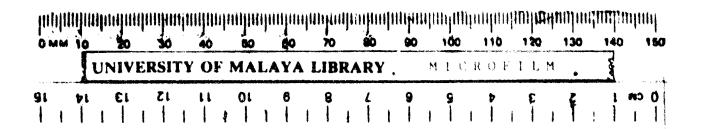


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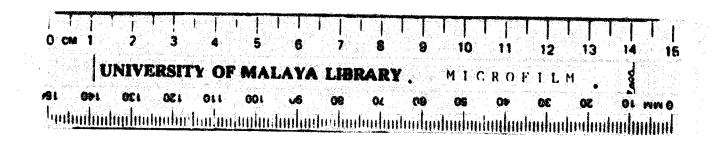
TANJONG KARANG SURVEY - PHASE III

A SURVEY OF LAND OWNERSHIP AND OPERATION

AND OTHER MATTERS

IN BLOCK O

by Inderjit Singh



A Graduation Exercise presented to the University of Malaya in part fulfilment towards the Degree of Bachelor of Arts with Honours in Economics

TACULTY OF ECONOMISS S ADMINISTRATION UNIVERSITY OF GOLAVA

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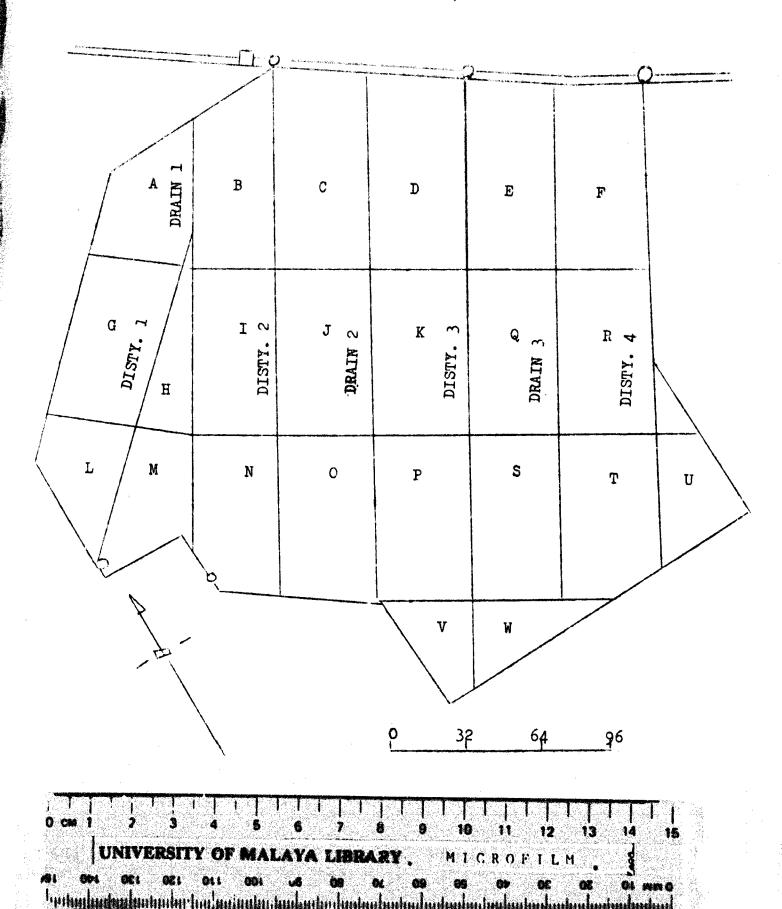
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SAWAH SEMPADAN

(6,100 ACRES)



CHAPTER 1

INTRODUCTION

This is the third phase of a survey that is being conducted in Tanjong Karang by the Department of Economics, University of Halaya. The project will be carried on for another two years, before it is concluded. The present survey was confined only to Sawah Sempadam. This was due to the limited number of students doing the course - only fifteen in number. In the previous years the survey also included the Sekinchang district; this was because of the availability of more students.

Sawah Sempadan comprises of 6,100 acres of nawah land that have been drained or irrigated and reclaimed from what was once swamp land and unde fit for the cultivation of crops - mainly padi. Sawah Sempadan is par) of the Tanjong Karang Irrigation scheme that lies on the west coast of Selangor between the River Bernan and Selangor Rivers. This scheme covers approximately 506 square miles. Nork first began on this scheme in 1924 when "a committee was formed to prepare a programme of work for the exploitation of this region. It took three years to complete the exhaustive work of surveying the area and gathering all the relative data concerning soil and hydraulic conditions,2" It was only in 1940 that work was started, but it was abandoued because of the Japanese Occupation of Halaya. In 1946 the project was continued again and what we see today is the result of the work done in the following years.

Objective

It is the study of ownership and operation of land, supplemented by a study of the socio-economic conditions of the place. The following headings which have been devoted a chapter each, form the gist of the survey:-

- 1. Mistribution of Holdings and Farms by lots and sub-lots.
- Distribution of Holdings and Farms by area.

Hence referred to as S.S.

²Padi cultivation is Malaya - Elena M Cooke, pg.31

- 3. Pragmentation of Holdings and Farms
- 4. Co-ownership
- 5. Co-speration
- Analyzis of Location of lots and sub-lots.
- 7. Padi Output and Productivity.
- 8. Post and Disease
- 9. Views regarding Water-supply
- 10. Other Greps
- 11. General Observations

Kethedology

There are 23 Blocks in Savah Sempadan and these have been labelled in alphabetical order from A to W. However, since there were only fifteen students available to conduct the survey only 15 Blocks were surveyed. These Blocks are B, C, D, E, F, I, J,K, Q, E, H, O, P, A and T. Each Block is divided into lets of mostly three acres each. Back student was allocated one Block to work on. The unit of study was the lot. The method used was the questionnaire which has been attached at the back of this exercise (Appendix). The initial work of filling the questionnaire was done in the field itself. One visit was made to Kuala Selangor Land Office. The puppose was to check the names of owners and verify this with those that had been or would be collected in the process of the survey. The processing part of work was done by the students after their return from Tanjong Karang to Euala Lumpur. The entire survey took three weeks, beginning on the 28th April, 1964 and terminating on 17th Eay, 1964.

Perminology

Most of the terms used in the exercise have been defined before any discussion was done. Initially there was some problem as to whether the term 'piece' or 'lot or sub-lot' should be used. It was later decided that for the sake of standardisation the term 'let' instead of 'piece' should be used.

A lot and a piece mean one and the same thing. "A piece of land is one unbroken or undivided area that is defined or described in a document of ownership or title. Land Office records describe a piece of land as a lot." Thus, any specific part of

³Subdivision of Estates, Vol. 1, 1951-1960, pg. 11

a lot, if it had been sold, purchased or subdivided and had an owner is referred to as a <u>sub-lot</u>. The lots inside the Block are spoken of in terms of lots and sub-lots. But all lots outside the Block are lots. No mention of sub-lot is made here.

The other important terms used in the exercise are Holding, Farm, joint-ownership, so-ownership, joint-operation and co-operation. All these terms have been defined in the chapters in which they are first discussed. Of the other terms like owner, operator, holder, farmer, temant-operator, giftee-operator etc. which have been used, it is assumed that the reader is already familiar with.

Mock 0

This exercise is confined only to Block 0. This being the Block allocated to me. There are 89 lots in this Block. Only four are four acres in size and one is one acre in cise; the rest are all three acres in size. The total area of the Block is 269 acres. Of these 89 lots, 16 lots comprising 50 acres were not surveyed because of the time-factor. Thus only a total of 219 acres were surveyed, that is 73 lots.

Henceforth, whenever we talk of the area or the number of lots in the Block, the figures 219 acres and 73 lots will be used. So sore mention will be made of the 16 lots that were not surveyed.

The discussion of lots and sub-lots, holdings and farms is divided into two parts.

- 1. Inside the Block.
- 2. Outside the Block.

While it is evident that by inside the Block we mean all the lots and sub-lots there, by outside the Block we mean:-

- 1. lots and sub-lots outside Block but in Sawah Sempadan and,
- 2. lots outside Savah Sempadan.

It is only in Chapter Seven that the distinction of lots outside the Block, but in Savah Sempadan is made. For the rest of the exercise these two are discussed under the heading 'lots outside the Block.'

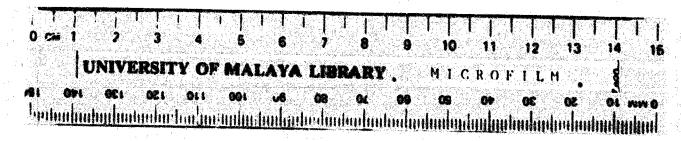
Very little mention is made as to whether the ownership titles are on the TOL4, EMR, or AA. This is because when the

Temporary Occupation Licence.

Entry into Mukin Register.

⁶Approved Application

Land Office Records were checked it was found that none of the owner had been issued with TOL or MRR. They had all been issued only AA titles.



CHAPTER II

DISTRIBUTION OF HOLDINGS AND PARMS AT LOTS AND SUB-LOTS

Holdings and Parms are the two most commonly used terms in relation to agricultural production and least "the terminology be not exact, if it fit not the thing" let us first define the two concepts.

Definition of a Holding

'A holding comprises all the land evend by a person. It is a unit of ownership. All the pieces a person owns make up his holding. These pieces may be contiguous or scattered all over the country. These pieces may or may not be cultivated by the owner. The helding may be of any size.'2

Definition of a Para

'A farm is a unit of production based on land. A farm may consist of one piece or many pieces of land. The pieces may be contiguous or scattered. The farm may be of any size. The important characteristic is that the farm is an active unit of production that is a unit of operation.'

If X operates on his own piece of land Y, then this piece of land is both his holding and farm. He is both owner as well as farmer. This is the ideal situation. However, X meed not cultivate his land himself. He may be a land lord. Thus, if he rents out his land to another farmer P, then he is only a Holder. He is not a farmer because he does not cultivate the piece. Farmer P is not a Holder because he does not own Y. He does not have a holding. But Y is his farm.

Therefore, a holding and a farm need not always belong to one person. One of the major causes of rural poverty arises from the fact that farmers are not both holders and operators of the Tarms.

¹ Third Section of Book XIII of the Analogts.

² Subdivision of Estates, Volume 1, 1951-1960, pg. 11

³Subdivision of Estates, Volume 1, 1951-1960, pg. 11

A large number of them are only farmers by virtue of the fact that they cultivate the piece of land which they have rented; the ownership of that piece of land belonging to semebedy else. A holder may rent out his holding to two or more farmers - thus creating two or more farms. Thus the number of holdings and farms need not be the same in any particular area at any one time.

In North Malaya, only 271,359 acres out of a total of 568,491 acres were owner-farmed. That is heldings and farms belonging to one person. This is 47.8% of the padi-lands accepted. The rest were under different forms of land tenure. The various forms of land tenure can be seen in T.B. Wilsons Report4.

Map One and Map Two show the location and distribution of holdings and farms respectively in the Block. There are a total of 84 holdings and 85 farms. The Maps do not give a complete coverage of all the lots the owners own, and the operators operate. This because the the case of 36 holders they own other lots outside the Block. The tenant-operators too, operate other lots outside the Block, but not complete figures for the latter are available as no question in the questionnaire was directed at obtaining this information. The little information that we have is only obtained in an indirect way.

In cases where owners operate their own lots we have complete coverage of all the pieces that he operate. Thus, we have the exact size of his farm.

For tenant-operators, and others, the information regarding their farm is only in relation to the lets or sub-lots in the Block.

Thus, in short it can be said that:-

- 1. We have complete coverage of all the lots and sub-lots that a owner-operator has inside and outside the Block.
- 2. We do not have complete coverage of all the lots and sub-lots that a farmer operates outside the Block.

has have complete coverage of all farm pieces that an operator who inside the Block.

Thus, because of this inadequacy, I shall give a complete picture of all lots and sub-lots inside and outside the Block that comprise the heldings. The picture for the farms will only be

The Economics of Padi Production in North Malaya Part 1, Table 3, pg. 11.

partial. The information of farm and holdings is vital for our discussion of Fragmentation of Farms and Holdings, which will be discussed in Chapter Three.

Distribution of Holdings by Lots and Sub-lets in the Block

It would very much simplify our amalysis if we could distinguish the two aspects of the situation.

- l. Dejure situation
- 2. Defacto situation

Dejure is, as the situation is seen to be when Land Office records are checked and defacto is as the situation is on the Land.

Table 2.1 gives us the dejure and defacto situations. The change in the holdings is self-evident. They have increased from 72 to 84 in number. An increase of 12 holdings that is an increase of 16.67 per cent. While, there are no sub-lots in Table 2.1(a), there are 27 of them in Table 2.1(b). Further there is a 100% increase in the two lot heldings.

But, we still have only a partial picture because parts of several holdings inside the Block are to be found outside the Block.

TABLE 2.1(a)

DELTURE BOLDIEGS INSIDE THE BLOCK

TAN AT BAN	THE MENTS	1.52	TO VA
			Holdings
			71
			1
ta			
1			72
	ts	t s	\$8

TABLE 2.1(b)

DEFACTO HOLDINGS INSIDE THE BLOCK

Lots	Holdings
1 lot	54
2 lots	2
Sub-lot	900-
1 sub-lot	26
2 sub-lots	1
1 lot & 1 sub-lot	1_
Potal	84

Lots and sub-lots have already been defined in the Introduction

Distribution of Holdings by Lots outside the Blook

Table A gives a list of the holdings outside the Block. There are a total of 45 lots estaide the Block which belong to 36 holders who have also lots in the Block. Whilst most of these 36 holders have at least one lot outside the Block, nine helders have two lots each outside the Block.

Thus, 48 holders have either one lot or one sub-lot in the Block. These do not have any other land besides this. Theirs are only one lot or one sub-lot holdings.

General Picture of Holdings inside and cutside the Block

From Table 2.2 we see that there are a total of 1]) lots and sub-lots inside and outside the Block. There are no sub-lots outside the Block. Of the 104 lots, 59 lets (56.76%) are found in the Block. The other 45 lets (43.26%) are outside the Block. The sub-lets comprise only 21.05% of the total lots and sub-lets inside and outside the Block. The rest being all lots.

Now let us see how these lots and sub-lots were distributed among the Holders/Holdings.

TABLE 2.2

GENERAL PICTURE OF LOTS AND SUB-LOTS INSIDE

AND OUTSIDE BLOCK

	Inside the Block	Outside the Blook	Total
Lots	59	45	104
Sub-lots	29	-	29
	÷	-	133

Prom Table 2.3, it can be noted that by far the largest number of holdings comprise of only one lot each. These boldings make up 36.91% of the total holdings and are all found inside the Block itself.

The next important group which is of particular interest

The assumption made in the Introduction is that all pieces of lands outside the Block are lets.

to us is the one sub-lot group. There are 16 sub-lots and all these are also to be found inside the Block. They make up 19.0% of the total heldings.

Whilst the first group denotes that holdings are etatic in size, the second group point to the fact, that they have diminished in size, denoting an increase in the number of holders.

These two groups between them make up 55.96% of the total holdings that is well over half the total holding surveyed. It is not for us to discuss the economic implications of the diminishing size of holdings. This aspect will be discussed in Chapter 4, once we have dealt with the size or area of holdings in Chapter 3.

TABLE 2.3
OWNERSHIP OF LOTS AND SUB-LOTS INSIDE
AND OUTSIDE BLOCK

*	Holders/	Percentage								
Lots	Roldings	Absolute	Cumulative							
Lots										
1	31	36.91	36.91							
2	18	21.44	58.35							
3	5	5-71	64.06							
4	2	2.38	66.44							
Sub-lots										
1	16	19.05	85.49							
2	1	1.19	86.68							
Lota & Sub-lots										
lot & 1 sub-lot	9	10.71	97-39							
lots&?sub-lets	2	2.38	99.77							
Total	84		•							

Distribution of Farms by Lots and Sub-lots Inside the Block

While the dejure situation of farms is identical to that of holdings (Table 2.1a), the same cannot be said of defacts farms. Hap Two gives the location of farms in the Block. A summarised form of Hap Two can be seen in Table 2.4.

DEFACTO FARMS INSIDE THE BLOCK

Lot	Faras	Percentage
1	52	61.6
2	2	2.3
Sub-lote		
1	29	34.0
Lot & Sub-let		
1 lot & 1 sub-lot	2	2-35
Total	85	100.2

There is an increase in the number of farms from 72 to 85 that is an increase of 13 farms or 18.05%. Such a situation could not have come about without any forces being at work.

The one-lot farms comprise 61.7% of the total 85 farms. Hart come the one sub-lot farm. These make the second largest group - 34.1%. However, as yet we cannot say much about these farms because we have not seen the parts of the farms that lie outside the Block.

Distribution of Farms by Lots Outside the Block

As said at the beginning the data collected for farms outside the Block is not completed. It is only partial.

Table B gives a list of the farms found outside the Block. There are a total of 30 such farm lots and these belong to 24 farmers who have also farms inside the Block. Like in the

Refer beginning of Chapter Two.

case of holdings while most of lots outside the Block have one lot each, six farms have two lots each. Thus, 61 farms out of the 85 do not have lots outside the Block that is 71.8% of the farmers have farms only in the Block.

General Picture of Farms Inside and Outside the Block

How that we have dealt with farms inside and outside the Block separately, let us look at them are together.

Out of the 85 farms only 24 farms have lots outside the Block. Eighteen of the latter comprise of one piece each.

Fifty-seven of these farms are made of one sub-lot (inside Block) and one lot (outside Block) each. Thirteen farms are made of two lots each, one lot being inside and the other outside the Block. The remaining eight farms with the exception of one, have three pieces each.

Three farms have one sub-lot (inside Block) and two lots (outside Block) each.

Three farms have one lot (inside Block) and 2 lots (outside the Block) each.

There is only one farm which is made of four lots, two lots being in the Block and the other two outside the Block.

This then is the picture of the 24 farms that have lets outside the Block.

What about the 61 farms in the Block with no lots outside?

These are tabulated in Table 2.5. The farms that are of interest to us are mainly those that consist of one sub-lot each. There are 22 of these comprising 36.06% of the total 61 farms.

It is not our aim at this juncture to have a discourse on the economic size of a farm. It would be premature to do so. This is because we have as yet not said anything about the size of one sub-lot in terms of acres. But it would be pertinent at this stage to mention that it is either two acres or less - mostly a sub-lot being 1.5 acres in size.

TABLE 2.5

FARES CONTINED ONLY TO THE BLOCK

元. 文 款 本 独 数 双 和 我 都 在 华 故 教 彩 等 卷 [2]	· · · · · · · · · · · · · · · · · · ·	P47002	tage
Fares	No.	Absolute	Commistive
1 lot	35	37-36	57-36
2 lots	2	3.11	60.47
l sub-lot	2 2	36.06	96.53
l lot & l sub- lot	2	3.11	99.64
Total	61	***	-

CHAPTER III

DISTRIBUTION OF HOLDINGS AND FARMS BY ARRA

In the last chapter we discussed the following:-

- 1) The defacto situation of heldings and farms.
- 2) The number of lots and sub-lots, each holding and farm was made of.
- 3) Where these lots and sub-lets were situated were they inside or eutside the Block,
- 4) What percentage of the holdings and farms have other lots outside the Block?

Our discussion of holdings and farms cannot be fruitful
if we go on counting the lots and sub-lots that each is comprised
of. This is because we would not know their sizes by area. A
lot and a sub-lot does not give us any idea as to the size.
Thus, if A's helding is made up of two lots (outside the Block)
and one sub-lot (inside the Block), this only tells us that he
has three pieces of land and where these pieces are. We do not
know, the total area of the holding, neither do we know the size of
any one piece.

Thus, it is the aim of the present chapter to find the distribution of holdings and farms by area. We shall divide our discussion into four parts.

- 1) Size of holdings inside the Block; and size outside the Block.
- 2) Size of holdings inside and outside Block by interval of one acre to nine acres.
- 3) Sise of farms inside the Block, and sise outside the Block.
- 4) Size of farms inside and outside the Block in intervals of one acre to nine acres

Sise of Holdings inside the Block

Table 3.1 gives us information regarding the sise of holdings in the Block. The holdings range from a maximum of six acres to 0.75 acres.

TABLE 3.1

DISTRIBUTION BY SIZE OF HOLDINGS INSIDE BLOCK

Mise of Holdings (acres)	Be. of Holdings	Total Acresses
6.0	2	12.0
4-5	1	4-5
4.0	1	4.0
3.0	53	159.0
2.0	2	4.0
1.5	22	33.0
1.0	. 1	1.0
0.75	\$	1.5
Total	84	219.0

By far the largest group of holdings are three acres in sise. There are 53 of them and comprise 72.73% of the total area cultivated that is 159 out of 219 acres.

The second largest group comprises of sub-lets of 1.5 acres each. They constitute 26.19% of total holdings, taking up an area of 33 acres out of a total of 219 that is (15.47%).

The total area under sub-lots will not be very much increased if we add on to the 1.5 acre sub-lots, sub-lots of two acres and 0.75 acres. It only increases area occupied by sub-lots to 38.5 acres.

A break-up of total acreage cultivated inside the Block, into areas occupied by lots and sub-lots show that:-

179 acres are occupied by lots that is 81.73%,

44 agree are occupied by sub-lots that is 18.27%.

Our interest is confined to the sub-lots; we want to know why and how such sub-lots came into being. (Chapter Pive attempts to give reasons as to how co-cumerably and joint-ownership of lots arose).

The various since which these sub-lets have assumed is something worth pendering on. It is worthwhile asking the question to oneself at this stage, what would become of these sub-lets, if subdivision went a few steps further in one generation or two? Would not re-distribution or consolidation of holdings have to be re-done all over again?

Sine of Holding Lots Outside the Block

Table 3.2 gives us information pertaining to this. The lots range from a maximum of eight acres to a minimum of one acre. There are 45 lots outside the Block, and occupy a total of 132.5 acres. These 45 lots are owned by 36 Holders who also have either lots or sub-lots inside the Block. It is noteworthy that there are only 12 one—acre lots (ten are given in Table 3.2)1. They belong to twelve holders. These are the Kampong Lots that have been given to each owner of a lot in the Block. Only 16.4% of dejure owners have as yet been issued Kampong Lots.

SIZE OF MOLDING LOTS OUTSIDE THE BLOCK

Sise of Lots	Proquesay	Total Acreage
8.0	1	8.0
7-5	1	7-5
5.0	12	60.0
4.0	1	4.0
3.0	6	18.0
2.5	3	7-5
2.0	5	10.0
1.5	5	7-5
1.0	10	10.0
Total	45	132.5

¹ Two one-acre lots have been included as one two-acre lot in number 7 of Table 3.2

²61 dejure owners of lots in the Block have as yet not received their Kampong Lots.

Size of Holdings Outside the Block

Table 3.3 gives the sises of holdings found outside the Block These 36 heldings are part of 36 of the 84 heldings that are in the Block. The rest of the 48 heldings in the Block do not have any other lots outside the Block.

It is not difficult to say which is the most common size of a holing outside the Blook from the Table. The five acres are the most common. Hime out of 36 heldings that is 25% of the holdings are five acres in size. Very large heldings ranging between the sizes of ten acres to six or seven acres are not sommon. There is only one holding to each of these large sizes. This also can be seen in the Table.

Now, let us put these holdings outside the Block, together with those that are inside the Block. This will give us a complete picture of the holdings. We already know the individual sizes of holdings inside and outside the Block separately.

TABLE 3.3
SIZE OF MOLDINGS OUTSIDE BLOCK

lolding Sises (acres)	Frequency	Total Area
9•5	1	9 -5
8.0	1 .	8.0
7-5	1	7-5
7.0	1	7.0
6.0	2	12.0
5.0	9	45.0
4.0	2	8.0
3.0	3	9.0
2.5	4	10.0
2.0	3	6.0
1.5	3	4-5
1.0	6	6.0
Total	36	132.5

PABLE 3.4

HOLDINGS INSIDE AND OUTSIDE BLOCK

	Roldings			
Acres	Inside Block	Outside Blook	Inside & Outside Block	
less than 0.99	2	-	2	
1 - 1.99	23	9	14	
2 - 2.99	2	7	3	
3 - 3.99	53	3	29	
4 - 4-99	2	2	13	
5 - 5.99	-	9	4	
6 - 6.99	2	2	3	
7 - 7-99	_	1	2	
8 - 8.99	-	2	6	
9 & over		1	6	
Total	84	36	84	

In Table 3.4, column three we can see the number of holdings that lie between the various class internals. The average size of a holding (taking it as it is defined) is 4.2 acres.

The average size of holding inside the Block only is 2.6 acres. The average size of the 36 holdings that are subside the Block is 6.41 acres. Thus, it can be seen that there are three different averages for the holdings. Only the one that suits us should be taken for comparision. For our purpose since it is the general overall average of heldings that we need so the 4.2 acres average is pertinent.

How does this average compare with the averages of other countries, and other parts of our country?

India ³	Average (acres)
The state of the s	
Province of Bonbay	11.7
Province of Punjabi	7-5
Province of Madras	4-5
Prevince of Bengal	2.4
Province of Assan	2.0
North Helevad	
Kedah	4-94
Perlis	2.85
Province Vellesley	2.27
Kelantan	0.88
Krian District	4.72

The problem of this small size holding is further aggraved by the fact many of the holders have more than one piece of land as their holding. However as Rae has aptly put it 'from the view of agricultural efficiency, it is not the size of evmership holding but that of cultivation holding that matters most.' Let us therefore take a look at the size of farms inside and outside the Block.

Size of Farms Inside the Block

In Table 3.5, we can see that farm range from a maximum of six acres to a minimum of 0.75 acres. By far the largest number of farms are three acres in size. They make up fifty-five of the total farms inside the Block and occupy 67.12% of the 219 acres surveyed in the Block. These are all one-lot farms.

The next largest group comprise the sub-lot farms. There are 30 farms which are made of one sub-lot each. They range

³Studies in Mural Bosnomy, by R.V.Rao pg. 17

⁴The Economies of Padi Production in North Halaya (Part 1) by T.B. Wilson pg. 79 & 91.

Studies in Rural Economy by R.V.Rac pg. 19

TABLE 3.5
DISTRIBUTION BY SIZE OF FARMS INSIDE THE BLOCK

Para Sise (acres)	Prequency	Total Area
6.0	2	12.0
4-5	2	9.0
4.0	1	4.0
3.0	49	147.0
2.25	1	2.25
2.0	6	4.0
1.5	26	39.0
1.0	1	1.0
0-75	1	0.75
% tal	85	219.00

from 2.25 acres to 0.75 acres in size. But the most common size of a sub-lot is 1.5 acres. There are 26 such sub-lots and occupy 39 acres or 11.9% of total cultivated area inside Block.

There is only one farm inside the Block, which is consisted of one let and one sub-let, and only one farm that is two lets in size.

The dejure farms are 73 but the defacto figure is 85.

Thus, there is a 16.4% increase in the number of farms. The dejure average of a farm is three acres but the defacto average is 2.57 acres. While the number of farms have increased the total cultivated area has not changed therefore diminishing the average size per helding in the Blook.

Size of Farm Lots Outside the Block

Some of the farms inside the Block have also lots outside the Block. There are 24 such farms occupying 30 lots. Our aim is to find the size of these lot individually.

Table 3.6 gives us an idea of the various sizes of the lots that are found outside the Block. The 24 farms occupy 80.75

TABLE 3.6
SIZE OF PARE LOTS OUTSIDE THE BLOCK

Sise of Lots	Prequency	Total Acreage
5	6	30.0
4	1	4.0
3	6	18.0
2.5	4	10.0
2.0	5	10.0
1.5	1	1.5
1.25	1	1.25
1.0	6	6 .00
Total	30	80.75

acres - an average of 2.66 acres to a farm. There is no clear size pattern as to the most common farm let. The more common ones are the five acres farm lets, three acres farm lets and one acre farm lets. They take 64 acres of the 80.75 acres found outside the Block.

while there are twelve one-abre holding lots, there are only 6 one-abre farm lots. The difference arise from the fact, that not all owners operate their holding and because of the various forms of land tenancy that exist.

Size of Farms Outside the Blook

Table 3.7 shows there is no common farm size. The farms are of all edd sizes ranging from one agre to nine acres in size. The meanest that we can come to a common farm size is five acres. There are five of these farms. The differences in the sizes of farms and holdings outside the Block can be seen if Table 2.35 is compared with Table 3.4.7 It will be noticed that the farms and holding sizes do coincide but the number of holdings and farms that belong to each size of holding or farm differe. This is because the number of farms surveyed was only partial.

Farms Inside and Outside the Block
As pointed out earlier there are 85 farms in the Block,

TABLE 3.7
SIZE OF FARES OUTSIDE BLOCK

ars Sise (acres)	Prequency	Total Area
8.0	1	8
7.0	1	7
6. 0	1	6
5.0	5	2.5
4.0	1	4
3-5	1	3.5
3-0	3	9.
2.5	3	7-5
2.0	2	4.0
1.5	1	1.5
1.25	1	1.25
1.0	4	4.0
To tal	24	80.75

24 of these farms have besides the lots or sub-lots in the Block, other lots outside the Block. Table 3.9 gives farms as stated in the definition.

29.41% or 25 farms are less than three acres in size, but of these 22.3% or 19 farms are between 182 acres in size. It is questionable as to whether these farms are of economic or uneconomic size. The problem could be further aggravated if the farms were not in one single lot but were in two or more lets or sub-lots. (This problem will be discussed in Chapter Four).

The largest group of farms are between three to four acres in area. They comprise 43.5% or 37 of the total 85 farms. The mext common group is between the 182 acre class interval. They make up 22.3% or 19 of the total farms. These are two groups

FARMS INSIDE AND OUTSIDE BLOCK

Acres	Parse		
A92-46	Inside Block	Cutaide Block	Inside & Outside Block
Less than 0.99	1	-	1
1 to 1.99	26	6	19
2 \$0 2.99	4	5	5
3 to 3.99	49	4	37
4 to 4.99	3	1	10
5 to 5.99	•••	5	1
6 to 6.99	2	1	5
7 to 7.99	-	1	1
8 to 8.99	•••	1	4
9 & over	-	•	2
Total	85	24	85

between them contain 65.88 % of the total farms.

Thus, it can be seen that by far most of the farms are less than four acres in size. They comprise 72.76% of all farms. The rest of the farms are more than four acres in size. Only two farms are above nine acres. The smallest farm is lee than one acre. It is a 0.75 acre farm.

The average size of a farm (taken as it is defined) is 3.52 acres. How does this compare with average farm sizes in other parts of the country.

Forth Halam	Average Size of Para
Perlis	0.61 acres
Lodah	0.89
Province Wellesley	0.76
Kelantan	0.22 **

When compared, the average size of farms inside and outside the block is still greater than that found in other Kalayan states.

The Economies of Padi Production in North Malaya. Part 1, by T.B. Wilson, pg. 79, Table 75.

CHAPTER IV

FRAGMENTATION OF HOLDINGS FRAGMENTATION OF PARMS

In the last two chapters we discussed the distribution of holdings and farms by lets and sub-lets, and by area. This information will be useful to us in our present discussion of fragmentation of holdings and farms. Before going further let us define the term fragmentation to avoid any confusion or misunderstanding as to its meaning.

'Fragmentation is a technical term that describe a condition where farms that consist of several pieces of land have the pieces so scattered that the economic efficiency of the farm is reduced. In other words, if the pieces were contiguous or at least measure than the occuous efficiency of the farm would be raised.'

Two characteristics which denote whether a farm is fragmented or not are:-

- 1) The 'ecatter'of pieces.
- 2) The impairment of economic efficiency.

If these two characteristics are present then we can positively say that a farm is fragmented.

Fragmentation can be looked at from points of view.

- 1. Fragmentation of holdings.
- Pragmentation of farms.

Fragmentation of holdings is looking at the lots and sub-lots from the owners' point of view; and fragmentation of farms is to look at them from the operators' (farmers) point of view.

Where owners also operate their own holdings, then fragmented farm and fragmented holding are the same thing looked at

landivision of Estates. Volume L 1951-1960, pg.13

from different points of view.

Where a helder does not operate on his helding but rents out his helding to a few farmers who also rent pieces from other helders, then the helding and farm do not coincide because of difference in owners and operators.

From the view point of agricultural efficiency, 'it is not the size of ownership of holdings but that of cultivation units that matters most, '2 we are more concerned about mises of lots and sub-lots that farmers operate, not so much as to the size of lots and sub-lots owned.

Fragmentation has been described as an "unmitigated evil for which no advantage can be claimed". "While the progressive dimunition in the average size of holding is the direct result of subdivision fragmentation is caused not so much by the act of subdivision as by the manner in which it is affected."4

The Royal Commission of Agriculture described the question of fragmentation in the following words. Thus, if a father with three isolated fields of one acre each dies, legwing three sons, the latter will not take one field each but one-third of each field. In the result successive generations descending from a common ancestor inherit not only smaller share of his land, but inherit that land broken up into smaller and smaller plots. The other factor which leads to fragmentation is sale or purchase of a land quite distant from the original holding lot or sub-lot.

If a farmer (operator) rent in, another let or sub-lot at distance away from his present lot or sub-lot them his farm becomes fragmented. Having, thus got the concepts of fragmentation of holdings and farms, before proceeding any further let us first sort out a few problems.

If we look at Schedule III approval of application of Land (Land Rule 5) we see that every owner of a lot in the Block must have two lots:-

- 1) The Bendang Lot
- 2) The Kampong Lot

These two lots are located at entirely different places and are to

		e se	
² Studies in Rur	al Economy,	by R.V.Rao	pg-35
3Studies in Rur	al Economy,	by R.V.Rao	Pg-22
⁴ Studies in Rur	al Economy,	by R.V.Rac	pg-23
⁵ Studies in Rur	al Economy	by R.V.Rao	pg.23

"shall be solely used for the cultivation of wet rice," and the Kampong Lot "shall be used solely as a site for one or more dwelling houses and for the cultivation of trees of economic value other than rubber trees." These two lots are to be held by a single entry in the Mukim Register. Thus theoretically every holder must have two lots, both located far apart. This has been deliberately done. Practically there are only 13 dejure lots in the Block which have been issued Kampong Lots. Is this fragmentation or not? According to our definition it is and that is how these lots will be treated henceforth.

One more point, it is very difficult to determine whether economic efficiency of farms is impaired or not, because most of the lots outside the Block are planted with crops other than padi. No yardstick is available to measure the loss in efficiency.

Further where some kampong lots are nearer to the Bendang lots than others, then we must talk in terms of the degree of fragmentation because lots or sub-lots are either close or far apart. These are all arbitrary concepts and are difficult to determine. Therefore we shall talk of fragmentation of farms and holdings without much exphasis to these latter two problems.

Pragmentation will be dealt in basically two parts:-

- 1) Fragmentation of holdings and farms inside the Block.
- 2) Fragmentation of holdings and farms inside and outside Block.

Map 1 and Map 2 show the holdings and farms respectively in the Block.

Fragmentation of Holdings and Farms Inside the Block

If we rigidly follow the definition given, we will notice that there is practically no fragmentation of heldings. The nearest that we can come to some sort of fragmentation is shown in Table 308.4 But even these it is difficult to say that they are fragmented.

H25 is the least fragmented, in fact we cannot say it is fragmented because the two lots are adjoining ones. Beither can we say that H6 is fragmented because it consists of one adjoining sub-lot and lot.

Hil (Lot 3355 and 3359) is fragmented but there is no loss in economic efficiency because lot 3355 and lot 3359 are two farms of three acres each.

Only H33 can be said to be fragmented because the two lots that it is made of are situated far apart. As a farm too, this

TABLE 4.1

FRACKETTED HOLDING INSIDE BLOCK

	Lot No.	Average (acres)	Total Acreage
116	3343	1.5	4.5
H6	3344	3.0	4-5
H1 1	3355	1.5	3.0
H11	3359	1.5	3.0
#33	3364	3.0	6.0
E33	3398	3.0	6.0
E25	3411	3.0	6.0
R25	3412	3.0	6.0

holding is fragmented - the owner and operator being one and the same person.

Fragmention of farms based on the definition have occured only in three cases.

F3 (one sub-lot and one lot) = 4.5 acres
F16 (one sub-lot and one lot) = 4.5 acres
F34 (two lots) = 6.0 acres

If we look at Map 2 we see that the degree of fragmentation is greater in F34 than in either F3 or F16.

Thus only three out of the 55 farms inside the Block are fragmented that is only 3.52%.

Thus it can be concluded that the extent of fragmentation of holdings and farms inside the Block is negligible. The number of fragmented farms being slightly greater than heldings.

Pragmentation of Holdings Inside and Outside the Block (Refer Table 2.1 a)

While there are 45 lots outside the Block, there are 57 lots and 29 sub-lots inside the Block. These lets and sub-lots, are

and

both inside and outside the Block, recoupy a total of 351.5 acres. These 351.5 acres are owned by 84 holders of whom only 36 have holding lote cutside the Block. These thirty-six have among them 45 lots of a lot area of 132.5 acres. While twenty-six of these holders have only one lot each outside the Block, nine holders have two lots each.

The largest holding inside and outside Block is made up of three lots. This M25 covers a 13.5 acres. It comprises of two adjoining lots inside the Block and one lot cutside the Block. The smallest fragmented holding was 2.5 acres in size. It is made of one sub-lot (inside the Block) and one lot (outside the Block). The sizes of each piece being 1.5 and one acre respectively.

The average size of a holding which has lots outside the Block is 6.42. This average should not be taken too far because of extreme cases, like 2.5 acre holdings given above.

The fragmented holding comprise 42.0% of the total holdings inside and outside the Block, leaving 57.97% of holdings as not fragmented.

Pragmentation of Farms Inside and Outside the Block (Refer Table 2.1 b)

Out of the 85 farms surveyed, sixty-one farms do not have lots outside the Block. This is 71.035 of the total farms.

Of these sixty-one farms, thirty-five farms have only one lot each, 22 farms have only one sub-lot each, two have two lots each and one has one sub-lot and one lot each. (Refer Table 2.5). This then is the situation inside the Block.

Outside the Block, only twenty-four farms have lots. Here six farms have two lots each, the rest of the 18 farms have one lot each. Thus 75% of the farms outside the lots have one lot each, 25% have more than one lot each.

The largest farm inside and outside the lot in F34 consisting of two lots inside the Block and two lots outside the Block. It covers a total area of thirteen acres. F34 and H25 belong to two persons. Thus, these are the biggest fragmented holding and farm found inside and outside the Block. The average size of the 24 farms that have lots outside the Block is 6.05 acres.

When compared with average size of a fragmented holding (6.42 acres) the fragmented farm (both inside and outside the Block) which have lots in both places, there is not much difference.

We are in no position to talk at this stage of the economic size of each of the lot and sub-lots that theme farms are composed of; neither can we may much about the degree offragmentation. The individual size of holding and farm lets and sub-lots, are given

in Tables 3-8, 3-3, 3-5 and 3-6.

We can only talk of the extent of fragmentation while 42.03% of all 84 holdings are fragmented only 28.23% of all the 85 farms are fragmented.

The reason why fragmentation has been described as an unmitigated evil which has no sanction of the law, is because of:-

- 1. It is wasteful to the farmers' time, energy and equipment.
- 2. "It leads to irregular expansion of over waste land by purchase and sale." 5
- 3. It interferes with the cultivators attempt to improve his land.
- 4. The systematic organisation of labour and capital is made difficult.
- 5. The cultivators revenue is lessoned because of the emergence of ineffectionay of production.
- 6. There is the possibility that it would lead to boundry disputes resulting in prolonged ligitation
- 7. In the long-run the fragmented let and sub-let becomes too small to be of any use for sultivation and are thus neglected.

Both subdivision and fragmentation can lead to ludicrous situations like where "only one eccenut tree is left and since it cannot be divided physically the inheritors have to own this tree jointly."

Studies in Rural Economy, by R.V.Rac, pg. 23

⁷Land Distergration of Land Pelicy in Halayan Economic Review. Volume 111, lat April, 1958, pg. 22 - 29.

CHAPTER V

CO-OWNERSHIP

A lot or a sub-let can be owned by one or more than one person. If there is more than one owner than the land with a single title can be ewned on either joint-ewnership basis or co-ownership basis. These two terms can easily lead to much confusion and misunderstanding if their meaning are not clearly understood. Thus, it is pertinent if they are defined to make it clear as to what they mean or the situation they represent.

<u>Pefinition of Joint-ownership</u>

'It occurs where each person has an undivided share in the title.'1

Example: A, B, C and D put up \$500, \$250, \$150 and \$100 respectively to buy a piece of land for \$1,000. A has a share, B,C, and D have 1, 1/20 and 1/10 shares respectively. But no part of the land will be designated the particular area belonging to any individual owner. Even A who owns 2 of the land does not have any specific part as marked out for him. The proportion of ownership will be applied to the cost of production; and also to any profits that are made and distributed amongst the four parties.

Any member may sell part of the whole of his fraction of ewnership rights but he cannot claimed any particular area as being his own.'2

Definition of Co-ownership

It 'occurs where specific parts of the piece are designated to the different owners. Two or more persons may buy a piece of land and although they retain a common title, the area that each person is to operate is clearly desarcated.

¹ Subdivision of Estates, Volume 1, 1951 - 1960 pg.98

²Subdivision of Estates, Volume 1, 1951 - 1960 pg.98

Proquently this is a case of 'defacto' subdivision and joint ownership only exists in the eyes of land officials and land records.'

He cases of joint ownership were located in the Block. This because -

- 1. The holders made specific claim to the proportion of the piece that was their's in the lot.
- 2. There was no question of division of harvest or profits, on the basis of contribution made to the purchase of the piece, or the cost of crop production.

The harvest belonged to the owner, (if tenant-operator it was shared with owner, a giftee-operator helps &P h inself) and he could dispose it any way he liked without consulting the co-owners of the lot.

Now let us turn our attention to co-ownership. There are two conditions that must be fulfilled before co-ownership can come into being.

- 1. Two or more persons may buy a let, they retain a common title with their names on the title.
- 2. The area that each person is to operate is clearly demarcated.

In Sawah Sempadan while on the one hand it is possible for two or more persons to buy a lot, on the other they cannot retain a common title. This is not legally possible. Only one owner's name can appear on one title. This latter aspect fails to fulfill the conditions laid out in the first part of the definition of co-ownership. The second part of the definition of co-ownership is fulfilled in Sawah Sempadan.

Therefore we must amend our definition a little to suit the conditions that exists in Sawah Sempadan. If it was legally possible to put two or more names to a title in Sawah Sempadan then there is no reason why this would not have been done. But because of the barrier put by law there is only one owner's name on one title in Sawah Sempadan.

Thus, for our disquesion we are going to assume that the two or more exmers can put their names to a single title. Once we get this cleared then we can proceed and find out whether co-ownership exists inside the Block.

Subdivision of Estates, Volume 1 1951-1960, pg.98

Table 5.1 shows that out of a total of 73 lots surveyed, fourteen were co-owned. This percentage of 19.2 might not look very significant, yet it shows a very serious trend that is taking place - a twend contrary to policy and a violation of the law.

Basically it was found that co-ownership arose because of any one or more of the following reasons.

- 1) Sale or purchase of a sub-let. (This could be temporary or permanent.)
- 2) Purchase of a let by two or more persons, who later demanded up the lot into sub-lets.
- 3) Subdivision of a lot among the children of the owner.

In all there are 28 holdings created out of a total of 14 lets. Of these 28 holders, 17 holders have no other land besides their sub-lets in the Block. The size of the sub-let ranges from a maximum of 2.00 acres to 0.75 acres. The majority of which are 1.5 acres. The above information indicate to some extent the dual need of its holders.

- 1) The need for land.
- 2) The inadequacy of means of purchase.

This gives use to small holding. A holder in need of cash may sell his lot, or a piece of it, to one or more farmers, who might individually or jointly buy it. But whatever the reason may be the lot gets divided up in the process.

A further step for the owner of one sub-lot will be to buy more land to increase the size of his holding. This he will do when he has money and there is a potential seller. The difficulty is that an adjoining place may not be found; and lots or sublots located further away have to be purchased.

In Table 5.2, only two out of the 28 holders have other lots or sub-lots in the Block. They are:-

H6 (Lot 3343 and 3344) has two three-acre lots.

Hill (Lot 3355 and 3359) has one three-agre lot and one sub-lot of 1.5 agres.

However, both the holders are fortunate in the sense that the land they purchased happens to be adjoining to their former land.

The remaining ten holders have all their other lots, in other Blocks, or outside Sawah Sempadan.

Rine helders have two lots each, while one holder has one sub-let and two lots. It would be beneficial if we knew whether, these ten helders bought their lots or sub-lots inside the Block to substantiate their lots elsewhere, or was the situation vice versa. The chances are that it was the people from outside Sawah Sempadan namely the residents of Batu Sembilan, Batu Lapan, Batu Ensa, Sungai Tinggi Kanan and etc. who bought the lots and sub-lots inside the Block to substantiate their already existing lots. This deduction is drawn from the fact that places like Batu Lapan, Batu Tujoh, Sungai Tinggi Kanan and etc., were opened up very such earlier than the sawah lands of Sawah Sempadan. It is from these types of purchases and sales that fragmentation arose.

FABLE 5.1

SECURE LOTS' OWERD ON CO-OWNERSHIP BASIS THE BUNDER

OF OWNERS AND SIZE OF EACH BOLDING

Bo.	Lot Bo.	No. of Owners	Во	lding Bo	•		e of Rec	k
1	3331	8	Hl	52	-	2.C	2.0	_
2	3343	2	H 5	1 6	-	1.0	2.0	-
3	3347	2	87	118	-	1.5	1.5	-
4	3353	2	B46	B47	-	1.5	1.5	-
5	3355	2	KLO	R11'	-	1.5	1.5	-
6	3358	2	H72	E73	••	1.0	2.0	-
7	3359	2	mı°	E1.2	, 🖜	1.5	1.5	-
8	3361	3	E49	R 50	H51	1.5	0.75	0.75
9	3368	2	E34	H35	-	1.5	1.5	-
10	3377	2	H54	E55	-	1.5	1.5	-
11	3393	2	259	E 60	-	1.5	1.5	-
12	3397	2	H61	H62		1.5	1.5	-
13	3399	2	H21	B22	-	1.5	-	-
14	3409	2	H65	H66	•	-		-
*		29*			**	-	-	-

[&]quot;Ill has one owner. Therefore 28 owners.

LOTS AND SUB-LOTS OF CO-OWEERS INSIDE AND OUTSIDE THE BLOCK

No .	Holding Bo.	Let No.	Land in Blook	Land Cutaide Ricck
1	n	3331	•	-
2	E2	3331	•	-
3	R 5	3343	•	Block J
4	116	3343	3344	-
5	M7	3347	***	Block N
6	E8	3347	-	Sungai Sirek
7	MO	3355	-	ains
8	E1.1	3355	3359	-
9	H12	3359	•••	-
10	H21	3399	- ***	_
11	E22	3399	-	_
12	E34	3368	_	Sungai Tinggi Kanas
13	H 35	3368	•	Sungai Tinggi Kanar
14	E 46	3353	_	-
15	B47	3353	-	~
16	B49	3361	_	-
17	E 50	3361	-	-
18	H51	3361		-
19	E 54	3377	_	Batu Lapan
20	H55	3377	-	Batu Tujoh
21	H59	3393	_	-
22	E60	3393	-	Sungai Tinggi Kanas
23	E 61	3397	-	Block N Sungai Tinggi Kanas
24	R62	3397	-	Sungai Tinggi Kana
25	E 65	3409	_	•
26	166	3409	_	-
27	H72	3354	-	-
28	H73	3354	-	-

Co-ownership Resulting from Sale

Case 1. Lot 3399

The title of this lot is in the name of Haji Iman. He lives at Batu Tajoh with his parents. He has no other land except that which is in the Block. He sold half of his three acres to Haji Abdul Salim. The sale was done on condition that, if Haji Iman's some in-law could repay the money then the land would be returned. Thus, sale was but temporary. It is more akin to mortgage because Haji Abdul Salim in every way is the owners until his loan is repaid.

The two owners equally divide the land rent and waterrate between themselves.

Case 2. Lot 3343

Title is registered in Haji Abdul Rehman bin Surat's name. He sold one acre of his land to Sidek bin Hawawi, who unofficially owns it. Sidek pays on one-third of the water-rate and land-rent.

Case 3. Let 3331 (Size 4 acres)

Initially the land was owned by:-

- 1) Eassan b. Haji Bahalan
- 2) Hidel b. Haji Dahalan

These two brothers got their sub-lots of two a res each through inheritance. The title was registered in Eassen's name.

It is interesting to note that Eidel who owned two acres unofficially, sold them to Saidi bin Sidek who is the new owner. Both these ewners have no legal existence and therefore there is no record of their transactions in Land Office Records.

Case 4. Lot 3358

According to the records at the Matriot Office, Kuala Selangor, it was found that the owner was Samah bin Wahid. However, the interviewee Kassim bin Wahid (who is the operator) said that the present owners are:-

- 1) Besom binte Abdullah
- 2) Haji Zain

It was gathered from him that Deson was the wife of Samah bin Mohd who has died. Before his death he sold two acres of his lot to

Haji Zain. The sale was made on condition that if Samah could repay the money, the two acres would go back to him; but until then Haji Zain has full use of the two acres. Summh died before he could buy back the two acres. His wife inherited his one acre. Thus, co-ownership arese before husband's death and was carried on through the wife.

One-third of the water rate and land rent is paid by Deson, the rest is paid by Samah.

Case 5. Lot 3353

Land Office Records show that Haji Abdullah bin Surayo is the owner of the lot. The defacto owners are:

- 1) Haji Abdullah
- 2) Sarip bin Ahyat

Each possess 1.5 acres. It is not sure whether the two new owners bought the lot together or separately. The water bill and land rent are divided between them.

Co-ownership due to Combined Purchase

Case 6. Lot 1409

Chek bints Nohd and Ahmad bin Nd. Yardi bought this lot together. They subdivided the lot between themselves each getting 1.5 acres. The water bill and land rent are paid on 50% basis.

Case 7. Let 1197

Haji Omen bin Hassen and Haji Abdul Jaffar bought this lot together and subdivided the lot into two equal parts of 1.5 acres each. The title is still in the old owner's name. (Sarip bin Muhawa).

Case 8. Let 3393

the case is similar to case seven. The owners now are:-

- 1) Abdullah bin Moh Alip
- 2) Ahmed bin Hassan

Case 9. Lot 3377

Two persons, Haji Osman bin Jayanstan and Haji Abdul Rahman, together brought this lot. Title is registered in former's mans. They square out the water and land rents.

Case 10. Lot 3353

Case same as above. Owners are :-

- 1) Seni bin Haji Idrie
- 2) Kaslan bin Bakar

Case 11. Lot 3347

The lot has undergone two stages

- 1) Co-ownership
- 2) Inheritance of sub-lot.

Haji Sukor bin Harlibi and Surat bin Suradin together brought this lot and equally subdivided it. The land title being in former's name. When he died, the son Taman bin Haji Sukor inherited the land and the title was transferred to his name. The point here is that the son does not question about the legal aspect of the title; he does not lay claim to the other 1.5 acres. The two owners settle the land rest and water rate equally between themselves.

Co-ownership Due to Subdivision

Case 12. Lot 3361

The lot is registered in Sukaini bin Korono's name. He has taken on the task of dividing 1.5 acres of his three acres between his two children. They now own 0.75 acres each. They pay i of the water rate and land rent each while the father pays half.

Case 13. Lot 3368

Haji Osman bin Kasan owns this lot. But he has divided this lot and the Kampong lot between his son and daughter. Thus, sen get 1.5 of the sawah land and 1.5 of Kampong land. The daughter, too, gets the same amount. This is a typical example of fragmentation, subdivision and co-ewnership.

Case 14. Lot 3359

- Owners are: 1) Sarip bin Ahyat
 - 2) Rohani bin Ahyat.

Both brother and eister have inherited 1.5 acres each of the lot. The title is in the brother's name. They equally pay the water rate and land rent.

CHAPTER VI

CO-OPERATION

Joint-operation as a method of cultivation and cropsharing is absent from the Block. The more common system of
cultivation is that of co-operation. It is a system where the
operators have specific sub-lots allocated to them for cultivation.
The operators do not interfere with the other sub-lots which go to
make the lot. From the first stage of cultivation to the final
harvest it is the responsibility of the operators of the various
sub-lots. They are, therefore, the risk bearers as well profit
earners of their respective sub-lots.

A total of 16 lots in the Block were worked on co-operation basis that is 21.94% of the 73 dejure lots in the Block. They comprise 32 or 37.6% of the total farms.

Co-operation came about in the lots because of a few reasons.

- 1) The purchase or sale of sub-lots.
- 2) The renting in or renting out of sub-lots.
- 3) The giving away of sub-lots to relatives or friends, rent free. There are the giftee-operators.

It is the aim of this chapter to discuss co-operation under four headings.

- 1) Owner-operated sub-lots.
- 2) Owner-tenant sub-lots.
- 3) Ciftee-operator sub-lots.
- 4) Special Cases.

An approach of this sort, it is assumed will help to facilitiete an understanding of the nature of co-operation as to why and how co-operation arose.

Owner-operated Sub-lots in the Lots

Table 6.1 gives a list of these sub-lots. Of the 32

farms that these sub-lots comprised 20 farms were owner-operated. They occupied a total of 30.5 acres of the 49 acres that the 16 lots under co-operation scaprised of that is 51.7% of the area is under co-operation where owners operate their sub-lots. This high percentage gives us an indication as to the reasons why co-operation could have arisen.

Of these 20 farms only six farms have other lots outside the Block. The rest of the 14 farms do not have another land besides the one they possess in the Block. The average size of each sub-lot being 1.5 acres. Thus, it can be deduced that here co-operation in the lots could have come about due to the purchase or sale of sub-lots in the lots.

Owners in needs of each and buyers in need of each may have made transactions resulting in the sale and purchase of sublots. Land being the most important security of any holder it is possible that the owners may not have wanted to sell the whole lot or it could be that the potential buyer did not have enough money to buy the whole lot, so two or more potential buyers may have brought emp lot from the owner and then worked on others a co-operation basis.

The cases given at the end of the chapter will attempt to throw light on their various situations.

Landlord or Owner-tenants Sub-lot in the Lots

It is quite common for farmers to rest in sub-lots from landlord who have land to rest out. These farmers may or may not have other lets or sub-lots on which they eperated prior to resting in the new lot or sub-lot.

Seven farmers have rented in seven sub-lots. This is in three lots and ens-sub-lot. If two farmers were to rent in half a lot each, they cannot be operating on a co-operation basis because no question of undivided shares arise. These two farmers have nothing to do with each others. Except for the common lot that they are working on, they are independent of each other. These farmers pay rent in kinds, not each. The rent is on the 'Bagi Dua' basis that is it is half the total harvest of padi.

Ciftee-operated Sub-lots in the Lots

It is quite common to see farmers working on sub-lots that have been given to them by some kind relative or friend to work on. Those farmers do not own the land; neither do they pay any rent of any kind. They cultivate the land and have full ownership of the harvest.

One lot and one sub-lot inside the Block was operated on co-operation of this sort.

TABLE 6.1
OWNER-OPERATED OPERATED FARMS

Farms	Sise of Sub- lots (acres)	Lot Eo.	Lots Outside Block (acres
8	2.0	3331	-
P 5	1.5	25:43	-
P6	1.5	3343	3.0
73	1.5	5 5 4 9	***
27	1.5	3347	-
no	1.5	2250	
711	1.5	3359	•
721	1.5	3.399	-
F35	1.5	3368	-
F36	1.5	3300	-
14 7	1.5	2252	-
F48	1.5	3353	8.0
P54	1.5	2347	2.5
15 5	1.5	3377	
P60	1.5	2202	1.6
Pál	1.5	3393	-
F62	1.5	1707	5.0
F63	1.5	3397	2.5
F66	1.5	3 4 0 Q	
P67	1.5	3409	-
	30.5		-

TABLE 6.2
OWNER-TREAST OPERATED PARES

Para	Size of Sub- let (acres)	Let Bo.	Cach	Kind
73.	2.0	3332	: **	Bagi Dua
122	1.5			• •
F16	1.5	3403		# #
723	1.5	* 4 <i>0</i> 00	•	89 89
F24	1.5	3407	45	98 - 69
780	1.5	7.200	es	38 88
P61	1.5	3390	-	eş \$0
Total	11.0			***

In Let Number 3365, the father has given each of his two children, half a let. They had the full responsibility of their respective 1.5 acres. They paid no rent of any kind. These two sub-lots were given as gifts to his children. Thus, this lot was under co-operation.

The other was one in which a son-in-law is given 1.5 acres to work on. He also does not pay any rent.

TABLE 6.3

GIFTEE-OPERATOR OPERATED FARMS

Para	Lot Bo.	Size of Sub- lot.(acres)	Rolationship
P 20	3399	1.5	son-in-law
F57	3385	1.5	sen of owner
P 58	3307	1.5	son of owner
To tal	449	4.5	

Special Case of Co-operation

In lot 3361 has divided 1.5 acros of his land equally between his son and daughter. The other 1.5 acros is left for hisself. Thus, bringing about the creation of three holdings. This is because the father has in fact given away ownership of 1.5 acros to his son and daughter. The son operates his own sub-lot of 0.75 acros; but the daughter has given her 0.75 acros to her father to operate. This sub-lot is adjoining the father's sub-let that gives her half the harvest.

Thus, here we have a situation where owner owns his sublot of 1.5 acres. He further operate on 0.75 acres of which half the harvest belongs to him. Thus he is in fact both an owner as well as a temant.

This has been considered a case of co-operation because there is no question of undivided shares arising.

。"要是我们的时候,我们们的大学成员的特别的,我们就是这种的特殊,我们就是这个人的,我们就是这种的特别的,我们就是这个人的,我们就是这个人的,我们就是这个人的,	
一种,不知识机,我也是是我的感觉,我也有一个人,就是一个一种的人,这个人,这个人,这是我,我就是自己的。""我们是这个人就算的人,就是我们不是这个	
。""最后还是我们的这种情况是我们的,我们就是这种事情,也没有一个人的,我们就是这个人的,我们就是这个人的。""我们就是这个人,我们就是这个人的事情,我们就是这	
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는 일반하다 생활하다 있다. 네트를 보고 있는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	
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그 🖊 하나면 내용을 하는 것이 되는 것이 되는 것이 하는 것이 되었다. 그렇게 되는 것은 그는 그를 보고 하는 것을 받아 하는 것은 것을 하는 것을 모든 것을 하는 것을	
երգե <u>րակավացիանում</u> ը, իա <u>նրանական կավարի</u> չ հայկա <u>նումիականիականավար</u> կանումիանում անականականում և	

Co-operation due to Purchase

Case 1 Lot 1409 P66 P67

This case is referred to under co-ownership of land that has arisen due to purchase in Chapter V. It shows how co-owners ship arose and since the co-owners operated their lots, the question of how co-operation arose is self-explanatory (Refer Case V).

Case 2 Lot 3397 P62 P63

Also given under co-evership due to combined purchase in Chapter V (Refer Case 6).

- Refer case on co-ownership (Case 7).
- Refer case on co-ownership (Case 9).
- Refer case on co-ownership (Case 10).
- Case 6 Lot 1377 P54 P55

 Refer case on co-ownership (Case 8)

Co-operation due to Renting in of Sub-lots

Case 7 Lot 3407 P23 P24

grae J vellas

Here, Siti Kalijah binte Serveire is the owner of the lot. She has rented it out to two eperators.

- 1) Md. Zalid bin Haji Hassan
- 2) Kaslan bin Zain

The fermer operates one acre, the latter two acres. Each pays rent on the Regi Dua basis.

Case 8 Lot 1390 F60 F61

The owner is Saman bin Sidek. He has rented out his lot equally to two operators. They are:

1) Haji Abdul Rahman bin Dipo

2) Maji Abdul Rahim

Each pays rent on the Bari Dua basis.

Case 9 Lot 3403 F22 F16

The owner is Haji Abdul Karim. He has rented out lot equally to two operators.

- 1) Mesturi
- 2) Ismail bin Abdul Karin

They both pay rent independently on the Bagi Dua basis.

Co-operation due Subdivision of Lot

Case 10 Let 3368 F35 F36

Refer case on co-ownership (Case 11).

Case 11 Let 3339 F10 F11

Refor case on co-ownership (Case 13).

Co-operation due to Cifts

Case 12 Lot 3399 F20

Refer case on co-ownership (Case 1).

Case 13 Lot 1385 P57 F58

The owner is Resni binte Mustaffa. She has divided her lot into two equal sub-lots and given them to her son. She still possess claim to ownership of the land. Her two soms are:-

- 1) Hamsah bin Kosmi
- 2) Takim bin Hashim

They do not pay any rent to their nother but help the harvest for themselves.

CHAPTER VII

AMALYSIS OF LOCATION OF LOTS AND SUB-LOTS

By location we mean 'where' or 'place' thatis we want to know where the lets and sub-lets are to be found. So far we have been only talking of lets and sub-lets under two general headings. That is those lets and sub-lets inside the Block and those let outside the Block. Our aim is to break this two headings further down and be more precise as to where the lets and sub-lets are located. We have already discussed lets and sub-lets in terms of heldings and farms, and by area. This was done in Chapter Two and Three respectively. In this chapter, we basically want to know one fact and that is the location of lets and sub-lets.

This will be dealt under three main headings:-

- 1) Location of lots and sub-lets inside the Block.
- 2) Location of lots and sub-lots outside the Block but inside Savah Sempadan.
- 3) Location of lots outside the Block, and outside Sawah Sempadan.

Location of Lots and Sub-lots Incide the Block

The Block is, for this discussion, divided vertically into four sections. Hamely Section A, B, C and D. (Refer Map 1).

Table 7.1 gives us information as to where the lots and sub-lets are to be found. Two types of information is given in the Table.

- 1) Rumber of lots and sub-lots in each Section.
- 2) The area occupied by the lots and sub-lots.

This is done to simplify discussion. We are however handicapped in one way. That is the number of lots that have been surveyed in each section differs.

	Sections	Lots Bot Surveyed
	A	<u>.</u>
	3	7
	D D	2
	Total	16
4		

TABLE 7.1

LOCATION OF LIFTS AND SUBLICITS BY GROUP SIZE INSIDE THE BLACK

		<	Seatter	9	Sec State		3	
	3	1000	3	24 PK	3	3	3	3
•		•		•		•	•	•
		ngipen was and	4	•	2	•	\$	·
		₩.	•	•	•	i	•	• .
	•	2	8	~	٠		•	~
n Neutra na april na cine menggan mengapi Mangapin na kanangan mengapin na kanangan Mangapin na kanangan na kanangan na kanangan na kanangan na kanangan Mangapin na kanangan	•	•	(53)	•	•		•	•
		•	•	•	٠	•	•	•
		23	22	~			\$	Pet .
A706	3	2	3	~	\$	*	S	· (4)
Total Area		<i>a</i>	•	3		88		\$

Because of this, we cannot make any comparisons.

In Section A, 67 acres or 30.6% of the total average surveyed inside the Block is found. Out of the total 59 lots inside the Block, 16 are found in this Section. There are 12 sub-lots here out of the total 29 inside the Block. While the lets coupy 48 acres in this section the sub-lots occupy 19.0 acres.

The ratio of lots to sab-lots being 4:3.

In Section B, lie 46 acres or 21% of the total area surveyed inside the Block. There are fifteen lets but only two sub-lots. The lots eccupy 43 acres but the sub-lots eccupy only 6.51% of the total area inside the Block.

The ratio of lots to sub-lots is 15:2.

In Section C, 52 acres of the total surveyed area is found (23.7%). There are 11 lots and 18 sub-lots. This is the only section where the number of sub-lots is greater than lots. But inspite of this the area cocupied by the let is twice as high as the sub-lets. Lots occupy 34 acres and sub-lots occupy 18 acres.

In Section D, 54 acres (5.56%) of total acreage in the Block is found. It contains 17 lots and three sub-lots. While the lot eccupy 51 acres, the sub-lots only eccupy three acres.

The ratio of lots to sub-lots is 17:2.

Prom the four sections it can be seen that of the 29 sublots in the Block, the largest number are found in Section A and C. This is inspite of the fact that five lots in Section C yet remain to be surveyed. Together, the two sections contain 25 of the 29 sub-lots. No reason can be given as to why most of the sub-lots are found in Section A and Section C.

Location of Lots and Sub-lots Outside Block but in Savah Sempadan

In Table 7.2, we can see the location of these lots and sub-lots. There is little that can be said of these three lots and one sub-lot. The total area occupied by them is 10.5 acres. Except for Block J, Blocks W and P are on either side of the Block. The mearness to the Block could be a reason as to why they are located there.

Location of Lots Outside Savah Sampadam

A total of 41 lots occupying an area of 128 acres is found outside Savah Sempadam. These lots are located at nine different places (Table 7.3). There is a clear pattern in their location, all are located along the main laterite road.

By far the most number of lots are located at Sungei Tinggi

Because of this, we cannot make any comparisons.

In Section A, 67 acres or 30.6% of the total average surveyed inside the Block is found. Out of the total 59 lots inside the Block, 16 are found in this Section. There are 12 sub-lots here out of the total 29 inside the Block. While the lots occupy 48 acres in this section the sub-lots occupy 19.0 acres.

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LOCATION OF LOTS AND SUB-LOTS INSIDE SAVAN SEMPADAN

TABLE 7.2

以参传等	Bloc			ek s	N.	ok P	To tal
	Let	Sub-lot	Lot	Sub-lot	Lot	Sub-lot	Acreage
3	The straight	-	1		1	-	9
1.5	40,000		*	4	•	1	1.5
Total	1	***	2		1	1	10.5

Kanan. Here 18 of the 41 lots are found. This is 43.09 or nearly 50% of the lets. The nearness of the place to the Block could be a factor which has led to their location there. It is important to note that travelling could cause such inconvenience and loss in efficiency. Thus, the nearness of these lots to the lots and sub-lets could be a measure to overcome this disadvantage.

Batu Tajoh adjoins Sungai Tinggi Kuman. Here the second highest number of lot that is only five lots located. The rest of the 18 lots are distributed among seven places.

	<u>iote</u>
B. Sembilem	4
B. Legen	4
Sungai Soreh	4
B. Epan	2
B. Line	2
B. Repat	1
Bukit Belimbing	1
% tal	18

CHAPTER VIII

PADI OUTPUT AND PRODUCTIVITY

The main serval grown in Sawah Sempadan is padi. It is the staple food of the farmer. Padi is grown for both home consumption as well as for each. It is the sole means of livelihood and the output per year of each farm determines the income of the farmer for the same period. Thus, it is important to know the total quantity produced, the varieties planted and whether yields are high or low as compared with past years.

The total output of padi in the Block was 59,945 gantangs for the session 1963/64. This amount was harvested for 73 lots which comprised 219 acres. This is about 815.7 gantangs per lot. However, this is not a fair average because some of the lots are four, three and some one acre in sise. Thus to get a more representative average would be one where we take lots of standard sise. Since 70 lots are three acres each thus 832.71 gantangs per lot is a better average. This is 277.5 gantangs per acre.

In the 1962/63 period of cultivation, a total of 49,220 gantange of padi was harvested in the Block - an average of 674.24 gantange per lot or about 224.73 gantange per acre.

This shows that output for 1963/64 was far better than 1962/63. There was an improvement of about 10,725 gantange. This is an average increase of 52.84 gantange per lot. Various reasons were given by the farmers as to why the yields were higher for 1963/64. One mest common claim was that an ulat (ulat Batang) a pest attacked a large percentage of padi plants in the 1962/63 period and thus destroyed a lot of them. (This pest, ulat, is discussed in greater detail in Chapter IX).

Another complain was that in the 1962/63 period, Taivan padi was first introduced and planted. It was a double-crop but instead of yields increasing they decreased. The <u>ulat batang</u> too, attacked the padi plants that year and it extensively damaged many

The conversion rate of converting a kerosene tin in gantangs is one tin = five or six gantangs (as given by farmer). This figure tough incorrect are still used. Actually one tin = four gantangs.

of the padi plants.

Thus, because of these two reasons, yields were low in 1962/63. However, though in the 1961/64 period the ulat was still present in the fields (it has not been completely eradicated inspite of apraying insecticides) the reversal to single cropping enabled higher yields.

The highest yield obtained in 1963/64 was in Lot 3400 - 2,500 gantangs. The lowest was in Lot 3359 - 180 gantangs.

There is a range of about 2,320 gantangs.

Table 8.1 shows the output of padi by the Lots. About 53% of the lots, produce between the range of 400 - 800 gantangs. Only 21 lots went above the 1,000 gantangs each. Only two lots produced below 400 gantangs.

PADI OUTPUT IN GANTARGS 1963/1964

Car	Cantange			Percentage	Carrier Co
Less th	an I	199	1	-	_
500	- ', ,; .	399	1	-	-
400	-	599	20	27.39	•
600		799	19	26.02	30.42
800	•••	999	11	15.06	79.42
1,000	•	1,199	8	10.95	
1,200	-	1,399	6	-	400
1,400	445	1,599	5	-	-
1,600	_	1,799	1		•
Over	1,8	00	1	-	
%	tal		73		

Thus, it can be said that 79.42% of the lots produce

between the range of more than 400 gantangs and less than 1,000 gantangs.

We cannot draw any conclusions from the above figures because we do not have any basis of comparison. We do not know what the average yields in other Blocks were. We do not know whather total outputs there increased or decreased in the 1963/64 period as compared to 1962/63.

Variety of Padi Planted Inside Block

Basically the following situations were found in each lot.

- 1) One main variety plus pulut.
- 2) Two main varieties plus pulut.
- 3) Three main varieties plus pulut.

Pulut was found in all lets. But it was never grown in large quantities, the quantity harvested was insignificant in amount compared with the total harvest. Thus, we shall leave out pulut from our present discussion. It will be discussed later under heading of 'Pulut'.

One Variety Farme

In 59 farms only one variety of padi was planted. The most popular single crop per farm was Radin Putch cultivated in 30 farms. Radin China came mext with 18 farms denoted to it. Radin Pahang has eight farms to it. Radin Che Ma, Radin Kuming and Kudu have one farm each denoted to it.

The rest of the 26 farms (30.50%) are under more than one variety of padi.

Two Variety Parms

Twenty-five farms are under two varieties of padi. They are in the following continuation.

				<u>Ans</u>
Radin	Putek	-	Radin China	13
Redin	Putch	-	Radin Pahang	4
-,	Puteh	-	Sori Raja	2
	Putch		Radin Kengkuang	1
,	China	-	Seri Raja	2
	China	-	Padi Burong	1
		HAN	Seri Raja	1
	Pahang			1

25

It was found that the most popular two varieties planted on one farm were Radin Putch and Radin China. There were thirteen farms having this twin combination.

Three or More Variety Farms

There was only one farm which planted three varieties of padi. Hamely Radin China, Radin Putch and Seri Raja (Lot 3378 F17).

Thus, it can be seen that by far the most popular variety grown was Radin Putch which was found in 50 of the total 85 farms.

Other than this information we cannot say anything much about other things. Since we do not know the exact total ougut each variety produces. This is because 26 of the farms produce more than one variety and also the fact that we have only gross output figures. Therefore, it is difficult to come to any conclusion as to the variety of padi that produces the highest output and would be most beneficial to the farms from output and income points of view.

Furthermore even for the 59 farms which it was earlier stated, planted only one variety, this one variety is not absolute. 'Pulut' is part of the total harvest even though it's quantity is not significant.

Pulut

Early all the farms in the Block plant some pulut. This is about ten to twenty gantangs of the total harvest. During the interview some farmers were bold enough to acknowledge the existence of this plant in the midst of the main crop, others feel that it was too small an amount and thus needed no mentioning. Some simply laughed when questioned as to the number of gantangs of pulut they harvested.

From here we can draw a few conclusions:-

- 1) Pulut forms a very insignificant part of the total harvest.
- 2) It is grown more for home consumption rather than for cash.

Thus it was because of these two reasons especially the first that pulut was included in the figures of total harvest.

Variety of Pulus

It is interesting to note that inspite of the small quantities of pulut planted there were no less than five varieties discovered in the Block.

They were manely:-

- 1) Palut Galah
- 2) Pulut Serang
- 3) Pulut Sereh
- 4) Jarong Ras
- 5) Pulut Herah

of these, Fulut Sereh was by far the most popular variety planted.

to the fact that come pulut was for home consumption the farmers planted that variety which was more akin to his taste.

Hert it would be pertinent to look at the types of owneroperator, temant-operator etc. relationships that produced the total padi output.

Table 8.2 gives a complete list of the various forms of relationships. It also gives the number of lots and sub-lots and the total output of each type of relationship.

Owner-operatore

Their output was 39,575 gantangs that is 66.40% of the total harvest for 1963/64 (Table 8.2A). This is the largest group and cover 153.75 acres of the total 219 acres in the Block.

TABLE 8.2A
OWNER-OPERATOR

sise of Lot & sub-lot sulti- rated (acres)	Frequency	Total Aereage	Total output (gantangs)
4	1	6	1,740
A	1	4	600
	37	111	28,580
,	1	2	250
1.5	20	30.74	8,255
0.75	1	0.75	150
Total	61	153.75	39,575

Tenant-operator

They produced 16,030 gantangs from 19 lots and sub-lots comprising 47 acres of land (Table 8.28). These tenants pay rents on the <u>Pari Dua</u> basis. The payment of water-rate and land rent is responsibility of the owner.

TABLE 8.42B

TERANT-OPERATORS

我就是是我们的我们的我们的我们的的人,我们也是是我们的的,我们也会看到我们的一个的,我们就是我们的一个的,我们也会会会会是我们的,我们也就是我们的,我们也没有					
Sise of Let & Sub-lot Culti- vated (acres)	Prequency	Total Acreage	fotal Output (gantange)		
3.0	12	36	12,760		
2.0	2	4	820		
1.5	4	6	2,200		
1.0	1	1	250		
Total	19	47	16,030		

Other Relationships

The rest of the land was taken up by six types of relationships (Table 8.2C). The one characteristics feature of this was that me rent was paid for the use of the land. This was more on family basis than anything else. These family arrangement has five lets and four sub-lots denoted to them.

It can be noticed that while the largest operated land of two lots (6 acres) cans from owner-operator group, the smallest too, was also from this group. It was 0.75 acres in size.

Finally, it cannot be said specificially which section of the Block produced the highest yields. This was because there was such such pattern discernable inside the Block. Thus, the only factors which may be responsible for high or low yields could be either absence or presence of pest, disease, the initiative of the farmers and the water sufficiency of the farms.

Lastly, let us see thuether any difference in ouput is discernable in the lots which have building on them as compared with those that do not have any.

There are altogether 73 lots inside the Block. Fourty-two lots have dwellings on them. The 42 lots produce 30,715 gantangs of the total padi entput inside the Block. The 31 lots produce 29,230 of the total. The elementary lets with buildings therefore, produce only 1,485 gantangs more than the lots on which there are no buildings. This clearly shows that output of the 31 lots is definately higher than that got from lets on which there are dwellings. This is expected because the houses and the compounds around the house in each lot occupy at least a little less than half an acre of land. Thus, they reduce the average available for padi. Therefore, it is natural that lets with dwellings should have lower yields than those without houses on them.

TABLE 8.4 C
OTHER RELATIONSHIPS

Relationship	Size of Lot & Sub-lot Cultivated (acres)	Frequency	Total Acreage	Total Output (gantangs)
Son - operator	3.0	1	3.0	200
- do -	1.5	Z	3.0	700
Son-in-law Opera- tor	3.0	The development contained printing	3.0	650
- do -	1.5	k	1.5	600
Husband-operator	3.0	• Auromonosis Linia (Maria	3.0	750
Wife-operator	1.0	1	1.0	700
Relative-operator	3.0	1	3.0	590
Father-operator	0.75	Topical and a state of the stat	0.75	150
Total		9	18.25	4,340

CHAPTER IX

PEST AND DISEASE

The two most common enemies of padi are disease and pest. Together they are responsible for the reduction of padi output. The reduction of output depends on the intensity of the damage done and the effectiveness of control measures initiated by both the farmers and the Agricultural Department. It is however very difficult to assess the damage done by these two evils. The only way by which some idea as to the extent to which damage has been done is (if other factors are same) by comparing present yields of affected lots with past yields. But the problem is that 'other factors' keep on changing.

It is not the purpose of this chapter to assess the damage done by Dest and disease in the Blook, neither is it the purpose to show how yields have increased or decreased due to increase or reduction in past and disease. It is the aim of this chapter to command on some of the more common diseases and peats that were found inside the Block. Pests and disease will be dealt under separate headings.

Posto

Various types of pest plague padi plants year after year. These pest are birds, rats, animals, caterpillars, vorus and etc. In the Block, the two most common pests discovered were:-

- 1) Wat Batang
- 2) Rats

Ulat Batana

This past was found to have attacked the padi plants of nearly all the farmers. Rundred percentage of the farmers complained about its existence and the damage it had done.

From what the farmers said the 'ulat' was first discovered in the farm when Taiwan padi was introduced in Sawah Sempadan as a double crop. This was in 1962/63 period. Large areas of padi plants were devastated then. The total output of padi in the Block in 1962/63 was 49,220 gantangs that is an average of 224.73 gantangs per acre. The Agricultural Department moved in to tackle this pest. However it failed to completely eradicate the pest, though they managed to reduce the number. Thus, in

1963/64 period of cultivation the total cuput of padi inside the Block was 59,945 gantangs that is an improvement of 10,725 gantangs. This brought the average per acre output to 271.5 gantangs, an increase of 27.17 gantangs per acre as compared to the 1962/63

However, it is still to be proved as to whether yields increased because there was a reduction in the ulat or it was because of the renswal to single cropping and the use of familiar padi seeds that was instrumental in the increase in yields.

caterpillar 'which after hatching from eggs laid on the leaves borrow down inside the leaf-stalks of the paint where they feed about 15 days. The damaged stems either die or produce little or no crops, or empty 'white ears'.

'The stem borers multiply rapidly several generations occur each year and they can do considerable damage to the crop.'1

What centrol measures are there to combat this pest?

'No complete control measures have yet been evolved but spraying with insecticide as a dieldrum will lessen the attack considerably. These insecticides, unfortunately are toxic to fish in the padi fields as well. The problem of control in areas where padi-fields' fish are economically important is therefore complicated.'?

Rats

They 'constitute one of the most serious and widespread menace to rice production in Malaya.' However, only nine lots in the Block has complains about rats. It is considered that this information is not reliable because it is not possible that one lot should be plagued by rats while the adjoining one should have no such problems. It could be possible that the other owners may have overlooked this pest since they were more exsited to tell about the ulai batang to which they were new, rather than the age old pests like rats.

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²Ministry of Agriculture, Agricultural leaflet No. 42
Pederation of Malaya. Padi...... pg. 17

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Farms which complained about rate are given below:-

			-
1)	M 3	Lot No.	3367
3)	m	** 69	3378
3)	M5	83 pq	3389
4)	P78	** pv	3.382
5)	P59	94 89	3395
6)	P79	es și	3386
7)	M 5	ÿ† we	3366
8)	P6 0	74 94	3390
9)	P81	H 55	3390

Other Pests

Two owner-operators complained besides ulat batang about birds and worms destroying their crops. Again, it is contended that these pasts must have been common to the whole Block rather than be confined to two lots.

Diseases

Various types of diseases attack padi plants. Some of these re-occurring year in and year out, while others are more sporadic and localised in nature.

In the whole Block only one farmer (Let 3368) complained about disease in his farm. The disease was 'penyakit merah'. No other farmer said any words about its presence. The characteristic feature of penyakit merah is the 'stunning of the whole plant and decoloration and dying back of the outer leaves.'4 The cause as to this disease is not wholly ascertained but unfavourable soil has been the reason attributed to it. The use of correct fertiliser and water can to an extent help eradicate this disease.

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CHAPTER X

VIEWS REGARDING WATER-SUPPLY

the water level throughout the growing period, and high or low parts in the field where water is either too shallow or too deep can cause significant reduction in yield. Weed growth is suppressed by deep water while shallow water allows rapid regeneration of the water is deeper than this early tillering may be inhibited and if it is shallower weeds grow rapidly. I Thus, water control is very important for high productivity and what sould be a better method than the use of irrigation, whereby water centrol in and out of fields can be regulated by the farmer.

Samah Sempadan gets its water-supply from irrigation canals. These canals surround all the Blocks in the area and are a prominent feature of the place. The Samah Sempadan Irrigation scheme is a part of a much larger project - the Tanjong Karang Irrigation scheme which is approximately 500 square miles lying between the Bernam River and Selangor River.

However, we should not take it for granted that watersupply through irrigation is a satisfactory method of bringing water to the padi fields. From time to time it is important to find out to what extent, it does and to what extent it does not satisfy the farmers' needs.

In the questionnaire view regarding water-supply were asked. The question was in two parts.

- 1) Dealt with the timing of water
- 2) The amount of water.

The result of the interview are given in Table 10.1.
84.7% of the 65 farmers inside the Block expressed satisfaction with the water-supply. Those who were dissatisfied from 5.3% of the farmers. They came from 13 farms. Of these 13 farms

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TABLE 10.1
WATER-SUPPLY IN BLOCK

	Bo, of Faras	Percentage
Right time/Right amount	72	84.7
Right time/too much	6	
Right time/not enough	3	
Too late/not enough	ž	15.3
Too late/too much	1	
Too early/too much	1	
% tal	85	100.0

ten farms were three acres each in size and three farms were 1.5 acres each in size. It is interesting to note that the last group were emb-lot. Thus, they formed part of a lot. This is shown in Table 10.2. The only explanation that can be given for their water problem is that it could be that their counterparts (that is those farmers who own the other sub-lot) did not co-operate with them.

TABLE 10.2
WATER-SUPPLY IN BLUCK

	Let Bo.	Piece in Acres	Water Complains		
			Timing	Amount	
P 6	3343	1.5	Right	Too much	
P16	3403	1.5	Too late	Not enough	
P6 6	3409	1.5	net	Too much	

Thus, there was, as is shown in the Table either a delay in the arrival of water, or there was too such water in a sub-lot because the farmer in the adjoining sub-lot had refused to allow the water to flow into his sub-lot.

But when we look at the other affected lets we are confronted with a problem. How are we logically explain their water-problems? Table 10.3 shows the affected lots.

TABLE 10.3
FARMS HAVING WATER PROBLEMS

Ro.	Para No.	Lot Ho.	Area in Acres	Water Complains	
	76.2			Timing	Amount
1	73	3335	3	Too early	Too much
2	P15	3375	3	Right	Too such
3	P16	3379	3	Too late	Too much
4	ns	3391	3	Right	Too much
5	F30	3348	3	Right	Too much
6	P 59	3389	3	Right	Not enoug
7	P68	3338	3	Right	Not enoug
8	77 0	3346	3	Right	Not enoug
9	17 72	3354	3	Right	Not enoug
10	F78	3382	3	Right	Too much

The reason could be any one or more of the following:-

- 1) The location of water-locks.
- 2) Lack of co-operation between farmers.
- 3) The inefficiency of the farmer himself.
- 4) Other farmers too, have water problems, but they may have treated the question lightly and thus found the shortest way out by saying everything was all right.

Even the sloping nature of the Block does not help to explain anything.

One way of finding whether the complains of the farmers were genuine can be found in the quantity of padi produced in the respective lets and compare it with the other lots which did not have water problem, or we can compare the yields of the affected farm with those that they attained last year. Table 10.4 shows the yield for 1962/63 and 1963/64 of affected farms.

PART YIELDS IN AFFECTED PARKS

Porm No.	Lot No.		Yield in	1	963 Tields	
	AGTES		gantangs (1964)	More	Leas	Same
F3	3335	3	840		200	same
M 5	3375	3	750	•	200	-
M 16	3379	3	750	-	120	-
F18	3391	3	90 0	-	500	_
F30	3348	3	50 0	350	-	_
F59	3389	3	1,290	215	_	-
F 68	3338	3	1,500	-	_	1,50
F70	3346	3	540	•	unknown	-
F72	3354	3	50C	120	-	-
F78	3382	3	1,000	-	-	1,000

It is seen that yields in these lots are fairly high when compared with the average yield of 832.71 gantangs per lot for the whole Block.

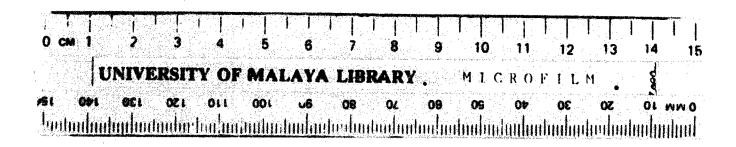
Three lots have attained 1,000 gantangs, this when compared with other lots in the Block that is those lots that docnot have water problems is a very high figure.

Thus on a comparison basis the output of affected lots are fairly high. Therefore, it is difficult to come to any conclusion as to whether the complains of the farmers were genuine,

or whother farmers were indifferent to the question. If we look at the last three columns of Table 10.4, we will notice that output was higher than last years for lots, same for two lots and less for five lots.

Obviously, we have to take into consideration other factors when explaining this water inadequacy could be a factor, but it is definitely not the only one.

Thus, in conclusion it can be summed that 84.7 farmers have no complain about the vater supply. Of the 5.3% that have grisvances, 37 of the farmers' problems can be explained but of the remaining we cannot say much because there is no one specific reason that can be pin-pointed to show where there was water problem in these lets.



CHAPTER XI

OTHER CROPS

110124

Hert to padi, maise is the most important cereal grown in Sawah Sempadam. Like in most parts of the country, it is grown as an off-season grow after the padi has been harvested and the fields have been left fallow far a month or two. In the survey conducted there was no specific question directed to this crop. The information collected came under the general item of what other crops were grown on the land in 1964.

Thus, no information was collected about the variety of the crop that was grown. Beither was the information regarding the acreage under cultivation nor the quantity that was harvested collected. Therefore, the information that will be presented here, will relate to findings uncovered through capital questions.

Before going further let us first see what percentage of the farmers cultivated this crop. See Table 11.1.

TABLE 11.1

PARKERS WHO CULTIVATE AND THOSE WHO DO NOT CULTIVATE NAIZE IN BLOCK

Farmers	No. Cultivating	No. not Cultivating	Total
Living on Land Living away	32 34	7	39 46
To tal	66	19	85
Percentage	78.57%	21.43%	100%

Since the land in Sawah Sempadan must be denoted only to rice, (this being the main crop) mains was grown only as an off-season crop. Out of the 85 farmers in the Block, 66 cultivated this crop (78.57%). The rest of the 21.43% did not grow this crop.

Of the farmers who lived on their farms in the Block, 32 out of 39 cultivated maise. Only selected not do so.

The percentage of these who lived away from the Block 73.9% oultivated this crop, the rest, 26.1% did not do so.

This figure of 26.1% when compared with the figure of 18% who lived on the Block and did not cultivate maise is quite significant. The reason for this could be due to the distance the farmers had to travel to reach their pieces in the Blocks or it could be due to the commitments of the farmers elsewhere.

One point is note-worthy here. That is that all the 19 tenant-operators (in Table 8.]B, Chapter VIII) grow maise as an off-season crop. This specifically shows, that they need for additional means of livelihood to maintain themselves.

The cultivation of maise take quite a lit of the farmers time since 'at least two cultivation rounds are required the time for them depends on the intensity of weed growth and soil conditions. The first operation should be third weeks after sowing followed by second third or fourth weeks later.'! Further as the plant 'produce adventitious roots the surface soil between the rows must be drawn up towards the plant in the form of a ridge.'? though however the ridging can be achieved in the course of cultivation Further when the crops come out the peats have to be checked. This requires some attention. Thus, it is possible that farmers bring away from the lots or sub-lots in the Block cannot afford the time because of commitment in their kampong lands. This is more so if these farmers are holders.

The area planted with maise is usually less than half an acre. It is quite obvious the maise has something to do with a large majority of the farmers and that it is part of their diets since maise was not grown as a cash crop.

It was noted that most of the farmers who lived on their lots and sub-lots in the Block and cultivated maise also has fruit trees like eccount, bananas and keladi plants around their houses. But there were also instances when non-maise grower living in the Block also planted bananas and coconuts around their houses. The eccount and banana trees that were planted around the houses in the Block, were weathy between the figures of five to six plants each per lot.

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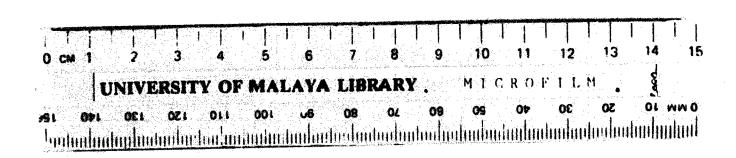
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The reason why these plants were preferred because of the ease with which they could be grown, (labour required was insignificant) the shade that they provided and the fruits of these plants served as useful delicacies for the 'maken' table.

Pineapples and Sugar Cane

Only two farmers planted pineapples around his house and surprisingly enough sugar came was planted by only one farmer.

Thus, in conclusion it can be said that besides rice, the next most largely grown crop was maise. Coconut and banana trees being very popular around the houses. Sugar-cane, pineapples, papaya, mangees, and keladi were also found growing here and there in the Block. But there cannot be taken seriously because only four to five farmers have either of these trees in their lots or sub-lots.



CHAPTER III

GENERAL OBSERVATIONS, COMMENTS AND SUGGESTIONS

The purpose of this chapter is manifold, the most fundamental of which is the inclusion of tropics that could not be included in the other chapters. This will enable the reader to get a much more concise picture of Sawah Sempadan. These tropics are general observation made of Sawah Sempadan and the Block during the survey, comments of various things of interest and suggestions that would help faciliate the work of future students going to the area.

Sarah Sempadan has a good system of communication. Thus, making it easy to travel from one place to another, whether this is inside the Block or from one Block to enother. two main types of roads in Sawah Sempadan. 1) Those that are of laterite and 2) those that are not. These latter roads or lunes have either been constructed by the people themselves living in the area or have been laid out by the Public Work Department, but have as get mot been given a coating of laterite. while the laterite roads are accessible by heavy vehicles like lorries and jeeps, the same cannot be said of the other group. Here, it depends on the road. Some of these can accompdate the heavier vehicles while others good only for bicycles. But one thing that is common to both set of roads is that the bicycle is accompodating to both of them. This fact is wary clear from the large number of bicycles that are seen to be in use in Savah Sempadan. The bicycle is cheap and has many uses to the farmer. The farmer can transport his harvest on his bieyele, he can travel to and from the local shops or the town at Tanjong Karang. It enables him to save much time. Furthermore, a bicycle is easily portable. Thus, in places where the roads is full of holes or where a drain has been dug which hinder; the short-out the farmer could have taken to save him much time and energy, the bicycle can easily be carried. Hany more such uses of the bicycle can be thought of. It is because of this important of this bicycle to the farmer and his family, that it is quite common for him to have at least one if not two bicycles. This was the case in Savah Sempadan.

Hearly all the farmers in Sawah Sempadan sell their padi to the Go-operative Society that eaters for their need. The farmers do not have to transport their padi all the way to Society's rice-mill because the farmers can deposit their padi at various convenient collecting places. These places enable the farmer to ong distances. There are many synh collecting places is set-up in various Blocks. One of these is near the western end of Block of just across the laterite road. This collecting place is in a local retail shop that is situated there. From here the padi is taken away by lerries to the Co-operative Society Milling Centre at Tanjong Karang. The major part of the affairs of the Co-operative Society are handled by Government officials since it is set up by the Government as a measure to combet the activities of the middleman and give the farmer maximum benefits for his labour.

The houses of the farmers in the various lots are built closer towards the road than further inside the lot. The road itself could be a factor which is the main determinant of this. It would be to the advantage of the farmer to have his house near to the road rather than at the other end of the lot further away from the road and later have the problem of travelling some distance before reaching the road.

Some of these houses have flower plants planted in their compounds while other do not have them. It is normally the houses that are better built and more lasting that have these plants. The presence of these flowers could be an indication of the standard of living of the farmer. It could be that there are ladies in the house interested in the flowers. Maybe the incentive to plant flowers is greater if the house is an impressive one. Sophistication could be the reason. We do not know. But of one thing we are certain and that is it is rare to find flowers around houses that are poorly built and would not last very long.

Sawah Sempadan has its abundance of local retail shops which eater for the needs of the farmers. There were two such shops on the outskirts of Block O. One was to the East in Block P, close to Block O. The other was to the west of the Block near the road junction of Blocks O and P - this is where the co-operative padi collecting centre was located. There was another retail shop being built at the time of the survey in Block J opposite to the one in Block B. Besides this, the farmer of Block O had the weekly sundry market that was held at Tanjong Karang catering for stheir needs.

There is no pipe-water in Sawah Sempadan. This has to be got either from the samals that abound the Blocks or from well dug near the houses. There is only one public tap and this too, is not in Sawah Sempadan but at Batu Tujoh near the main road. Besides, water-supply none of the houses in Sawah Sempadan have electricity. The people use either oil or gas lamps.

For the education of the children of the residents of Sawah Sempadan, there are three schools.

¹⁾ In Sungai Tinggi Kaman, near the western end of Block N and O.

- 2) In Block K, closer to Block J than Q.
- 3) In Block P, closer to Block S than Block O.

While the former two schools are more permanent in structure, the latter is not. While the former two are of the primary national type, with medium of instructions in Malay, the latter is a religious school

Block 0 is surrounded by coconut trees only the western side. The Bast, North and South are all sawah lands. These consist of Blocks H, J, K, P and V. This can be seen in the diagram of Sawah Sempadam given at the beginning of this thesis. Here are also shown the roads around the Block that are accessible by either heavy or light one like the bicycle and scooter.

There are no Malays living in Block 0. Most of them are people from Indonesia. They may be either of the first or second generation. All of them are Muslims. There is one mosque in Lot 3351, but it is no longer now in use.

There is a complete absence of poultry farms in the Block. Here of the farmers reared any chickenfor ducks on a large scale for the purpose of cash. The farmers also did not rear any animals like goats or cattle on a large scale. The absence of poultry farms and animal rearing it is felt, is not only a feature of Block O but is something which is common to the whole of Samah Sempadan. The few chicken, ducks and animals that are left are mostly for home consumption or for feasts.

By way of comparison with the padi lands of Kedah, it was found that there are certain differences in the unit of land measurement and unit used for measuring padi in Sawah Sempadan. While the agre was used as a criteria of measurement of farm or ownership of holding by the farmers in Sawah Sempadan, in Kedah it is the relong that is in use. Two types of relongs are used:

1) Small relong and 2) large relong while the small relong is 0.77 an agre, the large relong is about an agre. This large relong is semmon only south of Gunong Jerai. In the north the small relong is used. However, in the Land Office Records of Kedah, it is only the small relong that is used.

The farmers of Sawah Sempadan measure their padi output in rather crude manner. They use keroseme time and sacks. They had little knowledge as to how much padi a gantang could contain. Host of the farmers made the mistake of saying that one keroseme time could contain 566 gantangs of padi. This is wrong. Only four gantangs can be put in one keroseme time. In Kedah, the method of much more cophisticated and efficient. The farmers use the 'Kuncha' and 'naleh'. These farmers are well versed in the gantang equivalent of the kuncha and naleh.

It is surprising to note that the plough and buffaloes are not used in Sawah Sempadan. The farmers here only use the

'tajak' and 'changkul' for ploughing. However, in both these places, the tractor is being introduced. In Savah Sempadan there were a few small 'Toyota' tractors being put to use at the time of the survey.

Furthermore, besides the use of fertilizer in Lot 3344 (this being an Agriculture Department test plot) none of the farmers in the Block used fertilizer of any kind. This is contrary to the situation in Kedah where nearly every farmer uses some fertilizer of some sort.

Comment on Schedule III: Approved Application of Land (Land Rule 5)

We shall deal with these conditions one by one.

Condition 1

It must be seen from two points of view.

- (1) Dejure
- (2) Defacto

If we were to shock up the Land Office Records at Kuala Selangor it would be evident that there has been no violation of this condition. This is because the law says:-

- (1) There can be no subdivision.
- (2) That the Kampong lot and the Bendang cannot be held by separate entries in the Mukim Register.

However, defacto this is not the case. In Chapter V on co-ownership we saw that fourteen lots inside the Block were subdivided into two or more sub-lots. This was because of either joint purchase, sale of a sub-lot or due to inheritance on the death of the owner.

Thus, though legally Section 50 or Section 101 of the land code are still in tact, defacto, that is not so.

He one owner can have ownership of either a Kampong lot or a Bendang Lot without a single entry in the Mukim Register. Both these lots must have only one entry. This is the second part of Condition One.

However, defacto, onwers have sold away either the Kampong lots or Bendang lots or they may have subdivided them amongst their children; it is even possible that these lots may have been sold in sub-lots until the whole lots were sold away.

Condition 2

This is about the only condition that has been fulfilled by the owner of the lets. So rubber trees are seen growing in either the Kampong or Bandang lots.

Condition 3

In 3(i) the Bendang land is 'to be solely used for the oultivation of wet rice'. There is no mention of site for building here. In condition 3(ii) it is seen that provision for the building of one or more homes is granted in the Bendang lot. Thus, it is implied that buildings can only be erected in the Kampang and more can be set up in the Bendang lot.

Eowever, since there is no specific mentioning that houses cannot be built in the Bendang lot, it can be assumed that there has been no violation of the condition. But if this is so, than 41 residents stand guilty of residing on the Bendang lots.

Condition 4. 5 and 6

These are all connected to one another. Then gist is as follows:-

Any person wanting to lease or transfer his lot must treat both the lets as one single piece and all lease or transferrie only possible with the consent of the Ruler in Council.

It is yet be discovered how many owners have had applied for the fulfillment of this condition. But from the way the lots have been subdivided, sold or purchased, it is evident that even this condition has not been abided by.

Suggestions

- 1) That a visit be made to the Land Office and the names of the owners of the lets he got from there first, instead of the going straight away into the Block and having the problem of finding out who the owners are. This would save much time and would also be to the convenience of the interviewer.
- 2) That it is made certain that the meanings of the terms used in the questionnaire are well understood by the interviewer.
- 3) That interviewer be given some working knowledge of their respective Blocks. This can be derived by way of reading the exercises of former students who have already worked there.

4) Much criticisms can be levelled at the questionnaire used during the survey (Appendix A) Movever, this defect has been overcome by wording of a new questionnaire which is also attached (Appendix B). It would be therefore much more to our credit of Appendix B and not A is used in latter surveys of this nature.

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APPENDIA I

SAWAH SEMPADAN

BLOCK 0

3331	3332	3333	3334
3335	3336 0 X	3337	3338 • • • • • • • • • • • • • • • • • •
3339	3340 0 X	1 3341	3342
3343	3344 * Q .	3345	3346
3347	3348	3349 O X	3350
3351	3352 * • o	3353 o x	3354
3355	3356	3357	3358
3359	3360	3361	3362
3363	3364 • 0	3365 o x	3366 • 0
3367	3368	3369	3370
3371	3372	3373 o x	3374
3375	3376	33770	3378 o x
3379	3380	3381	3382
3383	3384 O. X.	3385	3386
3387 o x	3388 o x	3389	3390
3391	3392	3393	3394
3395	3396 o x	3397	3398
3399 o	3400 o	3401 0	3402 0
3403 * 0	3404 o x	3405 o	3406
34 07	3408	3409 	3410
3411	3412 0	3413 o x	3414
3415	3416 o x	3417 ox	0
34 18	3419		Koy

Mosque Majlis Ugama dan Is Selamgor

Cultivated

Dwelling

Unsurveyed

LOTS SURVEYED AND UNSURVEYED

Lots	Gultivated (89)	Uncultivated	Total (89)
ith Dwellings	43		43
ithout Dwellings	46	-	46
Total			89
o Information			16
Surveyed Lots			73

MAP I FOR HOLDINGS

SAWAH SEMPADAN

BLOCK O

Section A	Section B	Section C	Section D
3331 m m	3332	3333 B43	3334 —
3335 B)	3336	3337	3338 867
3339	3340 H28	3341	3342 #68
3343	3344 86	3345	3346
3347	3348 E29	3349	3350 H70
3351	3352, 130	3353 B46 B47	3354 E71
3355 H10 P1 3		3357 R48	3358 H72 H73
3359 m1 m	35.65	3361 H49 H50 H5 1	3362 H74
3363 m3	3364 #33	3365	3366 H75
3367	3368 H34 H35	3369 #52	3370 H76
3371 m 5	3372 R36	3373 153	_3374
3375 m6	3376 #37	3377 R54 B55	3378 H77
3379 m7	3380 #38	3381 356	3382 H78
3383 H18	3384	3385 H57	3386 179
3387	3388-	3389 H58	3390 E80
3391 III.9	3392 R39	3393 н59 н60	3394 181
3395 H20	3396	3397 E61 E62	1
3399 H21 H22	3400 B40	3401 R63	3402 182
3403 H23	3404	3405 H64	3406 #83
3407 H24	3408 H41	3409 R65 R66	3410
3411 H25	3412 B25	3413	3414 H84
3415 H26	3416	3417	
3418 #37	3419 H42		Koy

No information available

MAP II FOR FARMS

SAWAH SEMPADAN BLOCK O

		and the second		
3331 m m	3332	3333 P44	3334	
3335	3336	3337 245	3338	P68
3339 34	3340 P28	3341 F46	3342	P 69
3343 P5 P6	3344 7 29	3345	3346	F 70
3347 P7 P3	3348 730	3349	3350	F71
3351 18 1	3352 F31	3353 P47 P48	3354	F7 2
3355 F9	3356 F32	3357 P49	3358	P7 3
3359 F10 F11	-3360 P33	3361 P50 P51	3362	F74
3363	3364 F34	3365	3366	F7 5
3367 P.3	3368 235 236	3369 552	3370	P 76
3371 /14	3372 P37	3373 753	3374 —	
3375 M5	3376 P38	3377 F54 F55	3378	F77
3379 716	3380 F39	3381 756	3382	F 78
3383 717	3384	3385 P57 F58	3386	F 79
3387	3388	3389 P59	3390 780	F 81
3391 718	3392 F40	3393 F60 F61	3394	F8 2
33 95 P19	3396	3397 F62 F63	3398	F34
3399 F20 F21	3400 F41	3401 F64	3402	F83
3403 F22 F16	3404	3405 P65	3406	F84
3407 F23 F24	3408 F42	3409 F66 F67	3410	
3411 F25	3412 F25	3413	3414	F85
34 15 F26 34 18 F27	3416 F43	3417		

No information available

PRAGRESS AT 108 OF HOLDINGS: INSIDE BLOCK OUTSIDE BLOCK

2	## 2049 1.5 Stock # 2.0 4.5 ## 2049 3351 3.0 Sungai Strek ## 2040 3.0 S. T. K. ## 204	la.	Relding No.	Let in Bleek	Area (asres)	Let Outstée Black	Area (acres)	Total Arm (acres)
3	He	1.	#5	3349	1.5	Block J	3.0	4.5
4 H13 2363 3.0 S. T. H. A.0 7.0 5 H14 3367 3.0 S. T. K. 2.0 0.0 6 H15 2371 3.0 Bestu 6 5.0 0.0 7 H19 3869 3.0 S. T. K. 5.0 0.0 8 H20 2285 3.0 S. T. K. 1.0 4.0 9 H23 3463 3.0 S. T. K. 1.0 4.1 10 H24 3467 3.0 S. T. K. 1.0 4.1 11 H25 3411 6.0 S. T. K. 2.5 5.1 11 H25 3411 6.0 S. T. K. 1.0 4.0 12 H31 3296 3.0 S. T. K. 1.0 4.0 12 H33 3296 1.5 S. T. K. 1.5 3.1 13 H33 3296 1.5 S. T. K. 1.5 3.1 <	### 2367 3.0 S. T. H.	2	NA .	2347	1.5	Block #	3.0	4.5
5 H14 2367 3.0 S. T. K. 2.0 8.1 6 H15 2371 3.0 8atu 8 5.0 8.1 7 H19 2891 2.0 S. T. K. 5.0 9.1 8 H20 2365 2.0 S. T. K. 1.0 4.1 9 H23 3469 3.0 S. T. K. 1.0 4.1 10 H24 3407 3.0 S. T. K. 2.5 5.1 11 H25 3413 4.0 S. T. K. 2.5 5.1 12 H33 2396 3.0 S. T. K. 1.0 4.2 13 H33 2396 3.0 S. T. K. 1.0 4.2 13 H33 2396 3.0 S. T. K. 1.5 3. 14 H24 2398 1.5 S. T. K. 1.5 3. 15 H25 2398 1.5 S. T. K. 1.0 9 16 H26 2372 3.0 S. T. K. 1.0 9 <t< td=""><td>#14 3367 3.0 S. T. K. 2.0 0.0 #15 3271 3.0 Retu 6 5.0 4.6 #19 3261 3.0 S. T. K. 5.0 9.0 #22 3468 3.0 S. T. K. 1.0 4.0 #23 3467 3.0 S. T. K. 1.0 4.0 #24 3467 3.0 S. T. K. 2.5 5.5 #25 3411 3266 3.0 S. T. K. 7.5 13.5 #25 3411 3266 3.0 S. T. K. 7.5 13.5 #31 3266 3.0 S. T. K. 1.0 4.0 #32 3360 6.0 Sengal Sereh 2.0 13.0 #33 3360 6.0 Sengal Sereh 2.0 13.0 #34 3366 1.5 S. T. K. 1.5 3.0 #35 3360 1.5 S. T. K. 1.5 3.0 #36 3272 3.0 S. T. K. 1.5 3.0 #37 3380 1.5 S. T. K. 1.5 3.0 #41 3400 3.0 S. T. K. 1.0 5.0 #42 3372 3.0 S. T. K. 1.0 5.0 #43 3468 3.0 S. T. K. 1.0 6.0 #44 3468 3.0 S. T. K. 1.0 6.0 #45 3272 3.0 S. T. K. 1.0 9.6 #46 3287 1.5 Retu 7 2.5 4.0 #47 3385 3.0 S. T. K. 5.0 6.0 #48 3287 3.0 S. T. K. 5.0 6.0 #48 3288 1.5 S. T. K. 5.0 6.0 #48 3289 1.5 S. T. K. 5.0 6.5 #48 3289 1.5 S. T. K. 5.0 6.5</td><td>3</td><td>1</td><td>3351</td><td>3.0</td><td>Sunget Streh</td><td>1.0</td><td>4.8</td></t<>	#14 3367 3.0 S. T. K. 2.0 0.0 #15 3271 3.0 Retu 6 5.0 4.6 #19 3261 3.0 S. T. K. 5.0 9.0 #22 3468 3.0 S. T. K. 1.0 4.0 #23 3467 3.0 S. T. K. 1.0 4.0 #24 3467 3.0 S. T. K. 2.5 5.5 #25 3411 3266 3.0 S. T. K. 7.5 13.5 #25 3411 3266 3.0 S. T. K. 7.5 13.5 #31 3266 3.0 S. T. K. 1.0 4.0 #32 3360 6.0 Sengal Sereh 2.0 13.0 #33 3360 6.0 Sengal Sereh 2.0 13.0 #34 3366 1.5 S. T. K. 1.5 3.0 #35 3360 1.5 S. T. K. 1.5 3.0 #36 3272 3.0 S. T. K. 1.5 3.0 #37 3380 1.5 S. T. K. 1.5 3.0 #41 3400 3.0 S. T. K. 1.0 5.0 #42 3372 3.0 S. T. K. 1.0 5.0 #43 3468 3.0 S. T. K. 1.0 6.0 #44 3468 3.0 S. T. K. 1.0 6.0 #45 3272 3.0 S. T. K. 1.0 9.6 #46 3287 1.5 Retu 7 2.5 4.0 #47 3385 3.0 S. T. K. 5.0 6.0 #48 3287 3.0 S. T. K. 5.0 6.0 #48 3288 1.5 S. T. K. 5.0 6.0 #48 3289 1.5 S. T. K. 5.0 6.5	3	1	3351	3.0	Sunget Streh	1.0	4.8
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8 829 3285 3.8 S. T. K. 1.0 4.1 8 8 823 3465 3.8 S. T. K. 1.0 4.1 8 8 825 3467 3.8 S. T. K. 2.5 S. 11 825 3481 3.9 S. T. K. 2.5 S. 11 825 3482 3.9 S. T. K. 1.0 4.1 3482 3286 3.9 S. T. K. 1.0 4.1 3286 3.9 S. T. K. 1.0 4.1 3286 3.9 S. T. K. 1.0 4.1 3286 3.9 S. T. K. 1.5 3.1 3286 3.9 S. T. K. 1.5 3.1 3.1 833 3286 1.5 S. T. K. 1.5 3.1 3.1 834 3286 1.5 S. T. K. 1.5 3.1 3.1 835 3288 1.5 S. T. K. 1.5 3.1 3.1 836 1.5 S. T. K. 1.5 3.1 3.1 836 1.5 S. T. K. 1.5 3.1 3.1 836 1.5 S. T. K. 1.0 5.1 886 8 5.0 8 866 8 5.0	### ### ### ### ### ### ### ### ### ##	6	H15	2371	3.0	Satu 8	5.0	9.0
9 H23 3469 3.0 S. T. K. 5.0 8.1 19 H25 3417 3.0 S. T. K. 2.5 5.1 11 H25 3417 4.9 S. T. K. 7.5 13. 12 H27 3306 3.0 S. T. K. 1.0 4. 1306 3308 1.5 S. T. K. 1.5 3. 140 15 15 H26 3272 3.0 S. T. K. 1.5 3. 1.0 15 H26 3272 3.0 S. T. K. 1.0 10 10 10 10 10 10 10 10 10 10 10 10 10	H23 3468 3.0 S. T. K. 2.5 5.5 H25 347 3.0 S. T. K. 2.5 5.5 H25 347 3.0 S. T. K. 7.5 13.5 H25 347 3.0 S. T. K. 7.5 13.5 H27 3286 3.0 S. T. K. 1.0 4.9 H28 3296 1.5 S. T. K. 1.5 3.0 H28 3292 3.0 S. T. K. 1.5 3.0 H28 3292 3.0 S. T. K. 1.5 3.0 H28 3292 3.0 S. T. K. 1.0 5.0 H41 3408 3.0 S. T. K. 1.0 9.0 H41 3293 3.0 S. T. K. 3.0 9.5 H40 3293 3.0 S. T. K. 3.0 6.0 H41 3293 3293 3.0 S. T. K. 3.0 6.0 H41 3293 3293 3.0 S. T. K. 3.0 6.0 H41 3293 3293 3.0 S. T. K. 3.0 6.0 3298 1.5 S. T. K. 3.0 8.0 H42 3293 3293 3.0 S. T. K. 3.0 6.5 S. T. K. 3.0 8.6 H42 3293 3293 3.0 S. T. K. 3.0 6.5 S. T. K. 3.0 8.6 H42 3293 3293 3.0 S. T. K. 3.0 8.6 H42 3293 3293 3.0 S. T. K. 3.0 8.6 S. T. K. 3.0	7	eta	39 1	3.0			9.0
10	NEA 3467 3.0 S. T. K. 2.5 5.5 NESS 3471 6.9 S. T. K. 7.5 13.5 NESS 3286 3.0 S. T. K. 1.0 4.0 NESS 3386 6.0 Sungat Sarah 2.0 13.0 NESS 3388 1.5 S. T. K. 1.5 3.0 NESS 3282 3.0 S. T. K. 1.5 3.0 NESS 3272 3.0 S. T. K. 1.0 NESS 3277 1.5 Sutu 8 2.5 4.0 NESS 3277 1.5 Sutu 8 2.5 4.0 NESS 3281 3.0 S. T. K. 5.0 6.0 NESS 3282 3.0 S. T. K. 5.0 4.0 NESS 3283 3.0 S. T. K. 5.0 4.0 NESS 3283 3.0 S. T. K. 5.0 4.0 NESS 3283 3.0 S. T. K. 5.0 6.5 NESS 3287 1.5 Shack H NESS 3287 1.5 Shack H NESS 3287 1.5 Shack H NESS 3287 1.5 S. T. K. 3.0 NESS 3287 1.5 S. T. K. 3.0 NESS 3287 1.5 S. T. K. 3.0 S. T. K. 3.0 S. T. K. 3.0 NESS 3287 1.5 S. T. K. 3.0 S. T. K. 3.0 S. T. K. 3.0 NESS 3287 1.5 S. T. K. 3.0 S. T. K. 3.0 S. T. K. 3.0 NESS 3287 1.5 S. T. K. 3.0 S. T. K. 3.0 NESS 3287 3.0 S. T. K. 3.0 NESS 3287 3.0 S. T. K. 3.0 NESS 3287 3.0 S. T. K. 3.0 NESS 3287 3.0 S. T. K. 3.0 NESS 3287 3.0 S. T. K. 3.0 NESS 3287 3.0 S. T. K. 3.0 NESS 3287 3.0 S. T. K. 3.0 NESS 3287 3.0 S. T. K. 3.0 NESS 3287 3.0 S. T. K. 3.0 NESS 3287 3.0 S. T. K. 3.0 NESS 3287 3.0 S. T. K. 3.0 NESS 3287 3.0 S. T. K. 3.0 NESS 3287 3.0 S. T.	8	HAD.	1195	3.8	S. T. K.	1.0	4.0
11 H25 342 8.0 S. T. K. 7.5 13. 12 H21 3256 3.0 S. T. K. 1.0 A. 13 H23 3266 8.0 Sengal Sereh 2.0 13. 14 H24 3266 1.5 S. T. K. 1.5 3. 15 H25 3268 1.5 S. T. K. 1.5 3. 16 H26 2272 3.0 S. T. K. 1.0 S. 17 H41 3408 3.0 S. T. K. 1.0 S. 18 H47 3258 1.5 Black P 3.0 S. T. K. 19 H55 3277 1.5 Setu 8 2.5 4. 20 H55 3277 1.5 Setu 8 2.5 4. 21 H56 2281 3.0 S. T. K. 5.0 S. 22 H57 3285 3.0 S. T. K. 5.0 S. 23 H56 3281 3.0 S. T. K. 5.0 S. 24 H60 2388 1.5 S. T. K. 3.0 S. T. K.	H25 348 6.8 S. T. H. 7.5 13.5 H31 3256 3.0 S. T. H. 1.0 4.8 H32 3366 6.0 Sungat Sarah 2.0 13.0 H34 3365 1.5 S. T. H. 1.5 3.0 H35 3368 1.5 S. T. H. 1.5 3.0 H36 3272 3.0 S. T. H. 1.0 Batu 8 5.0 H41 3408 3.0 S. T. H. 1.0 9.0 H41 3408 3.0 S. T. H. 1.0 9.0 H44 3408 3.0 S. T. H. 1.0 9.0 H45 7277 1.5 Batu 8 2.5 4.0 H56 3381 3.8 Batu 9 3.0 6.0 H57 3385 3.0 S. T. H. 5.0 6.0 H58 3381 3.8 Batu 9 3.0 6.0 H59 3383 1.5 S. T. H. 1.0 2.5 H50 3398 1.5 S. T. H. 3.0 6.0 H51 2397 1.5 Block H (22926) 2.0 6.5 K62 2387 1.5 S. T. H. 3.0 6.5	8	1023	3403	3.9	S. 1. K.	5.0	8.0
12	13 3356 3.0 S. T. K. 1.0 4.0 133 3364 6.0 Sungel Serch 2.0 13.0 134 3368 1.5 S. T. K. 1.5 3.0 135 3368 1.5 S. T. K. 1.5 3.0 136 3372 3.0 S. T. K. 1.0 10 - 1.0 5.0 141 3468 3.0 S. T. K. 1.0 141 3468 3.0 S. T. K. 1.0 150 9.5 151 9.6 9.5 152 9.5 9.5 153 9.5 9.5 154 7477 1.5 9.6 9.5 155 3377 1.5 9.6 9.5 156 3381 3.0 8.0 9.0 157 3365 3.0 S. T. K. 5.0 9.0 158 3388 3.0 S. T. K. 5.0 9.0 159 3365 3.0 S. T. K. 3.0 8.0 150 3368 1.5 S. T. K. 3.0 8.0 151 3367 1.5 916d 8 152 3367 1.5 916d 8 153 3368 3.0 S. T. K. 3.0 154 3367 3.5 S. T. K. 3.0 155 3367 3.5 S. T. K. 3.0 156 3368 3.0 S. T. K. 3.0 157 3367 3.5 S. T. K. 3.0 158 3368 3.0 S. T. K. 3.0 158 3368 3.0 S. T. K. 3.0 159 3461 3.0 S. T. K. 3.0 150 3461 3461 3461 3461 3461 3461 150 3461	ìo	MIA	3407	2.0	S. T. K.	2.5	5.5
13	133 3364 3366 3461 3.6 3267 3.6 3.6 3.6 3268 1.5 5.7. K. 1.5 3.6 3.6 3272 3.0 5.7. K. 1.0 3.0 3.0 3.0 5.7. K. 1.0 3.0 3.0 3.0 5.7. K. 1.0 3.0	11	H25		6.0	s. 1. K.	7.5	13.5
1396 1.5 5.0 1.5 3.1 1.5 3.1 1.5 3.1 1.5 3.2 1.5 3.2 3.0 5.1 1.5 3.2 3.0 5.1 1.5 3.2 3.0 5.1 1.0 5.1 1.0 5.1 1.0 5.1 1.0 1.0 1.0 5.1 1.0	134 3386 1.5 S. T. H. 1.5 3.6 135 3388 1.5 S. T. K. 1.5 3.6 136 3272 3.0 S. T. K. 1.0 1.8 S. B 1.8 S. B 1.9 S. B	12	101	3356	3.0	5. T. K.	1.0	4.0
15 H25 2368 1.5 S. T. K. 1.5 3. 16 H26 2272 3.0 S. T. K. 1.0 S. T. T. K. 1.0 S. T. T. K. 1.0 S.	H25	73	133		6.0			
15	H86 2372 3.0 S. T. K. 1.0 5.0 H41 3408 3.0 S. T. K. 1.0 9.0 Sets 8 5.0 H47 3358 1.5 Black P 3.0 9.5 H55 3277 1.5 Bets 8 2.5 4.0 H55 3381 3.0 Bets 9 3.0 6.0 H57 3388 3.0 S. T. K. 5.0 8.0 H60 3388 1.5 S. T. K. 1.0 2.5 H60 3397 1.5 Black H (22926) 2.0 6.5 S. T. K. 3.0 8.0 S. T. K. 3.0 8.0 H61 3397 1.5 Black H (22926) 2.0 6.5 S. T. K. 3.0 8.0 S. T. K. 3.0 S. T. T. K. 3.0 S. T. T. K. 3.0 S. T. T	14	1134	2306	1.5	S. T. K.	1.5	1
17 H41 3408 3.0 S. T. K. 1.0 g Bets 8 5.0 18 H54 7.577 1.5 Bats 8 2.5 20 H55 3377 1.5 Bats 7 2.5 21 H56 3381 3.0 Bats 9 3.0 22 H57 3388 3.0 S. T. K. 5.0 23 H58 3388 3.0 S. T. K. 1.0 24 H60 3388 1.5 S. T. K. 1.0 25 H61 3387 1.5 Block H (32928) 2.0 S. T. K. 3.0 S. T. K. 3.0 S. T. K. 3.0	H41 3408 3.0 5. T. K. 1.0 9.0 9.5 H47 3358 1.5 Black P 2.0 9.5 H54 2.5 4.0 H55 3377 1.5 Batu 8 2.5 4.0 H56 2381 1.0 Batu 9 3.0 6.0 H57 3385 2.0 5. T. K. 5.0 8.0 H61 2387 1.5 S. F. K. 1.0 2.5 H61 2387 1.5 S. F. K. 3.0 6.5 S. T. K. 3.0 8.0 S. T. K. 3.0 S. T. K. 3.	15	125	2368	1.5	S. T. K.	1.5	3.6
17 H41 3400 3.0 S. T. K. 1.0 9 18 H47 3358 1.5 Block P 3.0 9 19 H55 7.677 1.5 Betu 8 2.5 4 20 H55 3377 1.5 Betu 7 2.5 21 H56 3381 3.0 Betu 9 3.0 6 22 H57 3385 3.0 S. T. K. 5.0 6 23 H50 3398 3.0 S. T. K. 1.0 6 24 H60 3388 1.5 S. T. K. 1.0 6 25 H61 3397 1.5 Block H (32926) 2.0 S. T. K. 3.0	H41 3408 3.0 5. T. K. 1.0 9.9 H47 3358 1.5 Black P 3.0 9.5 H54 7.577 1.5 Satu 8 2.5 4.0 H55 3377 1.5 Satu 8 2.5 4.0 H56 3381 3.0 Satu 9 3.0 6.0 H57 3385 3.0 S. T. K. 5.0 8.0 H58 3388 1.5 S. T. K. 1.0 2.5 H60 3388 1.5 S. T. K. 1.0 2.5 H61 3397 1.5 Slack H (32926) 2.0 6.5 S. T. K. 3.0 H62 3387 1.5 S. T. K. 3.0 H63 3401 3.0 S. T. K. 5.0 8.0	16	126	2172	3.0	S. T. K.	1.0	5.0
18 H47 3358 1.5 Black P 3.8 9 9 15 5.8 15 15 8 16 15 5.8 9 15 15 8 16 15 5.8 9 15 15 8 16 15 15 15 8 16 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	HA7 3358 1.5 Block P Bobs 5 3.8 9.5 H54 7.577 1.5 Date 8 2.5 4.0 H55 3377 1.5 Date 9 2.5 4.0 H56 2381 3.0 Bate 9 3.0 6.0 H57 3385 3.0 S. T. K. 5.0 6.0 H58 3280 3.0 S. T. K. 1.0 4.0 H69 3388 1.5 S. T. K. 1.0 2.5 H61 2397 1.5 Block H (32920) 2.0 6.5 S. T. K. 3.0 S. T. K. 2.5 4.0 H63 3401 3.0 S. T. K. 9.0 8.0					•	1.0	344
18 H47 3353 1.5 Black P Bets 5 3.6 18 H56 7.677 1.5 Bets 8 2.5 4 20 H55 3377 1.5 Bets 7 2.5 4 21 H56 3381 3.0 Bats 9 3.0 6 22 H57 3385 3.0 S. T. K. 5.0 6 23 H58 3388 1.5 S. T. K. 1.0 8 24 H60 3388 1.5 S. T. K. 1.0 8 25 H61 2387 1.5 8lock H (32926) 2.0 26 H62 2387 1.5 S. T. K. 2.5	NAT 3353 1.5 Black P Bets 5 3.8 5.8 9.5 NSA 7277 1.5 Bets 8 2.5 4.0 NSS 3377 1.5 Bets 7 2.5 4.0 NSS 3301 3.0 Bats 9 3.0 6.0 NSS 3305 3.0 S. I. H. 5.0 8.0 NSS 3308 3.0 S. I. H. 1.0 4.0 NGS 3307 1.5 Block H (32926) 2.0 6.5 NGS 3401 3.0 S. I. H. 3.0 6.5 NGS 3401 3.0 S. I. H. 9.0 8.0	17	841	3408	3.0	5. T. K.	1.0	9.0
18	HSA 7.577 1.5 Batu 8 2.5 4.0 HSS 3377 1.5 Batu 7 2.5 4.0 HSS 3381 3.0 Batu 9 3.0 6.0 HSS 3385 3.0 S. T. H. 5.0 8.0 HSS 3288 3.0 S. T. H. 1.0 4.8 HSS 3388 1.5 S. T. H. 1.0 2.5 HSS 3387 1.5 S. T. H. 3.0 HSS 3387 3.0 S. T. H. 3.0 HSS 3387 3.0 S. T. H. 3.0					Bets 8	5.0	
29	H55 3377 1.5 Betu 7 2.5 4.0 H56 3381 3.8 Butu 9 3.0 6.0 H57 3385 3.0 S. T. H. 5.0 8.0 H58 3388 3.0 S. T. H. 1.0 4.0 H69 3387 1.5 S. T. H. 1.0 2.5 H61 3387 1.5 Black H (32926) 2.0 6.5 S. T. H. 3.0 H69 3491 3.0 S. T. H. 3.0 H69 3491 3.0 S. T. H. 3.0 H69 3491 3.0 S. T. H. 3.0 B.0 B.0	18	847	339	1.5		1	
21 H56 3381 3.0 Bate 9 3.0 22 R57 3385 3.0 S. T. K. S. O 23 R50 3298 3.0 S. T. K. 1.0 24 R60 3388 1.5 S. T. K. 1.0 25 R61 3397 1.5 R1eck H (32926) 2.0 S. T. K. 3.0 25 T. K. 3.0 25 T. K. 3.0 25 T. K. 3.0 26 T. K. 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.	H56 3381 3.8 Bate 9 3.0 6.0 H57 3385 3.0 S. T. K. 5.0 8.6 H58 3388 3.0 S. T. K. 1.8 4.0 H60 3388 1.5 S. T. K. 1.0 2.5 H61 3387 1.5 Black H (32926) 2.0 6.5 S. T. K. 3.0 H63 3491 3.0 S. T. K. 9.0 8.0	19	KSA	7.SN	1,5	Batu 8	ŀ	
22 857 3395 3.0 S. T. K. S.0 6 23 850 3298 2.0 S. T. K. 1.0 24 860 2368 1.5 S. F. K. 1.0 25 861 2397 1.5 Block 8 (32926) 2.0 S. T. K. 3.0 S. T. K. 3.0	#57 3385 3.0 S. T. K. S.0 8.0 #50 #50 3388 3.0 S. T. K. 1.0 4.0 #60 3388 1.5 S. T. K. 1.0 2.5 #61 3397 1.5 Block # (32926) 2.0 6.5 S. T. K. 3.0 S. T. K. 3.0 #63 3401 3.0 S. T. K. 9.0 8.0	20	855	1377	1.5	Petu 7	•	i
23	H69 3388 1.5 S. T. H. 1.0 2.5 H61 3397 1.5 Block H (32926) 2.0 6.5 S. T. H. 3.0 H62 3397 3.8 S. T. H. 2.5 4.0 H63 3491 3.0 S. T. H. 5.0 8.0	21	#56	3361	3.0	•	ļ	1
26 H69 2368 1.5 S. F. K. 1.0 2 25 H61 2367 1.5 Block H (32926) 2.0 S. T. K. 3.0 26 H62 2367 1.5 S. T. K. 2.5	H69 3368 1.5 S. F. K. 1.0 2.5 H61 3367 1.5 Block H (32926) 2.0 6.5 S. T. K. 3.0 H62 3401 3.0 S. T. K. 2.5 4.0	22	R57	3135		·	l	i
25 H61 2367 1.5 Block H (32026) 2.0 S. T. K. 3.0 S. T. K. 2.5	H61 3367 1.5 Block H (32926) 2.0 6.5 S. T. K. 3.0 H63 3401 3.0 S. T. K. 9.0 8.0	23	H50	3393				İ
25 (32926) 2.0 S. T. K. 3.0 S. T. K. 2.5	(32926) 2.0 6.5 S. T. K. 3.0 H63 3461 3.0 S. T. K. 9.0 8.0	24	H69	, i			1.0	2.5
25 M82 2387 1.5 S. T. K. 2.5	H62 3491 3.8 S. T. K. 2.5 4.0 H63 3491 3.8 S. T. K. 5.0 8.0	25	Hol	2397	1.5	(32926)		6,5
	H60 3491 3.8 S. T. K. 9.0 8.0						ĺ	
20 27 8 88 1		25	WEE	23 17	1.5	S. T. K.	2.5	4.0
34 1 183 348 3.6 3. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.		27	ra a	3401	3.0	S. T. K.	9.0	8.0

lo.	Helding Ro.	Lot in Block	Area (agres)	Lot Cutside Mack	Area (acres)	Total Area (acres)
29	H69	2346	3.0	9t.811tableg	1.5	4.5
30	1871	3354	2.0	Batu 0	1.0	4.0
31	H74	3362	3.0	Satu 4	5.0	8.0
32	175	3366	3.0	Block P	1.5	
	·			Setu 8	8.0	12.5
33	un .	3370	3.0	Batu 9	1.5	
	,	,	š.	Satu 7	2.5	7.0
34	1770	3322	3.0	Satu 8	5.0	8.0
38	1100	3390	3.0	Satu 6	5.0	8.0
36	##3	3400	3.0	S. T. K.	2.0	5.0
	Total		99.0	**************************************	132.5	231.0

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TABLE B

FRAGMENTATION OF FARMS: INSIDE BLOCK OUTSIDE BLOCK

lo.	Eliniq lo.	Let in Block	Area (acree)	Lot Outside Blook	Area (acres)	istal Area (acres)
1		236	1.5	Block J	3	
2	n	3347	3.0	Block #	3	4.5
3	FB	3357	3.0	Sungal Sereb	_	6.0
4.	F12	3363	3.6	S. T. K.	1	4.0
5	Fig	3367	3.0	8. T. K.	2	7.0
			•••	Sate 5	3	8.0
6	FIA	2371	3.6	Satu 8	5	
7	Fia	3391	3.0	Sets 9	1	8.8
				S. T. K.	5	9.6
8	F32	3356	3.0	Sungal Seruh	1	4.0
9	F34	3364 3390	6.0	Sungaj Serek Batu 7	2 5	13.0
10	FAE	3408	3.0	Batis 8	5	8.0
11	F48	228	1.5	Block P Batu B	3	9.5
12	FSS	2373	3.6	Bate 7	1.25	4.25
B	FSA	3377	1.5	Satu 8	2.5	4.8
14	FSS	2377	1.5	Batu 7	2.5	4.0
15	FSB	3381	3.0	Satu 9	3	6.0
16	E39	3389	3.6	8. T. K.	1	4.9
17	Fee	3367	1.5	S. T. K.	1	2.5
19	F82	3367	1.5	S. 7. K.	3	6.5
				Stack H	2	4 *4
19	FEG	3367	1.5	S. T. K.	2.5	4.8
20	F65	3465	3.0	S. T. K.	2.6	5.0
21	F78	3348	3.6	St. Siliabing	1.5	4.5
22	F77	3378	3.0	Setu 9 Setu 7	2.5	ö . 5
23	F78	3382	3.0	Satu 8	5	8.0
24	F84	3406	3.0	8. T. K.	2	5.0
*******	Tetal		64.5		80 . 75	145.25

_		Block	Let Outside Block O
H1	Resean b.Hj. Dahalan	3331	_
H2	Hidol b.Hj. Dahalan	3331	-
H3	Md. Noor b. Hj. Sukor	3335	•
HA	Mustuman bt. Sukor	3339	-
	Sidek b. Mavavi	3343	Block J (3 acres)
H5			Direct C () dolon,
Hé	Hj. Abdul Rahman	3343	
	b. Surat	3344	33 1 27 / 3 1
H7	Surat b. Suradin	3347	Block N (3 acres)
HS	Taman b.Hj. Sukor	3347	
H9	Musloha bt.Ahaya	3351	Sungai Sireh (l acre cocceut)
ETO	Hj. Abdullah	3355	·
Hll	Samip b. Ahyat	3359	
l		3355	
Hì2	Rohani b. Ahyat	3359	
m)	Mj. Mohd. b. Noh Alip	3363	Sungai Tinggi Kanan (4 acres - cocomut)
H14	Hj.Bakar b.Nat		Sungai Tinggi Kanan(2 acres
	Blaan	3367	Batu 5 (3 acres) - coconut
		3371	Batu 8 (5 acres - cocomut)
E1.5	Jamarn b. Shehar	,	2000
M16	Hj. Iman b.Hj. ali	3375	
EL7	Sepiah b.Hj.Abd.	2220	
	Hanan	3379	
H18	Juhir b. Asat	3383	manual State of Samuel Samuel Samuel
H1.9	Idria b. Dalimin	3391	Sungai Tinggi Kanan (5 acres
			Batu 9 (1 acre)
H20	Panniran b. Mustari	3395	Sungai Tinggi Kanan(1 acre)
H21	Hi. Iman	3399	
E2 2	Hi. Abdul Salim	3399	4
H23	Hi. Abdul Karim	3403	Sungai Tinggi Kanan (5 acres
H24	Siti Katijah b.		Sungai Tinggi Kanan
25.4	Seveiro	3407	(22 gores)
	Ej.Osman b. Kassan	3411	Sungai Tinggi Kanan
M25		3412	(7 acres)
	Ishak	3425	(18 mozo-)
H26	His. Salleh b.	3438	
•	Dorinan	3415	
H27	Ej, Ali b. Tumus	3418	
E28	Shurib b. Travintana	3340	•
H29	Mussain b. Kaspan	3348	
H30	Sallehan b.Mustaras	3352	a
H31	Sarmon b. Ali	3356	Sungai Sereh (l acre- maise, coconut)
H32	Mi. Hohd. Tahir b.	3369	
***************************************	Wertijan	er va elling. Net estiti	
***	Mi. Tohab Marto	3398	Sumgai Sereh (2 acres)
E33		3364	Batu 7 (5 acres - coconut)
		3368	Sungai Tinggi Kanan (18
H34	Hambli b. Coman	2300	acres)
		3360	Sungai Tinggi Kanan (15
H35	Sapiah bt. Katib	3368	
		1	acres)
н36	Moharam b.Md. Masi:	3372	Sungai Tinggi Kanan(1) ac
			2 mls.from main water-

H37	Kassin b. Hasir	3376	
H38	Mat Tamrin b. Kasan	3380	
R39	Satran b. Koran	3392	
H40	Kassan Pendek	3400	
	Seratin b. Basiran	3408	Batu 8 (5 acres - cosonut)
H41	METALIN O. DESITED	3400	Sungai Tinggi Kanan (1 acre)
		3430	ousfer trucks remen (+ sors)
H42	Russain b. Kassin	3419	·
H43	Sardi b. Teeo	3333	
E44	Ajib b.Hj. Tahir	3337	
E45	Matun b. Rustan	3341	
H46	Kaslan b. Bakar	3353	1 .
H47	Semi b. Ej. Idria	3353	Block P (3 acres)
			Batu 5 (5 acres)
H48	Hj.Salleh b.Musta-		
	TOR	3357	
E49	Sukaimi b. Korom	3361	
H50	Wahib b. Sukaimi	3361	
H51	Satiman bt. Sukaimi	3361	
	Karton b. Sulaiman	3369	
H 52	Mi.Bolah b. Sidek	3373	Ratu 7 (lg acres)
H53	Hi. Osman b.Jayan-	2010	, , ,
B 54		3377	Batu 8
	stari	3377	Batu 7 (5 aufes)
E5 5	Hj. Abdul Rahman	3381	Batu 9 (3 acres)
H56	Karsiah bt. Harun		Sungai Tinggi Kanan (5 acres)
H57	Rosume b. Mustaffa	3385	Sungai Tinggi Kanan (1 acre)
H58	Hj. Marsuki b. Hassan	3389	striller seeds
	Schari	2202	
и59	Ahmad b. Masan	3393	•
H60	Abdullah b. Noh		Sungai Tinggi Kanan (1 acre)
	Alip	3393	Block H 3926(2 acres) S.T.K.
H61	Hj.Omar b.Hassan	3397	13 cmm
			(3 acres) Sungai Tinggi Kanan (22 acres)
H65	Hj.Abdul Gapor	3397	Saugar
H63	Hj.Jaimuddin b.		Sungai Tinggi Kanan (5 acres)
7-	Keren	3401	Sungai Tinggi Kanan (2 acres)
H64	Ramlan b. Md. Yadi	3405	Surger Tinggr Lands (2 acres)
R65	Ghik bt. Nobd.	3409	
H 66	Ahmad b. Hd. Tadi	3409	
E67	Ajman b. Rabmat	3338	
H68	Mi. Samsuri b. Somoh	3342	# - 1
H69	Omar b. Hj. Marsuki	3346	Bukit Belimbing (la acres)
H70	Mi.Massan b.Hj. Abd.		
= :: *	Rahman	3350	
871	Hj. Aksan b. Hj.		7 4 A /3 manual
•	Rahman	3354	Batu 9 (1 acre - coconut)
H72	Besom bt. Abdullah	3358	
H73	Hj. Zain	3358	may 4 (5 amon)
B74	Hi. Jalil	3362	Batu 4 (5 acres)
B75	Mi. Sanusi	3366	Block P, (12 acres)
			Batu 8 (8 acres)
H76	Kj. Kassan b. Ahmad	3370	Batu 9 (l acre), Batu 7 (li acres)
B77	Misiran b. Dono	3378	Mara a (T wors) para ((TA worse)
н78	Saimo b. Dipo	3382	Batu 8 (5 acres)
H79	Hj. Kahsarb Turn-		
स्त्र [ा] रे.ड	earsul	3386	
H80	Sairan b. Sidek	3390	Batu 6 (5 acres)
H81	Hj. Daud	3394	
H82	Abdullah b. Cja		
	Chabitanah	3402	10
E83	Mujri b.Hj.Omar	3406	Sungai Tinggi Kanan (2 acres)
H84	Rebin b.Hj.Abd.		
	Rahman	3414	

Paza No.	Names of Parmer	Lot in Block	Lot Outside Block O
P1	Sidel b.Hj.Dahalan	3332	
72	Sardi b. Sidok	3331	
73	Taman b. Hj. Suker	3335	
		3347	
74	Mustanum bt. Sukor	3339	•
75	Sidek b. Mavavi	3343	Block J
76	Mj.Abd. Rahman b. Hj.		· · · · · · · · · · · · · · · · · · ·
FI	Surat	3343	-
PS	Suret b. Suredin	3347	Blook W
P9	Magloha b. Ahaya	3351	Sungai Sireh
no	Bahalan b. Yahaya Behani b. Ahyat	3355	
nı	Souly b. Abyet	3359	
F12	Hj. Nohd. b. Noh Alip	3359	.
F13	Hj. Bahar b. Kat Elman	3363	Sungai Tinggi Kanan
F14	Jamain b. Shehar	3367 3371	Sungai Tinggi Kanan, Batu
715	Mj. Iman b. Hj. Al	3375	Batu 8
må	Mastier b. Ahmad	3379	
1		3403	
727	Ismail b. Misbah	3383	
718	Idrie b. Delimin	3391	Batu 9
			Sungai Tinggi Kanan
P19	Shaburi b. Panniran	3395	
729	Kasran b. Koromoh	3399	
P23	Hj.Abd. Salim	3399	
P22	Ismail b. Abd. Karim	3403	
F23	Md. Zahid b. Hj. Hassan	3407	
F24	Maslan b. Zain	3407	
P25	Hj.Osnam b.Kassam Ishak	3411	
F26	Kamri b. Rj.Kasbullah	3412	
P27	Shuib b. Fravintana	3415	
F28	Mj. Ali b. Yunus	3340 3418	
P29	Mat Salleh b. Ahyar	3344	
F30	Russain b. Kaspan	3348	
F31	Sallehan b. Mustaran	3352	
P32	Saracs b. Ali	3356	Sungai Sereh
P33	Hj. Mohd. Tahirb		
	Vartijan	3360	
P34	Hj. Toka b. Marto	3364	Sungai Sereh
		3398	Batu 7
F35	Hambli b. Caman	3368	
P36	Napiah b. Kalib	3368	
737	Moharam b. Md. Masir	3372	
F38	Kassin b. Rasir Mat Tamrin b. Kasan	3376	
F39 F40	Sastram b. Koram	3380	W. A
P41	Chasali b. Ahmad	3392	Batu 8 (Josephut)
P42	Saratin b. Basiran	3400 3408	
P43	Siti bt. Ali	3419	
P44	Baidi b. Teso		
745	Shurib b. Savirana	3337	

No.	Hames of Farmer	Lot in Block	Lot Outside Block O
P46	Jeffer b. Hassan	3341	
747	Kaslan b. Bakar	3353	
P48	Seni b. Hi. Idris	3353	
P49	Hi. Salleh b. Kustaram	3357	
P50	Sukaimi b. Koromo	3361	
	Wahib b. Sukaimi	3369	
753	His Polah b. Sidek	3373	
754	Mi. Osman b. Jayamstan	3377	Batu 8
755	Hi. Abd. Rahman	3377	Betu 7
F36	Karelah bt. Jarun	3381	Batu 9
757	Remaiah b. Kosai	3385	
758	Tabin b. Hashim	3385	
P59	Hi. Marsuki b. Hassan		
	Shari	3389	man de Manager Manager
P60	Abdullah b. Noh Alip	3393	Sungai Tinggi Kanan
761	Ahnad b. Hasan	3393	Block # 3926
P62	Ej. Omer b. Hassan	3397	Sungai Tinggi Kanan
		336	RETURNE TTOORY CO.
76)	MJ. Abdul Capoor	3397	
P64	Hj. Januddin b.Koromo	3401	Sungai Tinggi Kanan
P65	Resulan b. Yadi	3405 3409	
P66	Chik bt. Hohd.	3409	•
767	Ahmad Md. Yadi	3338	
P68	Assani b. Rahmat Hj. Samsuri b. Somoh	3342	
769	Onar b. Hj. Marsuki	3346	Bukit Belimbing
F70	Hi. Hassan b. Hj. Abd.	3,543	
P71	Rahman	3350	
107 9	Hj. Tusoff b. Abd.		
F72	Rahman	3354	
P73	Kassim b. Wahid	3358	
P74	Tayus b. Anapavir	3362	
775	Bakir b. Hj. Tahir	3366	
776	Hj. Hassan b. Ahmad	3370	
rii	Misran b. Dorio	3378	Batu 9, Batu 7
F78	Saime b. Dipo	3382	Batu 8
F79	Hj. Manear b. Turn-		
	varsul	3386	
	Hj. Abd. Rahman b.	3300	
F30	Dipo	3390	
781	Hi. Abd. Rahman	3390	
761 762	Hj. Abd. Rahman Afandi b. Parvi		
761	Hj. Abd. Rahman Afandi b. Parvi Abdullah b. Chabi-	3390 3394	
761 762	Hj. Abd. Rahman Afandi b. Parvi Abdullah b. Chabi- tanal	3390 3394 3402	Sunsai Tinggi Kanar
761 762	Hj. Abd. Rahman Afandi b. Parvi Abdullah b. Chabi-	3390 3394	Sungai Tinggi Kanar (2 acres)

APPENDIX II

Phase III

T.K. S.S.: SURVEY OF LAND BY BLOCK

ot No. Block Date Place of	interview
mm Holding Interviewer	Interviewee
Gend not cultivated 1963/4 //	
To interview because owner/operator cannot be located /	• 7
Is there a dwelling on the lot? Yes/No	
Owner of piece Residence on land	•
Operator on piece Residence on land	
who lives in the house? Owner/Operator/Other	
Check whichever is relevant:	
(a) Owner operates & lives on land	
(b) Owner operates land BUT lives elsewhere	
(if so state place of owner's house	
(c) Operator lives on land but does not own the land $\overline{/}$	
state rent paid to owner 1963/4 season	
(d) Operator does not live on land & does not own land	
state rent paid to owner 1963/4 season	
This is a case of co-ownership (check for Re-visit)	
This is a case of joint-operation (check for Re-visit)	
Variety of padi planted 1963/4	
No padi planted 1963/4	7
Quantity of padi harvested	
method of harvesting tuai/sabit	
Was the total harvested this year more/less/same as last	year (give quantities if possib
State explanation, if possible	
Was there any pest/disease on this land which affected c	rop this year?
When crop was growing was water supply: (a) right time/t	coo early/too late
(b) right amount	t/too much/not enough
	coconut

No. Block Date	
Holding Interviewer	Interviewee
ith notice that the same of th	
Land not cultivated 1963/4 //	······································
No interview because owner/operator cannot be located /	
Is there a dwelling on the lot? Yes/No	, dele o so
Owner of piece Residence on land/	other
Operator on piece Residence on land/	other
Who lives in the house? Owner/Operator/Other	
Check whichever is relevant:	
(a) Owner operates & lives on land	
(b) Owner operates land BUT lives elsewhere	
(if so state place of owner's house	
(c) Operator lives on land but does not own the land	
state rent paid to owner 1963/4 season	
(d) Operator does not live on land & does not own land	
state rent paid to owner 1963/4 season	
This is a case of co-ownership (check for Re-visit)	
This is a case of joint-operation (check for Re-visit) /	
. Variety of padi planted 1963/4	
No padi planted 1963/4	7
L. Quantity of padi harvested	
method of harvesting tuai/sabit	
2. Was the total harvested this year more/less/same as last	year (give quantities if pos
State explanation, if possible	
	eron this year?
Was there any pest/disease on this land which affected	ten cerly/too late
water supply: (a) right time/	(OO Out -) .
(b) right amount	10/ 000
15. What other crops are grown on this land in 1964: banan	nascoconut
15. What other crops are grown on this land in mengkuang mengkuang	maize (jagong)
fruit kapas cobacco cobacco	

Phase III

				Phase III				
t document can you examine:								
Title: type		Dat	Date of issue					
Name								
Area			Office R	ent				
Land rent receipt No.	Date	Area	Land	Rent \$_	Wate	r R.\$		
		, ,						
Other								
e has not been transferre	d to present	owner's name	/	date of	purchase			
		Owner o man						
owner own other pieces of	of land in:		Area	rop	Rented out/in			
ocation of Land			Wiew /					
Block Nc.						<u> </u>		
.(non S.S.) Kampong	Block	No.		·		and the second s		
T.K.District Kamp	ong	Ref		· .				
s owner operate other pie					Reuted	Name of		
ocation of Land			Area	Crop	out/in	Operator		
.Block No.								
.(Non S.S.)Kampong	- Block	No						
T.K.District K	empon a	Ref.						
es any member of owner's	have shold own	nieces of lar	ıd:			N me of		
	nousenoid our	,	Area	Crop	Rented out/in	Operator		
Location of Land								
S.Block No.						: :		
K.(non S.S.)Kampong					:			
on T.K.District	(ampong				og tonen	t farmer)		
oes any member of household	ld (living in	this house) c	wn and/or	(operate	as fellen			
any land other than this As Owner	braca:				·			
Location of Land			Amag	Crop		Name of Operato		
			Area	<u> </u>				
n S.S.Block Ref.		v *						
r.k (non S.S.)Kampong		Ref						
Othe districts: Ditrict Kampo	and the second second	Ref						
	Q				Rente	d Name of		
As Operator Location of Land			Area	Crop	/2	n Operate		
In S.S. Black Re	f.							