

IV. PROJECT ANALYSIS

1. Method of Analysis

The food problem is still paramount in the food priority countries like Indonesia, due to the low level of agricultural productivity and the high growth rate of population. Indonesia has a vast potential for agricultural development in the outer islands. Therefore, under the Second and Third Five Year Plan the huge investments for agricultural development have been made in the outer islands, and in particular, Lampung Province which is favourably located, is assumed as a base of food production for the ever increasing population in Java.

However, the various investments to production infrastructure like irrigation facilities in Lampung have induced the inflow of a huge number of spontaneous transmigrants from Java. They, having little capital, are engaging in producing food mainly for home-consumption in a small scale, and usually are among the last to discard their traditional farming methods. In fact, in addition to the limited financial and technical resources, the lack of knowledge about how to reach these millions of small farmers has prevented the national programs for increased food production from encouraging small farmers to participate in these programs. This is a reason why the Lampung Tani Makmur Project has been carried in execution aiming at disseminating new farming techniques among small farmers under the close cooperation between Indonesia and Japan.

Small farmers can be assisted in learning and acquiring new methods of farming by such activities of the Extension Project, Tani Makmur Project, as intensive guidance, training and provision of production materials. Although the agricultural development is attained not only by the learning of new knowledge but also by the existence of socio-economic conditions, under which the higher productivity would be realized by using new techniques, the project activities are crucial in order to stimulate farmers to improve their farming practices, and some of these activities pave the way of performing other activities in the process of project implementation. Therefore, we have to identify the effects brought about in sequence and to distinguish the advantages incidentally resulted from the project implementation through examination of changes in farming practices and farm economies according to the phases of the project implementation.

The implementation of Lampung Tani Makmur Project can be divided into two phases. The first phase, which covered 19 kecamatan in Kabupaten South Lampung and Central Lampung, started in November 1972, and the second one was commenced in November 1977. The Project activities in the first phase was rather concentrated on bringing up the applicable farming technology to the local conditions and on providing farmers with intensive guidance for practice of improved farming method at the demonstration farms. The second period of the Tani Makmur Project is the continuation of the first period, but the Project in this phase has been carried with some modifications in order to adjust the activities to the latest conditions and policy of agricultural development in the province.

The activities of the Project are inseparable parts of the whole efforts exerted to attain the objective of agricultural development in Lampung Province. In the second phase, based on the achievements of the Project in the first phase, the considerable efforts to disseminate

new farming methods among the farmers in the province through the R.E.C. network, introduced in 1977, have been made. For instance, the system LAKU (training and visit system) has been gradually introduced together with activities of intensive guidance in demo-farms of the Project. Thus, the effects of the Project have gradually spread over beyond the boundary of demo-farms. As stated before, at least in the lowland area, the fact, that the income gap between the demo-farms and non demo-farms has been narrowed in recent years, indicates the expansion of areas under new farming practices outside the demo-farms.

Such an educational effect of the Project will continue to accrue well after termination of the Project and will constitute the most significant part of the effects of the Project. For the time being, however, the observation period for project analysis covers a twelve year period from 1972 to 1983, because the present strategy of agricultural development in Lampung will be maintained under the Third Five Year Plan (REPELITA III).

In accordance with the idea mentioned above, we identify the effects brought about by the Project and examine the relation of benefit and costs related to the Project in the following way:

- (1) In assigning values to the goods and services used in the Project and to resulting benefits, it is assumed that market values approximate the alternative costs of the resources employed.
- (2) The value of net direct benefits obtained and associated costs for each year are also determined by the change in monetary prices respectively, taking the effects of inflation and changes in exchange rate into account.
- (3) And the benefit cost ratio is calculated using the following formula:

$$\frac{B}{C} = \frac{\sum_{i=1}^{12} \frac{bi - ai}{(1+r)^i}}{\sum_{i=1}^{12} \frac{ci}{(1+r)^i}}$$

where, $i = 1, 2, 3, \dots, 12$

B = present value of the stream of real benefits of the Project for the 12 year period.

C = present value of the stream of real costs of the Project for the 12 year period.

bi = gross benefits attributable to the Project in the i -th year, assessed at a fixed prices.

ai = associated costs attributable to the Project in the i -th year, assessed at a fixed price.

ci = cost of the Project in the i -th year, adjusted by the wholesale price index.

r = discount rate, in this report 15 % is used.

2. Classification of Benefits and Costs

The most common practices in defining the type of benefit to include in a benefit-cost analysis is to consider only the quantifiable benefits directly attributable to the Project. As the direct benefits, in this report, the annual increase in yields of paddy, upland rice, maize and cassava attributable to the Project is calculated by taking the difference between the observed yield of the demo-farms and the average yield in the concerned area, i.e. Lampung Province. These annual increase in yields of four crops mentioned are multiplied by the number of hectares cultivated by the farmers, who are provided with intensive guidance for farming directly by the Project, to obtain the increase in production attributable directly to the Project.

Although seldom considered because of the difficulty in identifying effects, the quantifiable economic effect indirectly induced by the operation of the Project is examined for lowland farming in addition to the direct benefits mentioned above in this report. Because as stated before, in the second phase of the Project, the extension activities for the non demo-farms through the REC network are reinforced by using extension materials produced by the Project and by fostering actively the extension workers, in addition to the intensive guidance to the demo-farms.

As indicated in the preceding chapters, the gaps in land productivity and farm income between the demo and the non demo-farms in the Project, compared with the gaps existed in the first phase. Therefore, it may be able to say that the average yield of rice per hectare in Lampung might have a trend similar to that of yield of rice on national average, unless the Tani Makmur Project is executed. In fact, the annual increase rate of yield of rice in Lampung registered 4.3 % in the last six years as against 2.1 % on the national average.

Considering these facts we tried to quantify the effects of the Project spread in the lowland area widely based on the following assumption:

- (1). Increase in average yield of rice in Lampung indicates the extent of expansion of area under the improved farming practices.
- (2). Assumed that the level of yield has a similar trend to the yield on national average unless the second phase of the Project is executed after 1977, the gaps in yield of rice between the actual yield of rice in the demo-farms and in Lampung and assumed level of yield indicate the increment of the gross benefit obtained respectively.

Costs of Project can be classified as operational costs and associated costs. The former is the value of the goods and services used to establish and operate the Project, and the latter is the value of the goods and services that are necessary to perform the activities of the Project. The associated costs charged to the Project is the difference between costs that would have been incurred if the Project does not exist and those incurred within the Project.

Accordingly the net direct benefit is the gross value of production under the Project, less the gross value of estimated production without the Project, less the estimated difference in the associated costs incurred with and without the Project. The values of increase in output and production costs of crops are calculated using the prices realized in the market in 1976 obtained from the various data.

The average yields of upland crops in the Province have not shown significant increase in the last seven years. Therefore the derived benefits of the Project are not estimated.

As another direct benefit, we take into account the values of materials provided to the farmers by the Project. Because the amounts of money paid for these materials by farmers are kept in farmers' hands as group funds and these funds can be reinvested thereby permitting the generation of additional benefit.

The associated costs are the cost of fertilizers, chemicals and labor in excess of those incurred by farmers using the traditional technology. It is recognized that the adoption of new technology recommended by the Project requires a more intensive use of farm implements than the traditional technology and the labor requirements increase considerably. In general there seems to be surplus labor in the area, but at specific times of the year hired labor must be found. Therefore, daily wage of hired labor is charged for hired labor which is found for some specific operations of farming, and no associated costs is charged for family labor.

Calculations of annual costs of the Project take the followings into consideration:

- (1). The costs of machine, equipments and other durable items which are charged to the year in which they are purchased, even though they are used continuously for several years even beyond the Project period, but the salvage values at the end of observation period are deducted.
- (2). Costs of materials and services are also charged to each year.

The value of project costs which consist of the Indonesian counter funds and the Japanese assistance exerted to the Project.

The value of Japanese assistance of Yen is converted into Rupiah using the exchange rate in 1976. As for the Japanese assistance as a alternative, the charges for services and materials provided are estimated at no cost from the financial view point of the Indonesian Government.

3. Estimation of Benefit-Cost Ratio.

To compare costs and benefits corresponding to different years, it is necessary to take into account the added benefits that may be derived from reinvesting capital. The costs and benefits in this analysis are adjusted for added benefits from reinvestment, using a discount rate of 15%. The estimation is summarized in Table IV - 1.

The present value of net direct benefit and the project costs are summed over years. The benefit-cost ratio thus obtained for the Tani Makmur Project is shown in Table IV - 2. Alternative I shows a B/C ratio obtained from total net benefit of the Project and total project costs. Alternative II is a B/C ratio for the national Treasury of Indonesia.

Roughly saying the B/C ratio obtained is adequate, showing the net benefit generated exceeds the project cost. If we take indirect effects into account more actively, for instance the increase in employment opportunities in the rural area, we obtain the higher ratio. Further, it can be expected that benefit due to the Tani Makmur Project will continue to occur in years to come, thereby giving a benefit cost ratio above the obtained one for direct and derived benefits.

4. Intangible Benefits.

An important intangible benefit derived from the Tani Makmur Project is the progress that has been made in assisting farmers to organize in groups and resolve problems in a cooperative manner.

The group activities have paved a way to expand a scale of their economic activities and to increase the level of credibility to loan. Another important intangible benefit attributable to the Project is favourable changes that has occurred in the farmers' attitude toward agriculture. They have now an intention to improve themselves actively and they are eager to obtain technological information in order to expand their farming activities.

Year	P a d d y				Upland rice		M a i z e		Cassava		Present value of total net benefit Rp million	Present value of materials supplied Rp million	Present value of project cost	
	Direct		Induced		benefit		benefit		benefit				I	II
	B Rp 1000	A Rp ha	B Rp 1000	A Rp ha	B Rp 1000	A Rp ha	B Rp 1000	A Rp ha	B Rp 1000	A Rp ha				
1972	-	-	-	-	-	-	-	-	-	-	-	-	449.8	0.4
73	114	20	-	-	-	103,487	-	-	-	-	3.47	4.74	376.0	220.9
74	63	140	-	-	-	109,501	33	62	34	57	15.87	9.33	425.0	162.1
75	37	399	-	-	-	134,173	47	324	17	662	55.81	42.54	549.0	133.8
76	37	749	-	-	-	121,745	60	812	13	520	74.12	43.26	547.0	137.8
77	52	824	-	-	-	135,579	41	2,141	21	1,792	177.58	47.15	652.3	88.9
78	56	883	-	-	-	135,571	27	4,243	5	3,322	292.52	-	337.5	77.3
79	54	944	0.7	-	-	162,550	26	4,351	20	3,677	554.03	-	222.8	85.3
80	52	1,127	3.3	-	-	194,879	46	5,557	8	4,832	668.24	-	132.7	56.4
81	51	1,248	5.6	-	-	233,682	46	6,541	4	5,475	948.28	-	54.8	54.8
82	50	1,372	7.8	-	-	280,186	46	7,525	4	6,318	1,241.13	-	47.7	47.7
83	49	1,492	10.1	-	-	336,610	46	8,509	4	7,161	1,573.41	-	41.4	41.4
Total											5,604.16	147.02	3,836.0	1,106.8

Note : B ... Net benefit per ha
A ... Planted area
Project cost I Total cost
Project cost II Excluding Japanese assistance

Table IV - 2
Benefit Cost Ratio

Alternative	Direct net benefit	Project cost	B/C ratio
I	5,751.2	3,836.0	1.50
II	5,751.2	1,106.8	5.20

Note : a) B/C ratio of the Project for the National Treasury of Indonesia

V. CONCLUSION AND RECOMMENDATION

1. Conclusion.

It can be considered that the Project has almost performed the activities as stipulated in the amended master plan of the Project. With the continuous effort by the Project, land productivity, level of farm incomes and living standard of farm families have been improved considerably, and the attitudes of farmers toward agriculture have been changed further more after extension of the Project.

Generally speaking, in lowland area the target has been almost completed. On the other hand, in upland area the effect of the Project is still not yet reflected so much, although the considerable effect can be seen within the demo-farm area.

As far as the activities at Tegineneng Centre is concerned, it has been carried out effectively.

Tegineneng Centre.

Transfer of knowledge.

(1) The Tegineneng Centre has performed the activities as stipulated in the amended master plan of the Project.

(2) The Centre has notably contributed to the transfer of knowledge from the Japanese experts to the Indonesian counterparts and extension workers through studying together and training. In particular, the regular training of extension worker, within as well as outside the Project has been reinforced in connection with the RECs.

(3) The expansion of laboratory facilities at the Centre has accelerated the transfer of knowledge to the counterparts, along with the intensified exchange of information on technical problems with CRIA and universities.

(4) Technical and economic data collected through trials, yield sampling, farm surveys and so on, are analyzed and utilized for preparation of extension materials. However, these data and results of analysis are prevented from utilizing fully due to a lack of budget, although some of materials prepared by the Japanese experts and the counterparts have been distributed to the RECs.

(5) LTMP has conducted many trials in the period. Anyhow some of them are shifted or totally deleted because of the limited budget. But as there were trials conducted by F.A.O. which could be complementary each others, the result was sufficient. Those results were used for improving the extension recommendation.

Seed multiplication.

(1) The activities concerning seed multiplication have been favourably developed. It is attributable to the competency of the staff which has been fostered by the Japanese experts, and to the improvement of field conditions in the Centre.

(2) Although the relatively limited supply of foundation seeds, especially of upland

rice from CRIA, has constituted an obstacle so far, the Centre has now a capacity of producing foundation seed under cooperation and supervision of CRIA.

Workshop.

The workshop has become to provide facilities for maintenance and repairing machines and training of the staff, and the efforts are made to explore its potential for providing simple farming tools and spareparts.

Lowland Farming Development

The Lowland Farming Development sub project has shown significant progress in terms of transfer of new technology to the farmers through intensive guidance to the farmers groups. The demonstration at demo-farms in lowland area, which is the main activity of the sub project, has properly been performed in succession to the first phase of the Project, judged from the expansion of area covered, the increase in number of farmers' groups and the improvement of land productivity. The improvement of land productivity has undoubtedly resulted in the increase in farm income.

According to the data obtained, the land productivity of paddy in demo-farms is higher than the average level in Central and South Lampung, but it seems that the gap in yield between the demo-farms and others has been narrowed recently.

This may indicate that the improved techniques of paddy farming has been disseminated widely among the farmers through the activities of RECs which follow the methods adopted in the demo-farms.

Special attention on crop protection aspects just started in 1978. Activities concerned were limited specially on inventarization of important pests and diseases, trials, training and supply of crop protection machineries and pesticides. It is a fact that in Lampung area pests and diseases act as an important constraint in food crop production programme. Introduction and intensification of new technology on crop production should be followed by proper crop protection treatments.

The Tani Makmur Project has supported the farmers associations to introduce and operate 8 Rice Mill Units so far. The Project takes an important role in technical and administrative guidance covering activities from collection of raw materials up to marketing. However, the improvement of its management is absolutely needed.

In the second phase of the Project, the number of farmers' groups and the repayment of the revolving fund decreased due to less intensified guidance. In this respect, it is required to maintain the intensified guidance in order to improve the management of farmers fund.

Upland Farming Development.

Improved farming techniques based on the results of trials and experiments conducted by the Project have been adopted by the demo-farms in the upland area, and the area covered by the demo-farms and number of Kelompok (farmers' group) have increased. The increased number of Himpunan (association of farmers' groups) after 1977/1978 shows the achievement

of the activities of the Project. However, yield per hectare of major crops such as upland rice, maize and cassava has hardly shown the improvement in the second phase of the Project.

This unsatisfactory performance of upland farming may be attributable partly to some damages caused by pests and diseases. As the upland crops like upland rice and maize are rather vulnerable to weather conditions compared with lowland rice, the farmers are generally apt to practice intercropping in order to avoid the uncertainty of production and to meet the capacity of family labor.

Inter-cropping of upland rice with maize and cassava, which are rather fertility exhausting crops, necessitates careful fertilization. Viewed from this point, farmers-practices are not adequate for fertilization and land preparation. However, the more intensified farming is restricted by the capacity of family labor, and the small scale farming of crops with less marketable value is maintained, in spite of the existence of some rooms for expansion of arable land.

Rural Extension Centre.

LTMP has already supported RECs by training and providing extension materials. Demo-farm has become an effective media in developing RECs activities.

Farmers Organization.

Group activities of farmers are requested in the demo-farms and the farmers' groups are encouraged to form the association of groups, which is assumed as an embryo of the village unit cooperative (KUD). Although the progress has not seen so satisfactory yet, these farmers activities could make progress, if the proper guidance is provided continuously.

2. Recommendation.

The Project has experienced its successful execution in general during the whole project period of eight years. Out of its attainment it should be noted that the lowland farming activities have been so remarkably improved that farm households in the lowland area, compared with other farming area in Lampung, have become possible to enjoy the advanced level of living standard through the higher income derived from the improved farming practices supported by the Project.

However, it should be also mentioned that there exists some room, especially in upland farming, to which the necessary effort should be made not only to achieve more completed implementation in the remaining period of the Project, but to realize the further agricultural development in Lampung.

Herein, the JET would make some technical and professional recommendations to cope with the above mentioned aims based on the observations and analyses during its stay in Province of Lampung.

- (1). The Tegineneng centre, no doubt, is and will be a vital source of agro-technical knowledge and forms the core of technology transfer and dissemination of new farming ideas. It is expected that Tegineneng Centre could be legalized as an Agricultural Development Centre based on the Agriculture Minister's Degree No. 320, 1979, because actually it already functioned efficiently as a vital source of agro-technical institution.
- (2). Activity of using the facility of laboratory will be maintained by the close relationship between CRIA and other organizations.
- (3). As for the workshop, financial support and training of more mechanics are necessary to maintain or develop the function of the workshop. Upon termination of the Project, the availability of some spareparts may become a crucial problem, although most of spareparts have become available in the local market.
- (4). The Project has leased many kinds of farming machines to farmers' groups. However, it seems that most of these groups are not always using these machines efficiently. The more intensified coaching for utilization is required.
- (5). When the Project terminates, the legal status of the equipments lent to the farmers' groups will become a problem. The solution should be found in accordance with the government regulation. However, it may be required to study the way of promoting farm mechanization including the possibility of disposal of small scale machines such as sprayers and handtractors in a way similar to that of handing over of rice mills to farmers' groups.
- (6). Studies on crop protection aspects need more attention to cope with the existing condition. Extension of crop protection knowledge through dissemination of information to farmers groups should be intensified. Formation of pest control groups would be helpful to combat with pests and diseases problems in the area. Integrated pest control is sound concept to be developed and implemented.
- (7). In order to improve and stabilize the farm economy in the upland area, the expansion of management should be considered as well as the improvement of farming techniques. Therefore, further studies and trials on upland farming should be continued.
- (8). When the Project terminates, the legal status of revolving funds, which have been accumulated by the farmers' groups to facilitate the introduction of improved farming techniques under the guidance of the Project, will become one of the problems. Therefore, the farmers' groups with such accumulated funds should be encouraged to form KUD to expand group activities for agricultural development.
- (9). The consideration should be given to the continuation of proper guidance to farmers' association for operation of rice mill units, and to farmers' groups for reinforcement of training of farm mechanization.
- (10). Demo-farm activities should be continued, as a media activities of PPLs.

APPENDICES

Table 1 : Training and Courses in Tugineneng Centre, F.Y. 1977/1978

No.	Kind of Training/Course	Date	Participant (persons)	Duration (days)	Conducted by
1.	Training of spot worker	31 July - 5 Aug. '77	20	6	Tani Makmur
2.	Training of PPLs (Tani Makmur and REC)	6 - 12 Aug. '77	38	7	Tani Makmur
3.	Course of Agric. machinery operators	21 - 25 Mar. '78	20	5	Tani Makmur
4.	- ditto -	27 - 31 Mar. '78	20	5	Tani Makmur
5.	Meeting of Tani Makmur Demo-farm Farmers' Association (organizer)	31 - 1 Apr. '78	116	2	Tani Makmur
6.	Training of Cropping System	4 - 5 July '78	20	2	C R J A
7.	Coaching of Pest Control	18 - 23 July '77	24	5	
8.	Course of PSA (organizer)	25 - 30 July '77	24	6	
9.	Coaching of Citrus Crop Rehabilitation	26 - 28 Sep. '77	21	3	
10.	Coaching of Trial (spot workers)	10 - 12 Oct. '77	20	3	
11.	Coaching of Simple Reclamation of Irrigation	19 - 21 Oct. '77	20	3	
12.	Workshop of water pump	13 - 14 Dec. '77	90	2	
13.	Technical meeting of Diperta Lampung Province	13 - 14 Dec. '77	90	2	
14.	Training of Agriculture Extension Worker	22 - 24 Dec. '77	150	3	
15.	Meeting of key farmers (all Sumatera)	27 - 31 Dec. '77	25	5	
16.	Technical meeting of PPLs Lampung Province	16 - 21 Jan. '78	50	5	
17.	Workshop of IFS Survey and Monitoring (all Southern Sumatera)	30 - 31 Jan. '78	150	2	
18.	Meeting of HKTI, Lampung	22 - 25 Feb. '78	62	4	
19.	Meeting of HNSI, Lampung	4 - 5 Mar. '78	60	2	
		7 - 9 Mar. '78	50	3	
			970	73	

S o u r c e : Lampung Tani Makmur Project.

Table 2 : Training and Course in Teginenong Centre, F.Y. 1978/1979

No.	Kind of Training/Course	Date	Participant (persons)	Duration (days)	Conducted by
1.	Course of simple trial worker	11 - 13 Sep. '78	45	3	Bureau of Production/FAO
2.	Coaching of citrus rehabilitation	18 - 20 Sep. '78	35	3	- ditto -
3.	Training of trial worker	9 - 11 Oct. '78	56	3	- ditto -
4.	Course of upland rice	1 - 2 Nov. '78	15	2	- ditto -
5.	Course of Pest Controle Unit	12 - 15 Nov. '78	18	3	Bureau of Plant Protection
6.	Course of water pump	4 - 6 Dec. '78	58	3	- ditto -
7.	Meeting of PPLs.	1 - 3 Feb. '79	50	3	Bureau of Extension
8.	Training of PPL/workers	14 - 28 Feb. '79	39	14	SPMA (agric. high school)
9.	Visit of simple trial worker from West Java	12 - 16 Mar. '79	28	4	Bureau of Production/FAO
10.	Course of PPMs & Extension Workers	19 - 21 Mar. '79	50	3	Bureau of Extension
11.	Course of seed	23 - 24 Mar. '79	22	2	Bureau of Production
12.	Course of Agric. Machineries.	26 - 27 Mar. '79	18	2	- ditto -
			434	45	

S o u r c e : Lampung Tani Makmur Project.

Table 3 : Training and Course conducted in Tegineneng Centre, 1979/1980

No.	Kind of Training/Course	Date	Participant (persons)	Duration (days)	Conducted by
1.	Seed and Plant Protection Course	June 11 - 13, '79	45	3	BLPP Muara Dua/Kanwil I
2.	Plant Protection Training	June 27, '79	15	1	Pert. Prop. Lampung.
3.	Visit of BLPP Muara Dua	July 14 - 15, '79	40	2	Biro Produksi/FAO
4.	Course of upland crop trial (FAO) I	Sep. 20 - 22, '79	30	3	Biro Produksi/FAO
5.	Course of upland crop trial (FAO) II	Sep. 24 - 26, '79	30	3	BLPP Muara Dua
6.	Visit of BLPP Muara Dua	May 3, '79	40	1	G O L K A R
7.	Training of AMPI Leaders	Oct. 1 - 4, '79	50	4	BLPP Muara Dua, Martapura
8.	Visit of BLPP Martapura	Oct. 19 - 20, '79	20	2	Biro Produksi
9.	Training of Adapted Technology Trial	Nov. 1 - 3, '79	23	3	Tani Makmur
10.	Training of seed production (Ad hoc)	Oct. 19 - 26, '79	26	8	Tani Makmur
11.	Training of Agric. Machinery & Equipment (Ad hoc)	Nov. 5 - 10, '79	26	6	Tani Makmur
12.	Meeting of Key Farmers	Nov. 16 - 18, '79	40	3	Biro Penyuluhan
13.	Training of Plant Protection Worker (Ad hoc)	Nov. 19 - 24, '79	26	6	Tani Makmur
14.	Training of PPL I	Dec. 7 - 20, '79	30	15	Biro Penyuluhan
15.	Training of PPM	Jan. 8 - 22, '80	30	15	Biro Penyuluhan
16.	Training of farm management (Ad hoc)	Jan. 23 - 29, '80	26	7	Tani Makmur
17.	Course of downy mildew disease	Feb. 4, '80	30	1	Biro Penyuluhan & Ciba Goigy
18.	Meeting of PPM and PPS	Feb. 11 - 12, '80	30	2	Biro Penyuluhan
19.	Training of Post Harvest Worker (Ad hoc)		26	5	Tani Makmur

Table 4 : Result of Training Participants in Japan
1977/1978 - 1979/1980.

No.	Name of Participant	Kind of Training	Period
1	2	3	4
1.	Ir. Murdani S.	Control of Rice Disease and Insects Pests	May '77 -- Nov. '77
2.	Ir. Sarimin HP	Individual Training on soil and fertilizers (Upland & Lowland)	Oct. '77 -- Mar. '78
3.	Ir. Amiruddin Inoed	Agr. Extension Service	Apr. '77 -- July '78
4.	Ir. Masdulhaq Ishaq	Rice Cultivation and Its Extension	Mar. '78 -- Dec. '78
5.	Wattoni M. Zahri	Rice Production Mechanization	Mar. '78 -- Dec. '78
6.	Ir. Jupri Amin	Agricultural Extension Service	Apr. '78 -- July '78
7.	Ir. Jama'an	Control of Rice Disease & Insect Pests	Mei '78 -- Dec. '78
8.	Ir. Wahyu Subandrio	Agricultural Machinery Maintenance and Repair	June '78 -- Dec. '78
9.	Ir. Kusnadi Affandi	Observation on Agricultural Things in Japan	June '78 -- July '78
10.	Ir. Soehendi M.	-- ditto --	June '78 -- July '78
11.	Ir. M. Nasir Umar	Agricultural Cooperative	Sep. '78 -- Dec. '78
12.	Ir. Zaenal AE	Rice Production Mechanization	Mar. '79 -- Dec. '79
13.	Drs. Subki E Harun	Observation on Agricultural Situation in Japan	Sep. '79 -- Oct. '79
14.	Pratiknyo T.	-- ditto --	Sep. '79 -- Oct. '79
15.	Nana Halim	Agricultural Extension Service	Apr. '79 -- Dec. '79
16.	Ir. Joko Umar Said	Control of rice disease & insect pests	July '79 -- Dec. '79
17.	Ir. Trisbani Arief	Rice Cultivation and Its Extension	Feb. '80 -- Dec. '80
18.	Salam ZA	Rice Production Mechanization	Feb. '80 -- Dec. '80
19.	Abd. Hamid Abd.	Fotography	Feb. '80 -- Apr. '80
20.	Supiyono	Agr. Extension Service	Mar. '80 -- July '80
21.	Ir. Nenny Karzuki	Agr. Cooperative	May '80 -- June '80
22.	Almizar Abbas	Agr. Machinery Maintenance and Repair	June '80 -- Dec. '80

S o u r c e : Lampung Tani Makmur Project.

Table 5 : Soil Properties of Field Trial 1978/1979

Kecamatan	Desa	depth cm	kind of soil	pH		T-N %	T-C %	C/N	CEC	EX. BASE mg/100 g	CaO	MgO	K ₂ O	Abs. Coe
				H ₂ O	KCl									
Ketibung	Tanjung Mukti	0-19	lat	7.45	6.20	.104	.83	8.0	7.60	59	8	6.6	35	933 168 2.3
				7.15	5.90	.074	.47	4.4	6.14	59	12	4.1	46	1002 84 0.5
Kedondong	Tempel Rejo	0-20	lat	6.81	5.60	.140	.80	5.7	13.86	81	11	6.1	27	1442 56 0.5
				6.70	5.20	.175	1.02	5.8	11.36	85	19	7.8	37	1382 168 0.3
		"	6.85	5.21	.188	1.22	6.4		96	17	13.9		1428 224 0.4	
		"	6.70	5.20	.120	.85	7.0	10.20	64	27	5.7	37	1359 420 0.5	
Kekampung	Wargo mulyo	0-		6.40	4.90	.089	.65	7.3	12.04	80	12	4.3	30	1359 28 0.4
		0-		6.15	4.50	.084	.52	6.1	11.92	85	31	3.1	39	466 308 4.5
		0-14	pod	5.65	4.45	.115	1.02	8.8	6.96	43	23	5.1	40	1176 168 0.4
Wey Jepara	Labuhan Ratu	0-13	pod	6.20	4.90	.092	.59	6.4	5.84	48	15	3.1	43	1062 224 0.2
				5.40	4.35	.146	1.74	11.8	6.91	37	19	7.6	35	672 196 0.6
Rumbia	Reno Sasuki	0-15	pod	5.30	4.15	.117	.96	8.2	6.24	27	8	6.7	24	865 28 0.5
				5.70	4.35	.207	1.89	9.1	6.08	21	12	1.4	23	1566 168 0.9
Bangun Rejo	Sinar Saputih	0-19	pod	5.30	4.35	.076	.61	8.0		27	12	0.8		995 112 0.9
				5.90	4.60	.176	1.66	9.4	10.96	48		6.9		1291 196 0.8
Abung	Suka maju	0		5.10	4.05	.118	.85	7.2	5.84	37	8	2.2	30	993 280 0.5
		0-16	pod	5.30	4.10	.176	2.47	14.0	12.64	37	15	3.3	18	1428 84 1.4
Selaton	Setia negara	0-16	pod	4.90	4.00	.091	.78	8.6	5.44	27	12	3.4	30	833 168 0.4
				4.95	4.00	.174	1.74	10.0	7.32	40	12	3.3	29	1355 252 0.9
		4.65	3.95	.137	.94	6.9	5.44	32	15	1.4	36	1268 84 0.3		
Penegahan	Klaton	lat		5.70	5.20	.188	1.43	7.8	18.00	107	23	12.3	29	1493 308 0
				5.50	5.10	.191	1.58	10.4	18.08	91	58	11.0	35	1543 224 0.8
Kedondong	Banjar Negri	lat		5.91	5.30	.173	1.61	9.3	10.32	48	35	10.4	36	1154 308 0.2
				5.90	5.30	.154	1.19	7.7	10.08	43	15	8.2	25	1475 448 0.6
Wey Jepara	Breje Aari	pod		5.65	4.85	.190	1.13	5.9	15.60	48	23	5.5	19	1222 42 1.0
				5.90	4.25	.148	1.31	8.8	6.40	37	11	2.3	30	1218 350 0.9
Braje Indah		pod		5.90	5.10	.220			69	27	13.5			1085 192 0.9
				5.80	5.01	.248			75	27	9.9			
Totokaton				6.10	5.02	.206			75	27	11.8			1268 70 0.8
						.143	.093	6.5	5.44	27	15	1.9	33	1039 194

incubate

p mg N mg

Table 6 : Soil Properties of Trial Field
(1979 / 1980)

D e s a	Kecamatan Kabupaten	Depth (Cm)	Kind of soil	Soil pH														
				H ₂ O	KCL	T-N (%)	T-C (%)	C/N	GES me	Ex. base mg/100 g.	11	12	13	14	15			
1.	Trans Tanjung	0 - 17 17+	Lat.	7.10	6.20	0.112	0.79	7.05	7.40	52	10	7.1	2.60	942				
				6.85	5.94	0.078	0.45	5.77	6.80	52	13	5.9	0.80	998				
2.	Trans Budidaya	0 - 21 21+	Lat.	7.20	6.40	0.104	0.85	8.17	7.10	49	12	7.9	2.44	895				
				6.80	5.85	0.085	0.62	7.29	6.80	47	15	6.2	0.76	898				
3.	Tempelrejo	0 - 22 22+	Lat.	6.80	6.50	0.120	0.80	5.67	10.20	96	17	5.7	1.30	1258				
				6.40	5.10	0.089	0.65	7.30	9.80	84	19	4.3	0.45	1340				
4.	Gunung Terang	0 - 18 18+	Lat.	7.20	6.15	0.130	0.84	6.46	10.30	63	18	4.8	2.50	820				
				6.90	5.85	0.075	0.35	4.67	7.10	60	15	4.2	0.94	798				
5.	Sukosari	0 - 16 16+	Pod.	6.10	5.40	0.102	0.78	7.65	8.15	48	13	5.1	1.84	840				
				5.60	4.95	0.065	0.42	6.45	6.92	48	12	6.2	0.92	898				
6.	Tanjung Jaya	0 - 19 20+	Pod.	6.40	5.80	0.108	0.84	7.78	9.20	39	14	7.40	1.88	990				
				5.70	4.85	0.072	0.56	7.78	7.40	43	13	8.1	0.74	870				
7.	Sinar Sari	0 - 20 20+	Pod.	6.25	5.90	0.145	0.72	4.97	8.80	49	15	8.2	1.97	975				
				5.65	4.80	0.042	0.48	11.43	7.45	47	13	7.9	0.48	1024				
8.	Sinar Seputh	0 - 22 22+	Pod.	6.00	5.10	0.154	0.92	5.97	9.20	41	14	8.8	1.42	1045				
				5.20	4.60	0.058	0.44	7.59	7.10	38	12	6.4	0.34	1120				
9.	Sinar Luas	0 - 18 18+	Pod.	5.80	5.00	0.145	0.78	5.38	7.40	38	15	7.7	1.83	998				
				4.95	4.60	0.034	0.32	9.41	6.25	38	15	7.1	0.92	1042				
10.	Adi Luwih	0 - 21 21+	Pod.	6.25	5.10	0.198	0.88	4.44	8.75	41	13	8.9	1.67	1242				
				5.20	4.70	0.081	0.41	5.06	7.00	43	15	7.8	0.72	1381				

11. Bulusari.....

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
11. Bulusari	Gunung Sugih (L.T)	0 - 14 14+	Pod.	5.20 5.40	5.20 4.80	0.190 0.058	1.06 0.61	5.58 10.52	6.04 5.98	22 21	11 12	6.8 5.1	1.20 0.58	975 1042
12. Sri Kencono	Rumbia (L.T)	0 - 13 13+	Pod.	5.80 5.20	4.65 4.15	0.188 0.056	1.44 0.38	7.66 6.79	7.02 6.63	42 43	13 13	7.1 8.4	1.43 0.48	1025 1143
13. Hargomulyo	Sekampung (L.T)	0 - 18 18+	Pod.	6.15 5.70	5.95 5.20	0.199 0.082	1.06 0.62	5.33 7.56	8.82 6.78	52 41	17 14	8.4 7.9	1.40 0.55	994 983
14. Asahan	Jebung	0 - 26 26+	Ret.	7.10 6.75	6.80 6.35	0.196 0.084	1.02 0.74	5.20 8.81	9.28 8.74	33 30	12 11	5.8 6.1	0.82 0.23	840 900
15. Labuhan Ratu	Way Jepara (L.T)	0 - 17 17+	Pod.	5.50 5.40	4.45 4.20	0.114 0.066	0.92 0.54	8.07 9.64	11.21 10.78	49 49	11 12	7.2 6.1	0.60 0.36	1020 1120
16. Dono Mulyo	Sukedana (L.T)	0 - 18 18+	Pod.	6.10 5.80	5.75 5.60	0.108 0.042	0.88 0.61	8.15 14.52	12.03 12.00	38 36	13 12	9.2 6.3	0.50 0.35	990 890
17. Sukameju	Abung Selatan (L.U)	0 - 16 16+	Pod.	5.85 4.90	5.10 4.70	0.099 0.045	0.72 0.41	7.27 9.11	9.94 10.72	41 42	9 8	7.8 5.5	0.46 0.25	1150 1140
18. Semuli Raya	Abung Selatan (L.U)	0 - 17 17+	Pod.	5.90 4.80	5.00 4.70	0.114 0.082	0.78 0.43	6.84 5.24	8.84 8.89	38 36	10 9	6.6 2.4	0.58 0.15	1320 1280
19. Kembeng Tanjung	Abung Selatan (L.U)	0 - 15 15+	Pod.	5.70 5.10	4.85 4.20	0.122 0.068	0.86 0.51	7.05 7.50	9.77 8.98	21 23	13 14	7.8 4.6	0.50 0.20	1130 1140
20. Tanjung Iman	Abung Selatan (L.U)	0 - 18 18+	Pod.	5.55 5.15	4.80 4.25	0.102 0.065	0.850 0.078	8.33 12.00	11.58 6.45	60 42	11 10	6.3 4.2	0.4 0.5	1148 1282
21. Bali Sedar	Banjit (L.U)	0 - 23 23+	Pod.	5.00 4.70	4.50 4.10	0.094 0.082	0.74 0.38	7.87 7.31	8.54 5.72	54 43	9 8	7.1 4.8	0.7 0.6	988 1047
22. Campur Atri	Baradatu (L.U)	0 - 19 19+	Pod.	5.50 4.80	4.70 4.60	0.112 0.074	0.75 0.48	6.70 6.49	9.44 6.72	65 59	8 9	8.3 6.2	0.8 0.5	934 982
23. Setia Negara	Baradatu (L.U)	0 - 18 18+	Pod.	5.70 5.00	4.75 4.60	0.114 0.068	0.94 0.58	8.25 8.53	8.82 6.74	72 58	13 11	11.3 10.0	0.7 0.8	944 958
24. Klanten	Penengahan (L.S)	Top.	Lat.	5.00	4.70	0.188	1.44	7.66	18.00	64	26	16.5	0.9	1420
25.	Pasuruhan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
25.	Pesuruhan	Penengahan (L.S.)	Top.	Lat.	6.10	5.40	0.174	1.16	6.67	18.00	58	42	15.7	0.6	7480
26.	Gurung Sari	Kedondong (L.S.)	Top	Lat	5.80	5.00	0.173	1.18	8.86	10.30	54	31	10.4	0.5	1170
27.	Wargo Mulyo	Pardaula (L.S.)	Top	All	5.20	5.20	0.185	1.04	6.30	10.40	62	15	8.2	0.7	1284
28.	Campang	Talang Padang (L.S.)	Top	Lat	6.00	5.15	0.182	1.15	6.32	10.35	79	12	15.5	0.8	1228
29.	Negeri Ratu	Kota Agung (L.S.)	Top	Lat	5.80	5.10	0.178	1.21	6.80	14.40	80	16	8.3	1.0	1240
30.	Hargo Mulyo	Sekampung (L.T.)	Top	Pod	6.30	5.00	0.142	1.22	8.50	14.20	72	21	6.7	0.9	1222
31.	Batang Marjo	Batang Hari (L.T.)	Top	Pod.	6.00	5.20	0.153	1.25	8.17	13.50	58	21	9.4	0.7	1218
32.	Banjoto	Batang Hari (L.T.)	Top	Pod	6.20	5.50	0.123	0.92	7.48	16.00	104	24	13.4	0.9	1387
33.	Totokaton	Punggur (L.T.)	Top	Pod	6.00	5.50	0.194	0.99	5.10	17.30	98	58	10.2	0.7	1482
34.	Rukti Marjo	Sepuluh Raman (L.T.)	Top	Pod	6.00	5.15	0.112	1.14	10.18	15.40	72	35	8.9	0.8	1300
35.	Rejabinangun	Raman Utara (L.T.)	Top	Pod	5.80	4.90	0.154	1.23	7.90	16.83	84	23	8.2	0.6	1172
36.	Braja Asri	Way Jepara (L.T.)	Top	Pod	6.20	5.15	0.172	1.45	8.43	17.45	56	42	13.5	0.5	1346
37.	Sukaburo	Sumber Jaya (L.U.)	Top	Lat	5.95	4.80	0.145	1.62	11.17	15.50	72	27	9.9	0.8	1133
38.	Pujudadi	Pardaula	Top	All	6.10	4.55	0.152	1.14	7.5	12.37	68	51	8.7	0.9	146

**Table 7: Pest and Disease Control Equipment
Delivered for Protection Brigade.**

No.	Brigade Unit of Plant Protection	Kind of equipment	Brand	Amount	Remark
1.	Province	— Hand sprayer SA-10S	Arimatsu	36	For Protection Brigade Team
		Power sprayer US-34	"	6	
		Mist blower MD-40DE	"	3	
		Plastic poil	"	3	
		Racumin	"	100 kg	
2.	Province	— Power sprayer CS-34-MK	Arimatsu	3	For prize winner of INSUS group, Planting season 1979
3.	South Lampung	— Hand sprayer SA-10S	Arimatsu	36	For Protection Brigade Team
		Power sprayer US-34	"	6	
		Mist blower MD-40DE	"	3	
		Plastic poil	"	3	
		Racumin	"	100 kg	
4.	Central Lampung	— Hand sprayer SA-10S	Arimatsu	36	For Protection Brigade Team
		Power sprayer US-34	"	6	
		Mist blower MD-40DE	"	3	
		Plastic poil	"	3	
		Racumin	"	100 kg	
5.	North Lampung	— Hand sprayer SA-10S	Arimatsu	36	For Protection Brigade Team.
		Power sprayer US-34	"	6	
		Mist blower MD-40DE	"	3	
		Plastic poil	"	3	
		Racumin	"	100 kg	

Source : Lampung Tani Makmur Project.

Table 8: List of Farm Machineries and Equipments Distribution on Lowland Farms and its Condition

No.	KECAMATAN/DESA	HAND TRAKTOR		HAND SPRA-YER		MIST BLOWER		POWER SPRAYER		PEDAL THRESHER		AUTOMAT THRESHER		PLANTER		WINNOWER		RICE MILL		CORN SHELLER		SCALE		ARIT		LAND DAK		AREA (HA)		PRODUCTION (KG/HA)				
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
I.	BATANG HARI:																																	
1.	Bumi Harjo	60% 1pc	60% 3pc	60% 1pc	75% 1pc	75% 1pc											70% 1pc															4500/ha		
2.	Bumi Mas		60% 1pc		60% 2pc																											6500/ha		
3.	Tlogorejo		50% 2pc		75% 1pc																											6000/ha		
4.	Banar Jovo	60% 1pc	60% 2pc	damaged	70% 1pc													70% 1pc														6500/ha		
5.	Bale Rejo		2pc															80% 1pc														6500/ha		
			60% 1pc		75% 1pc																													
II.	SEPUTIH RAMAN :																																	
6.	Rama Utama	60% 1pc	75% 5pc																														4500/ha	
7.	Rejo Basuki	70% 1pc	80% 2pc																														?	
8.	Rama Gunawan	60% 2pc	60% 4pc		60% 1pc																												5000/ha	
9.	Rejo Asri	50% 1pc	75% 4pc																														4500/ha	
10.	Rukti Harjo		70% 2pc	damaged																													3000/ha	
				1pc																														
III.	RAMAN UTARA :																																	
11.	Rejo Ginangun	60% 1pc	70% 4pc																															7500/ha
12.	Retna Dava		70% 2pc																															3000/ha
13.	Raman Aji		70% 4pc																															5500/ha
14.	Rukti Sediyo	70% 1pc	80% 4pc																														5100/ha	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
IV. METRO																	
15. Ganjar Agung						75% 1pc							75% 1pc	used 3pc		23	4000/ha
16. Tojo Sari		70% 1pc	60% 3pc			60% 1pc							70% 1pc	60% 5pc	damaged 2pc	25	5000/ha
17. Margo Rejo		damaged 1pc	60% 3pc			70% 1pc		70% 1pc					70% 1pc	70% 5pc	damaged 5pc	25	4000/ha
18. Hadi Mulyo		75% 1pc	60% 1pc	70% 1pc		70% 1pc		70% 1pc			new 1pc		75% 1pc	70% 4pc	60% 6pc	27	4600/ha
19. Yosodadi			90% 1pc			70% 1pc							70% 1pc	damaged 1pc	2pc	21,5	7000/ha
V. PURBOLINGGO																	
20. Totomulyo			70% 1pc			damaged 1pc									damaged 12pc	26	4500/ha
21. Totoharjo		70% 1pc	70% 4pc											50% 5pc	45% 11pc	27	3000/ha
22. Taman Fajar		70% 1pc	75% 3pc											50% 5pc	damaged 2pc		
23. Tanjung Kesuma			75% 4pc											50% 5pc	60% 3pc	27	4500/ha
															damaged 7pc	23,25	3000/ha
VI. SUKARAJA NUBAN																	
24. Sukaraja Nuban			60% 5pc			70% 1pc							70% 1pc	used 5pc		20	2500/ha
25. Purwasari		1pc	3pc		1pc	2pc							1pc	5pc	13pc	24	5000/ha
26. Kediston		B.S. 2pc	70% 3pc										70% 1pc		damaged 8pc	27	5000/ha

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
VII. SIKAMPUNG :																	
27.	Sumbergede		damaged 1pc			1pc							5pc	2pc	20	2500/ha	2500/ha
28.	Harjo Muljo	damaged 1pc	60% 2pc sone 2pc			1pc			1pc			1pc	5pc	5pc	23	4000/ha	
29.	Wonokarto		2pc damaged										5pc	5pc	23	?	
30.	Sidadadi		1pc sone 2pc			1pc						1pc	5pc	12pc	24,5	4000/ha	
VIII. TRIMURJO :																	
31.	Purwodadi	60% 1pc			60% 1pc							70% 1pc			26	?	
32.	Purwoadi	had. 1pc	70% 1pc						90% 1pc			90% 1pc	60% 10pc	50% 2pc	27	6750/ha	
33.	Tempuran	60% 1pc	70% 1pc			70% 2pc	80% 1pc		80% 1pc	new 1pc		70% 1pc	40% 2pc		27	2500/ha	
IX. PUNGUR :																	
34.	Totokaton	70% 8pc	60% 2pc		60% 1pc	70% 2pc	damaged 2pc		70% 2pc	1pc		70% 2pc	10pc	52pc	100	5000/ha	
35.	Ngastihayu		50% 1pc			70% 1pc						70% 12pc	20% 3pc			4500/ha	
36.	Astomulyo		50% 4pc													4000/ha	
37.	Sumber Rejo	70% 1pc	70% 1pc			70% 1pc			70% 1pc			70% 1pc	50% 1pc			4500/ha	

Table 9: List of Farm Machineries and Equipments

No.	Kecamatan/Desa	Hand Trekter	Hand Sprayer	Mist Blower	Power Sprayer	Pedal Thresher	Auto max Thresher	Winnow R.M.U.	Corn Sheller	'Scale	Arit	Area	Production Kg/Ha	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	14
I. NATAR :														
1.	Sukebandung	60%	50%	new		70%		70%		70%		132	2500/Ha	
2.	Kaduyang		70%									46,25	2200/Ha	
3.	Merek Batin									70%		45	2500/Ha	
4.	Gedung Gumanti		50% 1pc, 60% 1pc			70%						127	3500/Ha	
5.	Kresnawidodo		new 1pc (50%)									105	1800/Ha	
6.	Dumi Agung		60%									50	2000/Ha	
7.	Sukadimal		new, 50% 5pc											
II. KEDATON														
8.	Margo Agung		50% 1pc, 2pc						90%			80	1600/Ha	
9.	Margo Dedi		new 2pc									100	3600/Ha	
III. GEDUNG TATAAN														
10.	Halangan Ratu	60%										77,5	800/Ha	
11.	Kagungan Ratu	100%	50% 1pc, 60% 2pc									67	2500/Ha	
12.	Pejambon		50% 1pc									71	1800/Ha	
IV. SUKOHARJO:														
13.	Welingin Sari													
14.	Dandung Baru													
15.	Enggal Rejo													
16.	Adi Luyih													
V. GUNUNG SUGIH :														
17.	Sikerto		60%		60%	60%		70%		70%		140	1000/Ha	
18.	Bulusari	60%	60%			60%		70%		70%		145	2500/Ha	
19.	Pengas		2 damaged new									25	2000/Ha	
20.	Bumi Rahayu	60%	60%					60%		70%		132	700/Ha	
21.	Bumi Reharjo	60%	60%		60%	50%		60%		70%		143	2200/Ha	
22.	Terb. Subing	60%	60%	60%				60%		80%		141	2850/Ha	
23.	Terb. Agung													
24.	Kesumadadi	60%	60%					70%		70%		110	2500/Ha	
25.	Sukaladi		60%									105	3000/Ha	
26.	Gunung Sugih Kamp.	70%	60%					60%		70%		114	2500/Ha	
27.	Sidowares		60%	New								179	1000/Ha	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
IX.	SUKADANA :													
51.	Donomulyo		70%										110	2300/Ha
52.	Sukareja Nuban			50% 1pc, 60% 5pc									90	1500/Ha
53.	Bumi Jawa	70%	2pc damaged,										65	2500/Ha
			2pc 70%											
54.	Sukadana Ilir	60%	50%										145	2500/Ha
55.	Muara Jawa		30% 3pc, 75% 1pc										73,75	2000/Ha
56.	Gedung Dalam													

Tanjungkarang, Nopember 1979.

M E N G E T A H U I :

Expert Alat-Alat Mesin Pertanian,

Counterpart Alat-Alat Mesin Pertanian;

Daglan Alat-Alat Mesin Pertanian;

MR. S. SUGAWARA,

IR. WAHYU SUBANDRIO,

ALMIZAR ABBAS.

Table 10 : List of Equipments at the Workshop of Lampung Tani Makmur Project
1973 until 1980

NO.	ITEMS	ARRIVED	UNIT	TOTAL	NOTE
1	2	3	4	5	6
1.	Air Compressor IWATA TP 22 N	May	73 SET	1	Workshop ni Makmur Lampung
2.	Hydraulic Press CAP: 50 Ton Banzai HP-50E	Sept.	76 "	1	
3.	Cutter Of Lathe FUJIMI 2712	--	--	1	
4.	Bench Drill BANZAI BE 3602	--	--	1	
5.	Welder Portable DENNYO HENDY ACD - 2306	--	--	1	
6.	Acetylene Gas Generator BANZAI 5-15-K	--	--	1	
7.	Wood Cutter BANZAI 5600 E	--	--	2	
8.	Tool Cabinet BANZAI D-300	--	--	1	
9.	Air Compressor BANZAI CTE222N	Agust. 77	--	1	
10.	Screw Driver BANZAI 75 MM	--	PCS	2	
	-- 100 MM	--	--	2	
	-- 150 MM	--	--	2	
	-- 200 MM	--	--	2	
11.	Stubby Screw Driver BANZAI 6MM	--	--	2	
12.	Stubby Screw Driver BANZAI No. 1 (+)	--	--	2	
13.	Stubby Screw Driver BANZAI NO. 2. 4. 5. MM	--	--	2	
14.	Box Screw Driver BANZAI Sizer 170 mm s/d 250 mm	--	--	8	
15.	Driver Set S-112 A	--	--	1	
16.	Impact Driver Set BANZAI 2800	--	--	1	
17.	Socket Wrench Set 35 - 63 mm	--	--	1	
	-- 9 - 19 mm	--	--	1	
	-- 20 M ½ Unch	--	--	1	
18.	Double Off Set Box, Wrench Set BT - 62 Long	--	--	1	
	BT - 52 Long	--	--	1	
19.	Adjustable Wrench Size 300 MM	--	--	1	
	-- Size 375 MM	--	--	1	
	-- Size 150 MM	--	--	1	
20.	Adjustable Wrench	--	--	1	

1	2	3	4	5	6
21.	Stud Remover ½ Sq 19 MM	Ags. 1977	SET	2	Workshop
22.	Hexagon Wrench AW-70	--	"	2	--
23.	Water pump pliers-1	--	"	2	--
24.	Vice plier Ag-7	--	"	2	--
25.	Snap ring plier S-1	--	"	2	--
26.	Piston ring tool	--	"	2	--
27.	Vice Vv-125	--	"	1	--
	Vv-250	--	"	1	--
28.	Combination plier Type H 26-H-28	--	"	2	--
29.	Diagonal cutting plier	--	"	4	--
30.	Flut chisel Type C-1	--	"	1	--
	Type C-2	--	"	1	--
	Type C-3	--	"	1	--
	Type C-4	--	"	1	--
	Type C-5	--	"	1	--
31.	Center punch Type. 5	--	"	4	--
32.	Fisure punch Type 4	--	"	1	--
	10	--	"	1	--
33.	Cutter punch Type 5	--	"	1	--
	10	--	"	1	--
34.	Pipe Cutter TFP. 200 W	--	"	1	--
35.	Hand drill	--	"	2	--
36.	Electric drill	--	"	2	--
37.	Drill Chuck DG-b	--	"	5	--
38.	Straight shank Twist	--	"		
	- Drill set HDS 25 MM	--	"	2	--
	- Drill set HDS 29 MM	--	"	2	--
39.	Adjustable reamer Type R 46	--	"	2	--
40.	File set	--	"	2	--
41.	Bench Grinder EBX	--	"	2	--
42.	Grinder stone EBX	--	"	20	--
43.	Electric Hand Drill Type LDV	--	"	2	--
44.	Plastic hammer 25 gram	--	"	10	--
45.	Electric disk grinder -- Type PDA 100 A	--	"	2	--
46.	Tap and die Type M 420	--	"	1	--
47.	Test hammer 130 Gr	--	"	2	--
	450 Gr	--	"	2	--
48.	Cast Iron anvil cap 50 Kg	--	"	2	--
49.	Por Table Hydraulic jack -- MH-10 cap 10 T	--	"	10	--

1	2	3	4	5	6
50.	Por Table screw jack cap 2T	Ag: 1977	SET	10	Workshop
51.	Hydraulic gauge jack MH - 500 M cap 5 ton	--	"	2	--
52.	Out side Micrometer 1525 HB	--	"	1	--
53.	Dial Indikator	--	"	2	--
54.	Magnetic stand HB 13	--	"	2	--
55.	Cylinder gauge BC-30	--	"	1	--
56.	Thicknessgauge 172 MB	--	"	9	--
57.	Out Side Cliper	--	"	3	--
58.	Inside Cliper	--	"	3	--
59.	Steel Square	--	"	2	--
60.	Torque wrench 460 F	--	"	1	--
61.	Hand Tacho Meter HL	--	"	2	--
62.	Val aper Meter EL 64	--	"	1	--
63.	Tire Pressure Gauge	--	"	4	--
64.	Nozzele Tester DT-60	--	"	1	--
65.	Oil Filter Wrench NT-83 A	--	"	1	--
66.	Spray gun with container- W-613-S	--	"	2	--
67.	Hand Press	--	"	1	--
68.	Caddy tool stand RC-102	--	"	5	--
69.	Valve Lifter VI. 500	--	"	1	--
70.	Double paced sled.	--	"	4	--
71.	Coos Pin wrench T-126 MB	--	"	5	--
72.	Tool set CV-301	--	"	4	--
73.	Straight Edge	--	"	1	--
74.	Steel Projector	--	"	1	--
75.	Drum pener spaner	--	"	2	--
76.	Grease gun	--	"	5	--
77.	Wire Boub	--	"	20	--
78.	Tool Tray	--	"	10	--
79.	Engine Cleaning gugin	--	"	2	--
80.	Air Blow gun AC. A	--	"	1	--
81.	Part wasing stand AC-A- WS-25	--	"	1	--
82.	Steam cleaner SW 250 K	--	"	1	--
83.	Iron Bench lever	--	"	1	--
84.	Steel Rude	--	"	1	--
85.	Steel Halding Rulle	--	"	3	--
86.	Conver Measure VR 2	--	"	5	--
87.	Varmier caliper N-20	--	"	2	--
	N-30	--	"	2	--

1	2	3	4	5	6
88.	Cutting Grinder H-12 A	Ags 1977	SET	1	Workshop
89.	Piston vice	--	"	1	--
90.	Piston ring Compressor	--	"	1	--
91.	Carpenters tool MT-1200	--	"	2	--
92.	High pressure guse pump -- KG-KH. Banzai	Agst 1978	"	2	--
93.	High pressure grease pump-- K2-KH	--	"	2	--
94.	Stand Type oil drain model OD. 100	--	"	1	--
95.	Oil Syring OS. 1000	--	"	2	--
96.	Tire Pressure Gauge T-19 D.T-20D	--	"	2	--
97.	Air Impact wrench AW-2000 Banzai	--	"	1	--
98.	Balknkawk prottopower TZ-20 Banzai	--	"	1	Material
99.	Iron anvil AN 70	--	"	2	--
100.	Case Iron sweg Block ISB-45	--	"	2	--
101.	Socket wrench 300 M	--	"	2	--
102.	Cutting grinder HCW-12HT	--	"	1	--
103.	Hard Tool Set with cabinet-- G-5000	--	"	1	--
104.	Speed Vice No. 151	--	"	2	--
105.	Power Press SP-204 Motor 220 50 H	--	"	2	--
106.	Electri planer 136 MM Merk : Hitachi Type : F-40 B No : 190016	Agst. 1979	"	1	Workshop
107.	Electric Sircufar Sow 335 mm Merk : Hitachi Type : PS-13 A No. : 190005	--	"	1	Equipment
108.	Power Spaner K-401-A1 Banzai	Ags 1978	"	1	Workshop
109.	Portable Electric Grinder Merk : Hitachi Type : KBT-10 No :	Ags 1979	"	1	Equipment: Floor Stand: 1 EyeShield: 1 Water Pump: 1 Grinstuns: 10 Grinstunsfi- nis: 10 Pc

1	2	3	4	6	6
	Work Ligh	2 Juny 80	SET	1	For Lampung
	Turret Stop		"	1	Tani Makmur
	Fase Plate 510 Ø	"	"	1	Project.
124.	Spring Hammer Merk/Type	"	"	1	
	Terasawa A. Type No. 2				
	No.....				

**Table 11: Extension materials distributed to RECs
by Tani Makmur Project in cooperation
with the Agricultural Extension Service**

- a). Outline of bibliographical studies on cassava -- a guide to cultivation of cassava -- by Nojima and Hirose (20 copies to PPSs)
- b). Distribution charts of mean annual and monthly precipitation in Lampung Province, by Nishizawa and Sugli (40 copies to PPSs and RECs)
- c). Operational hand book for PPL training at REC
-- sawah rice crop (150 copies to RECs)
- d). Collection of training materials for Plant Protection officers (100 copies to PPSs and RECs).
- e). Collection of training materials for seed production (100 copies to PPSs and RECs).
- f). Collection of training materials for Farm Management (100 copies to PPSs and RECs).
- g). Collection of training materials for Farm Machineries (100 copies to PPSs and RECs)
- h). Collection of training members for After Harvest Activities (100 copies to PPSs and RECs).
- i). Tegineng News No. I, II, III (150 copies to RECs).
- j). Standardization of extension terminology (through copy -- 150 to RECs)
- k). National Key Farmers/Fisherman Convention in Bali, 1980 (through copy -- 150 to RECs)
- l). Results to the meeting of Key Farmers province of Lampung (through copy -- 150 to RECs)
- m). Program Planery Techniques all RECs level (100 copies to RECs)
- n). Program Evaluation all REC level (100 copies to RECs)
- o). Poster (Visit your saung/college for the meeting with PPL) (1500 copies to RECS).
- p). Seal (ditto) 5000pcs to RECs)

Source : DAIMARU -- Extension Expert Tani Makmur Project Lampung, 1979/1980.

**SUPPORTING DATA
FINAL REPORT ON EVALUATION
FOR
LAMPUNG TANI MAKMUR PROJECT**



**THE JAPANESE AND INDONESIAN JOINT EVALUATION TEAM
JAKARTA, JULY 1980**

SUPPORTING DATA
FINAL REPORT ON EVALUATION
FOR
LAMPUNG TANI MAKMUR PROJECT

T a b l e :

1. Development of low land area during Pelita I and Pelita II (1969-1979), Lampung Province.
2. Planting area of food crop in Lampung Province 1977-1979.
3. Harvested area, production and yield rate of food crop in Lampung Province, 1974-1978 (Pelita II).
4. Bimas and Inmas of low land rice, upland rice, secondary crop and vegetable crop in Lampung Province.
5. Bimas/Inmas of secondary crop by commodity in Lampung Province, 1974-1980/81.
6. Export of food crop commodities from Lampung Province.
7. Import of major commodities to Lampung Province 1974-1978.
8. Regional income (based on market price) in 1974 - 1978.
9. GRDP value of carbohydrate and protein per capita, 1977 - 1980 in Lampung Province.
10. Production of food crop per capita in Lampung Province, 1977 - 1980.
11. Labour force on farm agriculture, 1977 - 1980 in Lampung Province.
12. Contribution from the Government of Indonesia to the Lampung Tani Makmur Project.
13. Total value of Japanese Government aids to Lampung Tani Makmur Project 1972/1973 - 1980/81, Fiscal Year.
14. Proposed requirement for F.S. (TMP, 1979/1980).
15. List of seed distribution for lowland F.Y. 1979/1980)
16. Distribution seed of lowland rice, upland rice, and maize, 1978/1979.
17. Monthly rain fall and rainy days in Lampung Province 1972 - 1976 (5 years average)
18. Result of fertilization trial on upland and lowland rice
19. Recommendation of fertilization trial
20. Trial result of plant protection on the upland and lowland areas.
21. Lampung Tani Makmur Project Trial Result, Agronomic Division Fiscal Year 1977/78 - 1979/80.
22. Result of Agriculture Machinery and equipment trial conducted by LTMP, 1978/79 and 1979/80.
23. Using of tractor Lampung Tani Makmur Project, 1973-1980 period.
24. Using of 4 wheel tractor for soil cultivation at Tegineneng center, 1978 - 1980 period.
25. Capital Support of Tani Makmur demfarm.

26. Total Support of pesticide to the low land demfarm 1973-1977/1978.
27. Supporting of Agriculture input to the low land dem farm (1973-1977/1978)
28. Supporting of pest and diseases control equipment to the upland demfarm (planting season 1979/1980).
29. Supporting of pesticide to the upland demfarm 1973/74 - 1977/78.
30. Support of fertilizer to the upland demfarm (1973/74 - 1977/78).
31. Land of Lampung Tani Makmur Project.
32. List of Lampung Tani Makmur Project's building.
33. List of Laboratory equipment of Lampung Tani Makmur Project.
34. List of Agriculture extension inventory of the Lampung Tani Makmur Project.
35. List of Agriculture Equipment inventory.
36. Development of rice mill unit (RMU) Lampung Tani Makmur Project.

C H A R T

- 1. Organization chart of Lampung Tani Makmur Project According to SK of Director General of Food Crop Agriculture.**
- 2. Pest and diseases control organization at dem farm of The Lampung Tani Makmur Project.**

CHART 1 : Organization Chart of Lampung Tani Makmur Project
 According to SK of Director General of Food Crop Agriculture
 No. SK: LA5 - 78.41

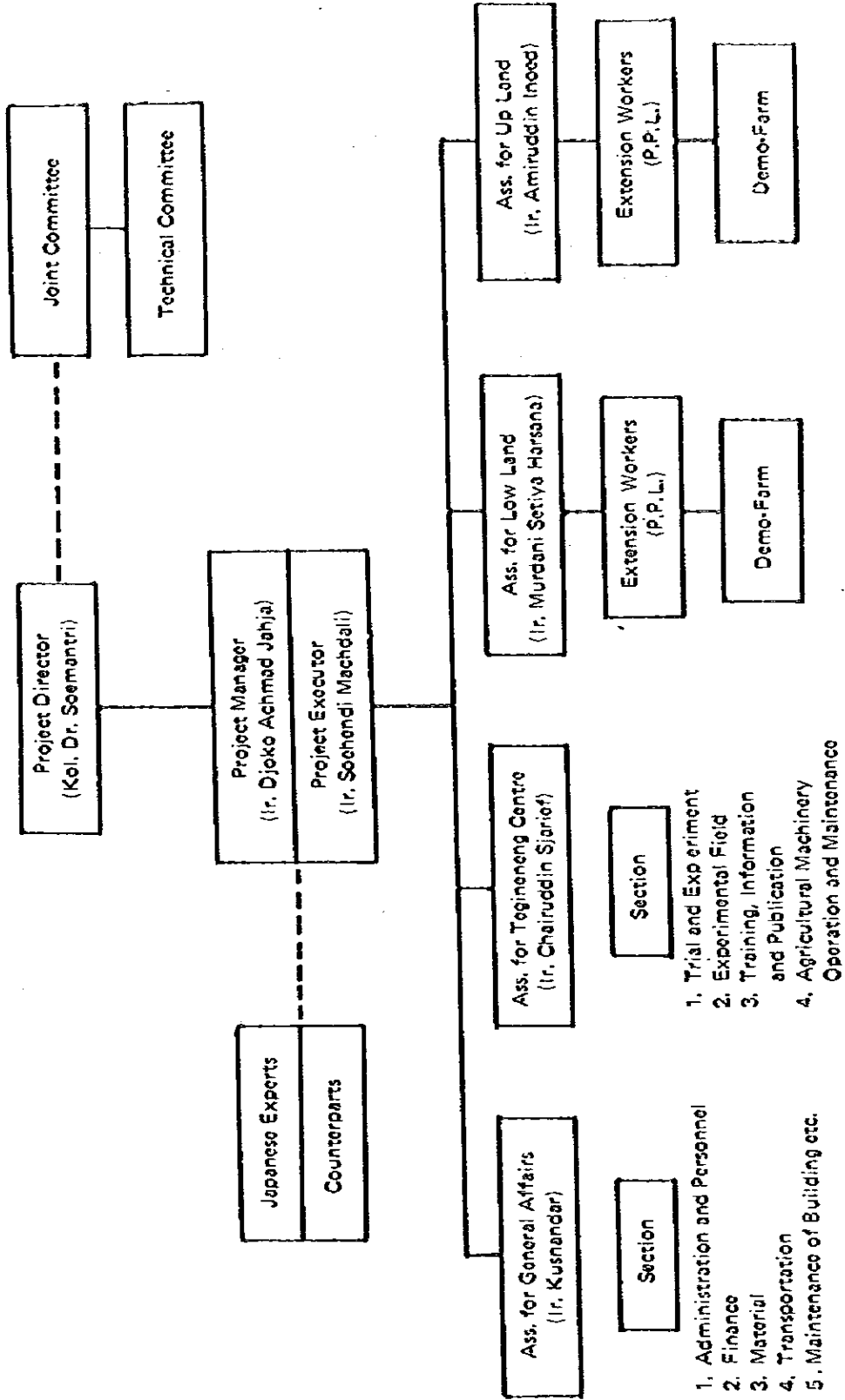


CHART 2. : PEST AND DISEASES CONTROL ORGANIZATION
AT DEM FARM OF THE LAMPUNG TANI MAKMUR PROJECT

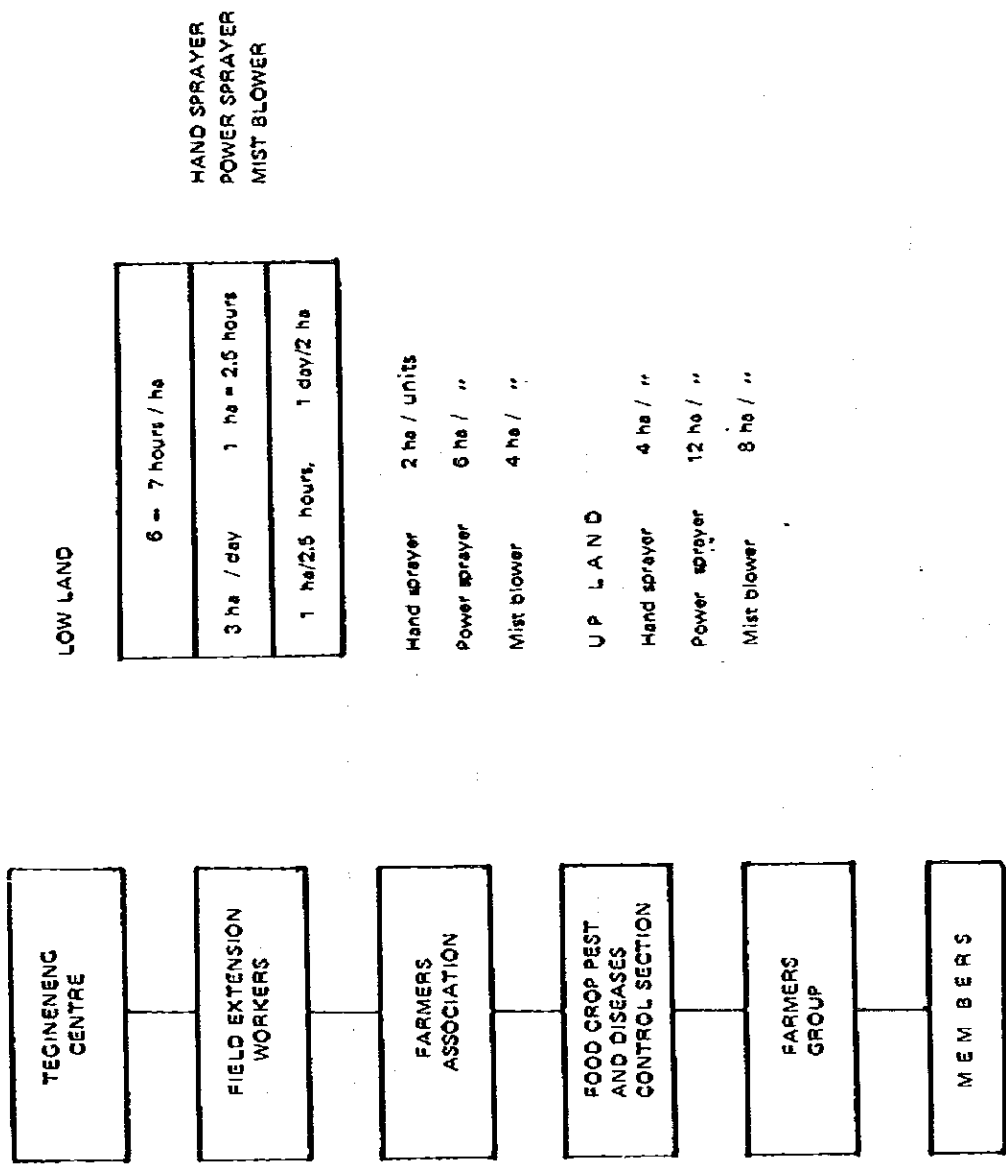


Table 1. : Development of Lowland area during Pelita I and Pelita II (1969-1979) Lampung Province.

YEAR	P.U. IRRIGATION (Ha) *		NON-PU IRRIGATION (Ha)		OTHERS (Ha)		TOTAL of LOWLAND (Ha)	increase (%)
	Technical	Semi-technical	Simple	Sub total	Swamp	tidal		
	irr	irr	irr	total	IRRIGATION (Ha)	PU = NON IRRIGATION (Ha)	Sub total	
Pelita I								
1969	25,578	-	-	25,578	26,862	52,440	13,353	65,793
1970	29,775	-	-	29,775	27,276	57,051	10,956	71,282
1971	30,257.5	-	-	30,257.5	29,658.5	59,916	14,420	77,336
1972	32,000	-	-	32,000	33,027	65,027	14,530	83,431
1973	41,179	-	-	41,179	28,267	69,446	12,291	90,791
Pelita II								
1974	42,851	-	960	43,811	18,023	61,834	24,183	101,703
1975	45,692	-	960	46,652	16,729	63,381	21,902	96,235
1976	47,695	1,822	1,150	50,667	18,125	68,792	27,283	109,090
1977	51,893	2,916	9,029	63,838	7,650	71,488	28,529	117,016
1978	50,583	10,736	5,134	76,453	-	76,453	30,083	128,696

Note : PU irrigation is irrigation maintains and managed by Public Work Service (Government Service).

Source: Agriculture Extension Service, Lampung Province.

Table 2 : Planting area of Food crop
in Lampung Province 1977 - 1979

No.	CROPS	1977	1978	1979
1.	Rice	279.372	264.074	283.498
2.	Maize	52.733	47.799	60.466
3.	Cassava	61.614	84.051	96.401
4.	Sweet potatoes	3.005	3.039	3.109
5.	Peanuts	6.496	9.600	6.925
6.	Soy bean	37.046	26.676	32.575
7.	Mung bean	1.577	1.370	2.236

Source : Agriculture
Extension Service of
Lampung Province.

Table 3 : Harvested area, Production and Yield rate of Food crop in Lampung Province, 1974 - 1979 (Palita I)

No.	C r o p s	1974			1975			1976			1977			1978		
		Harvested area (Ha)	Production (Ton)	Yield (qt/Ha)	Harvested area (Ha)	Production (Ton)	Yield (qt/he)	Harvested area (Ha)	Production (Ton)	Yield (qt/he)	Harvested area (Ha)	Production (Ton)	Yield (qt/he)	Harvested area (Ha)	Production (Ton)	Yield (qt/he)
1.	Hulled rice	221,085	282,218	12,77	237,911	326,113	13,71	228,453	330,278	14,45	252,862	381,626	15,09	259,948	403,884	15,60
2.	Maize	72,575	91,842	12,66	19,051	18,977	9,96	33,217	43,522	13,10	44,208	62,338	14,10	47,434	64,654	13,63
3.	Cassava	54,141	611,672	112,98	60,623	735,243	121,13	59,445	660,987	111,20	71,371	866,091	120,50	78,853	916,270	116,20
4.	Sweet potatoes	2,582	20,248	78,42	2,531	17,311	70,37	2,079	13,841	66,58	3,126	22,906	73,27	2,785	19,331	69,41
5.	Peanuts	4,617	2,892	6,26	6,942	5,114	7,36	5,911	4,779	8,08	5,895	4,012	7,18	8,934	5,355	6,97
6.	Soybeans	52,319	43,197	8,26	36,574	30,804	8,42	30,775	22,946	7,45	31,302	28,056	8,96	37,246	28,369	7,67
7.	Mung beans	1,229	665	5,41	932	592	6,22	901	604	6,70	1,588	1,009	6,35	1,293	724	5,60
8.	Sorghum	490	741	15,12	1,348	2,385	19,20	380	1,023	26,92	360	407	11,30	284	672	17,50
9.	Vegetable	9,671	32,006	33,09	10,864	21,975	20,23	9,872	24,250	24,56	13,346	36,016	26,98	14,417	17,979	12,47
10.	Fruits	25,746	61,747	23,98	27,218	83,345	30,62	24,052	75,452	31,37	24,881	53,984	21,70	6,168	51,303	83,17

Source : Agriculture Extension Service of Lampung Province.

表5. ランポン州におけるビマ・インマス計画の推移
(単位 ha.)

年次 Year	B Lowland rice		C Upland rice		D Secondary crop		E Total		F Lowland rice		G Upland rice		H Secondary crop	
	Target	Realization	Target	Realization	Target	Realization	Target	Realization	Target	Realization	Target	Realization	Target	Realization
	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1974	10,000	9,521,225	-	-	3,700	4,689,690	13,700	14,638,915	5,000	408,95	-	-	3,700	4,689,690
1974/1975	41,000	35,191,815	4,000	3,588,170	9,800	9,403,375	54,800	48,181,390	20,000	14,461,90	4,000	30	2,200	1,342,00
1975	13,500	9,912,080	-	-	8,500	3,586,280	22,000	13,098,330	3,000	11,932,80	-	-	1,500	3,110,47
1975/1976	49,000	28,301,778	6,000	2,702,625	15,600	5,146,180	70,600	36,150,583	32,000	1,719,87	2,800	2,354	3,700	90,10
1976	12,000	7,774,915	-	-	8,500	1,608,16	20,500	9,383,075	3,000	2,617,50	-	-	3,000	6,50
1976/1977	50,000	36,177,960	6,000	294,500	15,500	2,054,25	71,500	38,526,710	32,000	29,440,00	2,800	4,976,00	5,500	1,533,750
1977	12,000	7,674,315	-	-	8,500	365,75	20,000	8,040,065	3,000	9,080,00	-	-	3,000	345,00
1977/1978	51,000	29,990,270	6,000	3,685,210	17,500	2,581,500	74,500	36,156,980	32,000	32,940,25	2,800	10,255,125	3,500	20,469,50
1978	10,000	5,719,640	-	-	5,300	777,50	15,300	5,497,065	7,000	12,363,91	-	-	5,500	2,437,00
1978/1979	37,000	24,126,410	3,000	4,613,50	6,000	1,492,25	46,000	30,232,180	48,000	42,969,52	5,800	17,087,50	8,700	9,261,75
1979	6,000	6,072,395	-	-	6,690	756,45	12,790	6,828,805	11,000	17,120,82	-	-	2,760	1,443,00
1979/1980	36,000	23,536,780	5,000	6,644,50	10,700	1,577,625	51,700	33,578,825	50,000	50,560,00	12,000	23,179,50	16,000	11,823,12
1980	6,500	-	-	-	12,000	-	18,500	-	11,500	-	-	-	3,500	3,500,00
1980/1981	36,500	-	7,000	-	14,800	-	58,300	-	37,600	-	13,450	-	10,300	-

出所

TOTAL INMAS		B I M A S			I N M A S			TOTAL BIMAS & INMAS			NOTE
Target	Realization	Target	Realization	Vegetable	Target	Realization	Vegetable	Target	Realization		
17	18	19	20	20	21	22	23	24	25		
8.700	5.098,640	-	-	-	-	-	-	-	-	-	
26.200	15.883,900	-	-	-	-	-	-	-	-	-	
4.500	16.543,270	-	-	-	-	-	-	-	-	-	
38.500	4.163,970	-	-	-	-	-	-	-	-	-	
6.000	2.624,000	-	-	-	920	290,25	920	290,25	920	290,25	
40.300	35.949,750	-	-	-	1.123	1.123,00	1.123	1.123,00	1.123	1.123,00	
6.000	6.425,000	-	-	-	920	152,75	920	152,75	920	152,75	
38.300	45.241,850	-	-	-	1.123	723,25	1.123	723,25	1.123	723,25	
12.500	14.800,910	-	-	-	1.000	1.116,50	1.000	1.116,50	1.000	1.116,50	
62.500	69.288,770	-	-	-	1.250	1.223,00	1.250	1.223,00	1.250	1.223,00	
13.760	18.563,000	-	-	-	1.100	645,76	1.100	645,76	1.100	645,76	
78.000	85.502,125	-	-	-	1.400	915,50	1.400	915,50	1.400	915,50	
18.500	-	-	-	-	1.250	-	1.250	-	1.250	-	
61.350	-	-	-	-	2.750	-	2.750	-	2.750	-	

Table 5 : Bimas/Inmas of Secondary crop by commodity
in Lampung Province, 1974 - 1980/81

No.	PLANTING SEASON	B I M A S																	
		MAIZE		SORGHUM		CASSAVA		SWEET POTATOES		PEANUTS		SOYBEAN		TOTAL					
		Target	Realiza- tion	Target	Realiza- tion	Target	Realiza- tion	Target	Realiza- tion	Target	Realiza- tion	Target	Realiza- tion	Target	Realiza- tion				
1.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
1.	1974	2,500	2,314	200	178,250	-	-	-	-	-	-	1,000	2,194,375	3,700	4,686,690				
2.	1974/1975	3,500	108,375	1,250	180,250	-	-	-	-	150	1,931,375	4,900	7,203,375	9,900	9,403,375				
3.	1975	4,000	1,152,700	500	120	-	-	-	-	500	618,75	3,500	1,694,75	8,500	3,586,28				
4.	1975/1976	7,000	380,43	1,000	-	-	-	-	-	1,100	1,101,50	6,500	3,744,25	15,600	5,146,18				
5.	1976	4,000	279,66	500	-	-	-	-	-	500	367,00	3,500	952,50	8,500	1,598,66				
6.	1976/1977	7,000	217,75	1,000	-	-	-	-	-	1,000	722,00	6,500	1,114,50	15,500	2,054,25				
7.	1977	4,000	144,75	500	-	-	-	-	-	500	154,50	3,500	66,50	8,500	365,25				
8.	1977/1978	7,000	173,25	1,000	-	2,000	100	-	-	1,000	995,00	6,500	1,313,250	17,500	2,581,50				
9.	1978	2,800	42,00	-	-	-	-	-	-	500	603,50	2,000	132,00	5,300	777,50				
10.	1978/1979	500	210,00	-	-	-	144,25	-	-	1,000	765,25	4,300	303,25	5,000	1,422,75				
11.	1979	2,700	585,75	-	-	-	-	-	-	500	97,50	3,490	76,25	6,690	779,50				
12.	1979/1980	3,000	89,50	-	-	-	-	-	-	1,880	579,875	5,290	908,25	10,700	1,577,625				
13.	1980	7,200	-	-	-	-	-	-	-	300	-	4,500	-	12,000	-				
14.	1980/1981	7,460	-	-	-	-	-	-	-	900	-	6,500	-	14,860	-				

No	PLANTING SEASON	I N M A S												TOTAL		NOTE		
		MAIZE		SORGHUM		CASEAVA		SWEET POTATOS		PEANUT'S		SOY BEAN		TOTAL			DIMAS + INMAS	
		Target	Realization	Target	Realization	Target	Realization	Target	Realization	Target	Realization	Target	Realization	Target	Realization		Target	Realization
1	2	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3
1.	1974	1,000	104	300	-	-	-	-	-	-	-	1,000	-	2,300	404	6,000	5,000,000	
2	1974/1975	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,800	9,403,375	
3	1 1975	-	-	-	-	-	-	-	-	-	-	-	-	1,500	3,110,47	16,000	6,696,750	
4	1974/1976	2,000	84,10	-	-	-	-	-	-	-	500	1,700	5	4,200	502,10	19,800	4,735,200	
5	1 1976	500	5	1,500	-	-	-	-	-	-	1	1,000	0.5	3,000	6.5	11,500	1,004,080	
6	1976/1977	2,000	1,525,75	-	-	2,000	-	-	-	-	-	1,000	0	5,500	1,533,75	21,000	3,508,000	
7	1977	500	300	1,500	40	-	-	-	-	-	5	1,000	-	3,000	345	11,500	770,250	
8.	1977/1978	2,000	926	-	-	-	828,50	-	-	-	51	1,500	221	3,500	2,046,50	21,000	4,628,160	
9	1978	2,700	712	-	-	1,000	1,870	-	-	300	40	2,000	45	5,500	2,173	16,000	2,050,500	
10	1978/1979	4,500	4,105	-	-	2,000	3,320	-	-	200	204	2,000	763,50	9,700	9,201,75	14,500	10,024,250	
11	1979	300	1,130	-	-	1,000	90	-	-	300	136	1,100	72	2,760	1,443	9,450	2,222,500	
12	1979/1980	2,700	6,040	-	-	2,000	3,030,75	-	-	670	300,50	620	300,50	16,000	11,823,125	26,700	13,400,750	
13	1980	800	-	-	-	1,000	-	-	-	200	-	1,500	-	3,500	-	15,500	-	
14.	1980/1981	5,000	-	-	-	3,000	-	-	-	300	-	2,000	-	10,300	-	23,100	-	

Source : Agriculture Extension Service of Lampung Province.

Table 6 : Export of Food crop commodities from Lampung Province
1977 - 1978

COMMODITIES	VOLUME & VALUE											
	1977			1978			1979			1980		
	VOLUME TON	VALUE US.\$	VOLUME TON	VALUE US.\$	VOLUME TON	VALUE US.\$	VOLUME TON	VALUE US.\$	VOLUME TON	VALUE US.\$		
1. MAIZE	3,888,640	440,965,28	2,460,000	275,284,15	1,900,000	204,921,10						
2. CHIPS	141,777,400	10,466,495,77	195,471,610	12,732,802,15	169,919,083	15,779,048,08						
3. TAPIOCA MEAL	-	-	-	-	31,297,898	6,002,232,41	1,630,000	756,250				
4. B R A N	6,334,700	133,726,21	606,530	12,116,82	2,762,251	102,501,37	117,060	4,933				
5. SOY BEANS	-	-	-	-	-	-	-	-				
6. SORGHUM	-	-	178,200	17,925,47	-	-	-	-				
7. CHIPS MEAL	-	-	-	-	-	-	-	-				

Note : Date of 1980 until February 1980

Source : Rept office Dept of Trade of Lampung Province.

Table 7 : Import of Major commodities
to Lampung Province 1974 - 1978

No.	Commodity	Volume: Ton				
		1974	1975	1976	1977	1978
1.	Cement	16,092.5	7,426.3	34,829.40	23,702.4	1,100
2.	Rice	6,739	-	8,700	11,627.2	15,994.9
3.	Asphalt	3,715.8	6,357.2	1,000	2,000	3,494
4.	Fertilizer	10,819.72	26,612.1	8,463.80	8,527.6	20,245.9
5.	Machinery/Heavy Equipments Spare part	3,675.2	1,568.2	5,368.50	5,898.4	-
6.	Wheat Flour	-	-	-	1,043	1,128
7.	Bulgur Wheat	2,793.2	-	-	-	-
8.	Miscellaneous	1,878	14,203.4	1,930.9	-	11,093.7

Source : Port Administrator Panjang.

Table 8 : Regional Income (Based on Market Price)
in 1974 - 1978

No.	Description	1974	1975	1976	1977	1978
1.	Gross Domestic Regional Product (Million rupiahs)	186,226.9	218,332.2	283,228	389,543.4	424,392.4
2.	Depreciations (Million rupiahs)	9,934.9	11,651.6	15,282.6	20,327.0	23,135.2
3.	Net Domestic Regional Product (Million rupiahs)	176,292.0	206,680.6	267,945.4	369,216.4	401,257.2
4.	Net indirect tax	2,039.4	2,617.4	3,055.3	4,202.2	4,578.1
5.	Net Domestic Regional Product based on cost of factor/re- gional income (Million rupiahs)	174,252.6	204,063.2	264,890.1	365,014.2	396,679.1
6.	Midyear population (people) = 1000.	3,032.4	3,227.6	3,437.3	3,767.7	3,763.9
7.	Gross Domestic Regional Product per capita (rupiahs)	61,412.4	67,645.4	82,398.4	105,949.2	112,753.4
8.	Regional income per capita (rupiahs)	57,463.6	63,224.4	77,063.4	99,277.7	105,390.4

Source : The Evaluation of PELITA II, Lampung Province.

Table 9: G R D P Value of Carbohydrat and Protein Per capita, 1977 - 1980
in Lampung Province

No.	Y E A R	G R D P		T O T A L
		VALUE OF CARBOHYDRAT Rp/Capita/Year	VALUE OF PROTEIN Rp/Capita/Year	
1.	1977	9,975	1,751	11,726
2.	1978	9,726	2,004	11,730
3.	1979	13,521	2,383	15,904
4.	1980	14,256	2,735	16,991

Note : - Carbohydrat : rice, maize, root crops
- Protein : beans, nuts

Source : Agriculture Extension Service of Lampung Provinces.

Table 10 : Production of Food crop Per capita
in Lampung Province, 1977 - 1980

NO.	Y E A R POPULATION	COMMODITIES	1977			1978			1979			1980						
			HARVESTED AREA (HA)		PRODUCTION		HARVESTED AREA (HA)		PRODUCTION		HARVESTED AREA (HA)		PRODUCTION					
			Total (ton)	Rate qt.	Total (ton)	Rate qt.	Total (ton)	Rate qt.	Total (ton)	Rate qt.	Total (ton)	Rate qt.	Total (ton)	Rate qt.				
1.	1977 3,707,324	Paddy	252,862	562,870	22,26	151,83	258,948	595,699	23,00	155,92	267,972	623,093	23,25	154,94	271,041	606,581	22,38	143,38
2.	1978 3,820,481	Maize	44,207	62,338	14,10	16,81	47,434	64,654	13,63	16,92	58,928	84,734	14,37	21,08	50,979	66,426	12,84	15,47
3.	1979 4,020,292	Cassava	71,871	866,092	120,51	233,62	78,853	916,270	113,20	239,83	83,826	1020,363	121,72	253,80	84,494	1023,035	121,08	241,82
		Sweet Potatoes	3,126	22,906	73,28	6,18	2,784	19,331	69,44	5,06	3,392	23,083	68,05	5,74	2,364	18,908	79,98	4,47
4.	1980 4,230,553	Peanuts	5,584	4,012	7,18	1,08	8,394	5,855	6,98	1,53	8,566	6,243	7,29	1,55	8,531	6,172	7,24	1,46
		Soybeans	31,302	28,056	8,96	7,57	37,246	28,569	7,67	7,48	35,202	21,411	6,08	5,33	39,224	26,352	6,72	6,23
		Green Beans	1,588	1,008	6,35	0,27	1,293	724	5,60	0,19	2,260	1,689	7,47	0,42	1,342	798	5,95	0,19

Note : Paddy : dried gabuh
Maize : dried grains
Cassava : Wet Toots
Sweet potatoes : Wet roots
Peanuts : dried grain
Green beans : dried grain
Soybean : dried grain

Table 11: Labour Force on Farm Agriculture, 1977 – 1980,
in Lampung Province

No.	YEAR	<u>LABOUR FORCE</u> ON FARM AGRICULTURE	NOTE
1.	1977	3,151,229	Labour force on farm agriculture about 85% of total population.
2.	1978	3,247,409	
3.	1979	3,417,248	
4.	1980	3,595,970	

Source : Agriculture Extension Service of Lampung Province.

Table 12 : Contribution from the Government of Indonesia to the Lampung Tani Makmur Project
x Rp. 1,000,000

No.	I t e m	F i s c a l Y e a r										Sub Total	1980/81	Sub Total	T o t a l
		1972/73	1973/74	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81	1980/81				
1.	W a r e s	428	7,688	15,740	23,331	28,211	24,540	99,936	33,790	30,206	46,485	119,480	219,416		
2.	L a n d	-	4,985	1,800	240	560	740	8,325	903	1,645	3,015	5,563	13,888		
3.	M a t e r i a l s	48	8,051	9,785	16,614	23,362	13,585	71,445	5,997	12,470	15,123	33,590	105,035		
4.	E q u i p m e n t / M a c h i n e r i e s	-	250	3,610	40	-	-	3,900	5,000	-	-	5,000	8,900		
5.	T r a n s p o r t a t i o n & H a n d l i n g C o s t	4,500	13,542	10,705	25,000	22,250	22,905	98,902	27,295	39,470	-	66,765	165,667		
6.	T r a v e l	1,024	3,477	2,495	7,070	8,517	5,070	27,653	7,800	9,825	5,535	23,160	50,813		
7.	C o n s t r u c t i o n	1,700	64,875	65,381	29,910	53,895	14,400	229,261	-	-	-	-	229,961		
8.	O t h e r	-	282	789	200	1,200	13,475	15,946	16,450	25,850	31,445	73,745	89,691		
	T o t a l	7,700	103,148	110,305	102,405	137,795	94,715	556,088	97,235	128,465	107,603	327,303	883,371		

Note : 1) According to the budget description in D.I.P.

Source : Dinas Pertanian Propinsi Dati I Lampung.

Table 13 : Total Value of Japanese Government Aids to Lampung Tani Makmur Project
1972/1973 - 1980/1981 Fiscal Year.

No.	DATE	1972/73	1973/74	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81
1.	17 Mar 73 - 1973	94,396,217	-	-	-	-	-	-	-	-
2.	10 June 74 - 2 Aug. 74	-	92,368,061	-	-	-	-	-	-	-
3.	12 Dec. 75 - 20 Dec. 75	-	-	137,572,593	-	-	-	-	-	-
4.	12 Dec. 76 - Dec. 76	-	-	-	165,635,366	-	-	-	-	-
5.	19 June 77 - 12 Oct. 77	-	-	-	-	233,060,369	-	-	-	-
6.	30 Jan. 78 - 14 July, 78	-	-	-	-	-	77,163,224 *)	-	-	-
7.	1 Jan. 79 - 26 Mart 79	-	-	-	-	-	-	77,084,752	-	-
8.	Local purchases	-	-	-	-	-	-	1,500,000	-	-
9.	26 Mar 1979	-	-	-	-	-	-	-	57,087,253	-
10.	Local purchases	-	-	-	-	-	-	-	1,100,000	-
11.	Next sending (June 80)	-	-	-	-	-	-	-	4,000,000	-
									10,000,000	-
									(addition)	38,000,000
12.	Next sending	-	-	-	-	-	-	-	-	-

Note : *) first phase aids remainder

J/ 988.967.335

Source: Lampung Tani Makmur Project.

Table 14 : Proposed Requirement for F.S. LTMP, 1979/1980

Commodity	Plan of area (Ha)	Plan of activities									
		Planting Season 1979/1980					Planting Season 1980				
		Location	Variety	Area (Ha)	F.S. (Kg)	Time	Location	Variety	Area (Ha)	F.S.	Time
-- Lowland rice	10	Tepine- neng Centre	IR 38	0.5	20	Oct. '79	Tegineneng Centre	IR 32	2	80	April '80
			IR 36	2	80	Oct. '79		Asahan	1	40	April '80
			Asahan	2	80	Oct. '79		IR 38	1	40	April '80
			IR 42	0.5	20	Oct. '79		IR 42	1	40	April '80
-- Secondary Crop	15	Tepine- neng Centre	Soybean	0.5	20	Oct. '79	Tegineneng Centre	Maize	14	490	March '80
			Peanut	0.5	60	Oct. '79					
-- Upland rice	13	Tepine- neng Centre	Gate	0.5	20	Oct. '79					
			Gati	0.5	20	Oct. '79					
			Local	12	-	Oct. '79					

Source : Agriculture Extension Service.

Table 15 : List of Seed Distribution for Lowland F.Y. 1979/1980

C R O P	VARIETY	TOTAL (Kg)	DISTRIBUTED TO
Lowland rice	IR 36	450	Seed grower at Tempuran.
		400	Seed grower at Bumiharjo.
		300	Seed grower at Margorejo.
		50	Seed grower at Metro.
		575	Seed grower at Seputih Jaya.
		200	Farmer's Group Bina Karya.
		800	Seed grower at Ganjar Agung.
		150	Farmer at Raman Utara.
		400	Seed grower at Banar Joyo.
		20	Farmer at Trimurjo.
		95	Farmer at Raman Utara.
		80	Farmer's group Rejo Makmur at Raman Utara.
		240	Farmer's Group Sri Werdi, at Rejobinangun.
		15	Trial at Sri Mulyo.
3.750	Insus of South Lampung.		
GRAND TOTAL		7.525	

Table 16: Distribution Seed of Lowland Rice, Upland Rice, and Maize, 1978/1979

CROP	VARIETY	TOTAL (Kg)	DISTRIBUTED TO
1	2	3	4
1. Lowland rice	IR 26	1,400	— Seed grower Tani Makmur Project Kec. Punggur, Metro, Trimurjo, Batang hari.
		40	— Trial at Tegineneng Centre.
		60	— Fertilizer trial of lowland rice.
	TOTAL	1,500	
	IR 36	850	— Agricultural Machinery Pilot Project, Korem 413 GATAM at Kec. Terbanggi Besar.
		700	— For Demo Farm Tani Makmur Project.
	TOTAL	1,550	
	IR 38	190	— Farmer's at Kec. Natar.
		560	— Transmigration Project, at Kec. Tulang Bawang.
		1,735	— For Dem Bul Kab. Central Lampung.
TOTAL	2,485		
CITARUM	125	— Seed grower Tani Makmur Project.	
	125	— Seed grower at Kec. Trimurjo.	
	50	— Seed grower at Kec. Trimurjo.	
	25	— Seed multiplication at Tegineneng Centre.	
	2,000	— For PUSKUD, Lampung.	
	382	— For Dem Farm Tani Makmur Project.	
TOTAL	2,707		
ASAHAN	763	— For Demo Farm Tani Makmur Project.	
	100	— For Agriculture Extension Service.	
TOTAL	863		

1	2	3	4
	SERAYU	476	— Seed grower Tani Makmur Project at Kec. Metro.
		476	— Seed grower at Kec. Punggur & Raman Utara.
		250	— Seed grower at Kec. Raman Utara.
		40	— Seed grower at Kec. Punggur.
		225	— Seed grower at Kec. Punggur.
		117	— For seed multiplication at Tegineneng Centre.
	TOTAL	1.400	
2. Upland rice	BICOL	410	— For Dem Farm at Kec. Natar.
		320	— For Farmer in Tanjung Karang.
		75	— Variety trial.
		45	— Seed multiplication at Tegineneng Centre.
		300	— Seed Farm at Kec. Kota Bumi.
		18	— Trial For UNILA.
		300	— For Demo Farm Tani Makmur Project.
	TOTAL	1.468	

1	2	3	4
SIRENDAH	615		– Seed grower Tani Makmur Project.
	2.000		– Transmigration Project Tulang Bawang.
	182		– Seed multiplication at Tegineneng Centre.
	77		– Demonstration at Bangunrejo.
	159		– For Demo Farm Tani Makmur Project.
	5		– Trial LP3, Bogor.
	40		– Plant Protection Trial.
	4.694		– For Farmers Demo Farm Tani Makmur Project.
TOTAL	7.772		

CARTUNA	175		– Farmer Demo Farm at Kec. Gunung Sugih.
	1.000		– Transmigration Project Tulang Bawang.
	200		– PT Labuhan Ratu at Kec. Natar.
	10		– Trial at Tegineneng Centre.
	50		– Plant Protection Trial at Rumbia.
	25		– Farmer at Masgar.
TOTAL	1.460		

1	2	3	4
	SERATUS		
	MALAM	400	- Farmer at Kec. Padang Ratu.
		310	- Trial FAO.
		200	- PT Labuhan Ratu.
		4.025	- Transmigration Project Tulang Bawang
		112	- Variety & Fertilizer Trial.
	TOTAL	5.047	
	CEMPO-		
	TURI	1.000	- Transmigration Tulang Bawang.
		50	- Seed multiplication at Tegineneng Centre.
		312	- For Demo Farm Tani Makmur Project.
	TOTAL	1.362	
	SIRIRANG	305	- Seed grower Tani Makmur Project at Natar.
		2.117	- Transmigration Project Tulang Bawang.
		180	- Seed multiplication at Tegineneng Centre.
		300	- For Demo Farm Tani Makmur Project.
	TOTAL	2.902	

1	2	3	4
3. MAIZE	H. 6.	705	-- Farmers Demo Farm Kec. Natar, Gunung Sugih, & Sukoharjo.
		5.400	-- Transmigration Project Tulang Bawang & Kalianda.
		2.000	-- PT LAKA UTAMA in Tanjung Karang.
		825	-- PT Multi Agro at Kec. Terbanggi Besar.
		1.250	-- For PT Mitsugoro
		625	-- For PT Silajaya.
		250	-- For Agriculture Extension Service.
		50	-- For seed farm Tanjung Ratu.
		154	-- For trial
		1.000	-- For farmer out side of Demo farm.
	TOTAL	12.259	

Source : Lampung Tani Makmur Project (L.T.M.P.).

Table 17 : Monthly Rain Fall and Heavy Days in Lamouny Province
1972 - 1976 (5 years average)

YEAR	January	February	Mar	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Total
	mm . days	mm . days	mm . days	mm . days	mm . days	mm . days	mm . days	mm . days	mm . days	mm . days	mm . days	mm . days	mm . days
1972	404 10	236 14	336 14	178 10	139 10	41 3	14 2	30 3	7 2	31 2	147 8	273 12	1857 98
1973	204 10	304 14	292 14	126 10	262 12	174 11	77 4	103 0	258 14	165 11	200 11	280 12	2330 130
1974	145 10	244 12	224 10	155 7	138 6	110 7	105 6	156 9	246 11	152 8	264 13	230 14	2145 119
1975	303 15	290 14	290 12	256 12	184 8	119 5	122 10	126 8	172 10	246 12	200 10	210 12	2494 128
1976	246 16	222 11	203 10	168 10	97 6	41 4	92 5	112 6	40 3	176 10	276 12	284 12	2040 111
Average	265 14	260 13	274 14	170 10	164 0	90 6	82 5	118 7	144 8	150 8	217 10	256 12	2239 117

Note : Average of all rain fall sub station managed by Agriculture Extension Service.

Source : Agriculture Extension Service of Lamouny Province.

Table 18 : Result of Fertilization Trial on Upland and Lowland Rice.

No.	Kind of Trial	Location			Planting Season	Conclusion	Note
		District	Sub District	Village			
		3	4	5			
1					7	8	
1.	Fertilization doses for up-land rice	North Lampung	Abung Selatan	Sukamaju	78/79	<p>Optimum doses of fertilizer are as follow</p> <p>Bicolor variety : N = 69 kg/Ha P₂O₅ = 45 kg/Ha</p> <p>Seratus malam variety : N = 48 kg/Ha P₂O₅ = 45 kg/Ha</p>	<p>Yield : 2.277 t/Ha</p> <p>Yield : 2.223 t/Ha</p>
2.	Fertilization doses for up-land Rice	North Lampung	Boradatu	Setia Negeri	78/79	<p>Optimum doses of fertilizer are as follow</p> <p>Bicolor variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Seratus malam variety : N = 69 kg/Ha P₂O₅ = 45 kg/Ha</p>	<p>Yield : 2.057 t/Ha</p> <p>Yield : 2.943 t/Ha</p>
3.	Fertilization doses for Up-land Rice	Central Lampung	Sekempung	Hargo Mulyo	78/79	<p>Optimum doses of fertilization are as follow :</p> <p>Bicolor variety : N = 92 kg/Ha P₂O₅ = 45 kg/Ha</p> <p>Seratus malam variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p>	<p>Yield : 3.057 t/Ha</p> <p>Yield : 2.543 t/Ha</p>

2	3	4	5	6	7	8
4. Fertilization doses for Up-land Rice	Central Lampung	Mangun-rejo	Sinar Sapatih	78/79	Optimum doses of fertilizer are as follow: Bicolor variety : N = 69 kg/Ha P ₂ O ₅ = 67,5 kg/Ha Seratus malam variety : N = 69 kg/Ha P ₂ O ₅ = 67,5 kg/Ha	Yield = 2,250 t/Ha Yield = 3,017 t/Ha
5. Fertilization doses for Up-land Rice	Central Lampung	Kalirejo	Sinar Sari	78/79	Optimum doses of fertilizer are as follow: Bicolor variety : N = 69 kg/Ha P ₂ O ₅ = 67,5 kg/Ha Seratus malam variety : N = 69 kg/Ha P ₂ O ₅ = 67,5 kg/Ha	Yield = 2,277 t/Ha Yield = 2,443 t/Ha
6. Fertilization doses for Up-land Rice	Central Lampung	Way Jepara	Labuhan Ratu	78/79	Optimum doses of fertilizer are as follow: Bicolor variety : N = 69 kg/Ha P ₂ O ₅ = 67,5 kg/Ha Seratus malam variety : N = 69 kg/Ha P ₂ O ₅ = 67,5 kg/Ha	Yield = 2,757 t/Ha Yield = 2,600 t/Ha
7. Fertilization doses for Up-land Rice	Central Lampung	Rumbia	Reno Basuki	78/79	Optimum doses of fertilizer are as follow: Bicolor variety : N = 69 kg/Ha P ₂ O ₅ = 45 kg/Ha Seratus malam variety : N = 69 kg/Ha P ₂ O ₅ = 67,5 kg/Ha	Yield = 1,435 t/Ha Yield = 1,477 t/Ha

1	2	3	4	5	6	7	8
8.	Fertilization doses for Upland Rice	South Lampung	Ketibung	Trans Tanjung	78/79	Optimum doses of fertilizer are as follow : Bicolor variety : N = 69 kg/Ha P ₂ O ₅ = 67,5 kg/Ha Seratus malam variety : N = 69 kg/Ha P ₂ O ₅ = 67,5 kg/Ha	Yield = 4,433 t/Ha Yield = 3,333 t/Ha
9.	Fertilization doses for Upland Rice	South Lampung	Kedondong	Tempelrojo	78/79	Optimum doses of fertilizer are as follow : Bicolor variety : N = 69 kg/Ha P ₂ O ₅ = 45 kg/Ha Seratus malam variety : N = 69 kg/Ha P ₂ O ₅ = 45 kg/Ha	Yield = 1,863 t/Ha Yield = 2,110 t/Ha
10.	Fertilization doses for Upland Rice	South Lampung	Pardasuko	Wergamulyo	78/79	The optimum doses of fertilizer are as follow : Bicolor variety : N = 69 kg/Ha P ₂ O ₅ = 45 kg/Ha Seratus malam variety : N = 69 kg/Ha P ₂ O ₅ = 45 kg/Ha	Yield = 2,684 t/Ha Yield = 2,344 t/Ha
11.	Fertilization doses for Upland Rice	North Lampung	Baredatu	Campur Asri	78/80	The optimum doses of fertilizer are as follow : Bicolor variety : N = 69 kg/Ha P ₂ O ₅ = 67,5 kg/Ha Seratus malam variety : N = 46 kg/Ha P ₂ O ₅ = 45 kg/Ha	Yield = 2,543 t/Ha Yield = 2,667 t/Ha

1	2	3	4	5	6	7	8
12.	Fertilization doses for Up-land Rice	North Lampung	Banjit	Gali Sadar	79/80	<p>The optimum doses of fertilizer are as follow :</p> <p>Bicolor variety : N = 69 kg/Ha P₂O₅ = 45 kg/Ha</p> <p>Seratus malam variety : N = 69 kg/Ha P₂O₅ = 45 kg/Ha</p>	<p>Yield = 2,243 t/Ha</p> <p>Yield = 2,577 t/Ha</p>
13.	Fertilization doses for Up-land Rice	North Lampung	Abung Selatan	Sukomaju	78/80	<p>The optimum doses of fertilizer are as follow :</p> <p>Bicolor variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Seratus malam variety : N = 46 kg/Ha P₂O₅ = 45 kg/Ha</p>	<p>Yield = 2,567 t/Ha</p> <p>Yield = 3,167 t/Ha</p>
14.	Fertilization doses for Up-land Rice	Central Lampung	Sekampung	Mergomulyo	79/80	<p>The optimum doses of fertilizer are as follow :</p> <p>Bicolor variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Seratus malam variety : N = 46 kg/Ha P₂O₅ = 45 kg/Ha</p>	<p>Yield = 2,223 t/Ha</p> <p>Yield = 2,250 t/Ha</p>
15.	Fertilization doses for Up-land Rice	Central Lampung	Bangun-rejo	Tanjung Java	79/80	<p>The optimum doses of fertilizer are as follow :</p> <p>Bicolor variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Seratus malam variety : N = 46 kg/Ha P₂O₅ = 45 kg/Ha</p>	<p>Yield = 2,610 t/Ha</p> <p>Yield = 2,223 t/Ha</p>

1	2	3	4	5	6	7	8
16.	Fertilization doses for Upland Rice	Central Lampung	Kalirejo	Sukasari	79/80	<p>The optimum doses of fertilizer are as follow :</p> <p>Bicol variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Seratus malam variety : N = 69 kg/Ha P₂O₅ = 45 kg/Ha</p>	<p>Yield = 2,210 t/Ha</p> <p>Yield = 2,223 t/Ha</p>
17.	Fertilization doses for Upland Rice	Central Lampung	Jabung	Asahan	79/80	<p>The optimum doses for fertilizer are as follow :</p> <p>Bicol variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Seratus malam variety : N = 69 kg/Ha P₂O₅ = 45 kg/Ha</p>	<p>Yield = 5,890 t/Ha</p> <p>Yield = 6,333 t/Ha</p>
18.	Fertilization doses for Upland Rice	Central Lampung	Way Jepara	Labuhan Ratu	79/80	<p>The optimum doses of fertilizer are as follow :</p> <p>Bicol variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Seratus malam variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p>	<p>Yield = 2,167 t/Ha</p> <p>Yield = 2,111 t/Ha</p>
19.	Fertilization doses for Upland Rice	Central Lampung	Rumbia	Sri Koncono	79/80	<p>The optimum doses of fertilizer are as follow :</p> <p>Bicol variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Seratus malam variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p>	<p>Yield = 1,910 t/Ha</p> <p>Yield = 1,640 t/Ha</p>

1	2	3	4	5	6	7	8
20.	Fertilization doses for Upland Rice	South Lampung	Pardasuka	Guhung Tarang	79/80	<p>The optimum doses of fertilizer are as follow :</p> <p>Bicol variety : N = 69 kg/Ha P₂O₅ = 45 kg/Ha</p> <p>Seratus malam variety : N = 69 kg/Ha P₂O₅ = 45 kg/Ha</p>	<p>Yield = 2,750 t/Ha</p> <p>Yield = 2,499 t/Ha</p>
21.	Fertilization doses for Upland Rice	South Lampung	Kedondong	Tempelrejo	79/80	<p>The optimum doses of fertilizer are as follow :</p> <p>Bicol variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Seratus malam variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p>	<p>Yield = 2,083 t/Ha</p> <p>Yield = 2,083 t/Ha</p>
22.	Fertilization doses for Upland Rice	South Lampung	Ketibung	Trens Tanjung	79/80	<p>The optimum doses of fertilizer are as follow :</p> <p>Bicol variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Seratus malam variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p>	<p>Yield = 4,667 t/Ha</p> <p>Yield = 2,999 t/Ha</p>
23.	Fertilization doses for Upland Rice	South Lampung	Pardasuka	Wargomulyo	78/79	<p>The optimum doses of fertilizer are as follow :</p> <p>IR 26 variety : N = 92 kg/Ha P₂O₅ = 45 kg/Ha</p> <p>Ashah variety : N = 92 kg/Ha P₂O₅ = 45 kg/Ha</p>	<p>Yield = 5,500 t/Ha</p> <p>Yield = 4,350 t/Ha</p>

1	2	3	4	5	6	7	8
24.	Fertilization doses for Upland Rice	South Lampung	Kedondong	Siddadi	78/79	<p>The optimum doses of fertilizer are as follow :</p> <p>IR 26 variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Asahan variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p>	<p>Yield = 4,540 t/Ha</p> <p>Yield = 6,040 t/Ha</p>
25.	Fertilization doses for Upland Rice	South Lampung	Penerangan	Klaton	78/79	<p>The optimum doses of fertilizer are as follow :</p> <p>IR 26 variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Asahan variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p>	<p>Yield = 4,235 t/Ha</p> <p>Yield = 4,965 t/Ha</p>
26.	Fertilization doses for Upland Rice	Central Lampung	Way Jepara	Breja Indah	78/79	<p>The optimum doses of fertilizer are as follow :</p> <p>IR 26 variety : N = 69 kg/Ha P₂O₅ = 45 kg/Ha</p> <p>Peita I/1 variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>PB 5 variety : N = 69 kg/Ha P₂O₅ = 45 kg/Ha</p>	<p>Yield = 4,800 t/Ha</p> <p>Yield = 6,115 t/Ha</p> <p>Yield = 6,415 t/Ha</p>

1.	2	3	4	5	6	7	8
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27.	Fertilization doses for Upland Rice	Central Lampung	Way Jepara	Braja Ari	78/79	<p>The optimum doses of fertilizer are as follow :</p> <p>IR 26 variety :</p> <p>N = 69 kg/Ha P₂O₅ = 67.5 kg/Ha</p> <p>Ashan variety :</p> <p>N = 69 kg/Ha P₂O₅ = 67.5 kg/Ha</p>	<p>Yield = 4,785 t/Ha</p> <p>Yield = 4,985 t/Ha</p>
28.	Time of Nitrogen Fertilization Lowland Rice (IR 26)	Central Lampung	Way Jepara	Braja Indah	78/79	<p>The effective time of application of Nitrogen fertilizer are as follow : Basal fertilizer = 3 days after transplanting (15%) First Top Dressing = 15 days after transplanting (25%) Second Top Dressing = 40 days after transplanting (45%) Third Top Dressing = 60 days after transplanting (15%)</p>	<p>Variety = IR 26</p> <p>Doses = N = 92 kg/Ha P₂O₅ = 45 kg/Ha</p> <p>Yield = 5,057 t/Ha</p>

1	2	3	4	5	6	7	8
29.	Fertilization doses for Low-land Rice	Central Lampung	Sekampung	Hargomulyo	78/79	<p>The optimum doses of fertilizer are as follow:</p> <p>IR 26 variety: N = 69 kg/Ha P₂O₅ = 67.5 kg/Ha</p> <p>Ashah variety: N = 69 kg/Ha P₂O₅ = 67.5 kg/Ha</p>	<p>Yield = 4,560 t/Ha</p> <p>Yield = 6,815 t/Ha</p>
30.	Fertilization doses for Low-land Rice	South Lampung	Talang Padang	Campang	79/80	<p>The optimum doses of fertilizer are as follow:</p> <p>IR 36 variety: N = 69 kg/Ha P₂O₅ = 45 kg/Ha</p> <p>Ashah variety: N = 69 kg/Ha P₂O₅ = 45 kg/Ha</p>	<p>Yield = 5,665 t/Ha</p> <p>Yield = 6,250 t/Ha</p>
31.	Fertilization doses for Low-land Rice	South Lampung	Kedondong	Gunung Asri	79/80	<p>The optimum doses of fertilizer are as follow:</p> <p>IR 36 variety: N = 69 kg/Ha P₂O₅ = 67.5 kg/Ha</p> <p>Ashah variety: N = 69 kg/Ha P₂O₅ = 67.5 kg/Ha</p>	<p>Yield = 4,235 t/Ha</p> <p>Yield = 5,678 t/Ha</p>

1	2	3	4	5	6	7	8
32.	Fertilization doses for Low-land Rice	South Lampung	Pardauka	Wangmulyo	79/80	<p>The optimum doses of fertilizer are as follow :</p> <p>IR 26 variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Ashah variety N = 82 kg/Ha P₂O₅ = 45 kg/Ha</p>	<p>Yield = 4,925 t/Ha</p> <p>Yield = 4,890 t/Ha</p>
33.	Fertilization doses for Low-land Rice	South Lampung	Penengahen	Pasuruhan	79/80	<p>The optimum doses of fertilizer are as follow :</p> <p>IR 26 variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Ashah variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p>	<p>Yield = 4,326 t/Ha</p> <p>Yield = 5,208 t/Ha</p>
34.	Fertilization doses for Low-land Rice	Central Lampung	Raman Utau	Rejo Binangun	79/80	<p>The optimum doses of fertilizer are as follow :</p> <p>IR 26 variety : N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Ashah variety :</p>	<p>Yield = 5,208 t/Ha</p> <p>Yield = 7,980 t/Ha</p>

1	2	3	4	5	6	7	8
35.	Fertilization doses for Low-land Rice	Central Lampung	Seputih Ramen	Rukti Harjo	79/80	<p>The optimum doses of fertilizer are as follow :</p> <p>IR 26 variety :</p> <p>N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p>	Yield = 7.339 t/Ha
36.	Fertilization doses for Low-land Rice	Central Lampung	Satang-hari	Satang-harjo	79/80	<p>The optimum doses of fertilizer are as follow :</p> <p>IR 26 variety :</p> <p>N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p> <p>Asahan variety :</p> <p>N = 69 kg/Ha P₂O₅ = 67,5 kg/Ha</p>	Yield = 4.886 t/Ha Yield = 6.274 t/Ha

37. Laboratory trial :

1. The use of N, P and K fertilizer on Lowland rice in Tegineneng Centre shows increasing yield of Lowland rice. This trial will be repeated in the following season (1980/1981).
2. The use of N, P and K fertilizer on Upland rice in Tegineneng Centre shows increasing yield of Upland rice. This trial will be repeated in the following season (1980/1981).
3. According to the data of soil fertility comparison of some location in Lampung province (Pardasuka, Kedondong, Banjir, Rumbia, Way Jepara, Abung Selatan and Tegineneng Centre area, can be concluded that the Pardasuka soil sample is the best in fertility, then followed by the soil = Banjir, Kedondong, Way Jepara, Abung Selatan, Tegineneng Centre and the last is Rumbia soil.

Table 19 : Recommendation of Fertilization Trial.

1. Kec. Abung Selatan area (Upland)	: The optimum dosis of fertilizer for Upland Rice were : Bicol variety : N = 69 kg/Ha or Urea = 150 kg/Ha. P ₂ O ₅ = 45 - 67,5 kg/Ha or TSP = 45 - 150 kg/Ha. Seratus Malam variety : N = 46 kg/Ha or Urea = 100 kg/Ha. P ₂ O ₅ = 45 kg/Ha or TSP = 100 kg/Ha.
2. Kec. Baradatu area (Upland)	: The optimum dosis of fertilizer for Upland Rice were : Bicol variety : N = 69 kg/Ha or Urea = 150 kg/Ha. P ₂ O ₅ = 67,5 kg/Ha or TSP = 150 kg/Ha. Seratus Malam variety : N = 46 - 69 kg/Ha or Urea = 100 - 150 kg/Ha. P ₂ O ₅ = 45 kg/Ha or TSP = 100 kg/Ha.
3. Kec. Sekampung area (Upland)	: The optimum dosis of fertilizer for Upland Rice were : Bicol variety : N = 67,5 - 92 kg/Ha or Urea = 150 - 200 kg/Ha. P ₂ O ₅ = 45 - 67,5 kg/Ha or TSP = 100 - 150 kg/Ha. Seratus Malam variety : N = 46 - 49 kg/Ha or Urea = 100 - 150 kg/Ha. P ₂ O ₅ = 45 - 67,5 kg/Ha or TSP = 100 - 150 kg/Ha.
4. Kec. Bangun Rejo area (Upland)	: The optimum dosis of fertilizer for Upland Rice were: Bicol variety : N = 69 kg/Ha or Urea = 150 kg/Ha. P ₂ O ₅ = 67,5 kg/Ha or TSP = 150 kg/Ha. Seratus Malam variety : N = 46 - 69 kg/Ha or Urea = 100 - 150 kg/Ha. P ₂ O ₅ = 45 - 67,5 kg/Ha or TSP = 100 - 150 kg/Ha.
5. Kec. Kalirejo area (Upland)	: The optimum dosis of fertilizer for Upland Rice were : Bicol variety : N = 69 kg/Ha or Urea = 150 kg/Ha. P ₂ O ₅ = 67,5 kg/Ha or TSP = 150 kg/Ha. Seratus Malam variety : N = 69 kg/Ha or Urea = 150 kg/Ha. P ₂ O ₅ = 45 - 150 kg/Ha or TSP = 100 - 150 kg/Ha.

6. Kec. Way Jepara area
(Upland)
: The optimum dosis of fertilizer for Upland Rice were :
Bicol variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.
Seratus Malam variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.
7. Kec. Rumbia area
(Upland)
: The optimum dosis of fertilizer for Upland Rice were :
Bicol variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.
Seratus Malam variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.
8. Kec. Kotibung area
(Upland)
: The optimum dosis of fertilizer for Upland Rice were :
Bicol variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.
Seratus Malam variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.
9. Kec. Kedondong area
(Upland)
: The optimum dosis of fertilizer for Upland Rice were :
Bicol variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 45 – 67,5 kg/Ha or TSP = 100 – 150 kg/Ha.
Seratus Malam variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 45 – 67,5 kg/Ha or TSP = 100 – 150 kg/Ha.
10. Kec. Pardasuka area
(Upland)
: The optimum dosis of fertilizer for Upland rice were :
Bicol variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 45 kg/Ha or TSP = 100 kg/Ha.
Seratus Malam variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 45 kg/Ha or TSP = 100 kg/Ha.

11. Kec. Pardasuka area
(Lowland)
- : The optimum dosis of fertilizer for Lowland Rice were :
- IR 36 variety : N = 69 – 92 kg/Ha or Urea = 150 – 200 kg/Ha.
P₂O₅ = 45 – 67,5 kg/Ha or TSP = 100 – 150 kg/Ha.
 - Asahan variety : N = 92 kg/Ha or Urea = 200 kg/Ha.
P₂O₅ = 45 kg/Ha or TSP = 100 kg/Ha.
12. Kec. Kedondong area
(Lowland)
- : The optimum dosis of fertilizer for Lowland Rice were :
- IR 36 variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.
 - Asahan variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.
13. Kec. Penengahan area
(Lowland)
- : The optimum dosis of fertilizer for Lowland Rice were :
- IR 36 variety : N = 69 kg/ha or Urea = 150 kg/Ha.
P₂O₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.
 - Asahan variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.
14. Kec. Sekampung area
(Lowland)
- : The optimum dosis of fertilizer for Lowland Rice were:
- IR 36 variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.
 - Asahan variety : N = 69 kg/Ha or Urea = 150 kg/Ha.
P₂O₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.
15. Kec. Way Jepara area
(Lowland)
- : The effective time of N fertilizer application for IR 26 variety were :
- Basal : 3 days before transplanting (15%N).
 - First Top Dressing : 15 days after transplanting (25%N).
 - Second Top Dressing : 40 days after transplanting (45%N).
 - Third Top Dressing : 60 days after transplanting (15%N).
 - Dosis of fertilizer : N = 92 kg/Ha
P₂O₅ = 45 kg/Ha.

16. Kec. Way Jepara area
(Lowland)

: The optimum dosis of fertilizer for Lowland Rice were :

IR 36 variety	: N = 69 kg/Ha or Urea = 150 kg/Ha. P ₂ O ₅ = 45 -- 67,5 kg/Ha or TSP = 100 -- 150 kg/Ha.
Asahan variety	: N = 69 kg/Ha or Urea = 150 kg/Ha. P ₂ O ₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.
Pelita 1/1 variety	: N = 69 kg/Ha or Urea = 150 kg/Ha. P ₂ O ₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.
PB 5 variety	: N = 69 kg/Ha or Urea = 150 kg/Ha. P ₂ O ₅ = 67,5 kg/Ha or TSP = 150 kg/Ha.

Table 20 : Trial Result of Blant Protection on The Upland and Lowland areas.

No.	KIND OF TRIAL	LOCATION			PLANTING SEASON	CONCLUSION	NOTE
		DISTRICT	SUB-DISTRICT	VILLAGE			
1	2	3	4	5	6	7	8
1.	Upland rice varieties observation	Central Lampung	Baradatu	Campur Auri	79/80	<ul style="list-style-type: none"> -- Production of Bicol variety is highest among 9 varieties -- There is no difference of stem borer (pang-gerek batang) attack among 9 varieties. 	<ul style="list-style-type: none"> -- Yield : 5,16 ton/ha -- The Stem borer attack less than 10%.
2.	Lowland rice varieties observation	Central Lampung	Batang Hari	Banar Juyo	79/80	<ul style="list-style-type: none"> -- Production of Serayu variety is highest among 7 varieties. 	<ul style="list-style-type: none"> -- Yield : 5,86 ton/ha
3.	Upland rice varieties observation	North Lampung	Rumbia	Sri Kencana	79/80	<ul style="list-style-type: none"> -- Production of Sirendah Putih variety is highest among 10 varieties -- The attack of dead hearts (beluk) on carturne and Cempoturi varieties are larger among 10 varieties -- The attack of rice bugs (walang sangit) on cempoturi, IR 36 varieties is highest among 10 varieties. 	<ul style="list-style-type: none"> -- Yield : 4,85 ton/ha -- The dead hearts attack more than 20%. -- The rice bugs attacks more than 20%.
4.	Upland rice varieties observation	South Lampung	Bangunrejo	Tanjung Jaya	79/80	<ul style="list-style-type: none"> -- Production of Sirendah putih is highest among 9 varieties -- There is no correlation between production and rice borer or rice bugs attack 	<ul style="list-style-type: none"> -- Yield : 4,34 ton/ha -- The highest attack of rice borer and rice bugs are 5,8% and 10% respectively.
5.	Upland rice varieties observation	South Lampung	Ketibung	Trens Tanjung	79/80	<ul style="list-style-type: none"> -- Production of Gata variety is highest among 9 varieties -- There is no difference between rice borer and rice bugs attack. 	<ul style="list-style-type: none"> -- Yield : 5,10 ton/ha
6.	Lowland rice varieties observation	Central Lampung	Seputih Raman	Rukti-hario	79/80	<ul style="list-style-type: none"> -- Production of Serayu variety is highest among 6 varieties 	<ul style="list-style-type: none"> -- Yield : 6 ton/ha
7.	Lowland rice varieties observation	Central Lampung	Punggur	Totokaton	79/80	<ul style="list-style-type: none"> -- Production of IR 36 variety is highest among 7 varieties and the attack of dead hearts on Serayu variety is highest 	<ul style="list-style-type: none"> -- Yield : 11,24 ton/ha -- The dead hearts attack 11,4%.

1	2	3	4	5	6	7	8
8.	Lowland rice varieties observation	Central Lampung	Metro	Hedi-mulyo	79/80	<ul style="list-style-type: none"> - Production of IR 36 variety is highest among 7 varieties - There is a difference of dead hearts (sundep) attack after 30 days planting dead hearts attacks on Pelita variety is highest. - There are not differences of production and leaf blast (busuk palepuh) attack among varieties 	<ul style="list-style-type: none"> - Yield : 10.94 ton/ha - The dead hearts (sundep) attack on Pelita variety is 8.1%.
9.	Lowland varieties observation	South Lampung	Talang-Padang	Gisting Bawah	79/80		
10.	Period and time of spraying on soybeans Pest. (Local variety)	Central Lampung	Jabung	Asahan	79/80	<ul style="list-style-type: none"> - The Pengerek Polong attack on soybeans that sprayed is smaller 	<ul style="list-style-type: none"> - Pengerek Polong attack on control plant is 23.2%. 1 treatment (55 days) 11.5%, 3 treatments (55,65 and 80 days) 10.8%, 4 treatments (30, 55, 65 and 80 days) 7.7%. - The yield of sprayed Soybeans (4 treatments) is 160 kg/ha (drought condition)
11.	Period and time of spraying on Pityculeria (var. Bicol)	South Lampung	Ketibung	Trans Sudidaya	79/80	<ul style="list-style-type: none"> There is a clear difference between leaf blast: treatments no. 2 and no. 4 are smaller than no. 1 and no. 3 neck blast: treatments no. 1 is bigger than no. 2, no. 3 and no. 4, treatments no. 2 is bigger than no. 4 	<ul style="list-style-type: none"> Treatments: 1) Control 2) 2 x (30 and 40 days) 3) 2 x (75 and 90 days) 4) 4 x (30, 40, 75 and 90 days)
12.	Period and time of spraying on Pityculeria (var. Bicol)	Central Lampung	Songunrejo	Tanjung Jaya	79/80	<ul style="list-style-type: none"> There is a difference of yield: treatments no. 4 is bigger than no. 2 and no. 1, treatment no. 3 is bigger no. 3 is bigger than no. 1 There is a difference of neck blast (busuk leher) treatment no. 1 is bigger than no. 2, no. 3, no. 4 treatment no. 4 is smaller than no. 2 and no. 3 	<ul style="list-style-type: none"> Yield: 1) 3.21 ton/ha 2) 3.54 ton/ha 3) 3.76 ton/ha 4) 3.80 ton/ha Treatment: 1) Control 2) 2 x (30 and 60 days) 3) 2 x (75 and 90 days) 4) 4 x (30, 40, 75 and 90 days).

13.	Period and time of spraying on the lowland rice main pest.	South Lampung	Talang Pedang	Sidomulyo	79/80	Three times spraying is better in order to decrease dead hearts attack on IR 36, Alahan and Serayu varieties.	Treatment: 1) Control 2) 1 x (15 days) 3) 2 x (15 and 45 days) 4) 3 x (15, 45 and 60 days)
14.	The effect of planting time on the upland rice main pest attack (Sirendah variety)	North Lampung	Seradatu	Campur Airi	79/80	A good planting time is on early of November to decrease lalet bibit attack	Treatment: 1) planting Oct 22, 1979 2) planting Nov 5, 1979 3) planting Nov 23, 1979 4) planting Dec 13, 1979 5) planting Dec 27, 1979
15.	The effect of planting time on the upland rice main pest attack (Sirendah variety)	North Lampung	Abung Selatan	Kembang Tanjung	79/80	A good planting time is not over from the end of November to decrease lalet bibit attack	Treatment: 1) planting Oct 25, 1979 2) planting Nov 11, 1979 3) planting Dec 6, 1979 4) planting Dec 30, 1979
16.	The effect of planting time on the Soybeans main pest attack (local variety)	South Lampung	Ketibung	Trans Budidaya	79/80	A good planting time is on early of January to decrease lalet kacang and penggerek polong attack	Treatment: 1) planting Nov 5, 1979 2) planting Nov 20, 1979 3) planting Dec 5, 1979 4) planting Dec 20, 1979 5) planting Jan 7, 1980
17.	The effect of planting time on the corn bulai attack (H.6 variety)	Central Lampung	Labuhan Meringgai	Seribawono	79/80	A good planting time until on the middle of November to decrease Bulai attack	Treatment: 1) planting Oct 25, 1979 2) planting Nov 15, 1979 3) planting Dec 6, 1979 4) planting Dec 27, 1979 5) planting Jan 17, 1979
18.	The effect of planting time on the corn bulai attack (H.6 variety)	Central Lampung	Gunung Sugih	Bulusari	79/80	A good planting time until on the end of November to decrease Bulai attack.	Treatment: 1) planting Oct 12, 1979 2) planting Oct 27, 1979 3) planting Nov 11, 1979 4) planting Nov 27, 1979 5) planting Dec 15, 1979
19.	The effect of Dosage and concentration of insecticide on the upland rice main pest attack (Cartuna variety)	Central Lampung	Rumbie	Reno Basuki	78/79	Using dosage 400 litre/ha with concentration of 2 cc/litre is effective to decrease rice bugs attack	The rice bugs attack % Yield (kg/20 m ²) 0 3,75 10 2,78 20 1,81 30 0,84
20.	The effect of insecticide spraying time on the soybeans main pest (local variety)	South Lampung	Ketibung	Trans Tanjung	78/79	A good insecticide spraying time are on 16, 30, 45 and 58 days after planting in order to decrease penggerek polong attack.	

Table 21: Lampung Tani Makmur Project Trial Result,
Agronomic Division Fiscal Year 1977/78 - 1979/80

No.	Kind of trial	Location		Planting Season	Conclusion	Note
		District	Sub District			
1	2	3	4	5	6	7
1.	The effect of planting distance and manuring dosage on variety IR 26	Central Lampung	Trimurjo	1977	To much dense of planting distance and to much higher of fertilizers dosage can cause positip correlation with stem borer attack and rotten leaf/leaf blast.	planting distance 23 x23 cm and fertilizen dosage 250 kg urea + 100 kg TSP can achieve product significant different with the standard
2.	The effect of manuring NPK to pest and diseases on low land paddy variety IR 26	Central Lampung	Punggur	1977	K fertilizer application can not clearly increase the yield and no effect to stem borer and rotten leaf/leaf attack.	
3.	Two units low land paddy varieties adaptation (VUTW)	Central Lampung	Metro		Higher product has been shown by variety IR 26, 28, 30 and 36 compared with IR 34, Gati, Dewi Ratna and Local variety.	
		Purbolinggo	1977		VUTW variety that examined show higher product than local variety that examined.	
4.	Water application on ground nut and soy bean	Central Lampung	Seputih	1977	- Not clearly different product had been shown by three times water application (0.33 1/sec/ha) during growth period compared without water application on soy bean. - clearly different product had been shown by 10 daily water applicati- on during growth period compared with one till three times water application (0.33 1/sec/ha).	

1	2	3	4	5	6	7
5.	The effect of soil cultivation depth on upland paddy (Bicol variety)	South Lampung	Natar	1977	5 cm depth of soil cultivation gave more total stem per hill and more total panicle.	
6.	The effect of planting depth on upland paddy (Bicol variety)	South Lampung	Natar	1977	3 cm depth of planting gave more total stem per hill and total seed per panicle than 1, 5, 7 and 9 cm planting depth.	
7.	Upland paddy (Padi Gogo) variety trial.	South Lampung	Natar	1977	Gata and Gati variety gave more total number of stem per hill, more panicle and seed than other examined varieties (15 local varieties).	
8.	The effect of insecticide seed treatment on growth capability of upland paddy	South Lampung	Natar	1977	No effect on seed growth capability by using sevin 50 WP, Padan 50 SP, Furadan 3 G, Savin 5 dust, aldrin 40 WP.	
9.	Effectiveness of insecticide as seed treatment on mung bean seed from ant attack.	South Lampung	Natar	1977	Clearly different had been shown by using sevin 50 WP, Padan 50 SP, Sevin 5 dust, Furadan 3 G, Diazinon 5 G, Aldrin 40 WP and DDT compared with out application of insecticide.	
10.	Effectiveness of insecticide on lalat bibit attack to soyabean.	South Lampung	Sukoharjo	77/78	Furadan 3 G, Diazinon 5 G was more effective to avoid lalat bibit.	

11.	Cassava variety trial	South Lampung	Natar	1977	<p>The highest of average tuber per plant weight was achieved by Pandesi (local) than W 1672, W 1705, x 396, W 1435 and W 1207 variety</p> <p>— The weight of tuber per plant were around 3.06 kg — 4.09 g at 16,000/ha population (planting distance 100 x 60 cm).</p>
12.	Cropping system trial	South Lampung	Natar	1977	<p>Input per ha for each system that been examined was between Rp. 184,000,— — Rp. 260,000,—</p> <p>The highest net income that occur, is the system upland rice, wheat (sorghum) ground nut, tobacco, that is Rp. 105,000,—</p>
13.	Simple trials at the villages (28 unit)	South Lampung North Lampung	9 Kecamatan	1977	<p>The stable production was showed by the system Rice, maize & cassava if been compared with the other system</p>
14.	Maize variety trial	Central Lampung	Bangunrejo	78/79	<p>The highest production was achieved by var. H. 6 (MSz), H.G x swan 1 (MST), 28% and 16% respectively were higher than Phil DMR 5 production.</p> <p>— Average production of DMR 5: 1,249 ton/Ha. — H 159, and S2 Bogor intecros DMR 4 production were higher than DMR 5.</p>
15.	Maize variety trial	North Lampung	Banjit	78/79	<p>Intecros S1 Bogor DMR 4 variety, and Bogor DMR 12 production was 4% higher than Harapan variety</p>
16.	Maize variety trial	North Lampung	Baradatu	78/79	<p>Intecros S1 Bogor DMR 4 variety, Bogor DMR 10 more tolerant on Bular diseases and the production is 109% higher than Metro variety which been attacked heavily by bulai diseases</p> <p>Metro variety production on was 1,074 ton/ha</p>

17.	Maize variety trial	South Lampung	Natar	1978	<p>- Thai composite 3 variety production was 4% higher than Harapan variety production</p> <p>- Swan 1, caripeno DMR, cuprico flint camp and South Asian Population 11 variety production was 20 higher than Harapan variety production.</p>			
18.	Upland rice variety trial	North Lampung	Banjit	78/79	The highest production was seen on GH 48, GH 80 variety production and that's 61% higher than local high yielding variety Aworak.			-- Local high yielding variety Aworak production is 965 kg/ha.
19.	Upland rice variety trial	North Lampung	Baradatu	78/79	GH 48, GH 80 variety production was twice higher than local high yielding variety Si Rendah			-- Average production of Si Rendah variety was 600 kg/ha.
20.	Plant hopper resistance variety (VUTW) on sawah field trial.	South Lampung	Natar	1979	The highest production was achieved by IR 26 and IR 38 variety			- Average production of both variety was 5.4 ton/ha.
21.	VUTW trial on upland field	South Lampung	Natar	1979	The highest production of VUTW on upland field was achieved by IR 36 and IR 26 variety.			-- IR 36 variety production on upland field was 91.6% of its production on sawah field.
22.	Maize agronomic cultivation trial.	South Lampung	Natar	1979	Soil cultivation with hoe at crop row did not give clearly different if been compared without cultivation, but three times rotary cultivation can increase the production 11.5% if been compared without cultivation.			- The lowest production was 2.4 ton/ha and the highest production was 3.8 ton/ha (on 75,000 population and three times rotary cultivation).

1	2	3	4	5	6	7
23.	Maize variety trial.	South Lampung	Natar	1979	The highest production was achieved by Suwan DMR course 9 x H6, Suwan DMR course 9 x H6, Suwan 1 (S) C4 and (TC, DMR x Medok) x H6 variety.	- The production of those three varieties was 40% higher than Harapan variety.
24.	Low land rice variety trial.	South Lampung	Natar	1979	Only GH 67 and GH 112 variety from examined variety that can give equal production with Serayu variety which used as standard	- Serayu variety production was 2.5 ton/Ha. GH 67 and GH 28 tolerance to cercospora, but GH 90 susceptible.
25.	Variety resistance trial on Piricularia disease	South Lampung	Natar	1979	Variety Si Rendah, Genjah Kenanga, Lampung Kuning Dayang rindu, Bayur, Klomas, GH 80, GH 77, GH 77, GH 76, GH 78, GH 125, GH 172 and GH 126 was resistant on Piricularia.	- Seratus malam Variety and GH 102 was susceptible on Piricularia.
26.	Soybean variety trial.	South Lampung	Natar	79/80	The highest average production was No. 29 but the age was longer. (110 days) No. B/1667 was attacked by lokal bibit heavier than other varieties.	- average production of No. 29 was 869 kg/Ha.
27.	Benlate T (Thiram Benonyl WP) usage on several soya-bean varieties	South Lampung	Natar	79/80	Seed Germination percentages increased by 46.2% and dead plant percentage decreased by 45.7% (at lack rain condition during planting season) by using Benlate T.	- Enough rain (46.5 mm) fall, ten days after planting. - Untreated seed generally attacked by Fusarium sp and Rhizoctonia Sp.

1	2	3	4	5	6	7
28.	Upland rice agronomic cultivation trial	South Lampung	Natar	79/80	Soil compaction before planting on the crumbs soil condition, can increase total panicle by 32%.	<ul style="list-style-type: none"> - Total number of panicle per square meter on compacted soil was 107.6 and uncompacted soil 56.1.
29.	Attacked by <i>Cercospora kikuchi</i> soybean seed, germination capability trial.	South Lampung	Natar	79/80	Germination capability of Orba/Taining 3-3-2 variety was 23.6% lower than the other varieties.	<ul style="list-style-type: none"> - Average seed germination on capability of health seed was 90.3%.
30.	Groundnut variety trial, on yellow mosaic virus attack.	South Lampung	Natar	79/80	<ul style="list-style-type: none"> - There was not any tolerant variety on yellow mottle virus - Average production would be decreased by 73% if the crop been attacked by yellow mottle virus. 	<ul style="list-style-type: none"> - Production decrease was caused by light seed and small number of polong
31.	Maize variety trial	South Lampung	Natar	79/80	The highest production was achieved by H6x Suwan 1 (MS 1) variety, it's 18% higher than Harapan variety.	<ul style="list-style-type: none"> - Average production of Harapan variety (with Ridomil 35 SD) was 5.6 ton/ha.

1	2	3	4	5	6	7	8
3.	Efficiency of Combine harvester on lowland farming	C.L.	Punggur	Toto- Katon	1979/80	Capacity : 0.18 Ha/Hour Efficiency : 89.9 % Grain test : 7.3 %	
4.	Efficiency of threshing equipment on upland farming	S.L.	Natar	Bumi Agung	1978/79	Efficiency : a. "ilos" system : 70.22% b. Pedal thresher : 82.60% c. Auto thresher : 30.39%	
5.	Efficiency of Planting equipment	C.L.	Gunung Sugih	Side kerto	1978/79	Efficiency : a. Speed drill : 2.1 Hours/Ha b. Plater - c. Tugal (stiek) : 6.3 Hours/Ha	4 persons
6.	Utilization of hand tractor on along-alang area	N.L.	Abung Selatan	Semuli Raya	1979/80	Capacity : Speed a. Low 2 0.04 Ha/Hour b. Low 3 0.07 " c. High 1 0.08 " d. High 2 0.12 " Efficiency : Speed a. Low 2 50 % b. Low 3 41 " c. High 1 33 " d. High 2 33 " a. Low 2 75 % b. Low 3 47 " c. High 1 50 " d. High 2 47 "	Land size 20 x 10 sq.m. Land size 40 x 10 sq.m.
7.	Utilization of Rice Transplanter on lowland farming.	C.L.	Punggur	Toto-	1979/80	No data rice did not grow	

1	2	3	4	5	6	7	8
8.	Utilization of 4-W. tractor on low land farming with iron wheel	C.L	Punggur	Toto- Katon	1979/80	Harrow Capacity : 0.147 Efficiency : 73.5 % Oil : 5.2 l/Hour Leveling Capacity : 0.85 Efficiency : 89.5 % Oil : 6.0 l/Hour	Ha/Hour % l/Hour Ha/Hour % l/Hour 2 x rotary 1 x leveling
9.	Correlation between various spraying equipment and yield of maize	C.L	Gunung Sugih	Bulu- sari	1979/80	Hand Sprayer : 200 Hand sprayer : 500 Mist blower : 50 Power sprayer : 750	l/Ha l/Ha l/Ha l/Ha A : 153.6 kg/500 m2 B : 156.2 kg/500 m2 C : 147.6 kg/500 m2 D : 175.4 kg/500 m2
10.	Utilization of 4-W. tractor on alang-alang area	C.L.	Bangun rejo	Cima- rios	1979/80	Speed 5.58 Km/Hour Real cap. 0.24 Ha/Hour Teoretical cap. 0.3 Ha/Hour Efficiency : 80 % Real Cap : 0.26 Ha/Hour Teoretical Cap : 0.3 Ha/Hour Efficiency : 86.67 % Real cap. : 0.51 Ha/Hour Teoretical cap. : 1.17 Ha/Hour Efficiency : 43.59 %	Plow I Plow II Rotary

Source : Lampung Tani Makmur Project.

Table 23: Using of Tractor Lampung Tani Makmur Project
1973 - 1980 Period

No.	KIND OF MATERIALS	CODE NUMBER	WORK HOURS	LOCATION	NOTE
1.	Iseki Tz-8011	04/73	1,600	- Totokaton	RICE FIELD FORMATION
			1,500	- Up Land Dem Farm	"
			300	- Tegineneng	"
			500	- Outside of Dem Farm	"
TOTAL			3,900		GOOD
2.	Iseki Tz-8011	05/73	2,992	- Tegineneng	LAND CLEARING
			552	- Totokaton	RICE FIELD FORMATION
			2,035	- Up Land Dem Farm	"
			150	- Outside of Dem Farm	"
TOTAL			6,229		BREAK
3.	Iseki Tz-6714	11/75	2,005	- Upland Dem Farm	SOIL CULTIVATION
			600	- Tegineneng	and FARM ROAD 40 ha
			300	- Outside Dem Farm	"
			600	- Totokaton	"
TOTAL			3,555		GOOD
4.	Iseki Tz-6714	12/75	2,000	- Upland Dem Farm	
			600	- Tegineneng	
			750	- Outside Dem Farm	

No.	KIND OF MATERIALS	CODE NUMBER	WORK HOURS	LOCATION	NOTE
5.	Iseki Tz-4714	15/76	300 2,000	- Totokaton - Tegineneng	TRANSPORTATION
	TOTAL		2,300		GOOD
6.	Iseki Tz-5714	21/77	2,050 400 300 400	- Upland Dem Farm - Totokaton - Tegineneng - Outside Dem Farm	
	TOTAL		3,150		GOOD
7.	Iseki Tz-5714	22/77	800 400 300 300	- Upland Dem Farm - Trial of upland Crops - Outside Dem Farm - Tegineneng	
	TOTAL		1,800		Has been repairing
8.	Mini Tractor Iseki TX 1500 F	19/77	100 170	- Totokaton - Tegineneng	LOWLAND
	TOTAL		270		Has been repairing
9.	Mini Tractor satoh S-630 D	26/79	210	- Tegineneng	
	TOTAL		210		GOOD

Tegineneng, April 1980

LAMPUNG TANI MAKUR PROJECT
AGRICULTURE MACHINERY AND EQUIPMENT DIVISION

(Ir. W. Subandrio)

Table 24: Using of 4 Wheel Tractor for Soil Cultivation at Tegeningeng Center and Lampung Tanil Makmur Demfarm, 1978 - 1980 Period

No.	TYPE OF TRACTOR	No. CODE	D E M F A R M		T E G E N I N E N G C E N T R E				N O T E	
			U P L A N D	L O W L A N D	1978	1979	1980	1978		1979	1980
LOCATION . 1978 . 1979 . 1980 . LOCATION . 1978 . 1979 . 1980 . 1978 . 1979 . 1980 .										
1.	Tractor Zetor Isoki Tz-8011	04/73	400	100	-	-	-	60	150	Upland of Tegeningeng Center
			500	450	-	-	-			
			Total (hour)	900	600	-	-			
			Area (Ha)	60	40	-	-			
2.	Tractor Zetor Isoki Tz-6714	11/75	250	200	205	-	-	240	100	Upland Farm Road
			400	450	-	-	-			
			Total (hour)	650	650	205	-	240	100	
			Area (Ha)	43	43	14	-	14	5	
3.	Tractor Zetor Isoki Tz-6714	12/75	400	250	250	-	-	-	-	
			250	150	150	-	-	-	-	
			250	300	-	-	-	-	-	
			Total (hour)	900	700	400	-	-	-	
			Area (Ha)	60	47	27	-	-	-	
4.	Tractor Zetor Isoki Tz-4714	15/70	300	-	-	-	-	400	400	240
			300	-	-	-	-	400	400	240
			Total (hour)	300	-	-	-	400	400	240
			Area (Ha)	20	-	-	-	-	-	-

Table 25: Capital Support of Tani Makmur Demfarm

A.	Upland	: 56 villages; covered	=	5,486.125	Ha
B.	Lowland	40 " "	=	843.445	"
C.	Latge Dem Farm	1 Villages; covered	=	100.00	"
A.	UPLAND	: Urea 100 kg x Rp. 7,-		Rp.	7.000
	(per Ha)	TSP 100 kg x Rp. 70,-		Rp.	7.000
		Pesticide 1,5 l x Rp. 900,-		Rp.	1.350
		Diazinon GR 2 kg x Rp. 500,-		Rp.	1.000 (1.250)
		Racumin 0,1 kg x Rp. 1.500,-		Rp.	150
				<hr/>	
				TOTAL	Rp. 16.500
(a)	TOTAL SUPPORT	: 5,486.125 x Rp. 1,650		=	Rp. 90,521,062.50
B.	LOWLAND	Urea 200 kg x Rp. 70,-		Rp.	14,000
		TSP 100 kg x Rp. 70,-		Rp.	7,000
		Pesticide 2,5 l x Rp. 900,-		Rp.	2,250
		Racumin 0,1 kg x Rp. 1,500		Rp.	150
				<hr/>	
				TOTAL	Rp. 23,400
(b)	TOTAL SUPPORT	: 1,063.445 Ha - 220 Ha (Totokaton)		=	843.445 Ha x Rp. 23.400 = Rp. 19,736,613,-
(c)	100 Ha (Totokaton)	= 100 Ha x Rp. 23,400 x 2,2 (for 40 ha x 4,6 x 1)		=	Rp. 5,148,000
				TOTAL LOWLAND	@ Rp. 24,884,613
					=====

Table 25: Total Support of Pesticide to the Low Land Demfarm
1973 - 1977/1978

No.	District/Village	1973			1973/74			1974			1974/75			1975			1975/76				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
I.	TRIMURJO :																				
1.	Purwodadi	0,5	10	5	2	4	1,75	200cc		10	2	2	10								
2.	Purwodadi	0,5	10	5	2	4	1,75	200cc		10	2	2	10								
3.	Tempuran	0,5	10	5	2	8	3,5	200cc	10,15				10	2							
4.	Liman Binawi	0,5	10	5	2	4	1,75	200cc													
II.	M E T R O :																				
5.	Genjar Agung								0,5	2	1,7	5	12,5	2			20	4	200ml	10	2
6.	Hadi Mulyo								0,5	2	1,7	5	12,5	2			10	2	100ml	10	2
7.	Tejosari																				
8.	Yosodadi								0,5	2	1,7	5	12,5	2			10	2	100ml	20	4
9.	Margorejo								0,5	2	1,7	5	12,5	2			10	2	100ml	10	2
III.	PUNGGUR :																				
10.	Astomulyo					5	200cc						4	1			17	3,5		15	3
11.	Ngestirahayu					5	200cc						3	1			17	3,5	100ml	30	6
12.	Sumberejo					5	200cc						10	2			10	2		10	2
13.	Totokaton					5	200cc						10	2			50,5	10,10		68	16
IV.	PEKALONGAN :																				
14.	Tulusrejo												2,5	2	10		10			20	4
15.	Siraman												2,5	2	10		10	2		10	2
V.	BATANG HARI :																				
16.	Banar Jowo																10	2		10	2
17.	Telegorejo																10	2		10	2
18.	Bumi Harjo																10	2		10	2
19.	Bumi Mas																10	2		10	2
20.	Balerejo																10	2		10	2
VI.	SUKARAJA NUBAN :																				
21.	Sukasari Nuban																10	2		10	2
22.	Purwasari																10			20	4
23.	Kedaton																10	2		10	2
24.	Tulung Balak																10			20	4

No.	District/Village	1976/77												1977/78		Note				
		21	22	23	24	25	26	27	28	29	30	31	32	33	34		35	36	37	38
TRIMURJO :																				
1	Purwobudi																			1. Zink phospit
2	Purwodadi																			2. Sumithion 40 EC
3	Tamparan																			3. Sumithion 50 EC
4	Liman Bonawi						7		1,75	2										4. Solit Racumin.
M E T R O :																				
5	Guntur Agung																			5. Sumithion 45 EC
6	Medi Mulya																			6. SPN EC
7	Tepusan																			7. Flor Dace
8	Yonidiati																			8. Phosvel
9	Margorejo																			9. Phosvel 300 EC
PUNGGUK :																				
10	Astomulyo																			10. Solit Racumin.
11	Ngusurabaya																			11. Belerang
12	Sumbarejo																			12. Sevin.
13	Tutobekon																			13. EPN EC
PEKALONGAN :																				
14	Tularejo																			14. Solid Racumin
15	Gremban																			15. Phosvel
BATANG HARI :																				
16	Betar Jayu																			16. Diazinon EC
17	Tulugurejo																			17. Solit Racumin.
18	Dumi Harjo																			18. Sodium Flour date
19	Bumi Mas																			19. Diazinon
20	Baterajo																			20. Racumin
SUKARAJA NUGAN :																				
21	Sukarejo Nugan																			21. Diazinon EC
22	Purwotri																			22. Diazinon EC
23	Kwilatan																			23. Validacin
24	Tulang Bulak																			24. Endox
																				25. Diazinon GR
																				26. Surecide
																				27. Phosvel
																				28. Bayzed.
																				29. Validazin.
																				30. Endox
																				31. Furedan
																				32. Diazinon EC
																				33. Diazinon EC
																				34. Validacin
																				35. Endox
																				36. Diazinon EC
																				37. Validacin
																				38. Endox

No.	District/Village	1973					1973/74					1974					1974/75					1975					1975/76												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

VII. SEPUTIH RAMAN :

- 25. Rama Utama
- 26. Rukti Harjo
- 27. Rejo Aadi
- 28. Rejo Basuki
- 29. Rama Cunawan

VIII. RAMAN UTARA :

- 30. Rejo Binangun
- 31. Raman Aji
- 32. Ratna Daya
- 33. Rukti Sadiyo

IX. SEKAMPUNG :

- 34. Wonokarto
- 35. Sumbergede
- 36. Sidadadi
- 37. Hargomulyo

X. PURBOLINGGO :

- 38. Taman Fajar
- 39. Totohanjo
- 40. Totomulyo
- 41. Tanjungkesuma

District/Village	1970					1976/77					1977					1977/78			Note
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
VII. SEPUTIH RAMAN :																			
25. Rama Utama	5	150	5	2		10	10	5	4	150	15	5	1						
26. Rukti Harjo	5	150	5	2		10	10	5	4	150	15	5	1						
27. Rejo Asri	5	150	5	2		5	5	2,5	2	75	15	5	1		15	5	1		
28. Rejo Basuki	5	150	5	2		5	5	2,5	2	75	15	5	1		15	5	1		
29. Rama Gunung																			
VIII. RAMAN UTARA :																			
30. Rejo Binangun	5	150	5	2		10	10	5	4	150	15	5	1		15	5	1		
31. Raman Aji	5	150	5	2		10	10	5	4	150	15	5	1		15	5	1		
32. Rama Dava	5	150	5	2		10	10	5	4	150	15	5	1		15	5	1		
33. Rukti Sediyu	5	150	5	2		10	10	5	4	150	15	5	1		15	5	1		
IX. SEKAMPUNG:																			
34. Wonokarto	5	200	5	2		5	5	2,5	2	75									
35. Sumbergede	10	400	10	4		10	10	5	4	150									
36. Sidodadi	5	200	5	2		5	5	2,5	2	75									
37. Hargomulyo	5	200	5	2		5	5	2,5	2	75									
X. PURBOLINGGO:																			
38. Taman Fajar	5	150	5	2		10	10	5	2,5	75	15	5	1		15	5	1		
39. Totomerjo						10	10	5	4	150	15	5	1		15	5	1		
40. Totomulyo	5	150	5	2		10	10	5	2,5	75	15	5	1		15	5	1		
Tanjungkeuma						10	10	5	4	150	15	5	1		15	5	1		

Table 27 : Supporting of Agriculture Input to The Lowland Dem farm
(1973 - 1977/78)

No.	Subdistrict/Village	1973			1973/74			1974			1974/75			1975			
		Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	
I.	TRIMURJO :																
1.	Purwoadi	5,025	1015,5	512,5	5,2	1066	540	5	1025	525	5	1025	525	5	1025	525	
2.	Purwodadi	5,025	1015,5	512,5	5,075	1040	533,5	5	1025	525	5	1025	525	5	1025	525	
3.	Tembouran	5,025	1012,5	512,5	10,325	2090	1058,5	5	1025	525	5	1025	525	5	1025	525	
4.	Liman Benawi	5	1012,5	512,5	5	1025	525										
II.	METRO :																
5.	Ganjar Agung							5	1025	525	5	1025	525				
6.	Hadi Mulyo							5	1025	525	5	1025	525	10	2050	1050	
7.	Tejosari							5	1025	525	5	1025	525	5	1025	525	
8.	Yosodadi							5	1025	525	5	1025	525				
9.	Margorejo							5	1025	525	5	1025	525	5	1025	525	
III.	PUNGGUR :																
10.	Astomulyo				5	1025	525	2	410	210	3,5	1750	900				
11.	Ngestirahayu				5,025	1037,5	531,5	1,5	310	160	8	1650	850				
12.	Sumborejo				5,125	1048,25	529,5	5	1025	525	5	1025	525				
13.	Totoketon				5	1000	1000	5	1025	1025	25,5	5176	5176				
IV.	PEKALONGAN :																
14.	Tulustejo				5	1025	525	5	1025	525	5	1025	525				
15.	Siraman				5	1025	525	5	1025	525	5	1025	525				
V.	BATANG HARI :																
16.	Banar Joyo							3						5	1025	525	
17.	Telorejo												5	1025	525		
18.	Bumi Harjo												5	1025	525		
19.	Bumi Misi												5	1025	525		
20.	Batu Kerto												5	1025	525		

No.	Subdistrict/Village	1976/78			1976			1976/77			1977			1977/78			Note
		Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	
I.	TRIMURJO :																
1.	Purwodadi																
2.	Purwodadi																
3.	Tempuran																
4.	Liman Benawi				3,5	750	350	5	1025	525	5	1025	525	5	1025	525	
II.	METRO :																
5.	Gajah Agung	5	1025	525	0,5	1700	510										
6.	Madi Muljo	5	1025	525													
7.	Tejaseri	5	1025	525	5	1025	585										
8.	Yotodadi	10	2050	1050													
9.	Martorejo	5	1025	525	5	1025	585										
III.	PUNGGUR :																
10.	Astomuljo	7	1450	845													
11.	Ngestiharayu	14,5	3000	1525													
12.	Sumberejo	5	1000	500													
13.	Totokaton	34	7070	4420	20	400	1200	40	8000	4000	60	12300	4000	60	12300	12300	
IV.	PEKALONGAN :																
14.	Tulurejo	10	2050	1025													
15.	Sireman	5	1025	525													
V.	BATANG HARI :																
16.	Danar Jowo	5	1025	525	5	1025	585										
17.	Teleprejo	5	1025	525													
18.	Bumi Harjo	5	1025	525	5	1025	525	5	1025	525	5	1025	525	5	1025	525	
19.	Bumi Mas	5	1025	525	5	1025	525	5	1025	525	5	1025	525	5	1025	525	
20.	Bate Rejo	14,25	745														

No.	Subdistrict/Village	1973			1973/74			1974			1974/75			1975		
		Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)
VI. SUKARAJA NUDAN :																
21.	Sukareja Nuban															
22.	Purwodari															
23.	Kedaton															
24.	Tulung Belak															
VII. SEPULUH RAMAN :																
25.	Rama Utama															
26.	Ruki Sediyo															
27.	Rejo Atri															
28.	Rejo Batuki															
29.	Rama Gunawan															
VIII. RAMAN UTARA :																
30.	Rejo Binangun															
31.	Raman Aji															
32.	Ratna Daya															
33.	Ruki Sediyo															
IX. SEKAMPUNG :																
34.	Wonokarto															
35.	Sumbergede															
36.	Sidodadi															
37.	Margomulyo (X)															
38.	Taman Pejar															
39.	Totoherjo															
40.	Toto Mulyo															
41.	Tanjung Kesuma															
TOTAL		21	4060	2060	44,945	9301,30	6259	30	6160	3160	6120	127	26001	15851		

No.	Subsidi/Village	1975/76			1976			1976/77			1977			1977/78			NOTE
		Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	Area (Ha)	Urea (Kg)	T.S.P. (Kg)	
VI. SUKARAJA NUBAN :																	
21.	Sukareja Nuban	5	1025	525	10	2050	1050										
22.	Purwasari	10	2050	1050	5	1025	525										
23.	Kedaton	5	1025	525	10	2050	1050										
24.	Tulang Balak	10	2050	1050	5	1025	525	5	1025	525	5	1025	525				
VII. SEPUTIH RAMAN :																	
25.	Rama Utama	5	1025	525	10	2050	1050	6	1025	525							
26.	Rukti Sediyo	5	1025	525	10	1050	1050	5	1025	525	5	1025	525				
27.	Rejo Atri	5	1025	525	5	1025	525	5	1025	525	5	1025	525				
28.	Rejo Basuki	5	1025	525	5	1025	525	5	1025	525	5	1025	525				
29.	Rama Gunawan				10	2050	1050	10	2050	1050	10	2050	1050				
VIII. RAMAN UTARA :																	
30.	Rejo Dinangun	5	1025	525	10	2050	1050	5	1025	525	5	1025	525				
31.	Raman Aji	5	1025	525	10	2050	1050	5	1025	525	5	1025	525				
32.	Rama Daya	5	1025	525	5	1025	525	5	1025	525	5	1025	525				
33.	Rukti Sediyo	5	1025	525	5	1025	525	5	1025	525	5	1025	525				
IX. SEKAMPUNG :																	
34.	Wonokarto	5	1025	525	5	1025	525										
35.	Sumbergede	10	2050	1370													
36.	Sidodadi	5	1025	525	10	2050	1050										
37.	Harjomulyo (X)	5	1025	525	5	1025	525	5	1025	525	5	1025	525			Ma = 1063,445	
38.	Taman Pajar	5	1025	525	5	1025	525	5	1025	525	5	1025	525			Urea = 212,917,3	
39.	Totoharjo				10	2050	1050	5	1025	525	5	1025	525			TSP = 108,365	
40.	Toto Mulyo	5	1025	525	5	1025	525	5	1025	525	5	1025	525			OSP = 14,085	
41.	Tanjung Kesuma				10	2050	1050	5	1025	525	5	1025	525				
		175	36395	19586	128,5	21070	14085	213,5	43600	22204	130	20450	13450	140	28900	20700	

Tanjungkarang, May 8, 1979

Table 28: Supporting of Pest and Disease Control
Equipment to The Upland Demfarm
(Planting season 1979/1980)

SUB DISTRICT/ village		Sending date	Hand Spra- yer	Mist Blower	Power Sprayer US-34	Power C S 34-MK	Measu- ring glass 250 ML
1	2	3	4	5	6	7	8
I. KEC. NATAR							
1.	Hadryang	17-12-79	1	--	--	--	--
2.	Gedong Tataan	17-12-79	1	--	--	--	--
3.	Suka Bandung	18-12-79	3	1	1	--	--
4.	Bumi Agung	5- 1-80	2	--	--	--	--
5.	Suka Damai	28- 1-80	1	--	--	--	--
II. KEC. KEDATON							
1.	Margo Agung	17- 1-79	2	--	--	--	--
2.	Margo Dadi	3- 1-80	2	--	--	--	--
III. KEC. GEDONG TATAAN							
1.	Keagungan Ratu	17-12-79	2	--	--	--	--
2.	Waringin Sari	18-12-79	--	1	--	--	1
3.	Pejambon	24-12-79	1	--	--	--	--
4.	Halangan Ratu	3- 1-80	2	--	--	--	--
IV. KEC. GUNUNG SUGIH							
1.	Sidokerto	17-12-79	2	--	--	--	--
2.	Bumi Rahayu	18-12-79	2	1	1	--	1
3.	Terbanggi Subing	18-12-79	1	--	1	--	1
4.	Bumi Raharjo	18-12-79	2	1	1	--	1
5.	Sido Waras	20-12-79	2	2	1	--	1
6.	Kesuma Dadi	20-12-79	1	1	--	--	1
7.	Gunung Sugih Kamp.	20-12-79	2	1	--	--	1
8.	Bulusari	20-12-79	1	1	1	--	1
9.	Rengas	17-12-79	2	--	--	--	--
10.	Terbanggi Agung	--	--	--	--	--	--
V. KEC. BANGUNREJO							
1.	Tanjung Jaya	2- 1-80	2	1	--	--	1
2.	Sidorejo	2- 1-80	2	1	1	--	1
3.	Sri Pendowo	2- 1-80	2	1	--	--	1
4.	Sido Dadi	2- 1-80	1	--	--	--	--
5.	Suka Negara	2- 1-80	2	1	--	--	1
6.	Bangunrejo	2- 1-80	2	--	--	--	--
7.	Sinar Seputih	2- 1-80	2	1	--	--	1

1	2	3	4	5	6	7	8	9
VI. KEC. SUKOHARJO								
1.	Adi Luwih	4-12-79	2	1	-	-	1	
2.	Bandung	4-12-79	2	1	-	-	1	
3.	Enggal Rejo	4-12-79	2	1	-	-	1	
VII. KEC. KALI REJO								
1.	Ba'e Rejo	21-12-79	2	-	-	-	-	
2.	Sinar Sari	21-12-79	1	-	-	-	-	
3.	Ponco Warno	21-12-79	1	-	-	-	-	
4.	Watu Agung	2- 1-80	2	1	-	-	1	
5.	Sri Basuki	2- 1-80	1	-	-	-	-	
6.	Suko Sari	2- 1-80	-	1	-	-	1	
VIII. KEC. TERBANGGI BESAR								
1.	Nambah Dadi	26-12-79	1	-	-	-	-	
2.	Adi Jaya	26-12-79	1	-	-	-	-	
3.	Fajar Asri	3- 1-80	2	1	-	-	1	
4.	Dono Arum	"	2	1	1	-	1	
5.	Endang Rejo	"	2	1	-	-	1	
6.	Sulusuban	"	2	1	-	-	1	
7.	Simpang Agung	"	2	1	-	-	1	
8.	Harapan Rejo	"	2	1	-	-	1	
IX. KEC. SUKADANA								
1.	Dono Mulyo	3- 1-80	2	1	-	-	1	
2.	Muara Jaya	7- 1-80	2	1	-	-	1	
3.	Sukadana Ilir	"	2	-	-	-	-	
4.	Bumi Jawa	"	2	1	-	-	1	
5.	Sukaraja Nuban	"	1	1	-	-	1	
TOTAL			81	28	8	-	29	

Table 29: Supporting of Pesticide the Upland Dem. farm
1973/74 - 1977/78

No.	Sub District/Village	Seed Treatment	Eisen 2% dust	Baycid 2% dust	Sumi tion 2% dust	Roden (bi db)	Seed Treat Mont	Diaz. 5 G	Diaz. 40 EG	Recu min	Diaz GR	Diaz EC
1	2	3	4	5	6	7	8	9	10	11	12	13
I.	KECATON											
1.	Margo Agung										37,5	18,75
2.	Margo Dadi										53	26,5
II.	NAYAR :											
3.	Geong Gumanti										60	30
4.	Kreinowidodo										60	30
5.	Bumi Agung										25,5	12,5
6.	Sukadamai							50	30	4	80	
7.	Rujung Helok	23			280	3	30					
8.	Haduyang	16	100			2	24	16	0,5	1,3		
9.	Merak Gatin	12		150		2	14,7					
III.	GEJUNG TATAAN:											
10.	Halangan Ratu										36	18
11.	Kasunggan Ratu										60	30
12.	Pejambon						7,30	100	94,35	12,58		
IV.	SUKOHARJO :											
13.	Waringin Sari										60	30
14.	Dandung Batu										60	30
15.	Enggal Rejo										51	25,5
16.	Adi Luwih										60	30
17.	Adi Luwih											
V.	GUNUNG SUGIH :											
17.	Sidokerto	15	200		10	2	6,30	120	20	12		
18.	Dulutari	14	220		10	2	33,10	20	52,95	7,04		
19.	Rengas	15	200		10	2	23	50	40,13	6,55		
20.	Bumi Rahayu							50	45	6	140	
21.	Bumi Raharjo							62	54	7	91	
22.	Terb. Agung							50	45	6	101,5	
23.	Terb. Subing							58	51	7	179	
24.	Kasumadadi							50	30	4	142	
25.	Sukajadi										20	
26.	Sidowaras										60	
27.	C. Sugih Kembang							50	45	6	81	

No.	Sub District/Village	Sumi thion GC	Endox GR	Diaz. CC	Diaz. CC	Garvit	Sure side	Sumi thion	Paivel	Endox	Note
1	2	14	15	16	17	18	19	20	21	22	23
I	KEDATON										
1.	Mergu Agung		7,5	103	128			80		27	
2.	Mergu Candi		10,5	154	178			70		35	
II.	NATAR :										
3.	Gedong Gumanti		12	22	30			30		6	
4.	Kraswidodo		12	150	200			100		40	
5.	Gumi Agung		5	140	180			90		30	
6.	Sukasamat	40	16	45	60			30		12	
7.	Rujung Helok										
8.	Hadyang										
9.	Merak Batin										
III.	GEDUNG TATAAN:										
10.	Halayon Ratu		7,2	112	150			76		30	
11.	Keupungan Ratu		12	60	80			60		16	
12.	Pejambon.										
IV.	SUKOHARJO :										
13.	Warinyin Sari		12	90	120			60		24	
14.	Bandung Daru		12	60	80			40		16	
15.	Gnygal Ratu		10,5	75	100			50		20	
16.	Adi Lurah		12	108	144			72		28	
V.	GUNUNG SUGIH :										
17.	Sukoharjo			45	60			70		12	
18.	Bulohari			60	80			61		16	
19.	Rengas										
20.	Bumi Rahayu	74,5	20,8	43	57			59		11	
21.	Bumi Raharjo	45,5	18	95	125			50		25	
22.	Teris Agung	50,75	20,3	40	52			70		12	
23.	Teris Subing	60,5	33,5	27	38			50		7	
24.	Kerunsteddi	71	28,4	40	52			50		7	
25.	Sukajadi	30	12	112	150			70		30	
26.	Sikowarias	30	12	224	298			60		59	
27.	G. Sugih Kumpang	40,5	16,2	88				80	116	23	

1	2	3	4	5	6	7	8	9	10	11	12	13
	VI. BANGUN REJO :											
28.	Tanjung Jaya										60	30
29.	Sri Pendowo										60	30
30.	Cicodadi										40	20
31.	Sidorejo										60	30
32.	Sukanegara										48	24
33.	Bangun Rejo										46	23
34.	Sinar Sapuh										36	18
	VII. KALI REJO :											
35.	Watu Agung										60	30
36.	Sinar Sari										60	30
37.	Pongowarno										60	30
38.	Cri Baruki										40	20
39.	Balai Rejo										40	20
40.	Sukatani										30	15
	VIII. TERB. BESAR :											
41.	O. Kertahayu				10,50		150	150	111	14,8		
42.	Benjar Batu						50	27	3,6			
43.	Harapan Rejo						50	45	6		140	70
44.	Endang Rejo				10		150	117,38	15,65		10,5	5,25
45.	Fajar Asri						50	45	6		140	70
46.	Adi Jaya						50	30	4		106	53
47.	Simpang Agung						50	45	6		140	70
48.	Nambah Dadi										60	30
49.	Dono Arum										60	30
50.	Selusuban										60	30
	IX. SUKADANA :											
51.	Dono Mulyo										60	30
52.	Sukareja Nuban						50	39,75	5,3		50	
53.	Bumi Jawa						50	45	6		49	
54.	Sukadana Ilir						100	92,03	12,35			
55.	Muara Jaya				9		30	22,5	3			
56.	Gedong Dalam											
	T O T A L	95	720	250	310	13	214	1335	1216,19	162,19	3273,5	959,75

1	2	14	15	16	17	18	19	20	21	22	23
	BANGUN REJO :										
28.	Tanjung Jaya		12	177	200	36				47	
29.	Sri Puntowu		12	108	100	44				28	
30.	Sidodadi		8	37		50				10	
31.	Sidorejo		12	135		180				36	
32.	Sukanegara		9,6	114	100	52				30	
33.	Bangun Rejo		9,2	55		74				14	
34.	Sinar Supetih		7,2	123		164				32	
	KALI REJO :										
35.	Watu Agung		12	120			160			32	
36.	Sinar seri		12	52			70			14	
37.	Poncowarno		12	16			22			4	
38.	Sri Detyuki		12	60			80			16	
39.	Balai Rejo		8	75			100			20	
40.	Sukasari		6	22			30			6	
	VIII. TERB. BESAR :										
41.	G. Karlahayu										
42.	Banjari Batu										
43.	Harapan Rejo		28								
44.	Endong Rejo		2			143				28	
45.	Fajar Atri		28	107		54				10	
46.	Adi Jaya		21	40		142				20	
47.	Simpang Agung		20	107		140				28	
48.	Nimban Dadi		12	105		240				48	
49.	Dono Anum		12	180		200				40	
50.	Seluarban		12	150							
	IX. SUKADANA :										
51.	Dono Muive		12	120			160			32	
52.	Sukasaja Nuban	25,25	10	110			145			29	
53.	Bumi Jawa	24,5	9	27			38			7	
54.	Sukadana Ili	15,75	6	43			57			11	
55.	Musala Jaya										
56.	Godong Dalam										
T O T A L		537	612,8	3022	2736	1510	3453	116	1035		

Source: Lampung Tani Makmur Project

Tanjungkarang May 8, 1979

Table 30: Support of Fertilizer to the Upland Dem Farm
1973/74 - 1977/78

No.	Village	1973/74		Area (Ha)	1974/75		1975/76		1976/77		1977/78	
		Urea	TSP		Urea	TSP	Urea	TSP	Urea	TSP	Urea	TSP
1.	Margo Agung											
2.	Margo Dadi											
3.	Gedung Sumanti											
4.	Kresno Widodo											
5.	Bumi Agung			15		1,500	1,500					
6.	Sukadamei											
7.	Rulung Helok	1,400	700	96,6	7,245	7,245	400					
8.	Keduyang	1,000	500	40	4,000	4,000	625	400				
9.	Merakbatin	750	375	24,5	2,450	2,450						
10.	Helangan Retu											
11.	Kagungan Retu			12,16	911	911	6,290	6,290				
12.	Pejambon											
13.	Waringin Sari											
14.	Bandung Baru											
15.	Enggal Rejo											
16.	Adi Luwih											
17.	Sidokerto	1,000	500	10,42	782,25	782,25	6,000	6,000				
18.	Duliseri	1,100	550	55,17	5,517	5,517	4,030	4,030				
19.	Renyas	1,000	500	38,16	3,816	3,816	3,275	3,275				
20.	Bumi Rahayu											
21.	Bumi Raharjo											
22.	Terb. Agung											
23.	Terb. Subing											
24.	Kosumedadi											
25.	Sukajadi											
26.	Sidowiras											
27.	G. Sugih Kempung											
28.	Tanjung Jaya											
29.	Sr. Pandawa											
30.	Sidodadi											

No.	Village	1973/74		1974/75		1975/76		1976/77		1977/78		
		Area (Ha)	TSP	Area (Ha)	TSP	Area (Ha)	TSP	Area (Ha)	TSP	Area (Ha)	TSP	
31.	Sidoarjo											
32.	Sukangera											
33.	Bangun Rejo											
34.	Sinar Seputih											
35.	Watu Agung											
36.	Sinar Sari											
37.	Ponco Werno											
38.	Sri Basuki											
39.	Balai Rejo											
40.	Sukasari											
41.	B. Kertarahayu											
42.	Banjir Retu											
43.	Harapan Rejo											
44.	Endang Rejo											
45.	Fajar Asri											
46.	Adi Jaya											
47.	Simpang Agung											
48.	Nambah Dadi											
49.	Dono Arum											
50.	Selutuban											
51.	Dono Mulyo											
52.	Sukaraja Nuban											
53.	Sumi Jawa											
54.	Sukadana Ilir											
55.	Muara Jaya											
56.	Gedong Dalam											
		62.25	6.250	3.125	390.26	32.645.25	811,7	81.170	103.700	163.700	262.005	262.005
T O T A L												

SOURCE: Lampung Tanah Makmur Project

Tanjungkarang, May 8, 1977.

5486,125

Table 31 : Land of Lampung Terni Makmur Project

No.	Location	Acreage	Land Origin				Since	Seed farm/ Trial farm	Land status (Present)			Document	Land Border	Explanation
			Methods of Transfer	ex. Owner	Storage/Office	Other								
1.	Teginenang Centre	8,9130	Compensation	Sriin Ci		10-10-73	Seed multiplication garden	-	Swamp	-	Gor. v 70/1973 SK. No. 17/PPR/LS/73		Upland	
2.	Teginenang Centre	0,1000	"	Sibawih		5-2-74	"	Godown	-	-	Gor. 70/73 SK. 11A/Popr/LS/73		Upland	
3.	Teginenang Centre	14,4500	"	Sibawih		20-3-76	Swamp	-	-	-	Gor. 6/PPGR/74 SK. No. 6/PPGR/LS/74		Swamp	
4.	Teginenang Centre	7,9030	"	Budi Nivyo ke Ci		3-3-75	Seed multiplication garden	-	-	-	Gor. 010/75 SK. No. 00/PPGR/LS/75		Upland	
5.	Teginenang Centre	0,0080	"	Sibawih		13-9-76	-	Workshop	-	-	Gor. 589/75 SK. No. 12/PPGR/LS/76		Upland	
TOTAL		32,128												

NOTE : Land and Dinnl compensation * 2,2100 Ha.
 Dinnl compensation only * 12,2300 Ha.
 Total * 14,4500 Ha.

Teginenang, July, 1980
 Proyek Terni Makmur Lampung
 Vice manager

Table 32 : List of Lampung Tani Makmur Project's Building

No.	Specification	Soil (Area)	Building (Size)	Source of fund DIP/APBN	Price	Number		Using by	Note
						In	Out		
1.	Expert House	1500 M2	150 M2	1973/1974		5	5	1. Vice Director of T.M.	Tanjungkarang
to								2. Counterpart of Extension	
5.					14,272,000			3. Mees	
								4. Ir. Yusufian	
								5. Ir. Kamaluddin S.	
6.	Input Storage	10000 M2	180 M2	1973/1974	6,557,200	1	1	Fertilizer Storage of TM	Branti
7.	Input Storage	10000 M2	180 M2	"	6,557,200	1	1	"	Totokaton
8.	Barracks			1972/1973	7,735,000	1	1	Tegineang Tani Makmur	Tegineang Centre
9.	Office		400 M2	"	13,500,000	1	1	Class room of Tani Makmur	"
10.	Generator House		50 M2	"	3,250,000	1	1	Tegineang Tani Makmur	"
11.	Water Pump House			"	2,756,000	1	1	"	"
12.	Dam/Reservoir			"	9,282,000	1	1	"	"
13.	Spring/le/R.P.			1974/1975	1,298,300	1	1	"	"
14.	Expert House		150 M2	"	7,256,850	1	1	Asistant Centre	"
15.	Laboratory		417 M2	"	18,041,000	1	1	Tani Makmur	"
16.	Prefab Storage		324 M2	"	4,756,000	1	1	Tani Makmur	"
17.	Farm Tools Storage		407 M2	"	9,625,000	1	1	Tani Makmur	"
18.	Rice Mill		300 M2	"	9,078,000	1	1	Totokaton/Tani Makmur	Totokaton
19.	Input Storage		180 M2	1975/1976	5,110,000	1	1	Fertilizer Storage of Tani Makmur	Sukedana
20.	Chemical Storage		300 M2	"	11,512,900	1	1	Pesticide Storage of Tani Makmur	Tegineang Centre
21.	Drying Floor		72 M2	"	2,158,500	1	1	Tani Makmur	"
22.	Workshop		600 M2	1976/1977	20,816,750	1	1	"	"
23.	Green House		144 M2	"	3,875,000	2	2	"	"
24.	Expert House		150 M2	"	7,483,000	1	1	Count. T.M. + General affairs assistant	"
25.	Input Storage		180 M2	1977/1978	6,126,000	1	1	Agriculture Extension Service	Batanghari
26.	Input Storage		130 M2	"	6,126,000	1	1	"	Terbanggi Besar.

Table 33: List of Laboratory equipment of Lampung Tani Makmur Project.

NO.	ITEMS	ARRIVED	UNIT	TOTAL	NOTE
	1	2	3	4	5
1.	Recording rain gauge	11-5-73	SET	1	Laboratorium
2.	Recording Anemometer	"	"	1	"
3.	Recording Wind Vane	"	"	1	"
4.	Recording Cflaparative Gauge	"	"	1	"
5.	Thermo hygrograph	"	"	1	"
6.	Transit	"	"	1	"
7.	Level	"	"	1	"
8.	Plantable Out fit	"	"	2	"
9.	Current Meter	"	"	2	"
10.	Stop Watch	"	"	3	"
11.	Hook Gauge	"	"	2	"
12.	W. Level mes for Paddy	"	"	2	"
13.	Max and Min thermo	"	"	2	"
14.	Hydro meter	"	"	2	"
15.	Stick thermometer 50°C	"	"	2	"
16.	Stick thermometer 200°C	"	"	5	"
17.	Stick thermometer 500°C	"	"	5	"
18.	Metal casefar Stick thermo	"	"	5	"
19.	Ground thermometer	"	"	1	"
20.	Ground thermometer 20 Cm	"	"	1	"
21.	Ground thermometer 30 Cm	"	"	1	"
22.	Soil Sampler	"	"	1	"
23.	Soil cap tester	"	"	1	"
24.	Balance 100 mg	"	"	1	"
25.	Balance 1 Kg	"	"	1	"
26.	Balance 5 Kg	"	"	1	"
27.	Soil & plant nourishtester	"	"	1	"
28.	Luning Lamp	"	"	1	"
29.	Moisture meter	"	"	2	"
30.	Handy tape counter	"	"	10	"
31.	Plant meter	"	"	2	"
32.	Stand Rule	"	"	2	"
33.	Curve meter	"	"	19	"
34.	Right Angular	"	"	2	"
35.	Telescopic rod	"	"	5	"

	1	2	3	4	5
36.	Drawing Draf Machine	11-5-73	SET	1	Laboratorium/T.C.
37.	Microscope	"	"	2	"
38.	Oresis Constant temp.	"	"	1	"
39.	Microtome	"	"	1	"
40.	Dest Microoodal appets	"	"	1	"
41.	Centre Fuges	"	"	1	"
42.	Cabinet fan sure suop	"	"	3	"
43.	Automatic aпараты	"	"	1	"
44.	PH. Meter	"	"	1	"
45.	EH. Meter	"	"	1	"
46.	Auto dist aпараты	"	"	1	"
47.	Microscope	20-8-74	"	2	"
48.	Petri dish 10 Cm	"	"	50	"
49.	Petri dish 20 Cm	"	"	50	"
50.	Petri dish 75 Cm	"	"	50	"
51.	Petri dish 120 Cm	"	"	50	"
52.	Test tube 200 mm	"	"	200	"
53.	PH. Meter	"	"	1	"
54.	EH. Meter	"	"	1	"
55.	Soil plant noncichdiag	"	"	2	"
56.	Soil Sampling Stick	"	"	1	"
57.	Soil Sampler	"	"	1	"
58.	Hardnes Tester	"	"	1	"
59.	Hand Level	"	"	1	"
60.	Pruning Shear's	"	"	2	"
61.	Actualy mea App	"	"	1	"
62.	Soil Sampl sub. kit	"	"	1	"
63.	Picno Meter	"	"	10	"
64.	Desicator	"	"	2	"
65.	Penetrate mea's app	"	"	1	"
66.	Tensio meter 10 Cm	"	"	1	"
67.	Tensio meter 20 Cm	"	"	1	"
68.	Tensio meter 40 Cm	"	"	1	"
69.	Tensio meter 60 Cm	"	"	1	"
70.	Tensio meter 100 Cm	"	"	1	"
71.	Suspended buchpar simpler	"	"	4	"
72.	Poison battle	"	"	4	"
73.	Hand anger par tensio	"	"	1	"
74.	Petri dish 90 Cm	"	"	50	"
75.	Microtome	"	"	1	"

	1	2	3	4	5
76.	Micro meter per eye. P	20-8-74	SET	1	Laboratorium/T.C.
77.	Micro meter per objec	"	"	1	"
78.	Cover glass	"	"	2000	"
79.	Slide glass	"	"	1000	"
80.	Pin set	"	"	1	"
81.	Bottle for immersion oil	"	"	1	"
82.	Dropping bottle	"	"	1	"
83.	Balsen bottle	"	"	1	"
84.	Staining pat	"	"	1	"
85.	Specimen case	"	"	1	"
86.	Balance PT. 3	"	"	1	"
87.	Balance C.3	"	"	1	"
88.	Digesting apparatus keedhal	15-9-74	"	1	"
89.	Flaske keedhal	"	"	100	"
90.	Automatic bureta	"	"	5	"
91.	Spare Colerling apparatus	"	"	10	"
92.	Volumetric pipete 10 mm	"	"	10	"
93.	Volumetric pipete 25 ml	"	"	10	"
94.	Volumetric pipete 50 ml	"	"	10	"
95.	Volumetric pipete	"	"	20	"
96.	Polythylene wash bottle	"	"	10	"
97.	Reagent bottle	"	"	10	"
98.	Spoon's	"	"	10	"
99.	Apparatus	"	"	10	"
100.	Pnetral system	"	"	1	"
101.	Moisture meter	"	"	1	"
102.	Batray moize	"	"	9	"
103.	Spring balance	"	"	4	"
104.	Balance Plastick	"	"	2	"
105.	Magnifying glase	"	"	1	"
106.	Holding sawel	"	"	1	"
107.	Stant tempt, room	"	"	1	"
108.	Thermometer	"	"	5	"
109.	Label	"	"	1000	"
110.	Drying oven	27-12-75	"	1	"
111.	Incubator temp. 60°C	"	"	1	"
112.	Sample Grine with	"	"	1	"
113.	Diho (Coppee-Mill)	"	"	1	"
114.	PH. Meter	"	"	1	"
115.	Analytical Balance	"	"	1	"

	1	2	3	4	5
116.	Dispensing Balance	27-12-75	SET	1	Laboratorium/T.C.
117.	Spring Balance 10 Kg	"	"	1	"
118.	Spring Balance 2 Kg	"	"	1	"
119.	Nitrogen Disting appen	"	"	1	"
120.	Dispensing balance 1,6 Kg	"	"	1	"
121.	Centrifuge with Aceoa	"	"	1	"
122.	Low Tempt. Incubator	"	"	1	"
123.	Exchange resin	"	"	1	"
124.	Soil Chemical tester	"	"	1	"
125.	Soil chardnees tester	"	"	1	"
126.	Platform Type Balance	"	"	24	"
127.	Berumer your LPG 6 as	"	"	2	"
128.	Support for buret	"	"	2	"
129.	Pruning hool	"	"	2	"
130.	Wagner pat porselain 2000	"	"	2	"
131.	Wagner pat 5000 a	"	"	100	"
132.	Wagner pat 500 a	"	"	320	"
133.	Semo meter	"	"	2	"
134.	Microscope, streo	"	"	1	"
135.	Muscom box	"	"	30	"
136.	Muscom cabinet	"	"	1	"
137.	Disnacting Instrument	"	"	3	"
138.	Micro meter	"	"	1	"
139.	Breeding page	"	"	15	"
140.	Slide case for microscope	"	"	20	"
141.	Descater 30 Cm	"	"	5	"
142.	Insectnet with rood	"	"	15	"
143.	Inproreed moisture meter	"	"	1	"
144.	Sample Duster	"	"	2	"
145.	Sample Crusher	"	"	2	"
146.	Grain Moisture	"	"	1	"
147.	Standard grain Moisture	"	"	1	"
148.	Brush for pipet	"	"	10	"
149.	Ruber squerat	"	"	10	"
150.	Fellter peper	"	"	15	"
151.	Felles 20 Cm	"	"	2	"
152.	Mortor's	"	"	3	"
153.	Reagen Batle's	"	"	5	"
154.	Arcel thermometer 50°C	"	"	10	"
155.	Arcel thermometer 100°C	"	"	10	"
156.	Water Requirement Equipment	"	"	15	"

	1	2	3	4	5
157.	Beaker: 100 ml, 300 ml 500 ml	27--12--75	SET	150	Laboratorium/T.C.
158.	Erlenmayer Flasher 100 ml + 300 ml	"	"	100	"--"
159.	Keadhat glass	"	"	50	"--"
160.	Watch glass	"	"	10	"--"
161.	Reagen Botle: 250, 500, 1000 ml	"	"	30	"--"
162.	Weghting Botle	"	"	30	"--"
163.	Tube Glass 4 mm	"	"	5	"--"
164.	Tube Glass 6 mm	"	"	5	"--"
165.	Glass Rod 4 mm	"	"	5	"--"
166.	Asperater's	"	"	5	"--"
167.	Peunvel's 45 mm	"	"	10	"--"
168.	Peunvel's 60 mm	"	"	10	"--"
169.	Peunvel's 90 mm	"	"	10	"--"
170.	Polyethylene washing botle	"	"	5	"--"
171.	Slide glass	"	"	1000	"--"
172.	Cover glass	"	"	2000	"--"
173.	Brush for washing botle No. 1	"	"	10	"--"
174.	Brush for washing botle No. 2	"	"	10	"--"
175.	Brush for washing botle No. 4	"	"	10	"--"
176.	Spesial large sine	"	"	10	"--"
177.	Poistan culture 9 Cm Ø	"	"	100	"--"
178.	Poistan culture 15 Cm Ø	"	"	50	"--"
179.	Poistan culture 19 Cm Ø	"	"	100	"--"
180.	Test tube	"	"	200	"--"
181.	Measuring Cylinder 20 ml	"	"	5	"--"
182.	Measuring Cylinder 100 ml	"	"	5	"--"
183.	Measuring Cylinder 500 ml	"	"	5	"--"
184.	Measuring Cylinder 1000 ml	"	"	5	"--"
185.	Pepet's 1 ml & 2 ml	"	"	10	"--"
186.	Volumetric Pipet's 5 ml	"	"	5	"--"
187.	Volumetric Pipet's 25 ml	"	"	5	"--"
188.	Volumetric Pipet's 50 ml	"	"	5	"--"
189.	Buret w/cook	"	"	5	"--"
190.	Volumetric flask's 90 ml	"	"	10	"--"
191.	Volumetric flask's 100 ml	"	"	10	"--"
192.	Volumetric flask's 250 ml	"	"	5	"--"
193.	Volumetric flask's 500 ml	"	"	5	"--"
194.	Volumetric flask's 1000 ml	"	"	5	"--"
195.	Rubber Stonpex's	"	"	1	"--"
196.	Muscum yar 6 cm	"	"	10	"--"

	1	2	3	4	5
197.	Museum jar 30 cm	27-12-75	SET	10	Laboratorium/T.C.
198.	Plastic bottle	"	"	200	"
199.	Theragraph W/Recorder	"	"	2	"
200.	Auto level 34	"	"	2	"
201.	Cren penetrater	"	"	1	"
202.	Meek change 30 cm	"	"	20	"
203.	Curent meter	"	"	1	"
204.	Bimatalic actrogrep 7 day's	"	"	1	"
205.	Distilling aparatus	"	"	1	"
206.	Draft chamber with	"	"	1	"
207.	Bottle for Inclet bereading and were	"	"	100	"
208.	Meganfying glass with stand	20-9-76	"	20	"
209.	Incet Poreeding Box	"	"	10	"
210.	For Cap's	"	"	20	"
211.	Chat ching ort far incet	"	"	20	"
212.	Pre pared slide kit	"	"	1	"
213.	Rain gauge	"	"	2	"
214.	Plastic Inclase set	"	"	10	"
215.	Automatical Dialy all umment incet Colector	"	"	5	"
216.	Vinyl Plate	"	"	20	"
217.	Memberling	"	"	20	"
218.	Semi logar than section paper	"	"	10	"
219.	Wagner pat	"	"	50	"
220.	Robitach Aktinograph	"	"	1	"
221.	Nematode Detection Instrument	"	"	1	"
222.	Clock dish	"	"	20	"
223.	Whasing botle	"	"	5	"
224.	Polyethylene tank	"	"	100	"
225.	Ikeda tray white, 74x66, 5x10 cm	"	"	10	"
226.	Ikeda Tray white 65,5x60, 5x6cm	"	"	10	"
227.	Gum Tapal	"	"	20	"
228.	Recording thermo higrometer	"	"	1	"
229.	Microscope	"	"	1	"
230.	Foto adaftr for above	"	"	1	"
231.	Incet pin No. 4	"	"	30	"
232.	Incet case 13x16 mm	"	"	50	"
233.	Incet pin No. 3	"	"	20	"
234.	Incet pin No. 2	"	"	20	"
235.	Slide Plate No. 4	"	"	5	"
236.	Slide plate No. 4	"	"	5	"

	1	2	3	4	5
237.	Slide plate No. 5	20-9-76	SET	5	Laboratorium/T.C.
238.	Slide plate No. 6	"	"	5	"
239.	Incet pin (Micropin)	"	"	10	"
240.	Spectro photo meter	"	"	1	"
241.	PH. Meter	"	"	1	"
242.	EH. Meter	"	"	1	"
243.	Clemo meter	"	"	1	"
244.	Soil tester yagi	"	"	1	"
245.	Soil and plour neonis tester	"	"	1	"
246.	Hot plate M.P. 45	"	"	1	"
247.	Microscope	16-10-76	"	1	"
248.	Foto adaptor for above	"	"	1	"
249.	Incet cuse 13x6	"	"	50	"
250.	Incet pin No. 4	"	"	30	"
251.	Incet pin No. 3	"	"	20	"
252.	Incet pin No. 2	"	"	20	"
253.	Slide plate No. 1	"	"	5	"
254.	Slide plate No. 4	"	"	5	"
255.	Slide plate No. 5	"	"	5	"
256.	Slide plate No. 6	"	"	5	"
257.	Bottle for Insectisida	"	"	100	"
258.	Sehitan - san	"	"	3	"
259.	Parazal	"	"	20	"
260.	Fuchsin asic	"	"	3	"
261.	Kasei - kari	"	"	3	"
262.	Amonia	"	"	3	"
263.	Polyethyrene	"	"	5	"
264.	Polyethyrene And lose	"	"	1	"
265.	Cheinot potolene 5 gr	"	"	2	"
266.	Dotite N.N. 25 gr	"	"	5	"
267.	Potassium Nitrogen	"	"	10	"
268.	Trincular zoon strio Microscope	"	"	1	"
269.	Strocke Shaker	"	"	1	"
270.	Hot Plate	"	"	1	"
271.	Water bath	"	"	1	"
272.	Magnetic Stainer	"	"	1	"
273.	Nitrogen Degisting and Destilling	"	"	1	"
274.	Ekemoto Steam Stereling	"	"	2	"
275.	Aseptic Box	"	"	1	"
276.	Pipet Automatic Cleaner	"	"	1	"

	1	2	3	4	5
277.	Balance Kiya 1022-c	16-10-76	SET	1	Laboratorium/T.C.
278.	Spring Balance	"	"	1	"
279.	Standard Spesivic meter	"	"	1	"
280.	Centra fuge 110v-50 Hz	"	"	1	"
281.	Flame photo meter	"	"	1	"
282.	Spectro photo meter	16-8-77	"	1	"
283.	Draying shel	"	"	1	"
284.	P.H. Meter	"	"	2	"
285.	Grain Moisture meter	"	"	20-2	"
286.	Oil Circulate vacum pump	"	"	1	"
287.	Hand level	"	"	2	"
288.	Support base shebata	"	"	5	"
289.	Support Shebata	"	"	5	"
290.	Support Funnel shabata	"	"	3	"
291.	Support Buret holder	"	"	2	"
292.	Thermometer Mercury Filled 50°C	"	"	5	"
293.	Thermometer Mercury Filled 100°C	"	"	5	"
294.	Thermometer Mercury Filled 200°C	"	"	5	"
295.	Magnifying Gflass Fication	"	"	2	"
296.	Test tube Soppot wooden	"	"	50	"
297.	Fill Size 20 cm	"	"	5	"
298.	Wagner pat	"	"	60	"
299.	Glass tubing (palat batton)	"	"	30	"
300.	Clamp	"	"	100	"
301.	Robber Stopper	"	"	1	"
302.	Rubber tubing (Black) 4 mm x 10	"	"	10	"
303.	Rubber Tubing (Black) 6 mm x 10	"	"	10	"
304.	Rubber Tubing (Black) 8 mm x 10	"	"	10	"
305.	Rubber bulb far. 10 ml	"	"	5	"
306.	Spatula	"	"	5	"
307.	Filter paper No. 2	"	"	3	"
308.	Filter paper No. 6	"	"	3	"
309.	Pipet Sport	"	"	1	"
310.	Cruk Barer	"	"	1	"
311.	Cruk Cable tang	"	"	5	"
312.	Brush	"	"	160	"
313.	Spoon & Drug	"	"	5	"
314.	Agate Morter	"	"	1	"
315.	Porcelain Morter	"	"	5	"
316.	Grain Micro meter	"	"	20	"

	1	2	3	4	5
357.	Glass tubing hard Type 6 mm	16-8-77	SET	10	Laboratorium/T.C.
358.	Glass rod hard Type 4 mm	"	"	5	"
359.	Vaccum Grease	"	"	1	"
360.	Electriating apparatus Pipet Metod	21-8-78	"	1	"
361.	Hot Plate Model HM 11. 110 V. 50 Hz.	"	"	1	"
362.	Photo electric color meter	"	"	1	"
363.	Balance For Centrifuge	"	"	1	"
364.	Water bath	"	"	1	"
365.	Disphasing balance	"	"	1	"
366.	Hand Tally Counter	"	"	4	"
367.	Pipet Stand with glass	"	"	1	"
368.	Tougue for cricible	"	"	5	"
369.	Stop Watch	"	"	2	"
370.	Monometer borete	"	"	1	"
371.	The panometer, engroved Steam	"	"	10	"
372.	Filter paper No. 2	"	"	3	"
373.	Filter paper No. 3	"	"	2	"
374.	Brush	"	"	1 lot	"
375.	Rubber tube	"	"	1 lot	"
376.	Buret Stand	"	"	2	"
377.	Corck borer 12 set	"	"	2	"
378.	Glass plate Counter With Diamon	"	"	2	"
379.	Nitrogen Distelling	"	"	1	"
380.	Fupel Stand	"	"	2	"
381.	Rubber Stoper Balck	"	"	1	"
382.	Burner Propine	"	"	5	"
383.	Rubber Bulb	"	"	5 Pc	"
384.	Rubber Blower Tho bulb	"	"	5 Pc	"
385.	Asbestos wire gauge	"	"	5 Pc	"
386.	Polyethyene botle	"	"	1 Set	"
387.	Wigner pot	"	"	30 Pet.	"
388.	Wing Extention board	"	"	5 Pc.	"
389.	Polyethyene washing botle	"	"	1 Set	"
390.	Tweezer oil	"	"	10 Pc	"
391.	Scisor's	"	"	10 Pc	"
392.	Incet pin	"	"	10 Pak	"
393.	Polyethylene Board	"	"	5 Pc	"
394.	Extention Board	"	"	5 Pc	"
395.	Specimen Botle 9cmx15cm	"	"	30 Pc	"
396.	Glass tube with corck 1,5x6 cm	"	"	200 Pc	"

	1	2	3	4	5
317.	Gauze with Asbestor Centre	26-8-77	SET	5	Laboratorium/T.C.
318.	Needle Holden with Nichrome wire	"	"	5	"
319.	Rubfear Spray	"	"	4	"
320.	Quantitative Flask	"	"	1 lot	"
321.	Sample glass bottle	"	"	5000	"
322.	Polyvinife sheet	"	"	10	"
323.	Wavy board for rice	"	"	20 rol	"
324.	Minature Theresting machine	"	"	1 Set	"
325.	Seed Detector	"	"	1	"
326.	Volume Tric pipet	"	"	10	"
327.	Komagome pipet	"	"	10	"
328.	Beaker hario glass 100 ml	"	"	20	"
329.	Beaker hario glass 300 ml	"	"	20	"
330.	Beaker hario glass 1000 ml	"	"	20	"
331.	Toal beaker hario glass 300 ml	"	"	20	"
332.	Funel hard glass	"	"	40	"
333.	Automatic buret capacity 50 ml	"	"	5	"
334.	Buret 10 ml	"	"	5	"
335.	Buret 50 ml	"	"	5	"
336.	Graduated cylinder 25 ml	"	"	5	"
337.	Graduated cylinder 100 ml	"	"	5	"
338.	Graduated cylinder 250 ml	"	"	5	"
339.	Graduated cylinder 500 ml	"	"	5	"
340.	Graduated cylinder 1000 ml	"	"	5	"
341.	Erlin mayer feaste hario glass 100 ml	"	"	20	"
342.	Erlin mayer 200 ml	"	"	20	"
343.	Erlin mayer 500 ml	"	"	30	"
344.	Erlin mayer 1000 ml	"	"	10	"
345.	Wide month reagent botlie 1000 ml	"	"	10	"
346.	Narrow month reagent botlie 120ml	"	"	10	"
347.	" 250 ml	"	"	10	"
348.	" 500 ml	"	"	10	"
349.	" 1000 ml	"	"	10	"
350.	Flash kjeldahl 100 ml	"	"	50	"
351.	Flash kjeldahl 200 ml	"	"	50	"
352.	Centrifuge tube hario glass	"	"	30	"
353.	Weighing botlie hario glass	"	"	50	"
354.	Alcohol lamp	"	"	5	"
355.	Sucher	"	"	5	"
356.	Glass tubing hard Type 4 mm	"	"	10	"

	1	2	3	4	5
397.	Glass Tube with cork 1,5x3,6cm	21-8-78	PC	200	Laboratorium/T.C.
398.	Glass Tube 27 x 55 mm	"	"	200	"
399.	Insect killing bottle	"	"	20	"
400.	Extention tape	"	"	10	"
401.	Insect collection set	"	"	50	"
402.	Insect sex	"	"	100	"
403.	Glass tube with pin	"	"	50	"
404.	Insect level	" "	PAK	50	"
405.	Paste	"	PC	3	"
406.	Parazo	"	"	30	"
407.	Naphtaline	"	PAK	10	"
408.	Crenote	"	CAN	3	"
409.	Graderated Cylinder 250°C	"	PC	200	"
410.	Desicator with tublation	"	"	5	"
411.	Desicator	"	"	5	"
412.	Evaporating dish	"	"	10	"
413.	Glass Tube Ryrex Ø4m/m	"	"	1	"
414.	Glass Tube Ryrex Ø6m/m	"	"	1	"
415.	Glass Tube Ryrex Ø9m/m	"	"	1	"
416.	Glass rod ryrex Ø6 m/m	"	"	10	"
417.	Centrifuge tube 50 ml	"	"	10	"
418.	Centrifuge tube 100 ml	"	"	10	"
419.	Tall Beaker	"	"	20	"
420.	Funnel Ø6 cm	"	"	20	"
421.	Funnel Ø9 cm	"	"	20	"
422.	Flask Round Bottom 50 ml	"	"	15	"
423.	Flask Round Bottom 100 ml	"	"	15	"
424.	Flask Round Bottom 200 ml	"	"	15	"
425.	Flask Round Bottom 300 ml	"	"	10	"
426.	Flask Round Bottom 500 ml	"	"	10	"
427.	Flask Round Bottom 1000 ml	"	"	10	"
428.	Flask Rycesdhal	"	"	50	"
429.	Who'e Volume Trick Pipet 5 ml	"	"	5	"
430.	Who'e Volume Trick Pipet 10 ml	"	"	5	"
431.	Who'e Volume Trick Pipet 50 ml	"	"	5	"
432.	Peppete Romogonie's	"	"	10	"
433.	Measuring Cylinder 25 ml	"	"	5	"
434.	Measuring Cylinder 100 ml	"	"	5	"
435.	Measuring Cylinder 500 ml	"	"	5	"
436.	Measuring Cylinder 1000 ml	"	"	5	"

	1	2	3	4	5
437.	Beaker 100 ml	21-8-78	PC	20	Laboratorium/T.C.
438.	Beaker 200 ml	"	"	20	--"
439.	Beaker 300 ml	"	"	20	--"
440.	Beaker 1000 ml	"	"	20	--"
441.	Auto Buret	"	SET	2	--"
442.	Color Comparison tube 50 ml	"	"	30	--"
443.	Color Comparison tube 100 ml	"	"	20	--"
444.	Reager Bottle Narrow 100 ml	"	"	5	--"
445.	Reager Bottle Narrow 250 ml	"	"	5	--"
446.	"Dik" Soil Sampling Model: 156 W/Case	1979	"	20	--"
447.	Magnifying glass 20x & 30 low kind/set	"	SET	20	--"
448.	Rice & Barly Moisture meter Model: "KIYA" 148-C W/cell x 1 doz	"	"	15	--"
449.	Table Spring balance Model: "KIYA" 1042-B	"	PCS	20	--"
450.	Plastick beaker Graduated 100 cc	"	"	500	--"
451.	Siale wood made Lugth. 1 m	"	"	20	--"
452.	Soil Sterilizer Model: HF-4 B Capacity: 2 L	"	"	5	--"
453.	Scrissors for flower W/Skin Case	"	"	50	--"
454.	Short sward for flower W/wood case	"	"	50	--"
455.	Seed Sampler set, Nobbe Small Type Model: "KIYA" 102 Size: 0.8x45 cm, 1.0x50 cm 1.2x55 cm, 1.5x60 cm (Per set each 1 per)	1980	SET	5	Laboratorium Tegineng Centre.
456.	Seed Sampler pah, with Hopper Model: KIYA. 105-B Size 9 x 14 x 1 cm	"	PCS	60	--"
457.	Testing rice Husker for one ear Model: KIYA 114, Size. 10 Ø x 4 cm	"	PCS	5	--"
458.	Germinator, Liebenberg Type Model: KIYA 111, Size: 42x29,5 cm W/glase plate, Thermometer	"	SET	20	--"

	1	2	3	4	5
459.	Microscope "OLYMPUS" Model: CHC-012 SP With Standard Accessories	1980	SET	10	Untuk Laboratorium Tegineeng Centre.
460.	Storage case Model: KIYA No. 4971 B	"	"	1	"
461.	Table Spring Balance, KIYA	"	"		
1.	Capacity 2 Kgs Mod.: 1042A	"	"	1	"
2.	" 4 " " : 1042B	"	"	1	"
3.	" 8 " " : 1042C	"	"	1	"
4.	" 10 " " : 1042D	"	"	3	"
5.	" 50 " " : 1042J	"	"	1	"
462.	Nitrogen Distillation Aparatus "KIYA"				
1.	Shioeri-Okuda Type Mod: 370	"	"	1	"
2.	Kjeldahl Type Mod: 404	"	"	2	"
463.	Centrifuge "HITAHURA" Model: 27-25D Capacity: 100 ml Power Source: 110V, 50Hz 10 Revolution: 4,000 RPM With Standard Accessories	"	"	1	"
464.	Soil Exchange capacity Determination apparatus Model: "KIYA" 375 With Standard Accesories	"	"	2	"
465.	Automatic Muffle furnace Model: "KIYA" 3925 Power source: 110V, 50 Hz, 10 Max Tempt: 1,200° C	"	"	1	"
466.	Willey, Cutting Mill Model: "KIYA" 4211-B Power Source: 110V, 50 Hz, 10	"	"	1	"
467.	Soil Actual Volumeter Model: "KIYA" 331-B Standard set	"	"	1	"
468.	Desiccant, Silicegel 500 g /Package	"	P Kgs	100	"
469.	Degital analytical balance Model: R41, "MITAMURA" 20-40 Capacity: 160 g Sensivity: 0,1 mg	"	SET	1	"

	1	2	3	4	5
470.	Direct reading table balance Model: PC-400 Cap : 400 g Sensitivity: 1 mg	1980	SET	1	Untuk Laboratorium Tegineneng Centre.
471.	Moisture Meter, with cell 1 doz Model: "KIYA" 148-C Riceter-3	"	"	15	"--"
472.	Soil Sedimentation Aparatus, Model: KIYA 326 Without Support With Standard Accessories	"	"	1	"--"
473.	Volumetric flask, 2306-50A	"			
1.	50 ml "SIBATA KOGAKU"	"	PCS	20	"--"
2.	100 ml	"	"	20	"--"
3.	200 ml	"	"	20	"--"
474.	Beaker 1002				
1.	100 ml "SHIBATA KOGAKU"	"	"	30	"--"
2.	200 ml	"	"	10	"--"
3.	1000 ml	"	"	5	"--"
4.	5000 ml	"	"	1	"--"
475.	Beaker tall, form 1004 1.500 ml "SHIBATA KOGAKU"	"	"	5	"--"
476.	Erlenmeyer flask, 1053				
1.	100 ml "SHIBATA KOGAKU"	"	"	50	"--"
2.	200 ml	"	"	10	"--"
3.	300 ml	"	"	10	"--"
4.	2000 ml	"	"	5	"--"
477.	Pipet with Rubber, 2051				
1.	1 ml "SHIBATA KOGAKU"	"	"	5	"--"
2.	3 ml	"	"	5	"--"
3.	5 ml	"	"	5	"--"
4.	10 ml	"	"	5	"--"
478.	Pipet With Rubber bulb RK13396	"	"		"--"
1.	25 ml "IKEMOTO-RIKA"	"	"	5	"--"
479A.	Pipet Volumetric 2040				
1.	1 ml "SHIBATA KOGAKU"	"	"	10	"--"
479B.	Pipet Volumetric 2040				
2.	2 ml "SHIBATA KOGAKU"	"	"	10	"--"
3.	3 ml	"	"	10	"--"
4.	20 ml	"	"	10	"--"
5.	100 ml	"	"	5	"--"

	1	2	3	4	5
480.	Funnel "SHIBATA KOGAKU"	1980			
1.	3 cm ØRKL	1980	PCS	10	Laboratorium Tegine- neng Centre.
2.	4,5 cm Ø	" "	"	10	"
481.	Vinyl pipe, "IKEMOTO-RIKA"				
1.	Innersize: 4 mm Outerisize 5 mm Ø	" "	"	10	"
2.	Innersize: 5 mm Outerisize 7 mm Ø	" "	"	10	"
3.	Innersize: 7 mm Outerisize 9 mm Ø	" "	"	10	"
4.	Innersize: 10 mm Outerisize 13 mm Ø	" "	"	10	"
482.	Evaporating dishes, "IKEMOTO-RIKA"				
1.	Flat bottom 50 mm Ø	" "	"	20	"
2.	Flat bottom 80 mm Ø	" "	"	20	"
3.	Round Bottom 100 mm Ø	" "	"	10	"
483.	Crucible, Porcelain with Cover 30 ml "IKEMOTO-RIKA"	" "	"	30	"
484.	Funnel, Buchner Type "IKEMOTO-RIKA"				
1.	Outersize: 9 cm	" "	"	2	"
2.	Outersize: 12 cm	" "	"	2	"
485.	Filtering flask, IKEMOTO- RIKA 1000 ml	" "	"	5	"
486.	Filter paper, TOYO-ROSHI				
1.	No. 2. 9 cm perbox 100 sheet	" "	BOXES	10	"
2.	No. 5A 11 cm ..	" "	"	10	"
3.	No. 5C 11 cm ..	" "	"	5	"
4.	No. 6 11 cm ..	" "	"	20	"
5.	No. 2 11 cm ..	" "	"	10	"
487.	Graduated Cylinder "SHIBATA KOGAKU" 50 ml	" "	PCS	5	"
488.	Nitrogen Micro Diffusion Unit. With Stirring bar 3 Pcs/30 sets	" "	SET	30	"
489.	Polyethylene bottle, wide mount				
1.	500 ml "IKEMOTO-RIKA"	" "	"	10	"
2.	1000 ml	" "	"	10	"

	1	2	3	4	5
490.	Polyethylene beaker, "IKEMOTO-RIKA" 2 lit	1980	PCS	2	Laboratorium
491.	Polyethylene Beaker, " "IKEMOTO-RIKA" 5 lit	..	PCE	1	--
492.	Alminon 25 g "KARTO-KA- GAKU"	..	..	1	--
493.	Ammonium Carbonate, "KARTO-KAGAKU" 500 g	..	..	2	--
494.	Ammonium Nitrate "KARTO-KAGAKU" 500 g	..	PCS	2	--
495.	Ammonium Metavanadate "KARTO-KAGAKU" 25 g	..	PCE	1	--
496.	Barium Chloride "KARTO-KAGAKU" 500 g	..	PCS	2	--
497.	Charcoal Bone, "KARTO-KAGAKU" 500 g	..	..	1	--
498.	Activated Charcoal "KARTO-KAGAKU" 500 g	..	..	1	--
499.	Calcium Carbonate "KARTO-KAGAKU" 500 g	..	..	2	--
500.	2,4 Dinitrophenol "KARTO-KAGAKU" 25 g	..	PCE	1	--
501.	Crease for highvacumm "KARTO-KAGAKU" 2 doz	..	PCE	1	--
502.	Ferrous Ammonium sulfate "KARTO-KAGAKU" 500 g	..	PCS	3	--
503.	Manganese Chloride "KARTO-KAGAKU" 500 g	..	PCE	1	--
504.	Manganese sulfate "KARTO-KAGAKU" 500 g	..	..	1	--
505.	Sodium carbonate, Anhyd "KARTO-KAGAKU" 500 g	..	..	2	--
506.	Sodium Chloride, "KARTO-KAGAKU" 500 g	..	..	2	--
507.	Sodium thiosulfate "KARTO-KAGAKU" 500 g	..	..	2	--
508.	Potassium Nitrate "KARTO-KAGAKU" 500 g	..	..	2	--
509.	Pottasium permanganate "KARTO-KAGAKU" 500 g	..	..	1	--
510.	Potassium Hydroxide "KARTO-KAGAKU" 500 g	..	PCS	5	--

	1	2	3	4	5
511.	Potassium phosphate, Dibasic "KARTO-KAGAKU" 500 g	1980	PCS	2	Laboratorium
512.	Silver Nitrate "KARTO-KAGAKU" 25 g	" "	"	2	"
513.	Quarz sand "KARTO-KAGAKU" 500 g	" "	"	2	"
514.	Saccharose, "KARTO-KAGAKU" 500 g	" "	"	1	"
515.	Starch Soluble "KARTO-KAGAKU" 500 g	" "	"	1	"
516.	Toluene, "KARTO-KAGAKU" 500 g	" "	"	1	"
517.	PH Standard Solution "KARTO-KAGAKU" PH. 4, 7, 9 set	" "	"	2	"
518.	Hydrogen peroxide "KARTO-KAGAKU" 500 g	" "	"	3	"
519.	Potassium chloride "KARTO-KAGAKU" 500 g	" "	"	10	"
520.	1. Soda lime, small "KARTO-KAGAKU" 500 g	" "	"	2	"
	2. Soda lime, Middle "KARTO-KAGAKU" 500 g	" "	"	2	"
521.	Silver Sulfate "KARTO-KAGAKU" 25 g	" "	"	3	"
522.	Cum Stopper No. 19 "KARTO-KAGAKU"	" "	"	5	"

Table 34: List of Agriculture Extension Inventory of the Lampung Tani Makmur Project
1973 - 1979

No.	KIND OF MATERIAL	T Y P E	Sen- ding Year	Total	Contre	Int, hat & Publi- cation	Field Ex. Agr. Ex. tension worker (PPL)	Agr. Ex. tension Service	S t o r a g e			N O T E
									Good	damaged		
1	2	3	4	5	6	7	8	9	10	11	12	
1.	Type writer	Sterling	1973	1	-	-	-	1	0	-	REC	
2.	"	Helmes	1973	1	-	-	-	1	-	-	REC	
3.	"	Helmes 70 EL	1974	2	2	-	-	-	-	-	MR TATENO & MR SUGAWARA	
4.	"	Helmes V 2	1977	2	2	-	-	-	-	-	T.M.S. Administration room	
5.	"	Olivetti Studio 46	1979	4	4	-	-	-	-	-	1. Material 2. Workshop 3. MR. TATENO	
6.	Type writer	Delimo M 1525	1973	1	1	-	-	-	-	-	Material Division	
7.	Type writer	Delimo M 1525	1980	2	2	-	-	-	-	-	Material Division	
8.	Copying Machine	Rich 680	1973	1	1	-	-	-	-	-	T.M.S. administration	
9.	"	Rich 6S 310	1974	1	1	-	-	-	-	-	"	
10.	"	Rich High Star 400	1976	1	1	-	-	-	-	-	"	
11.	"	Rich DT - 850	1980	1	1	-	-	-	-	-	"	
12.	Calculator	Casio	1973	2	2	-	-	-	-	-	Planning Bureau	
13.	"	Casio	1974	2	1	-	-	1	-	-		
14.	"	Figer	1973	3	3	-	-	-	-	-		
15.	"	Sharp	1974	1	1	-	-	-	-	-	MR NODA	
16.	"	Casio	1976	13	-	-	13	-	-	-		
17.	"	Sharp	1977	10	10	-	-	-	-	-		
18.	"	Casio A 1	1979	15	-	-	-	-	15	-	ASS + COUNTERPARTS	
19.	Movie projector 16 mm	Elmo	1973	1	-	1	-	-	-	-	ASS + COUNTERPARTS	
20.	" 16 mm	Elmo	1977	2	-	-	-	-	2	-	Storage	
21.	Calculator	Casio	1980	20	-	-	-	-	-	-	Storage	
22.	Movie projector 16 mm	Elmo 16 AA	1978	1	-	-	-	-	-	-		
23.	" 16 mm	Elmo 16 AA	1979	1	-	-	-	-	1	-		
24.	Movie projector 8 mm	Elmo K 100 SM	1976	1	-	-	-	-	1	-		
25.	" 8 mm	Elmo SP - A	1977	2	-	1	-	-	1	-		
26.	" 8 mm	Elmo K 100 SM	1979	2	-	-	-	-	2	-		

1	2	3	4	5	6	7	8	9	10	11	12
27.	Screen	Elmo	1973	1							REC Bandar Jaya
28.	"	Elmo HS - 4	1977	2				1	1		
29.	"	Elmo	1978	1					1		
30.	Slide projector	Elmo AS 1000 T	1973	1		1					
31.	"	Elmo AS 1000 T	1974	1					1		
32.	"	Elmo S 300	1976	3				2			REC Bandar Jaya + REC Pring Semu
33.	"	Elmo A 30	1977	2						2	
34.	Megaphone	TOA ER 64 S	1973	3		3					
35.	"	TOA ER 64 S	1974	5	1		4				
36.	"	TOA ER 64 S	1975	8			8				
37.	"	TOA ER 64 S	1977	4				2	2		
38.	"	TOA ER 64 S	1978	5					5		
39.	Tape Recorder	National reel	1973	1					1		
40.	"	Sony CF 1700	1974	2		2					
41.	"	Sony TC 150	1975	2							Lost
42.	"	National RQ 413 S	1977	4				2	2		REC
43.	"	Sony CIN 333 S	1979	5					5		Storage
44.	Transmission of reception app	TOA TA - 247 D	1973	1		1					
45.	Amplifier	TOA CA - 555	1978	1		1					
46.	Inverter		1978	1		1					
47.	Stabilizer	ELMO SVC - 2010	1978	1		1					
48.	Generator	HONDA E 2000	1978	1		1					
49.	Microphone	Dinamit DM - 620	1978	1		1					
50.	Loud Speaker	TOA SC - 25 C	1978	2		2					
51.	Over Head projector	Elmo HP 300	1976	1		1					
52.	"	Elmo HP 252	1977	1					1		
53.	Telephone	Pondevox	1973	1				1			Representative of T.M. (Tg. Karang)
54.	Ref regator	Fuji 1701	1973	1	1						
55.	Ref regator	National NR 200 F	1974	2	1						
56.	Black board	Lion 900 x 1800	1973	3		3					BARRACKS 1, R 1 - 1, R 2 - 1
57.	"	Lion 80 x 112	1974	10		10					
58.	"	Lion 900 x 1200	1975	10	10						Teginaneng Centre Office
59.	"	Lion 90 x 180	1975	12	10						Teginaneng Centre Office
60.	White board	Lion 900 x 180	1978	4	1						R.S (meeting room)/Agriculture Extension service Tg. Karang
61.	"	FPS - 152.15 K 60 C	1978	70				91	29		F. Laiman
		Kokuyo									

1	2	3	4	5	6	7	8	9	10	11	12	
62.	Camera	Canon F Tb.	1974	1	-	1	-	1	-	-	-	REC Dandar Jaya/Pring Sewu Storage
63.	"	Asahi Pentax	1975	1	-	1	-	-	-	-	-	-
64.	"	Olympus 35 DUB	1975	2	-	-	-	2	-	-	-	-
65.	"	Olympus OM - 1	1979	1	-	-	-	-	1	-	-	-
66.	Movie Camera	Elmo Super 311	1976	1	-	1	-	-	-	-	-	-
67.	"	Elmo Super 8 Pemd	1977	1	-	-	-	-	1	-	-	-
		350 SL										
68.	Paper Cutter	Lion	1974	2	2	-	-	-	-	-	-	Tuying room
69.	"	Lion	1977	1	-	1	-	-	-	-	-	Totokaton
70.	Portable Bed	Lion	1974	14	14	-	-	-	-	-	-	Material
71.	Phiodolit	Nikon NP 2	1973	1	-	-	-	-	-	-	-	Ir. Sawadi Con
72.	"	Nikon H. 5-25 K	1976	1	-	-	-	-	-	-	-	Material
73.	Level AF	Nikon	1973	1	-	-	-	-	-	-	-	Material
74.	Level AF	Nikon	1976	2	-	-	-	-	2	-	-	Tani Makmur Centre room
75.	Steel Cabinet	Lion TIS 84-4	1973	6	5	-	-	1	-	-	-	Tani Makmur Tanjungkarang
76.	"	Lion TIS 84-4	1974	5	5	-	-	-	-	-	-	-
77.	"	Lion	1973	3	3	-	-	-	-	-	-	-
78.	Steel Filing Cabinet	Lion B 6 - 27	1977	1	1	-	-	-	-	-	-	-
79.	Steel Rak	Lion Z - 5	1977	2	2	-	-	-	-	-	-	-
80.	Duplicating Machine	Ricoh B - 4	1973	1	1	-	-	-	-	-	-	Administration room
81.	"	Ricoh E - 80	1976	1	1	-	-	-	-	-	-	Administration room
82.	"	Ricoh M - 205	1977	2	-	-	-	-	2	-	-	-
		Ricoh E - 80	1979	5	-	-	-	-	3	-	-	Storage
		Lion 3 x 4 10/lamp	1976	1	-	1	-	-	-	-	-	-
83.	Tracing board	Lion 120 x 900	1976	2	-	2	-	-	-	-	-	-
84.	Drawing table	Lion m - 100	1976	20	20	-	-	-	-	-	-	Material
85.	Hamberling	Lion M - 170	1977	1	-	1	-	-	-	-	-	Information
86.	Paper drill	Lion M - 34	1977	2	2	-	-	-	-	-	-	Administration
87.	Stepler	Toko 800 Ricoh	1977	1	-	1	-	-	-	-	-	-
88.	Offset printing Machine	Master Fox 8-45	1977	1	-	1	-	-	-	-	-	-
89.	Plate Maker Ricoh	Singer 289-51 T	1977	4	4	-	-	-	-	-	-	-
90.	Electric Memograph	National	1979	1	-	-	-	-	-	-	-	-
91.	Sound System	WA 565		14	-	-	-	-	-	-	-	1
	a. Amplifier	WS 1200 N		1	-	-	-	-	-	-	-	14
	b. Speaker	MIN 312		1	-	-	-	-	-	-	-	1
	c. Microphone	WN 138		1	-	-	-	-	-	-	-	1
	d. Mic. Stand											

1	2	3	4	5	6	7	8	9	10	11	12
62.	Camera	Canon F Tb.	1974	1	-	1	-	1	-	-	-
63.	"	Asahi Pentox	1975	1	-	1	-	-	-	-	REC Sonder Jaya/Pring Sewu Storage
64.	"	Olympus 35 DUB	1975	2	-	-	-	2	-	-	-
65.	"	Olympus OM - 1	1979	1	-	-	-	-	1	-	-
66.	Movie Camera	Elmo Super 311	1976	1	-	1	-	-	-	-	-
67.	"	Elmo Super 8 Pand	1977	1	-	-	-	-	1	-	-
		350 SL									
68.	Paper Cutter	Lion	1974	2	2	-	-	-	-	-	Tidying room
69.	"	Lion	1977	1	-	1	-	-	-	-	-
70.	Portable Bed	Lion	1974	14	14	-	-	-	-	-	Totokaton
71.	Phiodolt	Nikon NP 2	1973	1	-	-	-	-	-	-	Material
72.	"	Nikon H, 5-25 K	1976	1	-	-	-	-	-	-	Ir. Sawadi Con
73.	Level AF	Nikon	1973	1	-	-	-	-	-	-	Material
74.	Level AF	Nikon	1976	2	-	-	-	-	2	-	Material
75.	Steel Cabinet	Lion TIS B4-4	1973	6	5	-	-	1	-	-	Tani Makmur Centre room
76.	"	Lion TIS B4-4	1974	5	5	-	-	-	-	-	Tani Makmur Tanjungkarang
77.	"	Lion	1973	3	3	-	-	-	-	-	-
78.	Steel Filing Cabinet	Lion B 6 - 27	1977	1	1	-	-	-	-	-	-
79.	Steel Rak	Lion Z - 5	1977	2	2	-	-	-	-	-	-
80.	Duplicating Machine	Ricoh B - 4	1973	1	1	-	-	-	-	-	Administration room
81.	"	Ricoh E - 80	1976	1	1	-	-	-	-	-	Administration room
82.	"	Ricoh M - 205	1977	2	-	-	-	-	2	-	-
		Ricoh E - 80	1979	5	-	-	-	-	5	-	Storage
		Lion 3 x 4 10/lamp	1976	1	-	1	-	-	-	-	-
83.	Tracing board	Lion 120 x 900	1976	2	-	2	-	-	-	-	-
84.	Drawing table	Lion m - 100	1976	20	20	-	-	-	-	-	Material
85.	Hamberling	Lion M - 170	1977	1	-	1	-	-	-	-	Information
86.	Paper drill	Lion M - 34	1977	2	2	-	-	-	-	-	Administration
87.	Stapler	Toko 800 Ricoh	1977	1	-	1	-	-	-	-	-
88.	Offset printing Machine	Master Fox B-4S	1977	1	-	1	-	-	-	-	-
89.	Plate Maker Ricoh	Singer 289-51 T	1977	4	4	-	-	-	-	-	-
90.	Electric Memograph	National	1979	-	-	-	-	-	-	-	-
91.	Sound System	WA 565		1	-	-	-	-	1	-	-
	a. Amplifire	WS 1200 N		14	-	-	-	-	14	-	-
	b. Speaker	MN 312		1	-	-	-	-	1	-	-
	c. Microphone	WN 138		1	-	-	-	-	1	-	-
	d. Mic. Stand			-	-	-	-	-	-	-	-

7	2	3	4	5	6	7	8	9	10	11	12
											Storage
92.	Wireless empl. System, a. Wireless Amplifier b. Wireless mic.	National WX 831 WX 410 S Hanza Type A FUJI	1979	1	-	-	-	-	1	-	-
93.	Park room		1979	1	-	-	-	-	1	-	-
94.	Dark room for colour a. New professional enlarger b. Enlarger lens c. Pro of colour Lead d. Down transformer e. Colour hobby ket f. Colour paper g. Enlargement E wt h. Enlarging case i. Down transformer	FUJI Fuji S. 600 Fuji EP 50/3.5 Fuji New S 690 Fuji Fuji 13 x 18 cm Hanza Hanza Sony CPM - 31 S	1979 1979 1979 1979 1979 1979 1979 1979 1979 1980	1 1 1 1 1 30 1 1 1 1 5	- - - - - - - - - - 1	- - - - - - - - - - -	- - - - - - - - - -	- - - - - 30 1 1 1 1 3	- - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -
95.	Radio Cassette		1980	5	-	-	-	-	1	-	-
96.	Portable Calculator	Yokokawa YMP - 97	1980	1	1	-	-	-	-	-	-
											Agriculture Extension Service Tg. Karang Administration of Tg. Centre

Table 35 : List of Agriculture Equipment Inventory
1973 - 1980

NO.	ITEMS	ARRIVE	UNIT	TOTAL	NOTE
	1	2	3	4	5
I.	BULLDOZER:	Mei 73	UNIT	1	Tegineneng
1.	Bulldozer Komatsu D-60-A				Totokaton Sukabandung Gunung Batin
2.	Bulldozer Komatsu D-50-A	"	"	1	Tegineneng Totokaton Sukabandung Teluk Betung Sukanegara
3.	Bulldozer Komatsu D-30-S (Shovel) Back Hoe	"	"	1	Tegineneng C.
		"	"	1	Bekri Totokaton Way Seputih Teluk Betung Teluk Betung
4.	Fork lift	"	"	1	
II.	TRUCK :				
1.	Hino Dump Truck Km: 310	"	"	3	Tegineneng C.
2.	Hino Chargo Truck Km: 310	"	"	2	1. Tegineneng 1. Diperta
3.	Chargo Truck Toyota	"	"	2	1. K.B.S.P. 1. Diperta.
4.	Mitsubishi Truck TQ-6-AV	"	"	1	Dinas Pertanian
5.	Mitsubishi Truck Fuso T 653	1975	"	4	2. Tegineneng 1. Diperta 1. KBS Ampera
6.	Truck Chargo Crane KE. 300	Sep. 1976	"	1	Tegineneng
7.	Mazda Chargo Truck T-4100	"	"	1	Tegineneng
8.	Isuzu Service car TSD-40	Juni 80	"	1	Tegineneng
III.	JEEP/PICK UP/STATION				
1.	Jeep Toyota FJ-40-UV-C	Mei 73	"	3	2 Diperta 1 Tegineneng
2.	Station wagon Toyota J-55	"	"	2	1 SPPMA 1 Diperta
3.	Mitsubishi wagon J-34	"	"	1	1 Diperta
4.	Toyota Sedan Crown 68 VJ	"	"	1	1 Diperta Jakarta.

	1	2	3	4	5
5.	Toyota Jeep FJ-55-FV-KC	Sep 1976	UNIT	3	3 Tegineneng
6.	Toyota Station FJ-55-RV-KC	"	"	3	2 Tegineneng 1 Jakarta
7.	Mazda Microbus 26 AE X C-10	"	"	2	1 Diperta 1 Tegineneng
8.	Mazda Pick up 1600/8NA-10	"	"	2	1 Diperta 1 Tegineneng
9.	Mitsubishi Jeep Station Wagon J. 96-A	Sep 1977	"	2	1 Tegineneng 1 Diperta
10.	Nissan Jeep Patrol	"	"	3	1 Tegineneng 1 Lam Teng 1 Lamsel
11.	Mitsubishi Jeep Station 5-38-R	Agst 78	"	1	1 Tegineneng
12.	Station wagon Toyota FJ-55-RV-KC-2F	1979	"	5	5 Tegineneng
13.	Mitsubishi Pick up Delica H-T 121E	"	"	1	Tegineneng
14.	Station wagon toyota FJ-55-RV-KC-2F	1980	"	1	Tegineneng
IV. MOTOR CYCLE:					
1.	Suzuki 90 CC	1973	"	5	PPL Tani Mak.
2.	Yamaha 90 CC	1973	"	5	"
3.	Suzuki	1974	"	10	PPL & Staf TM
4.	Yamaha YB-90 CC	1974	"	10	PPL & Staf Diperta
5.	Yamaha AG 100 CC	1976	"	10	KDP+Staf TM.
6.	Suzuki Ts-100 CC	1978	"	20	PPL+SW.TM.
7.	Suzuki TS-100 CC	1979	"	15	PPL Staf T.M.
8.	Yamaha YB-125 CC	1977	"	20	17 PPL REC+3TM
9.	Suzuki TS-125	1980	"	15	Mantri Tani.
V. FOUR WHEEL TRACTOR:					
1.	Iseki Zeter 8011	Mei 73	"	2	Tegineneng
2.	Tractor Zeter Iseki Tz-6714	Des 75	"	4	1 SPMA 2 Tegineneng
3.	Tractor Zeter Iseki TZ-4712	Agst 74	"	4	2 Tegineneng 1 Sukadana 1 KBSP.
4.	Tractor Zeter Iseki TZ-4714	Sep 76	"	2	1 Tegineneng 1 KBSP Peka- longan.

	1	2	3	4	5
5.	Tractor Zeter Iseki TZ-4714	Nov 1977	UNIT	2	1 LPUT Pekal. 1 Tegineneng
6.	Tractor zeter iseki TZ-5714	"	"	5	Tegineneng
7.	Tractor Mini Iseki TX 1500 F	"	"	2	2 Tegineneng
8.	Tractor Satoh S-630-D	1979	"	1	Tegineneng
				<u>22</u>	
VI.	GENERATOR LISTRIK :				
1.	Generator Listrik 30 KVA	Mei 73	"	3	Tegineneng
				<u>3</u>	
VII.	RICE TRANSPLANTER:				
1.	Rice Transplanter FF 410	Agst. 77	"	2	Tegineneng
				<u>2</u>	
VIII.	RICE MILL :				
1.	Rice Mill RV. 500	Sep. 74	"	1	Totokaton
2.	Rice Cleaner PC-40	"	"	1	"
3.	Rice Polisher	Sep. 76	"	1	Bulusari
4.	Rice Mill Unit satake KE SB-10-D dengan Mesin Mitsubishi 18 PK	1978	"	16	1 Bulusari 1 Tempuran 1 Hadimulyo 1 Margo Agung 1 Dono Arum 1 Rengas 1 Adi Luvih 9 Tegineneng.
5.	Rice Mill Unit Satake SB-10-D Dengan Mesin Mitsubishi 18 PK	1979	"	2	Tegineneng
				<u>2</u>	
IX.	BINDER :				
1.	Binder	Agst 74	"	1	Tegineneng
2.	Binder	Okt 75	"	1	Tegineneng
				<u>2</u>	
X.	PEDAL TRESHER:				
1.	Pedal Tresher	Okt 75	"	50	5 Punggur 5 Metro 5 Batang Hari 4 SK Nuban. 4 Sekampung.

	1	2	3	4	5
	Pedal Tresher	Okt 75	UNIT	4	4 Trimurjo 4 Natar 4 Gd Tataan 4 Ter. Besar 4 Sukadana 4 Gn. Sugih 2 Pekalongan 1 Tegineneng.
2.	Pedal Tresher	1979	..	15	
3.	Pedal Tresher	1980	..	20	--
XI.	AUTOMATIC TRESHER:				
1.	Automatic Tresher D-21-KS	Mei 73	..	5	Tegineneng
2.	Automatic Tresher D-21-KS	Mei 75	.	4	Up Land Low Land KBSP.
3.	Automatic Tresher D-21-KS	Feb. 76	..	4	Low Land
4.	Automatic Tresher	Sep. 76	..	14	6 Low Land
				<u>27</u>	8 Centre
XII.	WINNOWER:				
1.	Winnower Tauchoth	Ags. 74	..	4	1 Sukabandung 1 Totokaton 2 Centre
2.	--	Okt. 75	..	10	7 Low Land 3 Up Land
3.	--	Sep. 76	..	24	12 Up Land 11 Low Land 1 Centre
4.	--	Agst. 77	..	20	Tegineneng
5.	--	1980	..	20	Tegineneng
XIII.	HAND SPRAYER				
1.	Hand Sprayer Maruyama	Mei 73	..	10	Low Land
2.	Hand Sprayer SG-10	Ags. 74	..	30	Low Land & Up Land
3.	Hand Sprayer CSB	Sep. 74	..	30	Low Land & Up Land Tegineneng, Pengujian
4.	Hand Sprayer Arimitshu SA-6.S	Des. 75	..	36	Low Land
5.	Hand Sprayer Arimitshu SA.6.S	Sep. 76	..	200	109 Up Land 49 Low Land 3 Centre 6 Pengujian
6.	Hand Sprayer Arimitshu SA.6.S	Feb. 77	..	526	285 Up Land 69 Low Land 144 Diperta 17 Tegineneng
				<u>832</u>	

	1	2	3	4	5
XIV. MIST BLOWER :					
1. Mist Blower Arimitshu HD. 55	Mei 73	UNIT	55	Up Land & Low Land	
2. --"	Agst. 74	"	5	Tegineneng	
3. --"	Des. 75	"	5	Low Land	
4. --"	Aprl. 76	"	45	30 Up Land 12 Dinas 3 Tegineneng.	
5. Mist Blower Yanmar MK 150	Juni 80	"	150	150 Brigade- Proteksi.	
XV. POWER SPRAYER:					
1. Power Sprayer Arimitshu CS-34-MK	Agst 77	"	59	35 Low Land 8 Up Land	
2. Power Sprayer Arimitshu KF. 53 (Engine)	"	"	49	27 Brid. Prot 2 Tegineneng.	
3. Power Sprayer CS-40-MKB	Apr 79	"	13	4 R.E.C.	
			<u>121</u>		
XVI. CORN SHELLER:					
1. Corn Sheller Caneco IS. 400	Mei 73	"	2	Tegineneng	
2. --"	Sep 74	"	2	--"	
3. --"	Des. 74	"	2	--"	
4. Corn Sheller Cikuma	Sep. 76	"	11	11 Up Land	
			<u>17</u>		
XVII. POWER TILLER:					
1. Power Tiller Iseki KE. 1000-46	Mei 73	"	5	Tegineneng	
2. --" KE. 1000-35	Agst. 74	"	15	35 Low Land 11 Up Land	
3. --" Yanmar Y2-8 N	Sep. 74	"	10	6 Diperta	
4. --" Iseki KE. 1000-35	Okt. 75	"	20	16 Low Land + Up Land	
5. --" KE. 1000-35	Des. 75	"	16	11 Tegineneng	
6. Power Tiller Iseki	Sep. 76	"	13		
			<u>79</u>		
XVIII. COMBINE :					
1. Combine HD-500 F	Agst. 74	"	1	Tegineneng	
2. Combine Iseki HD-3100	Jan. 79	"	1	Tegineneng	
			<u>2</u>		

	1	2	3	4	5
XIX. BOTTOM PLOW:					
1. Bottom Plow TB. 163		Agst. 74	UNIT	1	Tegineneng
2. Bottom Plow MGP-142 B		"	"	1	Tegineneng
3. Bottom Plow MGP-142 B		Des. 75	"	2	Tegineneng
				<u>4</u>	
XX. DISK PLOW:					
1. Disk Plow MDP-623 C		Agst. 74	"	2	Tegineneng
2. -- MDP-623 C		Des. 75	"	4	1 KBSP 1 Sukabandung 2 Tegineneng
3. -- MDP-623 C		Sep. 76	"	2	1 LPUT Pek. 1 KBSP Ampera
4. -- MDP-623 C		Nov. 77	"	5	1 SPMA
				<u>13</u>	4 Tegineneng
XXI. DISK HARROW:					
1. Disk Harrow MLH-304		Agst. 74	"	2	Tegineneng
2. Disk Harrow MDP-2024 P		Des. 75	"	4	1 KBSP 1 Sukadana 2 Tegineneng
3. Disk Harrow		Sep. 76	"	2	1 LPUT 1 KBSP Ampera
4. Disk Harrow		Nov. 77	"	5	1 SPMA
				<u>13</u>	4 Tegineneng
XXII. TOOTH HARROW:					
1. Tooth Harrow MTH-304		Agst. 74	"	1	Tegineneng
2. --		Sep. 76	"	2	Tegineneng
3. --		Nov. 77	"	4	Tegineneng
				<u>7</u>	
XXIII. PADDY DRYER :					
1. Satake		Agst. 78	"	1	Tegineneng
2. Satake MDR-3203		Agst. 79	"	2	Tegineneng
3. Satake MDR-3203 B		Jun. 80	"	4	Tegineneng
				<u>7</u>	

1	2	3	4	5
XXIV. PADDY CLEANER :				
1.	Satake Pc-06-B	Jun. 80	UNIT	Tegineneng
			1	
			1	
XXV. WATER PUMP :				
1.	Mitsubishi		..	Tegineneng
			2	
			6	1 Tegineneng
				5 Gudang Centre
2.	Kubota		..	Gudang
			5	
			13	
XXVI. SPRINKLER:				
1.	Mitsubishi		..	Tegineneng
			1	
			1	

Table 36 : Development of Rice Mill Unit (RMU) Lampung Tani Makmur Project.

No.	Village Dem. farm	Amount	Type	Capacity (kg. dried rice/ hour)	Product 1) (kg. mill rice)	Net benefit (Rp.)	Duration	Note
1.	Hadimulyo	1 Unit	SATAKE SB-10-D	650 - 750	126,544	794,581,75	Dec. - May, '80	79/80
2.	Buluhari	1 Unit	ditto	650 - 750	27,999	296,700	August - Nov. '79	78/79
3.	Totokaton	1 Unit	YANMAR	200. 2)	25,550	201,950	October - Nov. '79	67/77
4.	Donoerum	1 Unit	SATAKE SB-10-D	650 - 750	54,546	384,008	Nov. - Mart. '80	78/79
5.	Tempuran	1 Unit	- ditto -	650 - 750	25,815	249,504,50	Oct. - Nov. '79	78/79
6.	Margo Agung	1 Unit	- ditto -	650 - 750	18,886	194,185,75	Sep. - Nov. '79	79/80
7.	Rengas	1 Unit	- ditto -	650 - 750	new	-	-	79/80
8.	Adiluwih	1 Unit	- ditto -	650 - 750	new	-	-	79/80

Note : 1) include
bawon (payment) for RMU.
2) kg. of mill rice.

Source : Lampung Tani Makmur Project.

表1 シンボンの州の耕地面積および人口

(単位: 人)

年度	耕地面積			総人口	農村労働力人口 ²⁾
	水	田	雑地		
1977	109,366	386,245	495,611	3,707,324	3,151,225
1978	126,966	427,520	554,486	3,820,881	3,247,409
1979	131,049	468,795	599,844	4,020,292	3,417,248
1980 ¹⁾	135,549	510,070	645,619	4,230,553	3,595,970

注: 1) 1980年の耕地面積は推定値
 2) 農村労働力人口は、総人口の約85%である、という前提に基づいて算出されている。
 出所: インドネシア側提出資料に基づいて、編者が作成。

表2 シンボンの州における食用作物生産(1977~1980年度)

作物 ¹⁾	1977		1978		1979		1980		
	収穫面積	生産量		収穫面積	生産量		収穫面積	生産量	
		トン	千トン		トン	千トン		トン	千トン
米	252,862	562,870	2,226	2,300	267,972	2,325	271,041	606,581	2238
トウモロコシ	4,4207	62,338	1,410	1,363	58,928	1,437	50,979	65,436	1,284
サヤ豆	71,871	866,092	12,051	11,620	83,826	12,172	84,494	1,023,035	12,108
サヤ豆	3,126	22,906	7,326	6,944	3,392	6,805	2,364	18,908	7,998
花生	5,584	4,012	718	698	8,566	729	8,531	61,72	724
大豆	31,302	28,056	896	767	35,202	608	39,224	26,352	672
豆	1,588	1,008	635	560	2,260	747	1,342	798	595

注: 1) 収穫形態
 米 : 乾燥米
 トウモロコシ : 成穀粒
 サヤ豆 : 生塊
 サヤ豆 : 乾燥粒
 花生 : 生塊
 大豆 : 生塊
 豆 : 生塊
 豆 : 乾燥粒
 豆 : 乾燥粒

インドネシア側提出資料より、編者が作成。

表3 ランポン州における人口1人当り食料摂取状況

(単位：ルピア/人口1人当たり・年間)

年 度	ランポン州食料		合 計	
	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品
1977	9,975	1,751	11,726	
1978	9,726	2,004	11,730	
1979	13,521	2,388	15,904	
1980	14,256	2,735	16,991	

注：ランポン州食料とは米、とうもろこし、イモ類をいう。
ランポン州食料とは豆類をいう。

出所：インドネシア側輸出食料より編者が作成。

表4 各州都における平均生計食料指標の推移(1970-78)
(1966年9月を100とする)

年 度	1970		1971		1972		1973		1974		1975		1976		1977		1978	
	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品	一般消費 食料品
South Sumatra	637	681	620	638	700	755	1283	115	1692	1516	1778	1664	2044	1872	2268	2070	2876	2253
Jambi	784	780	818	818	801	809	1235	1134	1623	1321	1529	1359	1863	1816	2094	2018	2309	2174
Lampung	400	396	393	401	464	452	681	621	980	860	964	903	1112	1033	1313	1186	1454	1274
DKI Jakarta	610	612	626	639	691	680	991	891	1400	1253	1688	1492	2060	1788	2280	1985	2458	2146
West Java	656	682*	708	733	811	806	1087	1024	1483	1392	1696	1650	1984	1885	2256	2098	2403	2208
Central Java	724	718	825	799	842	810	1226	1076	1536	1397	1758	1627	2112	1897	2345	2093	2526	2224
Jogjakarta	736	731	795	794	908	880	1364	1213	1649	1502	1913	1825	2228	2123	2591	2398	2321	2370
West Kalimantan	789	775	738	764	774	789	1284	1162	1536	1425	1549	1558	1864	1826	2017	1953	2051	2004
平均	667	672	690	704	749	748	114	1035	1487	1358	1609	1533	1908	1780	2146	1975	2362	2107

注：*11か月の平均

出所：STATISTICAL YEARBOOK OF INDONESIA, 1975, 1977
1977-1978より, L.T.M.プロジェクト・チームが作成。

表5 水田ザセ・フームの活動状況(1977/78~1979/80)

村名 / 町名	1977/78			1978/79			1979/80		
	世帯数 (戸)	人数 (人)	面積 (ha)	世帯数 (戸)	人数 (人)	面積 (ha)	世帯数 (戸)	人数 (人)	面積 (ha)
I TRIMUKU									
1 Purwodadi	20	26	45	4	23	702000	4	23	702000
2 Purwodadi	20	247	54	4	247	666000	4	247	666000
3 Tampuran	20	25	53	4	28	675000	4	28	675000
4 Liman Deraswi	130	9	21	2	907	210000	2	907	210000
小計	730	447	173	14	857	2250000	14	857	2250000
II PUNGOOR									
5 Astomulyo	20	145	37	3	14	490500	3	14	490500
6 Ngastirahayu	20	195	34	3	195	490500	3	195	490500
7 Sumber Rejo	20	20	43	4	215	560000	4	215	560000
8 Tolokasih	100	100	213	12	2700000	2700000	12	2700000	2700000
小計	160	154	327	22	4280000	4230000	22	4280000	4230000
III METRO									
9 Ganjar Agung	20	23	56	4	644000	550000	4	644000	550000
10 Hadimulyo	20	22	51	4	630000	630000	4	630000	630000
11 Tejosari	20	20	64	4	540000	495000	4	540000	495000
12 Yosodadi	20	215	44	4	340500	550000	4	340500	550000
13 Nargo Rejo	20	20	36	4	540000	525000	4	540000	525000
小計	100	106	251	20	2042500	2750000	20	2042500	2750000
IV PEKALONGAN									
14 Tulus Rejo	164	165	30	3	445500	430000	3	445500	430000
15 Sirmanan	15	14	33	3	378000	350000	3	378000	350000
小計	314	300	72	6	823500	780000	6	823500	780000
V DATANG HARI									
16 Henerjaya	30	41	72	6	1107000	1050000	6	1107000	1050000
17 Telaga Rejo	15	14	36	3	400000	400000	3	400000	400000
18 Humihurjo	20	31	65	5	437000	437000	5	437000	437000
19 Hutan Man	15	18	34	3	446000	440000	3	446000	440000
20 Hutan Rejo	16	14	37	3	446000	475000	3	446000	475000
小計	95	126	244	20	2402000	2240000	20	2402000	2240000

表6 畑作予定・フームの活動状況(1977/78~1979/80)

No	地名 / 町名	1977/78				1978/79				1979/80							
		面積 (ha)	人数	メロン	西瓜	面積 (ha)	人数	メロン	西瓜	面積 (ha)	人数	メロン	西瓜				
		インマ	人数	メロン	西瓜	インマ	人数	メロン	西瓜	インマ	人数	メロン	西瓜				
I KEDATON																	
1	Margo Agung	1375	21	1	275000	275000	-	-	7	1380000	1380000	-	-	82	150	7	1640000
2	Margo Dadi	8275	20	1	160000	160000	-	-	6	1600000	1600000	-	-	100	204	6	2000000
	小計	18675	41	2	435000	435000	0	0	13	3084000	3084000	0	0	182	354	13	3640000
II NATAR																	
3	Rukung Haliak	115	244	18	2500000	1891750	608250	-	18	2540000	2540000	-	-	130	244	18	2340000
4	Handugang	20	48	5	400000	320000	71000	-	6	330000	330000	-	-	25	73	6	450000
5	Merak Batin	10	15	3	200000	164000	35600	-	4	-	-	-	-	15	29	4	-
6	Sukadama	65	72	4	630000	676750	54250	-	7	1017000	1017000	-	-	60	72	7	1080000
7	Cudong Cumanit	30	48	3	300000	300000	-	-	4	508500	508500	-	-	40	103	4	720000
8	Kreano Wododo	12725	2725	6	545000	545000	-	-	18	2084000	2084000	-	-	100	270	18	1800000
9	Dumi Agung	103	1375	1	275000	275000	-	-	7	1271250	1271250	-	-	825	238	7	1485000
	小計	47025	23600	39	4550000	4081000	600000	-	64	5970150	5970150	0	0	4525	1033	64	7875000
III ORDUNG TATAAN																	
10	Halengen Kulu	87	48	2	300000	300000	-	-	12	1135025	1135025	-	-	75	206	12	1350000
11	Keagung Batu	67	26875	3	537500	442933	94507	-	8	234250	234250	-	-	67	219	8	1200000
12	Pejambon	35	37	4	700000	575750	124250	-	4	360000	360000	-	-	20	37	4	360000
	小計	189	76875	9	1597500	1377883	219057	-	24	1740875	1740875	-	-	162	462	24	2210000
IV SUKOHARJO																	
13	Waringin Sari	875	94	4	490000	482175	77825	-	11	1470000	1470000	1148000	-	875	206	11	1575000
14	Dandang Baru	62125	50	3	398250	398250	-	-	8	1008000	1008000	-	-	60	123	8	1080000
15	Kanggal Kejo	75	25	3	450000	411250	38750	-	9	1260000	1260000	-	-	75	135	9	1350000
16	Adi Luwih	102	73	4	360000	360000	-	-	9	1071000	1071000	-	-	102	243	9	1836000
	小計	326625	94250	14	1705250	1621875	81575	-	37	5451000	5303600	1148000	-	3245	707	37	3841000
V GUNUNG NUJUH																	
17	Sidoharto	140	110	16	1080000	1080000	-	-	16	2132200	2132200	-	-	140	224	16	2450000
18	Bulu Sari	145	103	14	1854000	1854000	-	-	16	2203350	2203350	-	-	150	281	16	2325000
19	Kengas	2180	36	5	392400	392400	33790	-	6	380750	380750	-	-	30	42	6	523000
20	Rumi Bahayu	13275	104	10	1872000	1710800	161200	-	5	2021782	2021782	-	-	13275	201	5	-
21	Rumi Baharjo	16275	80	11	1440000	1310000	130000	-	12	2172840	2172840	-	-	14275	201	12	-
22	Terb-Numbung	161	198	12	1040000	1000300	175000	-	11	2147430	2147430	-	-	141	190	11	-
23	Terb-Angung	48	48	8	864000	789000	74600	-	12	731040	731040	-	-	75	110	12	-
24	Kesumudadi	110	93	6	1638000	1638000	-	-	10	1678300	1678300	-	-	100	142	10	-
25	Sukajadi	100	30	3	540000	540000	-	-	8	1142250	1142250	-	-	75	153	8	1212500
26	Sido Waras	179	58	3	900000	900000	-	-	19	2726170	2726170	-	-	179	161	19	-
27	Or-Sugih Kambang	1143	30	7	540000	540000	-	-	12	1748835	1748835	-	-	1143	212	12	2003750
	小計	12795	7828	98	14090400	13226510	263890	-	127	10080947	10080947	19086047	0	128000	1019	127	22140000

VI	BANUNREJO	150	32	37	3	576,000	526,400	49,600	90	160	10	1,512,000	1,312,000	-	90	160	10	15,730,000
24	Tanjung Jaya	100	28	32	3	504,000	504,000	-	100	161	7	1,680,000	1,680,000	-	100	161	7	1,750,000
29	Sri Pandowo	40	15	40	2	270,000	246,750	23,250	45	100	5	756,000	641,500	114,500	45	100	3	7,875,000
30	Sidedadi	120	30	64	3	340,000	540,000	-	120	207	8	2,016,000	2,016,000	-	120	207	8	21,000,000
31	Sidorejo	100	24	60	2	432,000	432,000	-	100	178	7	1,680,000	1,680,000	-	100	178	7	1,750,000
32	Sukonegara	60	23	46	2	414,000	378,360	35,640	60	143	5	1,080,000	1,008,000	72,000	60	143	5	1,050,000
33	Dangurejo	100	18	41	2	324,000	296,400	27,600	50	95	3	840,000	840,000	-	50	95	3	8,750,000
34	Sinar Sepuluh	670	170	349	17	3,060,000	2,823,600	136,400	565	1,044	47	9,492,000	9,377,500	114,500	565	1,044	47	98,875,000
	小計	110	30	68	3	540,000	540,000	-	110	277	9	1,848,000	2,190,000	1,620,000	110	277	9	1,925,000
35	Watu Agung	50	18	54	3	275,000	275,000	-	45	107	4	756,000	756,000	-	45	107	4	7,870,000
36	Sinar Sari	20	15	33	3	275,000	275,000	-	30	54	3	504,000	504,000	-	30	54	3	5,250,000
37	Pondok Waro	48	8	18	1	148,000	148,000	-	-	108	5	-	-	-	-	108	5	-
38	Sri Dasuki	70	20	55	3	370,000	370,000	-	70	181	7	1,176,000	1,176,000	-	70	181	7	12,250,000
39	Bata Rejo	30	15	34	2	270,000	270,000	-	30	70	3	504,000	504,000	-	30	70	3	5,250,000
40	Sukaseri	334	103	282	15	1,885,000	1,885,000	0	285	797	31	4,788,000	3,150,000	1,620,000	285	797	31	49,870,000
	小計	53	53	106	9	954,000	871,850	82,150	-	-	-	-	-	-	-	-	-	-
VI	TERBANOVI DESAR	100	40	100	7	720,000	658,000	62,000	100	115	9	1,615,000	3,780,000	1,235,400	100	115	9	17,500,000
41	B.Kertarahayu	100	50	116	7	1,080,000	987,000	93,000	100	116	7	1,615,000	-	1,615,000	100	116	7	17,500,000
42	Danjar Kato	100	40	100	7	720,000	658,000	62,000	100	115	9	1,615,000	3,780,000	1,235,400	100	115	9	17,500,000
43	Harapan Rejo	100	50	116	7	1,080,000	987,000	93,000	100	116	7	1,615,000	-	1,615,000	100	116	7	17,500,000
44	Endang Rejo	180	108	170	9	1,893,000	1,959,000	-	180	236	11	2,987,000	2,987,000	-	180	236	11	31,500,000
45	Pesjar Atri	100	70	122	5	1,422,000	1,299,550	122,450	47	80	5	756,000	356,674	402,376	79	80	5	13,450,000
46	Adi Jaya	171	100	135	7	1,800,000	1,800,000	-	171	182	9	2,761,650	2,761,650	-	171	182	9	29,925,000
47	Simpang Agung	100	30	42	2	540,000	540,000	-	100	131	5	1,618,000	753,150	864,850	100	131	5	17,500,000
48	Nembah Debi	100	30	49	3	540,000	540,000	-	102	154	10	1,656,375	1,666,375	-	102	154	10	17,937,500
49	Dono Arum	150	30	69	3	540,000	540,000	-	150	250	6	2,006,500	2,009,500	-	150	250	6	22,100,000
50	Selvauban	150	30	69	3	540,000	540,000	-	150	250	6	2,006,500	2,009,500	-	150	250	6	22,100,000
	小計	11,065	5,305	9,27	53	9,540,000	9,189,400	350,600	930	1,294	62	14,937,375	10,822,850	4,114,719	930	1,294	62	167,392,500
DX	RUKADANA	110	30	40	2	540,000	493,500	46,500	110	210	7	1,664,500	1,664,500	-	110	210	7	1,925,000
51	Dono Mulyo	98	265	56	3	450,000	411,250	47,750	-	-	-	-	-	-	45	172	6	7,650,000
52	Sukarya Nuban	70	51	134	6	918,000	918,000	-	70	150	7	1,186,500	1,186,500	-	70	150	7	11,900,000
53	Dumi Jaya	74	45	71	3	823,500	823,500	-	37	150	7	627,150	627,150	-	37	150	7	7,692,500
54	Sukadana Ilir	28	25	132	9	420,000	420,000	-	-	-	-	-	-	-	28	132	9	4,637,500
55	Yusra Jaya	45	45	18	1	810,000	810,000	-	-	-	-	-	-	-	-	-	-	-
56	Cedung Dalam	38	10	24	24	3,240,000	3,150,250	89,750	217	456	21	3,678,150	3,078,150	0	217	456	21	31,300,000
	小計	49,427	21,080	4,882	27	4,621,200	3,818,847	2,024,172	424,400	1,112	426	6,848,197	61,241,978	7,004,219	426	1,112	426	79,134,750
	合計	38,100	18,025	4,51	24	3,240,000	3,150,250	89,750	217	456	21	3,678,150	3,078,150	0	217	456	21	31,300,000
	合計	49,427	21,080	4,882	27	4,621,200	3,818,847	2,024,172	424,400	1,112	426	6,848,197	61,241,978	7,004,219	426	1,112	426	79,134,750

注：*不明
出所：インドネシア領輸出税課より調査が得られた。

表7. 協定延長後（1977年11月14日以降）のReport, Advice等

1. Report on S.P.M.A. student's interest for Agriculture (F. Daimaru). Feb., 1978.
2. Some recommendations on REC establishment in the Lampung Province. (F. Daimaru). May, 1978.
3. Daftar curah hujan Propinsi Dati I Lampung. Juli, 1978. (ランボン州の年間、月別雨量分布図)
4. Some advice on rat control (draft). (Translated Japanese & Indonesian language) Sept., 1978.
5. How to do the multiplication of qualified seeds and their distribution. (M. Noda, Ir. Murdani Suwito). Nov., 1978.
6. Identification of P.P.L. knowledge in Lampung Province in 1978. (Ir. Joko Umar Said, F. Daimaru). Jan., 1979.
7. Perhitungan usaha tani dan B/C ratio R.M.U. Proyek Tani Makmur Lampung Tahun 1978/1979. Jan., 1979. (タニマムールのライスミルの純益試算等1978/1979)
8. Penanaman padi sawah dengan menggunakan kotak. Jan., 1979. (田植機用苗作り要領)
9. Report on trial in 1978/1979 (Internal report). (Japanese language). (Y. Ueda, M. Noda). March, 1979.
10. Report on soil and fertilizer. (Y. Ito). March, 1979.
11. The present situation of the brown plant-hopper in Central Lampung. (O. Kochida (LP3), Y. Ueda). April, 1979.
12. Report on the implementation of system Kunjungan within Demo Farm Tani Makmur. (F. Daimaru). May, 1979.
13. Test on varietal resistance of rice seedling to rice blast in dry season 1979. Aug., 1979.
14. Daftar harga kendaraan di Tanjung Karang dan Teluk Betung. Aug., 1979. (車輛農機具の現地市販価格調査)
15. Improvement of system LAKU in the Lampung Province. (F. Daimaru). Sept., 1979.
16. Cost estimation for hand tractor 8.5 HP with rotary and swamp wet field wheel. Sept., 1979.
17. Regulation of the farmer group. Oct., 1979.
18. Pelaksanaan supervisi kegiatan sistem kerja LAKU dari propinsi ke kabupaten, B.P.P. dan WILD. (Ir. Maranis S, Ir. Trisbani, Idham Bakri B. Sc., F. Daimaru). Oct., 1979. (REC及び広域町村に対する普活動のスーパービジョン)

19. Analytical results of trial soils on 1978/1979. Oct., 1979.
20. Survey on the virus diseases of soybean in dry season 1979. Nov., 1979.
21. Survey on the virus disease of peanut in dry season 1979. Nov., 1979.
22. Consideration about results of fertilizer trial 1978/1979. Nov., 1979.
23. Kapasitas peralatan mesin² pertanian. Nov., 1979. (農機具の能力基準表)
24. Lampung Tani Makmur Project (1972 - 1977 - 1980). Nov., 1979.
25. Cultivation methods of lowland rice, upland rice, maize, soybean, peanuts, mungbean and cassava. (Translated Japanese language). Nov, 1979.

出所：LTMプロジェクト・チーム「ランボン農業開発計画（タニマムールプロジェクト）協定延長（1977年11月14日～1980年11月13日）後の概要」（1978年11月）84頁より転載。

表8 ランポン農業研究計画に関する調査報告書等の資料一覧

(1) 育成、実施計画、巡回指導、エバリー・エーション調査の報告

年	月	報 告 書 名	発 行 所
昭和46年	12月	インドネシア・ランポン農業研究調査報告書	OTCA
"	47年	8月	"
"	48年	2月	"
"	50年	1月	JICA
"	50年	5月	"
"	50年	10月	"
"	51年	5月	"
"	51年	7月	"
"	52年	8月	"
"	53年	12月	"

(2) 専門家の報告

年	月	報 告 者 名	報 告 書 名	発 行 所
1972.12		大 岡 宗 賢	Agricultural Statistics in Indonesia	OTCA
昭和49年	7月	野島敬郎・広瀬昌平	インドネシア・ランポン州農業研究協力派遣専門技術員報告書(畑作栽培)	"
"	50年	3月	穀粉作物キャッサバについてー東南アジアの畑作を考ふるー	JICA
"	50年	3月	インドネシア・ランポン農業研究プロジェクト専門家(農業普及)報告書	"
"	50年	6月	上 (土壌肥料)	"
"	50年	12月	インドネシア・ランポン農業研究計画総合報告書(畑作普及)	"
"	50年	12月	上 (畑作普及)	"
"	51年	5月	上 (病害虫)	"
"	51年	5月	上 (かんがい)	"
"	51年	5月	上 (畑作栽培)	"
"	52年	1月	上 (農業機械)	"
"	52年	1月	上 一竹高資料ー(インドネシアの農機具)	"
1972.12		"	Report on Agricultural Mechanization in Lampung Tani Makmur	"
昭和52年	2月	野島敬郎・広瀬昌平	文献から見たキャッサバ研究の概況ーキャッサバ栽培の序引書としてー	"
"	52年	2月	上 (英文)	"
"	54年	1月	インドネシア・ランポン農業研究計画第1次巡回期間調査報告書(1973~1977)	"

(3) インドネシア側の報告書(Tani Makmur Project 関係)

1. Laporan Kegiatan Project Tani Makmur Lampung Tahun Anggaran 1973/74
2. " 1974/75
3. " 1975/76
4. " 1976/77
5. " 1977/78
6. " 1978/79
7. Joint Evaluation Report on Lampung Tani Makmur Project 1976
8. Final Report on Evaluation for Lampung Tani Makmur Project 1977
9. Appendix, Final Report on Evaluation for Lampung Tani Makmur Project 1977
10. Pedoman Pengelenggaraan Demo-Farm Upland 1976/77
11. " Demo-Farm Lowland 1976/77
12. Pedoman Pelaksanaan Penataran Petugas 1979/80
13. Petunjuk Pelaksanaan Latihan Penjuluh Pertanian Lapangan (PPL) di Balai Penyuluhan Pertanian Tanaman Padi Sawah 1979
14. Daerah Pembinaan dan Areal Pertanian di setiap B.P.P. Propinsi Dati I Lampung 1978/79
15. Berita Tegineneng No.1 April 1979
16. Berita Tegineneng No.2 Sept. 1979
17. Report on the Variation of Farmer's sense and activity in Tani Makmur Project 1978
18. Kumpulan Bahan Pelajaran Latihan Petugas Produksi Benih October 1979

(4) ランボン州農業開発の諸計画に関する資料, 情報

1. Rencana Penbagunan Lima Tahun Ke-Tiga Subsector Pertanian Tanaman Pangan Propinsi Dati I, Lampung 1977/78 - 1983/84
2. Sumatra Regional Planning Study, Province Lampung - Infrastructre -
3. " " - Industry -
4. " " - National Resources -
5. Sumatra Regional Planning Study Part-B
6. Program Peningkatan Produksi Padi, Palawiji dan Hortikulture, Tahun Anggaran 1978/79

(5) その他

1. Hasil Temu Karya Kontak Tani se Propinsi Dati I Lampung Tgl.15 s/d 18 Nopember 1979 Di Tegineneng

出所: LTMプロジェクト・チーム「ランボン農業開発計画(タニマムールプロジェクト)協定延長(1977年11月14日~1980年11月13日)後の概要」(1979年11月)85~89頁より転載。

