

The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search
http://ageconsearch.umn.edu
aesearch@umn.edu

Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.

No endorsement of AgEcon Search or its fundraising activities by the author(s) of the following work or their employer(s) is intended or implied.

OF THE
HUNGARIAN ACADEMY OF SCIENCES
BULLETIN M9.

U.S. ROM. OF SEP 28 1964
SEP 28 1964

PAPERS ON SOME PROBLEMS OF THE HUNGARIAN VILLAGE

INSTITUTE FOR AGRICULTURAL ECONOMICS OF THE HUNGARIAN ACADEMY OF SCIENCES Bulletin No. 9.

PAPERS ON SOME FROBLEMS OF THE HUNGARIAN VILLAGE

Budapest 1964

INSTITUTE FOR AGRICULTURAL ECONOMICS OF THE HUNGARIAN ACADEMY OF SCIENCES

Director:

Forenc Erdei

Member of the

Hungarian Academy of Sciences

Ferenc (Erdei - Ferenc (Fekete

ECONOMIC PROBLEMS OF THE STRENGTHENING
OF INEFFICIENTLY FARMING
CO-OPERATIVES

n u got maaffwiri: 2

m

0]

Eo ba

During the entire period of the socialist reorganization but particularly since it has been completed, a definite trend in our economic policy has been represented by supporting the less efficient co-operative farms in order to enable them to reach a medium level as soon as possible. There is, however an opinion contesting the correctness of this trend of economic policy. According to the main counter-argument, the utilization of subsidies to the development of co-operative farms would prove more efficient, were those mostly bestowed rather to the advancement of the already consolidated, co-operatives.

As for the political aspects, this viewpoint is obviously untenable for the policy of supporting the co-operatives does not permit us to abadon certain co-operatives or their members after the reorganization. The superiority of the socialist large-scale farms is of general validity. Thus wherever its realization is inhibited at the beginning by various causes, special economic political measures must be taken to eliminate such difficulties. Furthermore, we cannot accept the fact that certain groups of the peasantry produce less and have a lower life standard within the co-operative large-scale farm than prior to the reorganization as it would make them dissatisfied and oppose the co-operatives. The question may, however, arise whether there are any economical aspects supporting this opinion. To answer this question properly, at least three problems must be taken into consideration.

For what reasons should we classify some of our co-operatives as less officient?

Is the entire arable land necessary to meet the product requirements of the national aconomy?

Finally, how efficient are the means employed to raise the weak cooperatives to medium level?

The investigations conducted by the Istitute of Agricultural Economics of the Hungarian Academy of Sciences render an adequate basis to enable us to rely, in all three questions, upon the results of methodical research work instead of biased opinions.

The investigations unequivocally prove that there are objective as well as subjective causes among the inefficiency factors of co-operatives.

Objective factors are the soils of particularly poor fertility and other natural conditions due to which the peasants in spite of their more than average work -, had lot of difficulties both in the case of co-operative on individual type of farming. In such locations the superiority of large. Facility farming will manifest itself only long after the reorganization as melioration projects of more permanent character ought to be realized, special productive means must be employed, and a farming system comforming to local conditions must be developed by experimental work. All these need an extendel period of time and require considerable financial investments.

Another objective cause is represented by the unfavourable density of the agricultural population in certain villages and co-operatives. There are nearly as many locations in this country where co-operatives reveal a relative labour snortage as where there is a labour surplus to be found. The difficulties are created by the fact - in the former case here frequently but rather solded in the latter, - that due to the dispropertion existing between the area to be cultivated and the available labour force, production possibilities cannot be exploited satisfactorily and, as a result, both production, and income, maintain a comparatively low level.

Finally, the objective couses of inerfeciency include the fact that the given limitations of certain co-operative forms do not permit the development of sound ferming /scattered, remote fields, disputisfactory transport conditions, etc/.

Among the notives of inefficiency, however, subjective personal factors also play a significant role. Investigations revealed that the results of co-operatives where the same president has been acting for five consecutive years excelled by about 12-15 per cent the achievements of such co-operative farms where the president had been discharged. Unquestionably, however, the smill of the manager, his relationship to the members, and his management methods affect even to a higher degree the level of collective farming.

Thus the reasons why cort: in co-operative forms may be clossified as inefficient are different and, therefore, the methods of the economic policy aiming at their development may be similarly diverse. Not only by subsidies or by the allocation of financial-technical means could the less efficient co-operatives be improved. Where the backward situation is due to a disorder in operational conditions or to the poor management, organizational means may help: as redistribution of land, a justified merger, employment of specialists, removal of inefficient mana-

cors and their replacement with such individuals the members would trust, and who had verified their professional skill before, etc. Maturally, any organizational assistance of this type has financial effects as well although not very significant. There are no accurate data avaiable— how many of the less efficient co-operatives could reach a higher level by organizational assistance, their rate is, however, definitely not negligible.

Nevertheless, the greater part of the underdeveloped cooperatives is lagging belied because of such objective reasons
the elimentation of which would necessitate considerable financial support. These co-operatives are characterized by their
forming under a more unfavourable condition than the average, so
instead of receiving differential rents they are encumbered by
differential charges. In certain cases a more unfavourable situation than the average may be improved or even eliminated by
means of considerable investments /reclamation, irrigation,
other ameliorations/ in other cases, however, these local conditions cannot be altered /on slopes, hilly areas/. In such
events only a change in the character of production, the application of a more suitable farming system can help. This, however, often involves a more extensive production type, and the
engagement of less labour.

The justification of major financial investments or, possibly, even a material sacrifice depends mainly on the question to what on extent national economy needs the products of these regions.

Ċ.

90

18)-

/08

e

II.

In the case of the development of regions characterized by unfavourable natural conditions we must consider, as basis, that a continuously increasing amount of agricultural products is needed and therefore our economic plans project the enhancement of the production as a whole. Agricultural products differ, however, significantly with respect to the problem whether they should be produced all over the country, that is, in the majority of the forms or is it sufficient to produce them in certain districts, in part of the forms only.

Several sgricultural products are needed by our national economy in such high quantities that their production must be carried on - at the present level of development, - all over the country, practicelly by each and every form unless a preclusive reason prevents it. Their production is necessary, therefore, under the restrively most unfavourable conditions as well as the demand for them appears so high that the forms operating under more favourable conditions are unable to meet it. Such products are the food and feed grains, bulk forage, cattle, and pigs.

On the other hand, there are special products - with sinilar economic importance however, - the demand for which is much lower thus it seems reasonable that their required quantity should be produced only by farms most suitable for the purpose.

of the product requirements, in the case of majority of the products national economy needs the products of all co-operatives, thus it is not permissible to develop the production only in the more consolidated co-operatives.

III.

onsidered economical to raise the less efficient co-operatives to a medium level. On grounds of the investigations conducted, this problem may be studied from several viewpoints.

According to our investigations, yields are the lowest in these inefficiently farming co-operatives. Since the inefficiency as well as the lower yields of these co-operatives can have two main causes /from the viewpoint of the single farm: objective, primarily natural conditions such as soil conditions e.g. mountainous, hilly, sandy, etc. soils - or the subjective circumstances of the single farm i.e. organization, management level, etc/, the following calculations could give here accurate results, if these two main groups of the less efficient co-operatives could have been studied separately, in a move differentiated by the sufficient data are, however, available for this purpose. For this reason, the investigations conducted commot answer the question how raising to a higher level the co-operatives inefficient because of matural conditions might be judged as compared to raising the medicare ones to top level, but can solve the problem whether raising from a lower level to a medium one or from medium level to a higher one is generally more economical.

l. One of the most important indices illustrating this economic relation is represented by the development of production costs. As a basis for comparative calculations, the cost counting data of 100 producers' comperative, /in 1960/ propared by this Institute have been used, utilizing the production cost data of certain crop-and animal products per 1 cad. yoke and per piece, respectively, then the cost per unit and the data of average yield development.

Certain enswer to the question is given by the joint development of the production cost producting unit and unit cost. Accordingly, the comparison of the first group inefficient as far as averge yield is concerned to the second /mediocre/ cotagory reveals that the production cost per producing unit will, with a few exceptions, increase but to a relatively slight degree whereas the unit cost decreases significantly. The same trend is observed between the second /medium/ and third /satis-

factory/ groups with different proportions, however. The production cost displays a lower increase between the inefficient and medium categories and the ratio of diminishing unit cost is reversed. With other words, there is a more intensive decrease of level of unit cost between the inefficient and medium groups than between the medium and satisfactory ones.

This tendency is numerically illustrated by the following tables:

PLont	Dro	uct	TOIL:

Average yield		ction cos	2.5		sverage	yield
catagories	Ft	7U	řt		q /c ad. yoke	
Ainter wheet	1					
Less then 10 q/cad. yoke 10-12 q/cad. yoke	1371 1379	100,0	124,23 103,97	100,0	9,3 11,1	100,0
Over 12 q/ccd.yoke	1435	103,3	\$4,26	75,9	13,2	142,3
Corn						
Less than 13 q/cad.yoke 13-16 q/cad.yoke Over	1927 1994	100,0	153,30 117,22			100,0
16 g/cad.yoke	2257	117,1	95,62	62,4	19,7	197,0
Sugar beet	•					
Less then 140 q/cad.yoke	4317	100,0	55,48	100,0	114,3	100,0
140-170 q/cad.yoke	4990	115,6	31,01	85,0	155,2	135,3
Cyer 17o q/cad.yoke	4838	112,1	23,67	76,3	196,7	172,1

animal breeding:

O

Dairy cattle						
7.411.4 m		uction co				ng rage
Milking everage	ľt	7,7	Ft	i.	Litre	, j.)
Under 1600 litres 1600-2200 litres Over	6853 6275	100,0 120,8	5,20 2,36	100,0	1245 1923	100,0
2200 litres	8787	128,2	2,49	77,8	2553	205,4

Pig fattening

Categories per daily weight gain	per 1	tion coday of		of veight	Average weight	deily Sein
County Workship County	l't	,,,	Ft	,,,	- Dit eta	,,,
Under 34 dig 34-45 dig Over 45 dig	4,72	100,0 110,8 149,3	14,15 11,56 11,31	100,0 31,7 33,5		100,0 135,5 179,4

For certain products, calculations have been made to determine the excess cost of 1 q increase in the average yield. The results are illustrated by the following table:.

Product	From inefficient to medicare, Ft	From medicore to satisfactory, Ft ⁺
wheat Corn	4,50 15,06	51,45 50,38
Sugar beet	16,45	20,43

The terms "inefficient", "mediocre", and "satisfactory" indicate here the three categories distinguished by everage yields.

These data similarly reveal that to increase the low average yields to medium requires much less excess investment than to raise the medium higher. analogous results have been abtained in course of other cost investigations. More accurately, experiences show that the volume of unit cost as well as the input per product unit will decrease with an increased average yield, but the extent of the reduction is continuously lover.

In case of three different products, the diminishing of cost on three different average yield levels is as follows: /percent/

/The figures indicate how many per cent less unit cost is due to 1 q increase of the average yield in each return category. A similar trend is observed in case of input per product unit expressed in natural unit items/.

Y i e 1 d s	shout	Corn	Sugar beet
Low	8,50 - 9,76	5,13 - 7,15	5,50 - 7,05
Medium	7,40 - 7,60	3,10 - 4,64	4,57 - 5,54
High	4,90 - 5,94	1,30 - 2,79	3,57 - 4,12

The results of our investigations thus unequivocally reveal that, at the present development stage of the agricultural production forces, and at the given level of the co-operative farms, increasing the yields is achieved much more economically and less expensively, when it is performed from low to medium than if from medium to high level.

2. Similar results have been obtained through the intensity studies conducted. The calculations disclose that, under different intensity level conditions, the change of the production level is characterized by a diminishing ratio. The change of the production level as reflected by the average of 1956-58 is illustrated by the following table:

Intensity Group	Production value per 100 Ft fixed assets	Production value per l ivestock unit in animal husbandy	value cad	ction per yole of ultural in oni- acl huc- bendy
I. /10//	100	100	100	100
III. /medium/	35	132	139	191
V. /high/	68	129	127	150

3. The dominance of the trend explained above is still more clearly shown if several economic indices are compared. According to the calculations made by the Department of Favn-Management of this Institute on sine bake of the 1953, 1959, and 1960 data of 94 co-operative farms each 1000 Ft invested capital in the five intensity groups resulted. As follows:

I.	1151	Ft
II.	841	
III.	739	11
IV.	688	11
V •	574	**
Lverage	743	Ft

The single group limits, according to the value of fixed assets per area unit are:

I.	Under 3000 F	
II.	3001 - 4000	1 7
III.	 4001 - 5000	11
IV.	5001 - 6000	
V •	Over 5000	14

⁺⁺ i.e. amounting of net capital plus the value of labour input.

According to the same calculations, the increase of the production value per 1000 Ft production cost is greater at the lower cost levels as it is shown in the 1953, 1959, and 1960 data of 94 co-operatives

Variation of the area unit	cost per	Increase of the pro- duction value per 1000 Ft increase of costs, Ft
From Ft 1000 to 2000 3000 4000 5000 6000 7000 6000	2000 3000 4000 5000 6000 7000 8000	1198 ⁺ 1198 ⁺ 1198 1198 1099 1000 ₊ 901 ⁺ 302 ⁺

⁺ Ustimated data

A comparison of the net income per area unit to the production cost similarly proves that, on a lower investment level, the unit increase of the production cost is associated with a major increase of the net income.

The amount of the net income per unit area according to the 1958, 1959, and 1960 data 94 co-operative forms, is as follows:

Production cost per l cad.yoke of agri- cultural area, Ft	Net income per 1 yoke of agricultural area, Ft
1000 2000 3000 4000 5000	99 ⁺ 297 ⁺ 495 693 891 990
7 000 8 000	391 ⁺

⁺ Estimated data

as a final result, efficiency calculation support the conclusion that, in recent years, investments have been more efficient in co-operatives of lower farming level than in those operating on higher standards. This applies generally to the less efficient co-operatives regardless of the reason why they

appear inefficient. Thus the question is still unanswered how efficiently investments can be utilized in co-operatives inefficient due to natural conditions.

IV.

The co-operatives inefficient due to unfavourable natural conditions have not been studied separately. There are, however, certain indications to explain how the efficiency of inputs would develop in such co-operatives.

It cannot be stated that inputs are less efficient on all fields or concerning any crop in co-operatives working under unfavourable natural conditions than in those farming under average or more favourable circumstances. Significant differences exist according to the type of natural conditions or to the given kind of crops as well.

X

As a conclusion, the calculations presented reveal that the less efficient co-operatives may not be considered as a uniform category, neither may be the efficiency of the inputs in these less efficient co-operatives generally regarded as less effective than that of the medicare or good ones. The conomic policy to be conducted with respect to the less efficient co-operative farms and, therefore, by all means distinguish according to the following aspects:

In those inefficient co-operatives where the low level of farming is due to personal, management, and organizational reseans, all possible means must be adopted without hesitation to eliminate these causes.

In co-operative forms where firming is dissetisfectory due to structural disproportions resulted by conditions of reorganization/area to labour ratio, inadequate proportion of the various soil types, settlement conditions, communication and transport difficulties, etc/more reasonable form economy solutions must be sought for.

If the inefficiency of the co-operative is due to unfavourable natural conditions but this disadvantage can be climinated by cheliorations, the concentration of acous to execute the appropriate improvements is always justified.

Finally, if the co-operatives of a district are inefficient due to such natural conditions that this situation cannot be improved by means of amelioration /hilly regions/, the introduction of a new kind production type and farming system co-ordinating the product requirements of the national economy and the resolute suitability of the productive area in the respective district also needed.

All these point to the fact that the supporting of the less efficient co-operatives may not be considered only as

оу

political necessity but, at the present development level of the agricultural production forces and of co-operative forcing, it represents the efficient utilization of investments as well, at least in a great many cases.

/ The above text is the translation of the article: "A gyenge termelőszövetkezetek megerősitésének gazdasági problémáiról" by E. Erdei and F. Fekete, published in: Társadalmi Szemle /Budapest/ 1964.No.5. pp. 33-45./