PE	36.1	M.S.	139
	1 One case per	cell vas	not used in	F-test.	therefore of	se tract	in each of	Anderson.	Diekinson.	

and Legar-Mehita areas with house and no other buildings was not used in test. Significance at the 1 percent lovel (Anderson - F = 5.171, Dichinson - F = 9.403). Not significant.

Distribution of sellers of farm real estate (bone fide sales) according to the reasons for selling as stated by the buyers, Kansas, 1956. Table 18.

			Area		***
RESERVED TOL SELLING	Anderson	t Dick reer	: Presell-Berton	Lowen-Tenita	: Total
		N. C.	Numbers		
Financial pressure	-	3	4	H	19
Fanily	7	p=6	0	0	50
Health and age	10	7	60	9	500
Take nenthra feb	0	7	0	C	7
Had chance to sell	1	(0)	0 (1	(m)	16
Other use for money	H	3	4	150	13
Reduce size of farm	0	0	0		8-1
Renting not satinfactory	~	g-d	H	0	1
Buy other land	0	p-i	0	ev	m
Other reasons	23	C O	6	~	31
Not answered	7	2	. (1)	2	15
Estates	0	0	N	0	N
Total	43	8	R	37	775
		Per	Percent		
Financial pressure	~	H	5	R	33
Femily	6	m	0	0	7
Health and age	57	33	255	16	19
Take nonfurm job	0	a	0	0	3
Had chance to sell	19	H	9	හ	H
Other use for money	N	H	23	77	6
Reduce size of farm	0	0	0	3	-
Renting not satisfactory	2	67	m	0	7
Buy other land	0	60)	0	50	N
Other reasons	500	26	200	50	R
Not answered	0	9	9	19	H
Estatos	0	0	9	0	
Tobal.	500	100	100	300	300

Table 19. Distribution of sellers of farm real estate (bona fide sales) according to occupation as stated by the buyors, Kansas, 1956.

Occupation of	84	AT	801		
3977673	: Anderson :	Dickingen :	Resell-Barton	1 Logsp-Montts	: Total
		Numbers	ers		
Active famer	16	10	122	20	53
Retired farmer	r-I	10	0	rd	13
Housevile	3	O.	ın	77	77
Wonfarmer, profession	13	p-1	0	. 61	35
Honfarmer, labor	rd	7	7	g=4	10
Wenfarmer, business	p-1	~	ri	7	00
Nonfarmer, retired	3	77	0	· CV	6
Corporation	0	0	p-1	r	N
County, state, federal	0	0	0	r-1	e~!
Not answered	20	C1	m	H	11
Total	43	29	24	37	172
		Percent	out		
Active farmer	200	17	37	20	37
Retired farmer	03	33	19	(4)	13
Houserife	2	2	16	H	10
Wonfarmer, profession	30	~	0	***	THE STATE OF THE S
Wonfermer, labor	0	13	13	W	7
Wonfarmer, business	Cri	2	m	H	9
Nonfermer, retired	7	13	0	20	9
Corporation	0	0	3	W	r-1
County, state, federal	0	0	0	64/	p=4
Not answered	24	2	0	M	60
Potel	100	200	200	201	300

Distribution of sellers of farm real estate (bona fide sales) according to residence as stated by buyers, Mansas, 1956. Table 20.

	**	Az	tros		
Residence of seller	* Anderroom	1 Dickinson	Anderson : Dickingen ; Dussell-Barton ; Logan-Merita :	r Logsn-Michiba	: Total
		Nuabers	900		
On farm sold	13*	\$	3#	意	53
On another farm	*	*	A	114	27
In town	#6T	16*	27.5	22#	77
Not anguered	77	S	6	64	21
Total	43	8	R	37	775
		Percent	tue		
On farm sold	8	17	6	sv.	97
On enother farm	16	2	6	30	17
In town	777	53	50	9	525
Not anguered	10	20	53	rv.	15
Total Total	100	100	100	200	100
# Included 4n 12 tout	X2 = 13.2770	025< P< .05	NAME OF THE PARTY		

Table 21. Distribution of buyers of farm real estate (bona fide sales) according to occupation, Kansas, 1956.

Occupation of	94	Area			
buyer	1 Anderson 1	Dickingen : Russell-Barten	7Barten	Lo-en-Vichits	Total
,		Numbers			
Active farmer	27	23	27	23	76
Retired farmer	en	-	0	7	-
Housenife	grod		7	; f	0
Monfarm, profession	0	H	. (1)	2	11
Wonfarm, labor	30		0	e	H
Wonfern, business	0	rd	el		3
Wonfarm, retired	N	0	e-l	0	50
Farm and nonfarm	•—	0	. 2	0	(1)
Corporetien	0	0	0	0	0
Total	43	20	22	37	775
		Percent			
Active farmer	63	20	9	33	67
Retired farmer	50	~	0	07	5
Housewife	C	THE PERSON NAMED IN	3	2	9
Wonfarm, profession	0	m	6	13	€0
Nonferm, labor	23	~	0	m	80
Wonfarm, business	0	m	2	3	N
Wonfarm, retired	80	0	2	0	N
Farm and nonfarm	2	0	9	0	N
Corporation	0	0	0	0	0
E 40 E	100	ייר	C	100	100

Distribution of tracts of farm real estate sold (bons fide sales) according to the competition received from other bidders as stated by the buyer, Kansas, 1956. Table 22.

Competition from	: Anderson	; Dickinson	krea : Russel -Perton	s Loran-Wichits	Total
		M	Numbers		
No other bidders	62	25	20	33	107
1 other bidder	N	~	m	0	9
other bidders	~	~ 1	*	N	디
other bidders	3	٦	pri	0	20
other bidders	0	0	-1	0	e-l
5 or more bidders	prel	Н	=(0	3
Not answered	50	-	pri	2	0
Total	43	8	R	37	175
		Pe	Percent		
No other bidders	89	50	63	06	75
1 other bidder	50	2	0	0	7
	2	3	316	rv.	60
	7	67	9	0	3
other bidders	0	0	m	0	ş— t
5 or more bidders	2	3	M	0	3
Not answered	11	3	m	N	80
Total	100	300	130	100	טטר

Table 23. Distribution of buyers of farm real estate (bone fide sales) according to the longth of time in the market, Kansas, 1956.

Length of time in	*	A	Area		81
the meriet	: Anderson :		Dickingon : Presell-Barton : Jorn-Michita	Iomn-Mehits	Total
		Mond	Wanbers		
quick decision	27*	20*	27%	22*	93
0 - 6 months	40	2	.01	7	77
- 12 months	gml	N	: מ	10	2
Over 12 months	3	87	700	***	22
Aluers	0	0	0	7	7
Not answered	0	N	0	0	N
Total	43	30	R	37	142
		Percent	out		
Outek declaten	63	29	75	59	65
0 - 6 months	77	9	Q	F	9
- 12 months	2	9	O	20	10
Over 12 months	21	77	2	77	15
Alvays	0	0	0	=======================================	3
Not answered	0	9	0	0	C
Total	100	100	100	100	100
Included in X2 test		.50<.P<75			

Distribution of buyers of farm real estate (bone fide sales) according to residence, Ransas, 1956. Table 24.

		and end,	Area		
Residence of buyer	: Anderson :	Dickinson	Dickinson : Russell-Brytrn : Lomny-Tichita	Loran-Tichita	Total
		Musi	Numbers		
On farm benight	en	2	ri	0	9
On enother farm	27.	20%	16*	27*	20
In toun	16*	***	15#	13*	22
Total an allowed	C	C	0	0	0
Total	73	R	X	37	775
		Percent	ent.		
On farm bought	2	9	m	0	7
On another farm	200	67	200	65	\$
In town	37	27	27	35	2
Not answered	0	0	0	0	0
Total		100	100	100	100
Included in X- test	X2 = 2,7022	.25 < P < . 50			

Table 25. Distribution of buyers of farm real estate (bons fide sales) according to ags, Ransas, 1956.

Age of burer	***	Area	The state of the s		
(Years)	Anderson	: Dieldneen ;	: Russell-Barton	: Lown-Hightta	Total
		Numbers	sre		
Under 25	7	0	0	0	7
25 - 34	Ţ	C)	g=1	7	100
35 - 44	10*	6*	80	10%	35
45 - 54	P.	10*	***	***	37
	and a	T. C.	#.07	8%	18
- 65 - over	4	5	N	\$	17
Total	73	R	R	37	742
		Percent	snt		
Under 25	6	0	0	0	m
25 - 34	26	2	m	11	12
	77	22	25	27	24
45 - 54	97	33	238	8	26
55 - 64	76	23	38	16	23
65 - over	0	17	9	16	72
Total	100	100	300	100	100

Table 26. Average price per sere of tracts of farm real estate sold (bone filds sales) according to age of buyer and by area, Eansas, 1956.

Total		0.0					AT	rea					10
1 Cases : Prios : Cases : Frice : Cases : Frice : Cases : Price : Cases : Frice : Cases : Frice : Cases : Price : Cases : Frice : Cases : Price : Pr	Age of	: Jedno	Ande	35.30	TIC.	Dick	: ucsu	Bung	911-1	Serven :	Local	Michita	00
i : Dogr acros: : Dographic	(Year	(8)	Cases	00	Price :	Cases	: Prica :	Casa	**	Price :	Cases	: Price	: Total
ler 25 4 \$71.50 0 \$ 0 \$ 0 \$ 78.75					per acres		: por acres		**	per acres		I Des Ber	1
-34 11 64.45 2 104.00 0 4 78.75 -44 11 83.55 6 91.67 8 81.25 10 62.30 -54 7 72.29 11 97.91 9 113.44 11 40.82 - 64 6 90.67 5 129.80 12 119.42 6 53.00 - and over 4 63.50 6 99.50 2 113.50 6 57.83 Total 4.3 18.5 20 113.50 6 57.83 11 10.50 6 11.35 11 10.50 11.35 1	Under	25	7		\$71.50	0	61	0		49	0	40	7
-44 11 83.55 6 91.67 8 81.25 10 62.30 -54 7 74.29 11 97.91 9 113.44 11 40.82 -64 6 90.67 5 129.80 12 119.42 6 53.00 - and over 4 63.50 6 99.50 2 113.50 6 57.83 1	25	34	뒤		64.45	N	104.00	0			7	78.75	17
-54 7 74.29 11 97.91 9 112.44 11 40.82 -64 6 90.67 5 129.80 12 119.42 6 53.00 - end over 4 63.50 6 99.50 2 113.50 6 57.83 - Total 4.3 18.5 30 13.5 11 1.5. 37 18.5 11 - case per cell was not used in F-test, therefore one tracet with a buyer of 25 - 34 years of	35 - 1	77	디		83.55	9	91.67	60		81.25	10	85.30	35
-64 6 90.67 5 129.80 12 119.42 6 53.00 - and over 4 63.50 6 99.50 2 113.50 6 57.83 Fotal 43 N.S. 30 N.S. 31 N.S. 37 N.S. 1 Respect cell was not used in F-test, therefore one tract with a buyer of 25 - 34 years of	45 - 1	75	2		74.29	H	97.91	0		113.44	11	28.07	38
Fotal 43 N.S. 30 6 99.50 2 113.50 6 57.83 Fotal 43 N.S. 30 N.S. 31 N.S. 37 N.S. 1 Respect cell was not used in F-test, therefore one tract with a buyer of 25 - 34 years of	55 - 6	24	9		90.67	20	129.80	23		119.42	9	53.00	8
fotal 43 N.S. 30 N.S. 31 N.S. 37 N.S. one one per cell was not used in F-test, therefore one tract with a buyer of 25 - 34 years of	65 = 1	and over	4		63.50	9	99.50	es		113.50	9	57.83	133
case per cell was not used in F-test. therefore one tract with a buyer of 25 - 34 years of	-	[ota]	63		E S	2	N	31		S. P.	37	N. N.	177
		1			ot need in	F-test.	therefore c	ne tre	ot w	ith a buye		- 34 years	of

M.S. Not significant.

Distribution of tracts of farm real estate sold (bone fide sales) according to the location of the buyers to land bought, Kansas, 1956. Table 27.

Location of buyers	0.0		Tree		
to land bount	s Anderson	: Dickinson	; Anderson ; Dickinson ; Passell-Serton ; Lower-Mehit	: Lomen-Michita	Total
		Nu	Numbers		
On farm bought	~	2	ri	0	9
Within 5 miles	20%	21#	***	104	9
Some or adjacent county	100	. 49	204	15#	25
Elsewhere in state	7	eri	ri	10	16
Out of state	el	0	0	eri	N
Not answered	50	0	r	l el	2
Total	43	30	R	37	775
		Ba	Percont		
On farm bought	2	7	6	0	7
Within 5 miles	27	2	100	27	73
Same or adjacent county	23	8	63	077	38
Elsewhere in state	2	3	2	27	11
Out of state	-	0	0	· 6/1	p-I
Not answered	23	0	m	י ניין	20
Total		100	100	100	100
Included in X test	0	P. 2005			

Average price per acre of tracts of farm real estate sold (bons fide sales) according to location of buyers and by area, Kansas, 1956. Table 28.

00				Arre	26			84	
96	Arde	reen s	Dick	TARON :	Russe	1-Barton	Logan	lichita :	
land bonght	Cases	Cases : Price :	Cases	Cases : Frice :	Cases	o : Cases : Price : Cases : Price : Total	Cacos	: Price	Total
On farm bought	m	\$124.67	N	\$ 86.00	0	€9	0	49	er
Athin 5 miles	20	80.55	21	105.19	6	115.67	10	72,30	9
Same or adjacent									
county	10	66.80	9	93.50	20	105.00	15	43.53	51
deschere in state	4	62.75	0		0		10	8	375
lot answered	80	26.00	0		0		0		10
Total	1 07	4	1 0C	S	200	C N	2K 1	*	126

Significance at the 5 percent level.

Significance at the 10 percent level.

elsewhere in state, and one tract each for Russell-Barton and Logan-Wichita areas was not answered. These tracts were not included in the test. areas with out of state buyer, one tract each for Dickinson and Russell-Darton areas with a buyer One case per cell was not used in F-test, therefore one tract each for Anderson and Logan-Nehita 4 1

Not significant. N.S.

Distribution of tracts of farm real estate sold (bone fide sales) according to personal acquaintance of buyer and seller, Kansas, 1956. Table 29.

Sellers had personal	610	A	Area		
accomintance with buyer		: Dickinson	Missell-Barten	I Lomn-Wichita	Total
		First	Fusbers		
	77*	. 47	36	15*	77
s. business	6#	34	***	10*	56
Yes, socially	#9	13*	17.	*9	33
s not answered	0	0	rrl		5~1
	16*	*7	**	. 2*	26
	mi	7	61	g-l	80
	67	8	R	37	277
		Per	Percent		
Oii	33	13	28	17	8
Yes, business	77	17	16	27	50
Yes, socially	77	777	77	16	27
Yes. not answered	0	0	m	0	rl
Tes. business & socially	37	13	m	77	138
Not answered	e	13	9	ev	9
	100	100	300	100	100

Distribution of buyers of farm real estate (bone fide sales) according to how they learned of the land for sale, Kansas, 1956. Table 30.

of land for sale : Anderson Seller Friend Community Encyledge 4 Agent Agent Agent Agent Advertisement 5* Advertisement 5* Total	A s Dieldneon : Runbers 20* 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ausgell-Barton s 15° 2 2 6° 4 4	Loren-Vichita	Totel
dty knowledge femont femont oral				
dty knowledge .1sement swered otel	\$0000 HO	<u>2</u> ~ 4 4 5 6 4 4 0		
dty knowledge fsement swered otal	00000000	พผ ชิญ ๙ ๐	22.*	2
dty knowledge .1sement swered otal	08040	୷୕୕ଌ ୕ଋ ୯୦	0	7
1sement swered otel	* ************************************	20 N NO	0	9
.isement marked otal	010	N 40	13*	33
	но	40	ผ	6
	0	0	0	100
)		0	0
	30	R	37	175
	Percent	ant		
Seller	67	1.77	66	59
	0	6	0	3
Commutity knowledge	0	9	0	7
	2	19	35	23
Advertisement 12	0	9	9	9
	~	13	0	50
Not angvered	0	0	0	0
Total 100	100	100	100	100

Distribution of buyers of farm real estate (bons fide sales) according to reasons for buying as stated by the buyers, Knesss, 1956. Table 31.

Reasons for buying	Anderson	t Dickinson	res Russell-Barten	: Loman-Michilla	Total
		Muse	Numbers		
Replace land sold	9	mi	2	0	0
Enlarge farm	16*	16#	12*	200	67
Greater wheat allotment	0	0	0	C	C
For son or relative	2	80	1 Km	0	32
Rural residence	2	0	7	0	11
Tenant to owner	7	77	' erl	ı eri	101
Investment	6*	*77	**	* **	23
Other ressons	2	0	. (1)	i kn	0
Not answered	0	0	! erl	.0	· gm
Total	43	20	2	32	777
		Per	Percent		
Replace land sold	7	67	9	0	9
Balarge farm	37	24	37	3	87
Greater wheat allotment	0	0	0	0	0
For son or relative	7	17	16	0	60
Rural residence	36	0	13	0	60
Tenant to owner	2	1	(4)	67	2
Investment	77	2	16	R	16
Other reasons	50	0	9	13	9
Not answered	0	0	m	0	erd
Total	100	100	100	100	200
Y2 tout	C = 3 6500	50 / 50 / 50		XX8	

Distribution of buyers of farm real estate (bons fide sales) according to pressure to buy as stated by the buyers, Kanses, 1956. Table 32.

Presentes to her	00	Area		90	
An a second	s Anderson :	Dickinson : Re	ussell-Barton	Anderson : Dickinson : Russell-Barton ; Locan-Michita ;	Total
		Numbers			
O.H.	38	29	31	×	130
Tes, could not rent	2	0	0	0	R
les, before schedue	r	<	e	•	•
ar augmon agra	4 (7	-	2
Yes, other reason	H	0	0	g-4	N
es, not answered	0	0	0	ri	H
Not answered	H	H	0	N	7
Total	67	99	N	37	775
		Percent			
No	8	26	16	88	92
Yes, could not rent	80	0	0	0	٢
Ies, before someone					
else bought it	2	0	~	m	N
Yes, other reason	N	0	0	m	H
Yes, not answered	0	0	0	m	-
Not answered	N	~	0	N	m
Total	100	100	100	100	100

Distribution of buyers of farm real estate (bona fide sales) according to occupation and by reasons for buying, Kansas, 1956. (all areas) Table 33.

				Reasons for Buying	or Buring					
Occupation of buyer	Replace: land:	Farm enlarge ment	: Farm : Larger: :enlarge-:allot-: : ment : ment :		: Relative: residence	Tenent: to:	Invest- ment	: : Not : :Other:answered:Total	Not	Total
				110						
				STACIFIC	era					
Active farmer	80	62	0	9	80	6	6	7	H	76
Retired farmer	0	H	0	-	0	0	m	N	0	7
consentte	H	-	0	m	es	0	63	0	0	6
	0 [H	0	0	0	0	6	r-i	0	Ħ
fonfara, laborer-						1				1
clerical	el	es	0	-1	7	0	7	0	0	12
Nonfarm, business	0	0	0	0	0	0	r-i	es	0	m
Nonfarm, retired	es	0	0	0	0	0	H	0	0	m
Both farm and nonfarm		H	0	mi	0	H	0	0	0	m
Total		67	0	27	#	9	23	6	e-l	172
			•	Per	Percent					
Activa	26	26	0	20	97	8	13	57	100	8
Retired farmer	0	-	0	60	0	0	13	22	0	S
Souseville	Ħ	H	0	26	18	0	0	0	0	9
Monfarm, professional Monfarm, laborer-		Н	0	0	0	0	8	Ħ	0	100
	Ħ	7	0	100	Ж	0	18	0	0	0
Monfarm, business	0	0	0	0	0	0	7	R	0	N
Monfarm, retired	S	0	0	0	0	0	7	0	0	0
Both farm and nonfarm		-	0	භ	0	10	0	0	0	N
Total	100	100	0	100	100	100	100	100	100	100

Average price per acre of tracts of farm real estate sold (bone file sales) according to reasons for buying and by area, Kansas, 1956. Table 34.

				Area	96			00	-
Party Party Party Party	Ande	ar gon	Dic		Kitsee	Russell-Berton	Locan	Lown-Hohits	E
serious 101 such uses	100 mm m	: Der acre:		rases : Frice :	000000000000000000000000000000000000000	: por acres	2000	I DOT BETTER	Toron.
Replace land sold	9	\$ 66.50	0	40	01	\$ 64.50	0	-00	60
Farm enlargement	16	69	16	76.501	12	67	23	56.57	49
Larger allotments	0		0		0		0		C
Relative	2	54.50	5	118.80	10	07.651	0		12
Rural residence	2	115.29	0		7	143.25	0		H
Tenant to owner	7	64.25	4	97.75	0		0		60
Investment	9	60.50	7	83.00	NO.	111.20	60	51,12	23
Other	N	77.50	0		N	00.16	*	61.60	6
Total	43	S. S.	291	M.S.	301	E.	78	\$00 E	138

our ease per cell was not used in F-test, instructs one tract bought to Feplace land sold in Dickinson area, one tract each for Russell-Darton and Logan-Wichita areas bought for tement to owner, and one tract in Russell-Barton area was not answered and those tracts were not included in the test.

N.S.Not significant.

Distribution of tracts of farm real estate sold (bone fide sales) according to extent of bargelaing as stated by the buyers by area, Kansas, 1956. Table 35.

	**	A	lrea		92
Extent of bargaining	s Anderson	r Mekrinson	Dickinson: Russell-Barton	I Locan Michits	r Tedal
		Home	firmbers		
No bergeining	20*	17%	13*	18*	68
Bid lower, paid seme	64	H	2	N	2
perd	800	114	12%	130	75
	 I	0	4	r 1	9
Seeled bid	grej	0	Н	0	2
Hot engwered	-	~	0	m	2
Total	43	8	R	34	742
		Per	Percent		
No bergeining	27	57	77	67	87
Bid lower, paid sens	10	m	9	ev.	7
pa.d	42	37	祭	35	33
Apetion	63	0	7	m	7
Sealed bid	~	0	m	0	2
Not anguered	N	~	0	¢a	7
Total		100	100	100	100
d in X2 test	X2 = 5788	75.4P4.90			

Average price per acre of tracte of farm real estate sold (bona filde sales) according to extent of bargaining and by area, Manasa, 1956. Table 36.

***				Are	of a				
Entont of	Anderson	Pach 1	Dick	a acen	Russell	-Derton 8	Long	min	
	Casos	Cases : Frice : Cases : Frice : Cases : Frice : Cases : Frice : ner acre: : ner acre:	Cases	Price s	Cases	Price :	Cases	00 00	Total
o price bargaining	20	\$74.55	17	\$101.41	13	\$ 93.31	18	\$59.78	68
Bid lover, paid asking price	61	05.79	O		હ્ય	174.00	CI	34.50	9
Eld lower, paid	<u>a</u>	77.39	Ħ°	16.96	27	121.25	No	52.65	27
Not answered	200	201	NO 60	28 1 N.S. 31 1 N.S. 35 1 N.S. 135	105	S. M	W.X.	65.00 W.S.	135

One onse per coll was not used in F-test, therefore one tract each for Anderson and Logan-Wichl areas was sold by auction, one tract in Dickinson area the buyer had bid lower, paid same, one tract each for Anderson and Logan-Wichita areas was sold by sealed bids, one tract each for Anderson and Dickinson areas was not answered, and these tracts were not included in the test.

Not significant

M.S.

Table 37. Distribution of buyers of farm real estate (bona file sales) according to estimation of land values made by the buyers, Ransas, 1956.

Total Total Total Total Total Total Total Last Last		-
3* 12* 00 0 43 30 7 63 93 37	ell-Barton : Locar-Mic	bita : Total
34 15** 4.3 15** 7 63 30		
43 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		28
43 00	26*	104
43 70 63 90 34 63		0
93 37 0	2 3	. 175
63		
93		26
0	57 73	7/4
		0
Tetal 100		100

Distribution of buyons of farm real estate (bons fide sales) according to the information obtained on erop yields as stated by the buyons, Kansas, 1956. Table 38.

Burer obtain information	***	200	C. C		04
on erron violes	s Anderson :	Dickingen :	Bragell-Rarton	I Lomn-Hohita	rotal
		Mashers	STO		
Did not try	P.	67	34	16*	K
Tried	22	0	0	0	C
Found out	29*	*77	22*	172	8
Not applicable	7	-	m	7	2
Not answered		·	0	0	2
Total	43	8	R	37	172
		Percent	ent		
Did not try	16	7	S	43	24
Tried	50	0	0	0	-1
Found out	67	8	S	977	65
Not applicable	6	m	6	1	00
Not anguared	2	3	0	0	N
Total	100	100	100	100	100
Y2 tout	CTT. CT = 5x	-01 < P < -005			

Distribution of buyers of farm real estate (bona fide sales) according to the belp received from others as stated by the buyers, Kansas, 1956. Table 39.

*Help from others	. And weem :	Dickinnon	: Munnell-Barton : Ican-Stehita : Total	Loren-Hobita	Tota
		None	Nuchors		
We help	****	23**	27,44	35	114
Tes, but no help	3	3	0	0	9
Yes help given	幸を行	447	意意	R	8
Total	43	28	8	37	775
		Perc	Percent		
We help	712	11	75	36	8
Tes, but no help	2	2	0	0	4
Yes, help given	19	13	22	un.	16
3000	100	100	100	100	100
Help from others refer to county agents, local banker, or other professional help in determining unite of the tract.	to county agents,	local benker	or other profess	fonel help in dete	gululuk
Transland in 72 hard	T2 = 7 2527	RO 1 D 4 75			

Table 40. Distribution of buyers of farm real estate (bons fide sales) according to knowledge of recent sales, as stated by the buyers, Kansas, 1956.

Aroa		
Dickinson : Magell-Barten :	Lown-Mehits	Total
Numbers		
12*	21*	8
20%	13%	37
eri	0	10
0	m	15
0	0	0
R	37	175
Percent		
38	57	25
K	35	26
m	0	7
23	60	H
0	0	0
100	100	100
	100	100

Table 41. Distribution of buyers of farm real estate (bons file sales) according to acquisition of figures on net income as stated by the buyers, Kansas, 1956.

Buyer ask for	90	Az	Area		
figures on not income	1 Anderson	Dickinson	Anderson : Dickinson : Pussell-Barton : Loran-Michita	Logan-Mehita	Total
		Man	Numbers		
Did not sak	31*	2298	25#	60	106
Could not determine	2	0	0	0	C
Cot information	10*	200	**	*6	59
Not answered	0	5	0	.0	30
Total	43	8	R	37	775
		Perc	ercent		
Did not ask	22	2	200	2	75
Could not determine	20	0	0	0	-
Got information	23	10	22	75	20
Not angwered	0	17	0	0	7
Total	100	300	001	OUF	100
X2 tant	2311 C = CX	75/0/00			

Table 42. Distribution of buyers of farm real estate (bone fide males) according to inspection of property as stated by the buyers, Kansas, 1956.

A STATE OF THE STA	•••	Arct	ria di	01	
suyer inspected property	: Anderson :	Dielinson :	Passell-Sarton	Inforson : Dieffinson : Russell-Barton : Locan-Mehita :	Total
		Number:	E-R		
No.	0		ri	ery	7
Yes	43	27	E.	, si	135
Not answered	0	0	0	0	0
Total	43	8	N	37	142
		Percent	at		
Mo	0	10	m	¢o	10
Yes	100	06	26	8	36
Not answered	0	0	0	0	0
Total	100	100	100	001	200

Distribution of tracts of farm real estate sold (bons file sales) according to extent of bargaining and occupation of seller, Kansas, 1956. (all areas) Table 43.

Extent of ; tive bargaining ; far- ; mer No price bargaining 23*		Po-				-					
guing	TOTAL O	pod r	Re- : tired : House- : far- : wife :	Non- farm pro- fession	Non- : farm farm : bust.	Non- : farm : farm : busi- : labor: ness :	Non- farm re- tired	Corp. :	Govt. Co.,State	* Not : s angvered :Total	Total
						Numbers					
		12*	*6	*	¥O.	Н	W	н	Н	9	88
Bid lower, paid less 23*		*	*9	7#	4	9	Н	0	0	£C.	75
Other 7		Н	H	Ø	Н	m	~	H	0	н	20
Total 53		18	16	16	10	7	7	01	н	ដ	77
						Percent					
No price bargaining 43		29	26	77	50	Ħ	43	50	100	20	87
Bid lower, paid less 43		23	38	77	07	43	7	0	0	27	38
Other 14		10	9	77	10	43	43	50	0	to	አ
Total 100 100	100		100	8	100	100	100	100	100	100	300

Distribution of sellers of farm real estate (bone fide sales) according to occupation and reasons for selling, as stated by the buyors, Tansas, 1956. (all areas) Table 44.

***				Reserve	ng for se	2011 122						
Documetion : of seller :	Financial pressure	: Family	Hoalth sago	Take spon form	s Had schance s to	Other : use : for	s free s	* not s setto-	Buy rother	t Other	: Not sanswared	Total
						Nembe	123					
Active ferner	11	3	9	C.	7	2	mi	0	N	77	m	53
Retired Parmer	1 .40	0	6	0	-	ri	0	0	0	4	C	100
Hones: 1fe	63	0	9	0	r	H	0	m	0	m	0	16
fonfarmer,												
professional	1 2	0	m	0	7	0	0	0	ri	2	H	16
Honfurser,												
Laborer	N	Н	0	C1	pri	e	0	ri	0	rl	0	2
Fonfarmer,												
postness	~	0	N	0	CV	H	0	C	0	0	ri	2
Honfarmer,												
retired	R	0	N	0	0	0	0	H	0	-	el	2
Corporation	0	0	0	0	0	0	0	0	0	gerl)	H	N
Gowt.	0	0	0	0	0	0	0	0	0	0	-	H
Not answered	0	H	0	0	3	H	0	0	0	N	su.	7
Total	22	50	80	4	16	13	e-i	5	m	K	15	1/2
						Perce	ant					
Active farmer	52	8	22	S	252	53	200	0	S	45	S	3
Retired farmer	7 36	0	R	0	9	00	0	0	0	13	15	17
Housevile	2	0	22	0	9	6 0	0	3	0	10	0	H
Nonfarmer,												
professional	20	0	2	0	132	0	0	0	33	18	0	Ħ
Nonfarmer,		1										
Taborer North Tortage	OI	50	0	2	9	15	0	8	0	m	0	2
business	7	0	2	0	22	හ	0	0	0	0	S	su.
Sonfarmer,												
retired	30	0	2	0	0	0	0	8	0	m	9	5
Corporation	0	0	0	0	0	0	0	0	0	3	9	-1
Govt.	0	0	0	0	0	0	0	0	0	0	9	e-i
Sot answered	0	202	0	0	19	60	0	0	0	2	33	60
Total	100	100	100	200	500	000	-	-	0000	2000	Welliam .	4000

Distribution of tracts of farm real estate sold (bona fide sales) according to extent of bargaining and occupation of buyer, Ransas, 1956. (all areas) Table 45.

84				Occumentary of Carreir	To To		-	0-1	
Extent of : Active : Retired : House- : Monfarm : Monfarm bereafing : farmer : farmer : wife : profession : labor	Active	: Retired	: House- :	Nonfarm	Extent of : Active : Retired : House : Nonfarm : Nonfarm : areafulne : farmer : farmer : wife : profession : labor :	Nonfara	: Nonfarm : Farm & :		Total
					Kumbers				
No price									
bargeining Bid lower.	57	4	rv.	7	5	N	N	ri	63
paid less	*	m	3	9	N	grad	0	~	Z
Other*	25	0	ri	greli	es	0	p=1	0	20
Total	76	7	6	1	27	m	en	m	142
					Percent				
No price									
bargaining Bid lower.	87	22	28	×	777	29	29	33	877
paid less	50	43	33	55	57	200	0	67	23
Other	27	0	11	6	91	C	33	0	77
Total	300	200	200	100	COL	200	100	COL	TOO

answered.

Distribution of tracts of furn real estate sold (bone file sales) according to extent of bargaining and reasons for buying, Kanees, 1956. (all areas) Table 46.

			Contract of the contract of th		The same of the sa		The same of the last	-		-
Extent of s	Replaces Jand	s Para s senlargo-s	Larger allot-	shelativ	s Paral s	Tonant	Tryest-	Other	s Not s answered	rotal
					Freeberra			Î		
No price	7	R	0	647	7	w	6	40	0	83
31d lover,					, 4		. 4			
paid less	m	17	0	0	40	in i	Ħ'	7	H	K
Thete	N	N	0	0	100	0	100	0	0	202
Total	0	67	0	H	#	2	23	0	el	775
					Percent					
To parice	**	T.	C	6	*	٤	8	Ş	c	61
Bid lover.	3	2		2	2	R	67	2	>	D/y
paid less	33	22	0	25	×	2	877	77	100	38
Other	22	16	0	0	800	0	13	0	0	1
Total	300	300	C	300	200	100	200	8	100	001

Distribution of tracts of farm real estate sold (bone fide sales) according to extent of bergaining and location of buyer to land purchased, Esness, 1956. (all areas) Table 47.

	1		Location to land murninged	and marches	2		
Extent of bargaining	on a	Vithin :	Same or : adjoining : counties :	Elseuhare in ntate	cther :	Not	1 Total
			Nanbero			,	
No price bargaining	7	280	238	100	0	9	63
Bid lower, paid less	es	22	200	28	61	m	×
Other**	0	10	63	erê	0	rt	8
Total	9	99	K	316	N	2	775
			Percent				
No price bargaining	67	17	57	63	0	43	97
Bid lower, paid less	33	×	39	耐	100	67	R
Other	0	17	97	9	0	77	77
Total	100	200	300	200	100	300	100
** Other includes bid lover, paid asking price, author, sealed bide, and not answered.	or, padd a	elding price.	auotica, soale	d bide, and	not answere	ii.	

.90 < P < .95 X = 1212 " Included in X2 test

Table 48. Distribution of buyors of farm real estate (bors fide sales) according to type of agreement on price, Kansas, 1956.

	Type of agreement	•	A	hrea		
	on price	Anderson	Dielrinson	Anderson : Dickinson : Passell-Barton : Komm-Hichita	Ioran-Michita	Total
			Numbers	bers		
	Oreal	8	17*	659	13*	75
brap	Written	3%	12*	270	23*	693
-	Not angresed	m	rH	2	ri	2
	Total	43	8	19	31	775
			Per	Percent		
	Orel	77	22	19	35	8
-	Written	8.	07	224	g ~	50 x
_	Total		100	100	100	100
L	Included in X2 test	2	P < .005			

Distribution of buyers of farm real estate (bons fide sales) according to mathed of financing, Kansas, 1996. Table 49;

Method of financing	Anderson	1 Dickinson	Area Russell-Barton :	Locen-Mehite	Total
		Wu	Runbers		
111 cash	14.	*	21*	20%	63
Contract	0	0	0	el	H
Assume nortgage	-	-1	2	7	60
er mortgage	27*	21*	1	10*	65
Both, old & new mortgage	ri	0	0	e-l	N
Other	0	0	0	ed	-
Trade, included as payment	0	0	0	0	0
Share erop basis	0	0	0	0	0
ot anguered	0	0	8	0	N
Total	43	8	8	31	142
		Ø CI	Percent		
All cash	33	27	99	25	77
Contract	0	0	0	9	
Assume mortgage	2	~	9	20	9
ev mortgage	63	2	22	27	97
Both, old & new mortgage	03	0	0	m	H
Other	0	0	0	m	ri
Trade, included as payment	0	0	0	0	0
Share crop basis	0	0	0	0	0
Not angwered	0	0	•	0	m
	300	100	100	100	100

Distribution of buyers of farm real estate (bons fide sales) according to the appraisal obtained, Ransas, 1956. Table 50.

Appraísal obtained	61	Area			
by burer	1 Anderson 1	Dickingen : Phesell-Barton	seell-Barton	Lowen-Mehita	Total
		Numbers			
No, no belp	28	23	25	31	107
No. may help	-1	r-i	0	m	80
Yes, not for loan	0	7	m	e -1	80
Yes, for loan	77	O	5	es	ね
No. no coment	0	0	r-i	0	H
Total	73	8	R	37	775
		Percent			
We no help	65	14	8	7/3	75
No. may help	C	m	0	භ	7
Tes, not for loan	0	គ្	6	6	5
Yes, for loan	33	7	6	*^	15
No. no coment	0	0	m	0	~
Total	100	200	100	200	100

Distribution of tracts of farm real estate sold (born fide seles) according to acres in tract and distance to town, Nameses, 1956. (all areas) Table 51.

4	***	Distance to	town (Hiles)	64	
Acres in tract	7-0 1	5-9 8	10 - 1%	15 - over :	Total
		Mumbers			
0 - 59	10	cı	63	0	77
66 - 09	26*	*6	N	2	8
100 - 239	27*	25%	0	greet	20,00
240 - 399	*	8	s greet	0	20
672 - 007	7	7	N (N)	0	10
720 - 1499	ri	gred	0	0	7
1500 - over	0	0	0	0	101
Total	69	50	18	130	777
		Percent			
65 - 0	15	7	11	0	01
66 - 09	38	18	11	07	28
100 - 239	8	20	20	20	8
240 - 399	OF	13	9	0	12
612 - 007	Q	60	11	0	2
720 - 1499	ri	82	0	07	- 60
1500 - over	٥	0	1	0) p=
Total	100	100	200	300	100

Table 52. Distribution of sellers of farm real estate (bone fide sales) according to owning other land as stated by the buyer, Names; 1956.

Sellers own	50	Ax	80.		
other lend"	: Anderson :	Dickinson	Anderson ; Diekinson ; Russall-Barton ; Lomen-Mohita	Lowen Wichita	Tota
		Brank	Numbers		
No	16**	12##	****	544	7
Yes	1544	**6	2244	事業の	25
Don't John	. 100	· m	7	000	10
Not anguered	7	0	e0) gred	10
Total	67	8	8	37	775
		Per	ercent		
No	37	07	22	13	8
Tes	33	8	34	3	77
Don't know	19	2	13	R	16
Not answered	0	20	25	~	13
Total	100	100	100	100	100

* This information about the seller was given by the buyer.

Distribution of the sellers of farm real estate (bons fide sales) according to if they had ferred the land as stated by the buyer, Kensas, 1956. Table 53.

Hed seller	0.0	A	rea		
farmed land	s Anderson	; Dickinson	Dickinson : Massell-Barton	: Iomn-litchita	Total
		From	Kumbers		
Mo	10*	13%	17.	17%	3
Yes, at time of sale	77.	6.0	9**	13#	23
Ies, a previous date	M	~	6%	m	H
Yes, date not given	· M	es	e=1	0	9
Don't know	2	23	7	m	1
Not answered	5	7	භ	el	16
Total	43	20	R	37	175
		Per	Percent		
No	77	43	77	97	777
Yes, at time of male	33	8	19	372	20
Yes, a previous date	7	07	9	භ	60
Yes, date not given	2	2	m	0	4
Don't know	7	7	M	60	9
Not answered	2	13	25.	3	20
Total	100	100	300	001	100
Included in I2 test	X2 = 1.42%	-50×P×-75	200	4555	ı

Distribution of sellers of farm real estate (bone fide sales) according to ouning nonfarm real estate as stated by the buyers, Eansas, 1956. Table 54.

Had seller owned	60	Ar	ires .		
nonferm real estate	. Anderson :	Dickingon	Anderson : Dickinson : Russell-Barton : Komm-Michita ; Tota	Loren Michita	Tota
		Funbers	XET'S		
No	ISes	**6	887	847	35
Tes	10##	1044	1344	10#	73
Don't know	#	9	60	R	27
Not answered	7	10	2	H	17
Total	43	R	R	37	375
		Percent	sent		
No	27	R	13	#	25
Tes	23	×	07	27	8
Don't know	56	8	12.5	53	33
Not answered	6	16	83	m	2
Total	100	100	300	100	100

This information concerning the seller was given by the buyer. Included in \mathbb{R}^2 test $\mathbb{R}^2 = \mathbb{R}_0 \mathbb{L} \mathbb{R}_0$, 0.025 < P < 0.05

Distribution of sellers of farm real estate (bons fide sales) according to the distance they lived from land sold as stated by the buyer, Eaneas, 1956. Table 55.

Targette action		AZ	Area		
lived from lend sold	s Anderson	f Dickinson	Russell-Sarton	1 Locan-lifehita	Tota
		Munbers	STR		
On land sold	13*	28	Ä	**	23
Within 5 miles	101	5.0	3*	s77	S
Same or adjacent county	10*	*6	10*	17.*	43
Elsewhere in state	500	5*	**	12*	56
Out of state	0	77	CV.	~	H
Not answered	~	80	2	cu .	17
Total	43	8	क्ष	37	172
		Per	Percent		
On land sold	8	17	6	*	16
Within 5 miles	23	17	6	Ħ	13
Seme or adjacent county	23	2	R	SP .	K
Elsewhere in state	2	2	22	33	00
Out of state	20	2	9	100	60
Not angwared	2	379	23	30	77
Total	100	100	100	100	100

Distribution of tracts of farm real estate sold (bore fide sales) according to acres in tract and distance to county seat, Mansas, 1956. (all areas) Table 56.

Numbers Numb			81		Distance	ance o count a	aat (Miles)			
### ### ### ### ### ### #### #### ######	0	es in tract	7-0 :	5 - 0	1		20 - 27.	25 = over	: Not	1 Tetal
2 10° 4 6° 6° 14° 6° 6° 14° 6° 14° 6° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10						Number	2			
9 10° 4 6° 6° 6° 6° 10° 8° 10° 11° 12° 6° 14° 8° 10° 11° 12° 10° 11° 12° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10		0 - 59		1	80	m	tr/	0	0	77
3 13* 12* 6* 14* 8 0 0 0 0 0 2 15 32 28 24 23 19 15 32 28 24 23 19 16 31 18 12 13 0 17 17 0 0 0 10 0 0 0 0 0 2 6 61 43 2 61 63 10 0 0 0 0 0 2 664 12 13 2 7 17 17 2 8 61 43 2 8 61 61 2 8 61 61 2 8 61 61 2 8 61 61 2 8 61 3 8 61 3 8 61 4 8 61 4 8 61 4 8 61 4 8 61 6 8 61 6 9 0 0 0 0 0 0 0 5 60 5 60 5 60 5 7 60 5 7 7 7 7 7 0 0 0 0 5 7 7 7 7 7 0 0 0 0 5 8 7 7 7 7 7 0 0 0 0 5 8 7 7 7 7 7 0 0 0 0 5 8 7 7 7 7 7 7 0 0 0 5 8 7 7 7 7 7 7 7 0 0 0 5 8 7 7 7 7 7 7 7 7 0 0 5 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		66 - 09		10%	7	*9	9	4	0	8
1 5 2 4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		100 - 239		in the	7	49	17.	100	0	56
15 32 28 24 23 19 15 32 28 24 23 19 16 31 14 25 26 17 16 7 17 0 26 100 100 100 100 100 2 test X2 = 1.23 .50		240 - 399		27	2	7	0	10	0	17
15 22 28 24 23 19 15 32 28 24 23 19 16 31 14 25 26 21 20 41 43 25 61 43 10 100 100 100 100 100 2 there		614 - 007		m	m	W	0	-	0	10
15 32 28 24 29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		720 - 1499		0	0	2	0	ri	p-6	7
15 22 28 24 23 19 Percent 13 3 18 12 13 0 41 43 25 26 21 20 41 43 25 26 21 7 16 7 17 0 26 0 0 0 0 9 0 5 0 0 0 7 0 0 5 100 100 100 100 100 2 test X2 = 1.23 .50<		1500 - over		0	~	0	0	0	0	2
Percent 13 3 18 12 13 0 20 41 43 25 26 21 7 16 7 17 0 26 0 0 0 0 0 5 100 100 100 100 100 2 test X2 = 1.23 .50<		Total		R	50	77	23	19	H	142
13 3 18 12 13 0 20 41 43 25 26 21 7 16 7 17 0 26 0 9 11 12 0 5 0 0 7 0 0 0 100 100 100 100 100 2 test X2 = 1.23 .50<						Petron	t			
60 31 14 25 26 21 20 41 43 25 61 43 7 16 7 17 0 26 0 0 0 9 0 5 0 0 7 0 0 0 100 100 100 100 100 2 test X2 = 1.23 .50		0 - 59		m	18	75	13	0	0	10
20 41 43 25 61 43 7 16 7 17 0 26 0 9 11 12 0 5 0 0 7 0 0 0 100 100 100 100 100 2 test X2 = 1.23 .50<		66 - 09		K	77	25	56	21	0	28
7 16 7 17 0 26 0 9 11 12 0 5 0 0 9 0 5 0 7 0 0 5 100 100 100 100 100 100		100 - 239		47	43	25	19	63	0	23
0 9 11 12 0 5 0 0 9 0 5 0 0 7 0 5 100 100 100 100 100 100 2 test X2 = 1.23 .50		240 - 399		16	7	17	0	26	0	77
0 0 0 0 0 5 0 0 7 0 0 0 100 100 100 100 100 100 100 2 test X2 = 1,23 .50		614 - 007		0	Ħ	72	0	w	0	7
100 100 100 100 100 100 100 100 100 100		720 - 1499		0	0	6	0	M	100	n
100 100 100 100 100 100 100 100 100 100		1500 - over		0	7	0	0	0	0	H
2 test X2 = 1,23 .50 <p<.75< td=""><td></td><td>Total</td><td></td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td></p<.75<>		Total		100	100	100	100	100	100	100
		Included in	N	X2 = 1.23	E	<-75				

Table 57. Distribution of buyers of farm real estate (bona fide sales) according to occupation and appraisal of land, Fansas, 1956. (all areas)

	3	Appra	Appraisal of land			80
Occupation of buyor	: None made :	None made	r Yes, not	r Yes, for	: No, no	Total
		100	Nabers			
Active farmer	68	ev	R	18	m	76
Retired farmer	2	0	0	C	C	-
Housevile	2	0	0	0	C	0
Monfarm, professional	60	el	ret	H	0	' 1
salaried	6	g=1	C	C	C	32
Monfarmer, business	CV	F	0	0	C	6
Nonfarmer, retired	~	0	0	0	C	, e.
Both farm & nonfarm	, em	0	0	C) C	\ e
Corporation	0	0	0	0	0	10
Total	107	10	භ	디	·	775
		p.	Percent	•		
Active farmer	63	07	63	38	100	99
Retired farmer	2	0	0	0	0	10
lousevife	2	0	25	0	C	1
Nonfarm, professional Nonfarm, labor, clerical,	2	8	22	4	0	80
salaried	100	20	0	30	C	0
Nonfarmer, business	N	30	0	0	0	0
Monfarmer, retired	~	0	0	0	C	0
Both farm & nonfarm	2	0	0	0	0	61
Corporation	0	0	0	0	0	0
Total	200	100	200	300	200	***

Table 58. Distribution of buyers of farm real estate (bons fide sales) according to owning nonfarm real estate, Kansas, 1956.

Own nenfarm		Area	et	81	
real estate	Anderson :	Dickinson	s Russell-Burton	Locan-foldta	Total
		Members	173		
Mo	33*	22*	17.5	27#	6
	£0	\$ 60	*6	000	33
Yes, business property	0	0	. 67) =	1
Yes, both	0	0	67	2	0
Yes, not answered	0	-	0		0
Not angresed	Ci	0	0	C	200
Total	67	8	R	37	775
		Percent	at		
	72	2	2%	35	65
Yes, residential property	19	27	28	. 81	23
Yes, business property	0	0	6	er.	-
Yes, both	0	0	0	16	2
Yes, not answered	0	~	0	en en	-
Not answered	7	0	0	0	
Total	100	100	100	300	200

Table 59. Distribution of buyers of farm real estate (bons fide sales) according to plans for adding more land to their farms, Kansse, 1956.

Plans for adding	**	Area	88		
more land	t documents t	Dieldpeen	Buscell-Barton	Lown-Wichits	Total
		Munbors	ors		
No	7	7	13	22	77
res, purchase	6	2	N	100	8
ies, rent	0	0	gri	0	grad
fes, not anguered	0	C)	0	9~	59
Yes, rent & purchase	0	0	0	0	0
	27	13	16	16	2
Total	67	30	×	33	775
		Percent	ont		
O	16	07	77	R	K
Yes, purchase	27	30	9	ম	32
les, rent	0	0	m	0	prof
les, not answered	0	2	0	2	C
les, rent & purchase	0	0	0	0	0
fot answered	63	43	52	67	22
Total	200	100	200	100	200

Distribution of buyers of farm roal estate (bons file seles) according to occupation and location to land purchased, Kanses, 1956. (all areas) Table 60.

	3		Locati	Location to land	muchased				00	
Occupation of buyer	r On	. Within . 5 miles	 		: Elsewhere : in	0 6	Out of state	: Not		Total
				Mus	Numbers					
Active farmer	9	87		27	ත		C	607		76
Retired farmer	0	en.		2	g-1		C) po		-
Housenife	0	7		en	I CI		C	C		- 0
Wonfarm, professional	0	t grel		100	101		0	0		'H
clerical	0	m		80	m		0	gre		32
Honfarm, business	0	p=		· CV	0		0	C		6
Wonfarm, retired	0	0		N	0		0) grei		100
Both farm and nonfarm	0	0		N	0		0	t gre		, en
Total	9	9		51	16		N	31		775
				Per	Percent					
Activo farmer	100	E		53	200		100	77		99
Retired farmer	0	N		4	2		0	77		5
Houseuffe	0	4		0	72		0	0		9
Monfarm, professional	0	e-d		15	22		0	0		10
Monfara, laborer,										
clerical	0	S		10	19		0	74		0
Confarm, business	0	e-1		4	0		0	0		N
Nonfarm, retired	0	0		7	0		0	77		N
Both farm and nonfarm	0	0		7	0		0	77		N
Total	200	300		100	טטנ		100	100		000

Table 61. Distribution of tracts of farm real estate sold (bone fide sales) according to extent of bergaining and pressure to buy, Mansas, 1956. (all areas)

	Press	ressure to buy	
Trient of barcalning	No pressure	s Other reasons	Tetal
		Numbers	
No price bargaining	63	v	85
Bid lover, paid asking price	N	N	2
Bid lover, paid less	2,5	CV ·	*
Sentod bide	0 0	0,	91
lot answered	4 6/	40	m ~
Total	130	121	775
		Percent	
No price bargaining	87	97	80
Bid lower, paid asking price	4	1	v
Bid lower, paid less	07	100	33,
Auction	N)	0	7
Sealed bid	e	0	rox
Not anguered	es	0	i su
Total	100	100	100

Table 62. Distribution of tracts of farm real estate sold (bone fide eales) according to the month of the year the transaction occurred, Eamses, 1956.

			The second		80
Menth of year	s Anderson	r Dielelanna	Prassall-Barton	. Loren-Tehita	Tota
		Munit	Numbers		
January	\$			N	13
February	7	~	en	7	25
March	0	0	1 (1)	. sv	16
April	7	0	0	2	H
May	0	80	0	eri	22
June	50	7	C.	en!	22
July	C.	r e-d	~	0	9
August	10	7	4	Ó	29
September	601	617	· s-i	eri	60
Cetober	m	m	l evi	1 ~4	12
November	· CV	a erd	C)	.0	10
December	~	2	0	~	9
Not anguared	H	;-1	g=4	~	2
Total	67	8	R	37	375
		Perc	Percent		
Jamary	13	2	6	w	6
February	6	2	22	30	H
March	15	2	0	a	A
April	0	0	0	29	60
May	0	17	8	67	90
Jane	3	A	9	6	60
July	~	60	0	0	4
August	12	23	า	16	23
September	2	92	m	m	9
October	2	20	9	23	60
Hovenber	*	~	9	0	4
December	7	2	0	50	7
Not answered	N	67	M	20	50
Total	300	300	100	300	300

A STUDY OF THE FARM REAL ESTATE MARKET IN KANSAS

छ

HAROLD ARNOLD BERENDS

B. S., Kansas State College of Agriculture and Applied Science, 1957

AN ABSTRACT OF A THESIS

submitted in partial fulfillment of the

requirements for the degree

HASTER OF SCIENCE

Department of Economies and Sociology

KANSAS STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE Farm real estate values reached a record high in 1957. This was after several years of lower farm incomes. A few states and the U.S.D.A. set about to loarn more about the farm real estate market. This study is a part of the effort. Buyers and sellers involved in bona fide transfers in 1956 in Anderson, Dickinson, Russell, Barton, Logan, and Wichita Counties in Kansas were surveyed by personal interview. Only the buyers questionnaires (142) were analyzed for this thesis. The buyers provided some information about the sellers.

The Typical Situation. The model tract of land transferred was average in quality according to the buyers with an estimated yield for wheat at approximately 20 bushels per acre. The typical tract consisted of 160 acres and was on a gravel read in Eastern Hansas or on a dirt road in Western Hansas. The tract was within nine miles of town with average improvements in the eastern area and no improvements in the vestern area. The typical tract had more than 50 percent cropland with approximately 30 percent of the cropland in wheat allotment.

The typical seller was an active or a retired farmer who had sold because of health and age, financial pressure, or a chance to sell. The seller lived in town within the same or adjacent county and owned other land than the tract sold and about one-half of the sellers had farmed the land.

The typical buyer was an active farmer of 40 - 50 years of age, living on another farm within five miles of the tract bought. The buyer knew the seller personally and bought the tract on a "quick decision" with little or no evidence of competition from other bidders. The most frequent reason for buying was for farm enlargement. The buyer generally inspected the property, obtained information on crop yields, and then estimated the value of the land

to determine the price. A written agreement generally was used in closing the transaction. The buyer felt that an appraisal was not necessary and would not help to determine the price he would pay. The method of financing most often consisted of new mortgages and all cash transactions. The typical new mortgage was for 30 years at an interest rate of 4.5 percent

Conclusions. This study indicates that the farm real estate market has many imperfections when compared to a market which is considered perfect.

- I. The form real estate market does not perform perfectly because of:
 - 1. Variations in characteristics among tracts of land.

Significant variations existed in kind of road, distance to town, extent of improvements, percent of tract in cropland, and percent of cropland in wheat allotment.

2. Only a small number of transactions resulting in a localized market.

A small number of transactions were involved, which were sold by sellers to persons they knew personally in the same or adjacent county.

3. Imperfect knowledge among buyers and sellers.

Extent of knowledge of tracts being offered for sale was limited. Competition was rejuced by apparent lack of bidders, which led to many cases being transferred on a "quick decision" basis.

4. Variations of value judgements and circumstances of buyers and sellers.

Variations exist in reasons for buying, reasons for selling, such as financial pressure.

5. We set pricing procedure in the land market.

Processes used by most buyers were property inspection, information on crop yields, and estimated land values. No set pricing procedure was detected in this study.

- II. The farm real estate markets differ in various parts of Kansas in regard to:
 - 1. Variations in the characteristics of land.

Variations in kind of road, distance to town, extent of improvement, percent of tract in cropland, percent of cropland in wheat allotment were significantly different among the areas and affected prices within the areas.

2. Variations in localization of markets.

There were no significant differences among the areas.

- 3. Variations in knowledge of individual buyers and sellers.
 - only information obtained by buyers on crop yields and estimated land values were significantly different among the areas.
- Variations in characteristics and circumstances of buyers and sollers.

Variations of residence of sellers, location of buyers, and method of financing were significantly different among areas and affected the price in many cases.

 Variations in pricing procedures used in determining value of land.

Information on crop yields and estimated land values were significantly different among areas. The farm real estate market has many imperfections. Additional information and new procedures are needed to correct these imperfections.