THE DEPENDENCY OF THE PRICES OF FARM ESTATES ON ARABLE LAND AND FOREST LAND AREAS IN FINLAND IN THE YEARS 1961, 1962 AND 1966.

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It is the aim of this research to expose the determinants of the sales prices of farm estates in Finland in the years 1961, 1962 and 1966, using empirical methods. It is particularly endeavored to clarify the dependency of the sales price of farm estates on the agricultural land and forest land areas by means of regression analysis. Of the many uses of land, only its agricultural and forestry-economic use are examined. However, the practising of other than full-time livelihood, for instance side-line jobs, is not contained in this research. Owing to the defectiveness of statistical material available it has not been possible to observe explicitly the value of the buildings on farms nor the quality of the land, and these deficiencies will certainly influence the results. For testing the hypothesis, used as a starting point of the research, there are used cross-section samples of sales of farm estates during the years 1961, 1962 and 1966 (Leponiem and Lammi), especially collected for the purpose.

From among several alternatives, such as interviewing the sellers, consulting the taxation statistics and collecting the data from the notaries publics through the census offices, the last-mentioned was chosen for several reasons. Since the notaries publics usually record the land register number of the real estate sold, the selling price, the seller and the buyer, but not, as a rule, the area of the farm, additional information had to be acquired from the provincial surveying offices.

To enable as accurate recording as possible of the normal selling price, the following were eliminated: sales of land in units less than 2 hectares; sales between relatives; land sold by the heirs and sales of the deceased persons' estates; sales where the State or a municipality appeared as the seller or the buyer; sales where the selling price included pensions or other privileges; donations and mutual exchange of real estate; sales made by or to firms. Also, so-called sales among friends were excluded. And a number of sales had to be disregarded on account of ambiguous land register entries. The final sample consisted of 2,555 sales accounting for no more than 6.1 per cent of the original sample in 1961, 1457 sales (3.7 per cent) in 1962 and of 1290 sales (2.3 per cent) in 1966.



Building up the hypothesis

From the viewpoint of micro-economics the sales price of a farm estate reflects the estimates of both the buyer and the seller, which estimates contain, in addition to the return value of the land, also components, such as the proximity of schools and service centers as well as other environmental factors. Although the sales price of a farm estate most often depends very much on the area of the estate, it can be assumed that on the average, the buyer considers the estate as an:

- 1) investment object,
- 2) a working place, and
- 3) a residence. (Nõu 1955).

However, in this research it is only possible to observe the investment component of the sales price.

On observing the behaviour of the buyer of a farm estate, we now limit ourselves to a case in which other factors of production than the agricultural and forest land are not considered, the rate of interest is constant and the unit prices of the products of the arable land and the forest are also constant. Thus, for the sake of simplicity, it is assumed that the farm estate continually produces a return of equal size, y_t per year, or $y_t = y_0$, if $0 < t < \infty$.

The variables in the model are marked by the following symbols

y_o = the value of the produce of the farm estate, mk

y₁ = the value of the produce of the arable land area of the farm estate, mk

 y_2 = the value of the produce of the forest land area of the farm estate, mk

K= the total area of the farm estate in hectares, K=P+M

P = the arable land area of the farm estate in hectares

M = the forest land area of the farm estate in hectares

p₁ = the unit price of the agricultural products, mk

p₂ = the unit price of the forest products, mk

q1 = the sales price of the arable land, mk

 $\mathbf{q_2}\ =\ \mathrm{the}\ \mathrm{sales}\ \mathrm{price}\ \mathrm{of}\ \mathrm{the}\ \mathrm{forest}\ \mathrm{land},\ \mathrm{mk}$

r = the rate of interest in percents

c1 = the costs of the arable land, mk

 c_2 = the costs of the forest, mk

S = the sales price of the farm estate, mk

f, g, b, and a = constants

On assuming the production functions of the farm estate, on the part of the arable and forest land areas, as follows

(1) $y_1 = f(P)$ and

 $(2)_1 \ y_2 \ = \ g(M),$

of which the former is obviously a non-linear and the latter a linear relation, the total produce of the farm estate is reached, providing that the functions are additive,

(3)
$$y_0 = p_1y_1 + p_2y_2 = p_1f(P) + p_2g(M)$$
.

The cost functions can be assumed to be

(4) $c_1 = c_1(P)$ and

 $(5)\ c_2=c_2(M),$

in which case the offer of the buyer, both for the agricultural land and the forest land areas rises probably, at the most, to the amount of the capitalized value, or

(6)
$$q_1 \le l/r [p_1 f(P) - c_1 (P)]$$
, and

(7)
$$q_2 \le l/r [(p_2g(M) - c_2(M)].$$

It is presumed that the seller will be satisfied at least in the capitalized value in question, so that in a situation of equilibrium, at the time point of the purchase, evidently only the equation sign will come into force. In accordance with what has been presented above, the sales price of the farm estate would be determined as follows:

(8)
$$S = q_1 + q_2 = f_2(P) + g_2(M)$$
.

In the above examination the time factor has not been considered at all. This can be motivated by the fact that a farm estate is most often not acquired for a limited period of time and on the fact that in general the concept of depreciation is not used in connection with capital of this kind. Upon leaving the time factor without consideration, we arrive at the following hypothesis to be tested

(9)
$$S = a + b_1 log(P) + b_2 log(M) + u$$
.

The regression coefficients to be estimated will contain, in accordance with the foregoing, such elements as the rate of interest, the productivity of the agricultural and forest land areas, and price and cost levels. The hypothesis is assumed to have the nature of an average so that special problems of aggregation in this connection will not be confronted.

The results of the regression analysis

With reference to the motivations presented above, it was endeavored to explain the sales price of farm estates by means of the arable and forest land areas. The values of both the dependent and independet variables are observations from the cross-section samples from the years 1961, 1962 and 1966. In order to base the analysis on a somewhat homogeneous data, and in order that the regional differences in the operation conditions of the farm estates would be taken into consideration, the explanatory models of the sales prices of farm estates have been estimated on the basis of the material covering the whole country as well as provincially. Table 1 illustrates the results of the regression analysis for the whole country.

In order to take into consideration the effect of the location of the estate, there are contained, in addition to (P) and (M), as the explanatory variables, ten dummy variables showing the provincial distribution of the sales of estates. These have been defined as follows:

Province	D_1	$\mathbf{D_2}$	D_3	$\mathbf{D_4}$	$\mathbf{D_5}$	$\mathbf{D_6}$	D_7	$\mathrm{D_8}$	D_9	$\mathbf{D_{10}}$
Turun ja Porin lääni	0	0	0	0	0	0	0	0	0	0
Hämeen lääni	1	0	0	0	0	0	0	0	0	0
Kymen lääni	0	1	0	0	0	0	0	0	0	0
Keski-Suomen lääni	0	0	1	0	0	0	0	0	0	0
Vaasan lääni	0	0	0	1	0	0	0	0	0	0
Kuopion lääni	0	0	0	0	1	0	0	0	0	0
Pohjois-Karjalan lääni	0	0	0	0	0	1	0	0	0	0
Mikkelin lääni	0	0	0	0	0	0	1	0	0	0
Uudenmaan lääni	0	0	0	0	0	0	0	1	0	0
Oulun lääni	0	0	0	0	0	0	0	0	1	0
Lapin lääni	0	0	0	0	0	0	0	0	0	1

Table 1. Regression Equations for the Sales Prices of Farm Estates in 1961, 1962 and 1966. The Whole Country

	ao	log P	Iog M	D_1	Da	D³	D4	Ds	Dg	D,	Ds	D ₉	D ₉ D ₁₀	X
1961	865.101	(30.322)		(11	37.477 (168.253)	- 623.020 (139.461)	- 984.913 (114.691)	- 656.625 (120.131)	0.764 37.477 - 623.020 - 984.913 - 656.625 - 690.975 - 347.798 543.791 - 1 393.398 - 1 605.529 0.653 (168.253) (139.461) (114.691) (120.131) (108.744) (120.145) (184.161) (101.751) (269.027)	- 347.798 (120.145)	543.791	-1393.398	- 1 605.529 (269.027)	0.653
1962	1962 899.849	580.201 (64.357)		512.748 149.445 259.483 - 681.836 - 1 044.424 - 935.742 - 1 056.984 54.325 2 202.424 - 1 233.805 - 2 183.539 0.539 (46.237) (248.915) (492.613) (237.433) (213.491) (262.206) (244.932) (309.455) (395.401) (216.433) (768.583)	259.483 (492.613)	- 681.836 (237.433)	-1044.424 (213.491)	- 935.742 (262.206)	-1 056.984 (244.932)	54.325 (309.455)	2 202.424 (395.401)	-1233.805 (216.433)	-2 183.539 (768.583)	0.539
1966	1966 1 323,333	841.643 (76.009)		569.687 1721.218 411.871 -132.472 1674.611 -912.691 -1352.632 -588.598 1638.514 -1918.212 -2879.133 0.628 (54.956) (353.099) (406.292) (390.482) (276.614) (304.486) (337.304) (311.579) (373.674) (259.186) (422.378)	411.871 (406.292)	- 132.472 (390.482)	-1 674.611 (276.614)	- 912.691	-1 352.632 (337.304)	- 588.598	1 638.514	-1918.212	-2 879.133 (422.378)	0.628

The sequence of the provinces has been fixed so that the province in which the highest fraction of the variance of the sales price is explained by the arable land area has been marked zero. The corresponding coefficient of determination is the second highest in the the second province, the purchases on the territory of which have been marked with 1 and with the symbol D₁ etc. Thus the province Turun ja Porin lääni forms the basis of the sales prices, and the signs and the absolute values of coefficient estimates of D-variables indicate in what direction and to what extent the location of the estate causes a variation in the sales price, as compared with the level existing in the province Turun ja Porin lääni.

The regression models explaining the sales prices of farm estates in the whole country are in conformity with the hypothesis in the sense that the signs of the regression coefficients of log (P) and log (M) are positive, as expected. However, these coefficient estimates are not elasticities in themselves; the elasticities are arrived at by dividing the regression coefficients by the sales price, or, using symbols, $\frac{b_1}{s}$. It can be established as

a general observation that the absolute values of the coefficient estimates of area of arable land are higher than those of forest area, which indicates that the sales prices react more sensitively in accordance with the variation of the arable land area of the estate than the variation of the forest area. The decrease of the absolute value of the coefficient estimate of the agricultural land area from the year 1961 to the year 1962 is also to be observed, as well as the increase of the respective coefficient estimate for forest area during the same time period, which probably indicates the influence of the crop failure of 1962 and its effect on the sales prices of farm estates.

The estimates of the coefficients of the dummy variables indicate that the sales prices of farm estates do not vary significantly, notwithstanding a slight exception, when comparing the province Turun ja Porin lääni with the provinces Hämeen and Kymen lääni. On the other hand, sales prices are significantly lower in the provinces Keski-Suomen lääni, Vaasan lääni, Kuopion lääni and Pohjois-Karjalan lääni.

The level of the sales prices in the province Mikkelin lääni does not deviate consistently from the level of the basic province, as again the price level in the province Uudenmaan lääni is significantly higher than that of the basic province. In the northernmost provinces, the provinces Oulun and Lapin lääni, the price level is naturally very much lower than that in the province Turun ja Porin lääni. The coefficients of determination indicate that the areas explain only 29—43 % of the variation in sales prices.

The regression equations were also estimated provincially. In table (2) there are, on the left side, the provincial estimates in accordance with the explanatory model (9) and on the right side there are the estimates of the double logarithmic functions, by the means of which examinations have been made with regard to the significance of the agricultural land and forest land area on the sales price for both arguments separately.

The equations on the left side of the table indicate that with the diminishing size of the sample, the dispersion increases, the statistical significance of the coefficient estimates decreases and the multicollinearity becomes very prominent in certain provinces, which can be seen from the high absolute values of the coefficient estimates and from the negative constant factors. As the size of the farms varies considerably in some provinces, as for example in the province Turun ja Porin lääni, the constant factors in these provinces are small and, correspondingly, the absolute values of the coefficient estimates

Table 2. Regression Equations for the Sales Prices of Farm Estates and the Elasticities with regard to Arable land and Forest land Areas in 1961, 1962 and 1966.

				Provincially					
		Regr	ession coefficie	ents		Elas	ticities a	nd R2's	
		based	d on equation	(9)					
		a _o	log P	log M	R	log P	R ²	log M	\mathbb{R}^2
Uudenmaar	ı lään	i							
	1961	604.180	805.504	789.661	0.735	0.374	0.236	0.440	0.40
			(171.241)	(153.337)		(0.091)		(0.071)	
	1962	— 701.625	1286.221	2435.623	0.676	0.591	0.389	0.393	0.54
			(1804.912)	(1012.179)		(0.135)		(0.065)	
	1966	2225.864	90.109	1570.399	0.600	0.293	0.195	0.394	0.51
			(420.338)	(349.535)	,	(0.083)		(0.054)	
Turun ja P	orin l	ääni							
	1961	130.370	1123.997	429.474	0.689	0.643	0.498	0.387	0.31
			(80.800)	(61.389)		(0.031)		(0.027)	
	1962	165.413	1149.395	504.929	0.703	0.586	0.448	0.322	0.219
			(93.574)	(73.523)		(0.039)		(0.036)	
	1966	231.325	1927.154	310.863	0.656	0.652	0.428	0.192	0.070
			(196.731)	(142.753)		(0.057)		(0.053)	
Hämeen lää	ini	9-1-1-1							
	1961	368.850	762.939	578.311	0.762	0.541	0.438	0.405	0.35
			(84.192)	(70.091)		(0.045)		(0.040)	
	1962	460.625	982.261	464.750	0.714	0.500	0.407	0.296	0.40
	1001	1001020	(166.100)	(98.445)	01111	(0.062)	01101	(0.036)	0
	1966	-1529.121	3207.873	723.079	0.651	0.736	0.535	0.370	0.42
	1000		(741.551)	(417.559)	0.001	(0.089)		(0.055)	
Kymen läär	ni								
	1961	614.196	634.093	553.852	0.727	0.496	0.370	0.402	0.38
			(144.153)	(114.271)		(0.079)		(0.062)	
	1962	— 835 . 883	2112.614	. —13.702	0.659	0.622	0.464	0.235	0.16
			(678.332)	(433.060)		(0.158)		(0.126)	
	1966	— 736.648	1715.274	1088.290	0.666	0.490	0.393	0.415	0.42
			(484.294)	(394.325)		(0.095)		(0.076)	
Mikkelin lää	äni								
	1961	384.033	466.262	534.790	0.630	0.371	0.253	0.382	0.33
			(93.571)	(83.683)		(0.050)		(0.042)	
	1962	472.416	— 592.655	1376.565	0.290	0.282	0.080	0.428	0.29
			(788.308)	(627.037)		(0.129)		(0.090)	
	1966	— 374.987	579.905	1214.329	0.620	0.321	0.184	0.389	0.45
			(261.648)	(200.724)		(0.073)		(0.045)	
Pohjois-Kar	jalan	lääni						I make	
	1961	359.689	397.139	410.274	0.621	0.448	0.267	0.368	0.33
			(68.700)	(50.034)		(0.050)		(0.035)	
	1962	572.490	154.146	350.393	0.575	0.186	0.066	0.307	0.37
			(81.611)	(56.522)		(0.070)		(0.040)	
	1966	140.508	625.122	623.341	0.607	0.476	0.168	0.385	0.414
			(253.837)	(130.540)		(0.129)		(0.056)	

		a _o	log P	log M	R	log P	R ²	log M	R ²
Kuopion 1	ääni								
	1961	734.115	516.200	183.920	0.498	0.434	0.278	0.233	0.132
			(99.878)	(77.985)		(0.055)		(0.047)	
	1962	245.552	485.948	444.475	0.662	0.416	0.205	0.403	0.455
			(125.082)	(81.344)		(0.089)		(0.048)	
	1966	559.886	685.545	593.272	0.621	0.327	0.213	0.315	0.230
			(142.603)	(132.056)		(0.065)		(0.059)	
Keski-Suoi	men lääi	ni							
	1961	99.637	485.492	541.630	0.702	0.498	0.296	0.429	0.397
			(118.393)	(88.211)		(0.073)		(0.051)	
	1962	446.700	473.876	456.328	0.592	0.411	0.219	0.359	0.372
			(143.420)	(96.181)		(0.073)		(0.044)	
	1966	- 46.277	1266.102	979.970	0.723	0.624	0.447	0.519	0.559
			(329.610)	(245.241)		(0.102)		(0.068)	
Vaasan lä	äni								
	1961	278.533	440.010	276.392	0.558	0.496	0.232	0.323	0.227
			(86.301)	(56.773)		(0.067)		(0.044)	
	1962	629.814	312.778	191.738	0.520	0.269	0.152	0.180	0.114
			(64.348)	(49.672)		(0.052)		(0.041)	
	1966	359.523	581.165	333.171	0.664	0.417	0.246	0.247	0.231
			(98.241)	(59.974)		(0.065)		(0.040)	
Oulun lää	ini								
	1961	455.160	184.381	241.269	0.497	0.275	0.110	0.264	0.225
			(50.296)	(33.651)		(0.047)		(0.030)	
	1962	525.521	69.780	413.612	0.598	0.234	0.100	0.309	0.362
			(73.426)	(51.075)		(0.057)		(0.034)	
	1966	455.801	273.938	407.453	0.531	0.293	0.143	0.288	0.244
			(93.000)	(69.781)		(0.053)		(0.038)	

are high. On the other hand, in some provinces, in the actual small-farm territories, the areas of the farms vary only slightly, for which reason the constant factors are high and the absolute values of the coefficient estimates are relatively small. These factors render difficult provincial comparison. In addition, it is evident that it has not been possible, in the province Uudenmaan lääni, to limit the statistical data to consist only of farm estates used for agriculture and forestry purposes despite screening, as the arable land area coefficient estimates for 1962 and 1966 have an absolute value much smaller than that of forest land area. It seems probable that the sample includes some sales of estates purchased for vacation and other non-agricultural purposes, in which cases the total area of the farm estate (the indicator of which is probably the forest area) and the location have been decisive arguments in explaining the price.

Provincial comparison within the framework of the estimates of the explanatory model is not fully motivated as can be observed from the above and for this reason the right side of table 2, in which the regression coefficients represent the agricultural and

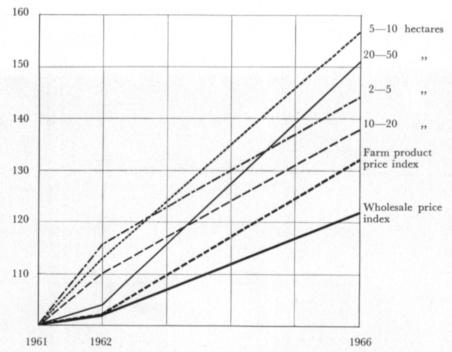


Figure 1. The sales prices of farm estates according to the total area in 1961, 1962 and 1966.

forest land area elasticities directly, separately calculated, and the R2's, gives more information on regional differences.

The results obtained from the province Uudenmaan lääni are, however, similar to those given by the explanatory model referred to above. Instead, in the provinces Turun ja Porin lääni, Hämeen lääni and Vaasan lääni, the arable land area is consistently more important than the forest area in explaining the variance of sales prices, deducing from the value of the R². On the same basis it is established that the forest land area is a stronger argument than the area of arable land in explaining the sales prices in the provinces Mikkelin lääni, Pohjois-Karjalan lääni, Keski-Suomen lääni and Oulun lääni, while the results of the other provinces are indefinite.

The region of the provinces Turun ja Porin lääni, Hämeen lääni and Kymen lääni is such in which the agricultural area elasticities are greatest and thus the sales prices react more sensitively to the variations of the areas of arable land. The opposite has been the case in the province Keski-Suomen lääni, where an increase of 10 % in the forest area was followed by an increase of 3.6-5.2 % in the sales price.

It can be proved that the results from the province Lapin lääni are not reliable on account of the limited data and the irregular environments in the province. For this reason these results will not be referred.

Summary

As general conclusions of the performed regression analysis it can be established that the increase of both agricultural and forest land areas increases the sales price less than proportionally (elasticity < 1) and that the area of arable land, the forest land and

the dummy variables explain, in 1961, about 43 %, in 1962 29 % and in 1966 about 39 % of the changes of the sales prices of farm estates in the whole country.

From the provincial models it can be observed that the variance of sales prices explained is highest in the field cultivation territory, i.e. the provinces Turun ja Porin lääni, Hämeen lääni and Kymen lääni, in which it varies from 42—58 %. On the other hand, in the "forest region" of Finland, i.e. in the provinces Keski-Suomen lääni and Pohjois-Karjalan lääni, the variance explained was also high, being 33—52 %. The lowest R² were found in the provinces Mikkelin lääni, Vaasan lääni and Oulun lääni. Thus many other factors, such as the quality of the land, the location of the estate with regard to population centers, the buildings, roads and environmental factors, which could not be included in this research, are evidently important arguments of the sales price. It would thus be necessary to expand the research in suchwise that the explanatory efficiency of the mentioned variables would be tested, which would, again, mean a considerable decrease of the size of the sample, because it would be necessary to obtain the data by means of expensive field research and interviews (Brigham 1965).

As it is difficult to find out the movements of the price level of farm estates by means of the regression analysis, here will be given the sales prices of estates in the whole country by averages, according to size categories, which averages are compared with the development of the indicators of the general price level (the basic year being the same in all series, 1961 = 100).

	1961	1962	1966
The wholesale price index: the general index of home market goods (1935 = 100)	100	102	122
The producer price index for agricultural products (1937—39 = 100)	100	102	132
The cost of living index $(X 1951 = 100)$	100	104	131
The sales prices of farm estates in the whole country according to the total area			
area 2-5 hectares	100	116	144
,, 5—10 ,,	100	113	157
,, 10—20 ,,	100	110	138
,, 20—50 ,,	100	104	151
,, 50— ,,	100	127	148
The sales prices of farm estates in the whole country according to the area of arable land			
area 2-5 hectares	100	110	136
,, 5—10 ,,	100	106	149
,, 10—20 ,,	100	101	156
,, 20—50 ,,	100	135	160
The sales prices of farm estates in the whole country according to the forest land area			
area 2-5 hectares	100	122	154
,, 5—10 ,,	100	109	156
,, 10—20 ,,	100	100	140
,, 20—50 ,,	100	113	163
,, 50— ,,	100	125	131

As can be observed from the above table and figure 1 the sales prices of farm estates have risen considerably more in the years 1961—1966 than the general price level as measured by the Wholesale Price Index or the Cost of Living Index. Relatively the greatest price increase has taken place in farm estates with 5—10 hectares, and thereafter in sequence farm estates with 20—50 hectares, more than 50 hectares, 2—5 hectares and 10—20 hectares. It is also to be observed that the sales prices of all farm estates have risen more than the Producer Price Index for Agricultural Products.

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SELOSTUS

MAATALOUSKIINTEISTÖJEN KAUPPAHINTOJEN RIIPPUVAISUUS PELTO- JA METSÄ-PINTA-ALASTA SUOMESSA vv. 1961, 1962 ja 1966

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Yleisinä johtopäätöksinä suoritetusta regressioanalyysistä todetaan, että sekä pelto- että metsäpinta-alan suureneminen lisäävät alisuhteisesti maatalouskiinteistön kauppahintaa (jousto < 1) ja, että maatalouskiinteistöjen kauppahintojen vaihtelusta koko maassa v. 1961 pelto- ja metsäpinta-ala sekä läänejä osoittavat dummy-muuttujat selittävät n. 43 %, v. 1962 29 % ja v. 1966 n. 39 %.

Lääneittäisistä malleista todetaan, että mallien selitysaste on korkein peltoviljelysalueilla, Turun ja Porin, Hämeen ja Kymen lääneissä, joissa se vaihtelee 42 %:sta 58 %:iin. Toisaalta metsä-Suomessa, eli Keski-Suomen ja Pohjois-Karjalan lääneissä estimoitujen suhteiden selitysaste oli vain hieman alempi, 33—52 %. Alhaisimmillaan selitysaste oli Mikkelin, Vaasan ja Oulun lääneissä. Näin ollen monet muut tekijät, kuten maan laatu, kiinteistöjen sijainti asutuskeskuksiin nähden, rakennukset, tiet, ja ympäristötekijät, joita tässä tutkimuksessa ei voitu ottaa huomioon, ovat ilmeisen tärkeitä kauppahinnan argumentteja. Tutkimusta olisi siis laajennettava niin, että mainittujen muuttujien selitystehokkuutta kokeiltaisiin, mikä toisaalta merkitsisi näytteen huomattavaa supistumista, sillä aineisto olisi hankittava kalliiden kenttä- ja haastattelututkimusten tietä.

Tämän tutkimuksen perustana käytetty tilastoaineisto (Leponiemi ja Lammi. Maatalouskiinteistöjen kauppahinnat Suomessa vuosina 1961, 1962 ja 1966) on saatavissa kirjoittajalta monisteena.