	Expected Effects	Country Total (%)	States with Higher Incidence (%)
a,	Income increase	3,076 (65)	Kelantan (89), Perlis (84)
b.	Stable revenue	823 (17)	Melaka (35), Perak (34), N. Sembilan (32)
c.	Creation of employment opportunity	404 (9)	Melaka (42), Perak (25)
d.	Leveling up of living standard	876 (19)	Pcrak (41), Melaka (35), N. Sembilan (27)
e.	Nothing special	1,180 (25)	Sciangor (75), Johor (59)
f.	Others	37 (0)	-
	Total No. of Responses	6,396 (135)	• •
	No. of Respondents	4,728	

When asked for their major concerns to introduce other crops in paddy field, 55% of the respondents point out "finance", followed by marketing by 33%, labor by 30%, technique by 24% and others by 22% as shown in Table B-4 (10/11). Those who give an answer "labor" and "technique" are particularly anxious about the shortage of manpower and introduction of inexperienced new technology. As for marketing problem, they indicate the undeveloped market system and its instability.

To the final question what are your suggestions/opinions on the rationalization and crop diversification project, most of the respondents insist on the necessity of Government assistance. Those who answered in the negative say that paddy field is not suitable for other crops than paddy. However, this should not be construed to mean that they are not really against the crop diversification. The inference to be made is that some farmers in the areas still retain their emotional ties with paddy farming.

## B.6 Examination of Farmers' Intention from Multiple Viewpoints

In view of the farmers' real intention towards rationalization and crop diversification and to ascertain the relation of cause and effect of their attitudes, cross analysis are carried out based on the results of sample survey.

To the question whether or not farmers consider the continuation of their farm operations by age, no particular difference in pattern can be found between those who answer in the affirmative and negative. However, most of young farmers seem to prefer less laborious works or to be still undecided about the continuation of farm operations as shown in Table B-5.

About the relationship between farmers' hope for succession of farm operations by household members and their age/income from major crops, the similar results are also obtained as shown in Tables B-6 and B-7.

For the another question of what type of problems or difficulties farmers encountered in their farming practices, cross analysis are executed on their utilization of paddy field and intentions of continuing farm operation and paddy field conversion as shown in Tables B-8 to B-10. From these analysis, it becomes clear that a good number of farmers encounter problems and difficulties due to ravages of frequent pests and diseases, natural disasters and poor or inefficient facilities. Among those who do not fully utilize paddy fields and answer in favour of continuing farm operation, higher incidence of labor shortage problem can be observed. As one of the solutions to this problem, some farmers are considering conversion of their paddy fields to permanent crop fields. However, nearly half of farmers do not have a clear idea on their future life.

The results of cross analysis of major concerns to introduce other crops in paddy fields by incidence of their full utilization are shown in Table B-11. Those who fully utilize there paddy fields concern about finance and marketing as important items for changing their minds on crop diversification. On the other hand, farmers partly or not using their paddy fields consider financing and labor force as key factors for participating in crop diversification. Feasibility Study on Rationalization and Crop Diversification in Non-granary Irrigated Areas in Malaysia

> Vol. 2 Crop Diversification Evaluation Methodology

> > Appendix B

Tables

	Item	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
1.	CIVIL STATUS	(Q.103)													
	a. Single	12	23	1	18	1	9	8	. 11	27	6	6	19	11	152
		(5)	(4)		(5)	(2)	(2)	(3)	(7)	(4)	(2)	(1)	(4)	(3)	(3)
	b. Married	223	606	95	350	: 39	412	259	135	549	298	579	465	296	4,342
	and the second second	(92)	(93)	(95)	(94)	(98)	(82)	(95)	(89)	(87)	(98)	(97)	(93)	(93)	(92)
	c. Widow	3	16	4	4	0	83	7	6	43	0	- 8	14	12	200
	1	(1)	(2)	(4)	(1)	(0)	(16)	(2)	(4)	(7)	(0)	(1)	(3)	(4)	(4
	d. Separated	4	· · 9.	0	. 1	0	. 0	1	0	.12	1	4	1	. 1	. 34
		(2)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(1)	(0)	(0)	(1)
	Total No. of	242	654	100		40		311	152	631	305	597	499	320	4,728
	Respondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)
•			· ·												
2.	AGE DISTRIBU	TION O	F RESI	PONDI	ENT FA	ARME	RS (Q.	101)							
2.		TION O	F RESI 9	PONDI 0	ENT FA	ARME 0	RS (Q. 0	101) - 1	2	7	0	3	11	1	39
2.	AGE DISTRIBU a. 18-25 years	VTION O 2 (1)	F RESI 9 (1)	PONDI 0 (0)	ENT FA 3 (1)	ARME 0 (0)	RS (Q. 0 (0)	101) 1 (0)	2 (1)	7 (1)	0(0)	(1)	(2)	(0)	39 (1
2.	AGE DISTRIBU	1TION O 2 (1) 16	F RESI 9 (1) 62	0 (0) 2	ENT FA 3 (1) 34	ARME 0 (0) 1	RS (Q. 0 (0) 29	101) 1 (0) 24	2 (1) 18	7 (1) 29	0 (0) 20	(1) 37	(2) 121	(0) 39	39 (1 432
2.	AGE DISTRIBU a. 18-25 years b. 26-35 years	TION O 2 (1) 16 (7)	F RESI 9 (1) 62 (10)	PONDI 0 (0) 2 (2)	ENT F 3 (1) 34 (9)	ARME 0 (0) 1 (3)	RS (Q. 0 (0) 29 (6)	101) 1 (0) 24 (8)	2 (1) 18 (12)	7 (1) 29 (5)	0 (0) 20 (7)	(1) 37 (6)	(2) 121 (24)	(0) 39 (12)	39 (1 432 (9
2.	AGE DISTRIBU a. 18-25 years	TION O 2 (1) 16 (7) 55	F RESI 9 (1) 62 (10) 115	0 (0) 2 (2) 13	ENT FA 3 (1) 34 (9) 54	ARME 0 (0) 1 (3) 2	RS (Q. 0 (0) 29 (6) 26	101) 1 (0) 24 (8) 41	2 (1) 18 (12) 22	7 (1) 29 (5) 56	0 (0) 20 (7) 61	(1) 37 (6) 127	(2) 121 (24) 	(0) 39 (12) 71	39 (1 432 (9 722
2.	AGE DISTRIBU a. 18-25 years b. 26-35 years c. 36-45 years	TTION O 2 (1) 16 (7) 55 (23)	F RESI 9 (1) 62 (10) 115 (18)	PONDI 0 (0) 2 (2) 13 (13)	ENT F 3 (1) 34 (9) 54 (14)	ARME 0 (0) 1 (3) 2 (5)	RS (Q. 0 (0) 29 (6) 26 (5)	101) 1 (0) 24 (8) 41 (13)	2 (1) 18 (12) 22 (14)	7 (1) 29 (5) 56 (9)	0 (0) 20 (7) 61 (20)	(1) 37 (6) 127 (21)	(2) 121 (24) 79 (16)	(0) 39 (12) 71 (22)	39 (1 432 (9 722 (15
2.	AGE DISTRIBU a. 18-25 years b. 26-35 years	TTION O 2 (1) 16 (7) 55 (23) 87	F RESI 9 (1) 62 (10) 115 (18) 236	0 (0) 2 (2) 13 (13) 43	ENT F 3 (1) 34 (9) 54 (14) 159	ARME (0) (1) (3) 2 (5) 9	RS (Q. 0 (0) 29 (6) 26 (5) 182	101) 1 (0) 24 (8) 41 (13) 96	2 (1) 18 (12) 22 (14) 52	7 (1) 29 (5) 56 (9) 215	0 (0) 20 (7) 61 (20) 110	(1) 37 (6) 127 (21) 258	(2) 121 (24) 79 (16) 150	(0) 39 (12) 71 (22) 118	39 (1 432 (9 722 (15 1,712
	AGE DISTRIBU a. 18-25 years b. 26-35 years c. 36-45 years d. 46-55 years	2 (1) 16 (7) 55 (23) 87 (35)	F RESI 9 (1) 62 (10) 115 (18) 236 (36)	0 (0) 2 (2) 13 (13) 43 (43)	ENT F 3 (1) 34 (9) 54 (14) 159 (43)	ARME 0 (0) 1 (3) 2 (5) 9 (23)	RS (Q. 0 (0) 29 (6) 26 (5) 182 (36)	101) 1 (0) 24 (8) 41 (13) 96 (31)	2 (1) 18 (12) 22 (14) 52 (34)	7 (1) 29 (5) 56 (9) 215 (34)	0 (0) 20 (7) 61 (20) 110 (36)	(1) 37 (6) 127 (21) 258 (43)	(2) 121 (24) 79 (16) 150 (30)	(0) 39 (12) 71 (22) 118 (38)	3! (1 43: (9 72 (15 1,71 (36
<b>)</b>	AGE DISTRIBU a. 18-25 years b. 26-35 years c. 36-45 years	TTION O 2 (1) 16 (7) 55 (23) 87	F RESI 9 (1) 62 (10) 115 (18) 236	0 (0) 2 (2) 13 (13) 43	ENT F 3 (1) 34 (9) 54 (14) 159	ARME (0) (1) (3) 2 (5) 9	RS (Q. 0 (0) 29 (6) 26 (5) 182	101) 1 (0) 24 (8) 41 (13) 96	2 (1) 18 (12) 22 (14) 52	7 (1) 29 (5) 56 (9) 215	0 (0) 20 (7) 61 (20) 110	(1) 37 (6) 127 (21) 258	(2) 121 (24) 79 (16) 150	(0) 39 (12) 71 (22) 118	3! (1 43: (9 72: (15 1,71: (36 1,82)
2.	AGE DISTRIBU a. 18-25 years b. 26-35 years c. 36-45 years d. 46-55 years	2 (1) 16 (7) 55 (23) 87 (35) 82 (34)	F RESI 9 (1) 62 (10) 115 (18) 236 (36) 232	0 (0) 2 (2) 13 (13) 43 (43) 42	ENT F 3 (1) 34 (9) 54 (14) 159 (43) 123 (33)	ARME 0 (0) 1 (3) 2 (5) 9 (23) 28	RS (Q. 0 (0) 29 (6) 26 (5) 182 (36) 267	101) 1 (0) 24 (8) 41 (13) 96 (31) 149	2 (1) 18 (12) 22 (14) 52 (34) 58	7 (1) 29 (5) 56 (9) 215 (34) 324	0 (0) 20 (7) 61 (20) 110 (36) 114	(1) 37 (6) 127 (21) 258 (43) 172	(2) 121 (24) 79 (16) 150 (30) 138	(0) 39 (12) 71 (22) 118 (38) 91	39 (1 432 (9 722

Table B-1 General Profile of Paddy Farmers (1/4)

	-											Unit	: Num	ber (%)
Item	PR	КН	PP	РК	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
NUMBER OF HO	USEH	OLD M	EMBL	RS IN	CLUD	ING H	EAD	F HO	USEHO	DLD ((	2.104a)	na Filosofie Filosofie	·.	
a. 1~2	22	43	б	28	6	103	34	15	109	13	24	24	15	44
	(9)	(6)	(6)	(8)	(15)	(20)	(11)	(10)	(17)	(4)	(4)	(5)	(5)	(9
b. 3~4	82	177	36	113	8	185	84	44	198	60	157	113		1,33
	(34)	(27)	(36)	(30)	(20)	(37)	(27)	(29)	(32)	(20)	(27)	(22)	(23)	(29
c. 5~6	92	227	26	109	13	136	84	56	151	97	178	159	82	1,41
<b>v.</b> 5 <b>v</b>	(38)	(36)	: (26)	(28)	(33)	(28)	(27)	: (37)	(24)	(32)	(30)	(32)	(26)	(30
d. 7~8	36	146	22	. 84	10	58	. 73	20	93	73	149	120	78	96
u. /~o	(15)	(22)	(22)	(23)	(25)	(11)	(24)	(13)	(15)	(24)	(24)	(24)	(24)	(20
e. 9~10	(15)			28		16	28	13	54	38	71	59	33	. 39
e. 9~10		39	7		1					(13)	(12)	(12)	(11)	(8
C 10	(3)	(6)	(7)	(8)	(2)	(3)	(9)	(8)	(8)	24	-18	24		
f. > 10	2	22	3	11	2	6	8	4	26		-		35	18
	(1)	(3)	(3)	(3)	(5)	(1)	(2)	(3)	(4)	(7)	(3)	(5)	(11)	(4
Total No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,72
Respondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	° (100
EDUCATIONAL	·. ·			00	-	102	96	05	142	160	067	- 400	101	1 00
a. No schooling	54		16	20	7	103	26	35		152	267	208	131	1,28
1	(22)	(18)	(16)	(6)	(18)	(20)	(8)	(23)	(23)	(50)	(45)	(42)	(41)	(27
b. Primary	158	458	77	310	32	357	247	97	437	139	303	192	163	2,97
	(66)	(70)	(77)	(83)	(80)	(72)	(80)	(64)	(70)	(46)	(51)	(39)	(51)	. (64
c. Form 1~3	12	32	. 6	25	1	31	22	10	23	9	17	76	-23	28
	(5)	(5)	(6)	(7)	(2)	· (6)	(7)	(7)	(4)	(3)	(3)	(15)	(7)	(6
d. Form 4~5	11	15	1	14	0	9	12	7	14	3	6	20	3	11
	(5)	(3)	(1)	(4)	(0)	(2)	(4)	(5)	(2)	(1)	. (1)	(4)	(1)	(2
e. Form 6	3	5	0	. 1	0	2		1	3	1	2	2	0	2
· · · · · ·	(1)	(1)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	((
f. College	1	1	0	1	. 0	0	1	0	1	*	1	1	0	
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	((
g. Vocational	: 0	1	0	1	0	0	0	0.	1	0	0	0	0	
level	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	()
h. Religious	- 3	22	. 0	1	. 0	0	0	0	9	1	0	0		3
school	(1)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(1
i. University	0	0	0	0	0	0	0	2	0	0	0	0	0	
	(0)	(0)	(0)	(0)	(0)	(0)	(0).	(1)	(0)	(0)	(0)	(0)	(0)	((
j. No answer	0	0	0	0	0	2	0	0	0	0	1	0	0	
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	· (0)	((
Total No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,72
Respondents		(100)												(100
respondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(10

Table B-1 General Profile of Paddy Farmers (2/4)

Iter	m	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	: Num SK	Total
				* *											
RI	ELIGION (Q.10	08)	4 - 19 -		· · ·					· .	• .				
a.	Islam	239 (99)	647 (99)	98 (98)	344 (92)	40 (100)	502 (100)	292 (94)	140 (92)	630 (100)	305 (100)	588 (98)	182 (36)	193 (60)	4,20 (89
b.	Christian	0	0	0	0	0	Ó	Ő	0	0	0	0	247	84	33
	· · · · ·	(0)	(0)	(0)	(0)	(0)	(0)	· (0)	(0)	(0)	(0)	(0)	(50)	(27)	(
c.	Buddist	3	7	2	29	0 (0)	0 (0)	18 (6)	12 (8)	0 (0)	0 (0)	3 (1)	(0)	(1)	
đ.	Hindu	(1)	(1)	(2)	0	0	1		0	. 0	0	4	0	0	(
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(
e.	Others	0	0	0	0	0	1	0	0	1	. 0	2	69	39	1
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(12)	(
To	tal No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,72
Re	espondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(10
57	THNIC ORIGI	N (O 109	ກ	· ·					•						
E1															
a.	Malay	239	647	98	343 (92)	39 (98)	503 (100)	295	142 (93)	631 (100)	305	591 (99)	31 (6)	118	
				98 (98) 0	343 (92) 27	39 (98) 0	503 (100) 0	295 (95) 16	142 (93) 9	631 (100) 0	305 (100) 0	591 (99) 1	31 (6) 1	118 (37) 7	(8
a.	Malay Chinese	239 (99) 2 (1)	647 (99) 2 (0)	(98) 0 (0)	(92) 27 (7)	(98) 0 (0)	(100) 0 (0)	(95) 16 (5)	(93) 9 (6)	(100) 0 (0)	(100) 0 (0)	(99) 1 (0)	(6) 1 (0)	(37) 7 (2)	(8
a.	Malay	239 (99) 2 (1) 1	647 (99) 2 (0) 0	(98) 0 (0) 0	(92) 27 (7) 1	(98) 0 (0) 0	(100) 0 (0) 0	(95) 16 (5) 0	(93) 9 (6) 1	(100) 0 (0) 0	(100) 0 (0) 0	(99) 1 (0) 0	(6) 1 (0) 0	(37) 7 (2) 0	(8 (
a. b. c.	Malay Chinese Indian	239 (99) 2 (1) 1 (0)	647 (99) 2 (0) 0 (0)	(98) 0 (0) 0 (0)	(92) 27 (7) 1 (0)	(98) 0 (0) 0 (0)	(100) 0 (0) 0 (0)	(95) 16 (5) 0 (0)	(93) 9 (6) 1 (1)	(100) 0 (0) 0 (0)	(100) 0 (0) 0 (0)	(99) 1 (0) 0 (0)	(6) 1 (0) 0 (0)	(37) 7 (2) 0 (0)	(8) (1) (1)
a. b.	Malay Chinese	239 (99) 2 (1) 1	647 (99) 2 (0) 0 (0)	(98) 0 (0) 0	(92) 27 (7) 1	(98) 0 (0) 0	(100) 0 (0) 0	(95) 16 (5) 0	(93) 9 (6) 1	(100) 0 (0) 0	(100) 0 (0) 0	(99) 1 (0) 0	(6) 1 (0) 0	(37) 7 (2) 0	(8) ( (
a. b. c.	Malay Chinese Indian	239 (99) 2 (1) 1 (0) 0 (0) 0	647 (99) 2 (0) 0 (0) 0 (0) 0 (0) 0	(98) 0 (0) 0 (0) 0 (0) 0	(92) 27 (7) 1 (0) 0 (0) 0	(98) 0 (0) 0 (0) 0 (0) 0	(100) 0 (0) 0 (0) 0 (0) 0	(95) 16 (5) 0 (0) 0 (0) 0	(93) 9 (6) 1 (1) 0 (0) 0	(100) 0 (0) 0 (0) 0 (0) 0	(100) 0 (0) 0 (0) 0 (0) 0 0	(99) 1 (0) 0 (0) 0 (0) 0 0	(6) 1 (0) 0 (0) 74 (15) 74	(37) 7 (2) 0 (0) 0 (0) 0 0	(8)
a. b. c. d. e.	Malay Chinese Indian Kadazan Bajau	239 (99) 2 (1) 1 (0) 0 (0) 0 (0)	647 (99) 2 (0) 0 (0) 0 (0) 0 (0)	(98) 0 (0) 0 (0) 0 (0) 0 (0)	(92) 27 (7) 1 (0) 0 (0) 0 (0)	(98) 0 (0) 0 (0) 0 (0) 0 (0)	(100) 0 (0) 0 (0) 0 (0) 0 (0)	(95) 16 (5) 0 (0) 0 (0) 0 (0)	(93) 9 (6) 1 (1) 0 (0) 0 (0)	(100) 0 (0) 0 (0) 0 (0) 0 (0)	(100) 0 (0) 0 (0) 0 (0) 0 (0)	(99) 1 (0) 0 (0) 0 (0) 0 (0) 0 (0)	(6) 1 (0) 0 (0) 74 (15) 74 (15)	(37) 7 (2) 0 (0) 0 (0) 0 (0) 0	(8) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
a. b. c. d.	Malay Chinese Indian Kadazan	239 (99) 2 (1) 1 (0) 0 (0) 0 (0) 0 (0) 0	647 (99) 2 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0	(98) 0 (0) 0 (0) 0 (0) 0 (0) 0	(92) 27 (7) 1 (0) 0 (0) 0 (0) 0 (0) 0	(98) 0 (0) 0 (0) 0 (0) 0 (0) 0	(100) 0 (0) 0 (0) 0 (0) 0 (0) 0	(95) 16 (5) 0 (0) 0 (0) 0 (0) 0 0	(93) 9 (6) 1 (1) 0 (0) 0 (0) 0 0	(100) 0 (0) 0 (0) 0 (0) 0 (0) 0 0	(100) 0 (0) (0) 0 (0) 0 (0) 0 (0) 0	(99) 1 (0) 0 (0) 0 (0) 0 (0) 0 0 0 0	(6) 1 (0) 0 (0) 74 (15) 74 (15) 235	(37) 7 (2) 0 (0) 0 (0) 0 (0) 0 (0) 0	(8 () () () () () () () () () () () () ()
a. b. c. d. e.	Malay Chinese Indian Kadazan Bajau	239 (99) 2 (1) 1 (0) 0 (0) 0 (0)	647 (99) 2 (0) 0 (0) 0 (0) 0 (0)	(98) 0 (0) 0 (0) 0 (0) 0 (0)	(92) 27 (7) 1 (0) 0 (0) 0 (0)	(98) 0 (0) 0 (0) 0 (0) 0 (0)	(100) 0 (0) 0 (0) 0 (0) 0 (0)	(95) 16 (5) 0 (0) 0 (0) 0 (0)	(93) 9 (6) 1 (1) 0 (0) 0 (0)	(100) 0 (0) 0 (0) 0 (0) 0 (0)	(100) 0 (0) 0 (0) 0 (0) 0 (0)	(99) 1 (0) 0 (0) 0 (0) 0 (0) 0 (0)	(6) 1 (0) 0 (0) 74 (15) 74 (15)	(37) 7 (2) 0 (0) 0 (0) 0 (0) 0	(8 () () () () () ()
a. b. c. d. e. f. g.	Malay Chinese Indian Kadazan Bajau Dusun Iban	239 (99) 2 (1) 1 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0)	647 (99) 2 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0)	(98) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0)	(92) 277 (7) 1 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0)	(98) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0)	(100) (0) (0) (0) (0) (0) (0) (0)	(95) 16 (5) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0)	(93) 9 (6) 1 (1) 0 (0) 0 (0) 0 (0)	(100) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0)	(100) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0)	(99) 1 (0) 0 (0) (0)	(6) 1 (0) 0 (0) 74 (15) 74 (15) 235 (47)	(37) 7 (2) 0 (0) 0 (0) 0 (0) 0 (0) 115 (36)	(8 () () () () () () () () () () () () ()
a. b. c. d. f.	Malay Chinese Indian Kadazan Bajau Dusun	239 (99) 2 (1) 1 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0	647 (99) 2 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0	(98) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 0 0	(92) 277 (7) 1 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 0 0	(98) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 0 0	(100) (0) (0) (0) (0) (0) (0) (0)	(95) 16 (5) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 0 0	(93) 9 (6) 1 (1) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 0 0 0 0	(100) (0) (0) (0) (0) (0) (0) (0)	(100) (0) (0) (0) (0) (0) (0) (0)	(99) 1 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 0 0 0 0 0 0 0 0 0 0 0	(6) 1 (0) 0 (0) 74 (15) 235 (47) 1 (0) 0	(37) 7 (2) 0 (0) 0 (0) (0) (0) (0) 115 (36) 66	3,98 (8 ( ( ( 22) ( 1) ( (
a. b. c. d. f. g. h.	Malay Chinese Indian Kadazan Bajau Dusun Iban Melanau	$\begin{array}{c} 239\\ (99)\\ 2\\ (1)\\ 1\\ 0\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ (0)$	647 (99) 2 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0)	(98) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 (0)	(92) 277 (7) 1 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0)	(98) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0)	(100) () () () () () () () () () (	(95) 16 (5) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0)	(93) 9 (6) 1 (1) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0)	(100) (0) (0) (0) (0) (0) (0) (0)	(100) (0) (0) (0) (0) (0) (0) (0)	(99) 1 (0) 0 (0) (0)	(6) 1 (0) 0 (0) 74 (15) 2355 (47) 1 (0) 0 (0)	(37) 7 (2) 0 (0) 0 (0) 0 (0) (0) 115 (36) 66 (21)	
a. b. c. d. e. f. g.	Malay Chinese Indian Kadazan Bajau Dusun Iban	239 (99) 2 (1) 1 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0	647 (99) 2 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0	(98) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 0 0	(92) 277 (7) 1 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 0 0	(98) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 0 0	(100) (0) (0) (0) (0) (0) (0) (0)	(95) 16 (5) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 0 0	(93) 9 (6) 1 (1) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 0 0 0 0 0	(100) (0) (0) (0) (0) (0) (0) (0)	(100) (0) (0) (0) (0) (0) (0) (0)	(99) 1 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 0 0 0 0 0 0 0 0 0 0 0	(6) 1 (0) 0 (0) 74 (15) 235 (47) 1 (0) 0	(37) 7 (2) 0 (0) 0 (0) (0) (0) (0) 115 (36) 66	
a. b. c. d. e. f. g. h. i.	Malay Chinese Indian Kadazan Bajau Dusun Iban Melanau	$\begin{array}{c} 239\\ (99)\\ 2\\ (1)\\ 1\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ 0\\ (0)\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	647 (99) 2 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 5	(98) (0) (0) (0) (0) (0) (0) (0) (0	(92) 277 (7) 1 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 2	(98) (0) (0) (0) (0) (0) (0) (0) (0	(100) (0) (0) (0) (0) (0) (0) (0)	(95) 16 (5) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 (0) 0 0 0 0	(93) 9 (6) 1 (1) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 0 0 0	(100) (0) (0) (0) (0) (0) (0) (0)	(100) (0) (0) (0) (0) (0) (0) (0)	(99) 1 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 0 (0) 5	(6) 1 (0) 0 (0) 74 (15) 74 (15) 235 (47) 1 (0) 0 (0) 83	(37) 7 (2) 0 (0) 0 (0) 0 (0) (0) 115 (36) 66 (21) 14	

Table B-1	General Profile of Paddy	Farmers	(3/4)
THOID D-T	Optional Library or Long?	1 00100	(21.0)

	۰.			÷ .									Unit	t: Num	ber (%)
Item		PR	KH	PP	РК	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
7. LANGUAC	E IN I	AILY	LIFE (	(Q.106)	)							• • •			· · · · ·
a. Malay b. English	•	239 (100) 2	653 (100) 2	97 (97) 1	343 (92) 4	40 (100) 0	504 (100) 6	294 (95) 7	134 (88) 3	629 (100) 3	305 (100) 0	597 (100) 0	125 (25) 5	157 (49) 9	4,117 (87) 42
c. Chinese	• . •	(1) 3 (1)	(0) 3 (0)	(1) 0 (0)	(1) 30 (8)	(0) 0 (0)	(1) 0 (0)	(2) 18 (6)	(2) 11 (7)	(0) 0 (0)	(0) 0 (0)	(0) 0 (0)	(1) 1 (0)	(3) 5 (2)	(1) 71 (2)
d. Kadaza e. Bajau	n	0 (0) 0	0 (0) 0	0 (0) 0	0 (0) 0	0 (0) 0	0 (0) 0	0	0	0 (0) 0	(0) 0	0 (0) 0	69 (14) 72	2 (1) 0	71 (2) 72
f. Dusun		(0) 0 (0)	(0) 0 (0)	(0) 0 (0)	(0) 0 (0)	(0) 0 (0)	0 (0)	0 (0)	(0) 0 (0)	(0) 0 (0)	0 (0)		(15) 227 (45)	(0) 0 (0)	(2) 227 (5)
g. Iban h. Melana	u	0 (0) 0 (0)	0 (0) 0 (0)	0 (0) 0 (0)	0 (0) 0 (0)	0 (0) 0 (0)	(0) (0) (0)	0 (0) 0 (0)	0 (0) 0 (0)	0 (0) 0 (0)	0 (0) 0 (0)	0 (0) 0 (0)	(0) (0)	107 (33) 68 (21)	108 (2) 68 (1)
i. Tai j. Others		(0) 6 (2)	(0) 17 (3)	(0) 1 (1)	(0) (0)	(0) (0)	0 (0)		(0) 4 (3)	(0) (0)	(0) (0) (0)	1 (0)	(0) (0) 71	(21) 0 (0) 27	29 (0)
	c	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(14)	( <b>8</b> )	106 (2)
Total No. o Responses*	· · ·	251 (104)	675 (103)	100 (100)	377 (101)	(100)	510 (101)	(103)	(103)	633 (100)		599 (100)	571 (114)		4,911 (104)
Total No. of Respondent		242	654	100	373	40	504	311	152	631	305	597	499	320	4,728

## Table B-1 General Profile of Paddy Farmers (4/4)

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

												Unit	Num	ber (%)
Item	PR	КН	PP	РК	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
1. MAJOR FARM INCOM	MESO	URCE	<b>S (Q.1</b> )	12)	-			• •	•		• .	*		
a. Paddy	239 (100)	631 (97)	72 (72)	274 (73)	25 (63)	127 (25)	140 (44)	119 (77)	143 (23)	302 (99)	551 (93)	435 (88)	263 (81)	3,321 (70)
b. Soybean &	2	- Ó	0	2	. 0	2	1	1	2	1	2	2	1	16
groundnut c. Vegetable	(1) 4	(0) 2	(0) 2	(1) 9	(0) 0	(0) 9	(0) 15	:(1) 3	(0) 13	(0) 11	(0) 1	(0) 22	(0) 24	(0) 115
d. Maize	(2)	(0) 0	(2)	(2)	(0) 3	(2) 5	:(5) - 9	(2)	(2) 6	(4) 3	(0)	(4)	(8) 29	(3) 79
e. Banana	(0) 0	(0)	(4) 2	(2) 32	(8)	(1) 15	(3) 11	(0)	(1)	(1)	(0) - 0	(2) 20	(9) 12	(2) 106
f. Fruits	(0)	(0)	(2) 6	(9) 57	(2) 0	(3) 41	(4) 15	(1)	(1) 49	(1)	(0)	(4) 28	(4) 45	(2) 260
	(0) 0	(0)	(6)	(15)	(0) 0	(8) 3	(4)	· (2) 4	(8)	(3)	(0) 0	(5)	(14) 3	(6)
	(0) 0	(0)	0 (0) 0	(1)	(0) 0	(1)	(1) 22	(3)	(0) 59	(0) 8	(0) (0)	(1) 20	(1) 32	(0) 183
	(0) 9	(0) 94	(0)	(2) 134	(0) 14	(6)	(7)	(2)	(9)	(3)	(0)	(4)	(10)	(4)
i. Rubber	(4)	(15)	(2)	(36)	(35)	351 (70)	64 (21)	36 (24)	421 (68)	20 (7)	50 (9)	75 (15)	30 (9)	1,300 (27)
j. Oil palm	0 (0)	1 (0)	2 (2)	19 (5)	1 (2)	12 (3)	2 (1)	0 (0)	(0)	2 (1)	2 (0)	0 (0)	.0 (0)	42 (1)
k. Pepper	0 (0)	· 0 · (0)	0 (0)	0 (0)	. (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	5 (2)	5 (0)
l. Coconut	0 (0)	(0)	0 (0)	· 1 (0)	0 (0)	4 (1)	5 (2)	3 (2)	8 (1)	2 (1)	0 (0)	46 (10)	15 (5)	85 (2)
m. Sugarcane	0(0)	. (0)	2	0 (0)	0 (0)	2 (0)	4 (1)	0 (0)	1	0 (0)	0 (0)	0 (0)	0 (0)	10 (0)
n. Tobacco	24 (10)	6 (1)	0 (0)	0 (0)	0 (0)	0 (0)				• •		• • •	) (0)	36 (1)
o. Tubercles	1	Ó	) (0)	1 (0)	) (0)	) (0)	) (2)	0 (0)		) (0)	(0)	1 (0)	) (0)	10 (0)
p. Others	(0)	(0)	(1)	1 (0)	(0)	(0)	5 (2)	(0) (0)		(0) (0)	3 (1)	(0) (0)	(0) (0)	13
q. None	(0) 1 (0)	(0) 1 (0)	(1) 14 (14)	30 (9)	(0) 6 (15)	52 (10)	(2) 76 (24)	(0) 2 (1)	40 (6)	(0) 0 (0)	(1) 2 (0)	(0) 39 (8)	(0) 9 (3)	272
Tratal Mar. of			. ,				. ,							(6)
Total No. of Responses*	282 (117)	740 (113)	107 (107)	578 (155)	50 (125)	654 (130)	380 (122)	175 (115)	752 (119)	368 (121)	615 (103)	702 (141)	468 (146)	5,871 (124)
Total No. of Respondents	242	654	100	373	40	504	311	152	631	305	597	499	320	4,728

## Table B-2 Living Circumstances of Paddy Farmers (1/9)

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

:													Uni	t: Num	ber (%)
Ite	m	PR	КН	PP	РК	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
A	NNUAL INCOME F	ROM	IAJOR	CROI	PS (Q.1	13)			tu su ty it tu su ty		 			Ē., Ņ.	
a.	No income	·1	2	19	72	4	131	169	7	94	0	8	92	18	617
		(0)	(0)	(19)	(19)	(10)	(26)	(53)	(5)	(15)	(0)	(1)	(18)	(6)	(13)
Ъ.	M\$1~1,000	47	188	22	91	6	21	46	57	92	216	277	129	79	1,271
	101 001 0000	(20)	(28)	(22)	(24)	(15)	(4)	(15)	(39)	(14)	(71)	(46)	(26)	(25)	(27)
c.	M\$1,001~2,000	74	179	26	78	16	99	16	35	184	50	198	106	82	1,143
А	1403 001 2 000	(31)	(27)	(26) 12	(21)	(40)	(20)	(5)	(23)	(29)	(16)	(33)	(21)	(26)	(24)
d.	M\$2,001~3,000	66 (28)	(17)	(12)	60 (16)	9 (22)	153 (30)	38 (12)	21 (14)	143 (23)	16	57 (10)	78	56	820
e.	M\$3,001~4,000	13	78	12	28	- 3	67	15	14	(23)	(5)	31	(16) 41	(18)	(17)
υ.	14100,001~4,000	(5)	(12)	(12)	(8)	(8)	(14)	(5)	(9)	· (12)		(5)	(8)	(16)	(9)
· f.	M\$4,001~5,000	22	36	(12)	9	2	23		9	29	∴(3) ∴ 5	11	23	17	195
1.	1101,001 3,000	(9)	(6)	(1)	(2)	(5)	(5)	(3)	(6)	(5)	(2)	(2)	(5)	(5)	(4)
g.	M\$5,001~6,000	5	28	- ŭí	6	0	7	3	4	10	2	5	18	- 11	100
8.	1.100,001 0,000	(2)	(4)	(1)	(2)	(0)	(1)	(1)	(3)	(2)	(1)	(1)	(4)	(3)	(2)
h.	M\$6,001~7,000	3.	· `ź	1	0	- Č	2	Ő	- Ö	1	4	2	3	1	24
		(1)	··· (1)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(1)	(0)	(1)
i.'	M\$7,001~8,000	ÌΎ	4	2	Ŷ	``ó	ì	6	í	Ó	Ì2	3	5	ì	39
		(3)	(1)	(2)	(2)	(0)	(0)	(2)	(0)	(0)	1)	(1)	(1)	(0)	(1)
j.	M\$8,001~9,000	1	5	1	6	0	0	2	1	0	1	0	1	2	20
	at a general A	(0)	(1)	(1)	(2)	(0)	(0)	(1)	(0)	· (0)	(0)	(0)	(0)	(1)	(1)
k.	M\$9,001~10,000	2	4	2	8	0	0	2	1	0	0	2	1	0	22
		(1)	(1)	(2)	(2)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(1)
1.	Above M\$10,000	1	12	1	8	0	0	6	2	2	· 1	· 3	2	1	1
		(0)	(2)	(1)	(2)	(0)	(0)	(2)	(1)	(0)	<b>(0)</b>	(1)	(0)	(0)	(0)
Тс	otal No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,728
Re	spondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)

Table B-2 Living Circumstances of Paddy Farmers (2/9)

				-							• •			Unit	: Num	ber (%)
•	Item	L	PR	КН	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
3.	SID	E INCOMES FRO	M OTH	ER SC	URCE	S THA	N MA	JOR C	ROPS	(Q.114	)					
	a.	Laborer/factory	.11	47	12	12	2	2	14	5	24	19	19	35	20	222
			(5)	(7)	(12)	(3)	(5)	. (0)	(4)	(3)	(4)	(6)	(3)		(6)	(5)
	b.	Fisherman	8	32	0	1	0	- 1	- 5	5	. 11	6	0		44	135
			(3)	(5)	(0)	(0)	(0)	· · (0)	(2)	(3)	(2)	(2)	(0)	(5)	(14)	(3)
	C.	Rubber tapper	23	152	17	59	14	86	52	33	31	40	268	5	1	781
		1. 1.	(10)	(23)	(17)	(16)	(35)	(17)	(17)	(22)	(5)	(13)	(44)		(0)	(17)
	d.	Children give	0	12	· 7	11	3	151	55	5	87	: 9	28	29	7	404
- 1		money	(0)	(2)	(7)	(3)	(8)	(30)	(18)	(3)	(14)	(3)	(5)	(6)	(2)	(9)
-	e.	Pension money	0	5	- 8	· 9.	6	103	47	: 3	29	6	3	12	6	237
•		ana ga sha bara	(0)	(1)	. (8)	(2)	(15)	(20)	(15)	(2)	(5)	(2)	(1)	(3)	(2)	(5)
		Plant tobacco,	12	27	3	10	1	26	5	18	17	17	81	4	3	224
		vegetable, etc.	(5)	(4)	(3)	(3)	(2)	(5)	(2)	(12)	(3)	(6)	(14)	(1)	(1)	(5)
		Small business/	20	27	3	17	. ••0	8	17	1	29	24	11	27	6	190
		own business	(8)	(4)	(3)	(5)	(0)	(2)	(5)	(1)	(5)	(8)	(2)	(5)	(2)	(4)
		Government	5	13	3	8	3	24	14	2	37	5	6	31	6	157
-		servant	(2)	(2)	(3)	(2)	(7)	(5)	(4)	(1)	(6)	(2)	(1)	(6)	(2)	(3)
	i.	Wood cutter,	8	19	0	8	0	0	3	1	6	7	30	7	6	95
		carpenter, make boats	(3)	(3)	(0)	(2)	(0)	(0)	(1)	(1)	(1)	(2)	(5)	(1)	(2)	(2)
		Part time job	8	18	1	16	0	9	6	6	26	3	9	11	2	115
	3.		(3)	(3)	(1)	(4)	(0)	(2)	(2)	(4)	(4)	(1)	(2)	(2)	(1)	(2)
	k.	Work in	<u></u>	17	ó	23	· Ó	20	42	4	21	20	78	20	2	255
		the village	(3)	(3)	(0)	(6)	(0)	(4)	(14)	(3)	(3)	(7)	(13)	(4)	(1)	(5)
		Rear animals	3	10	4	8	Ó	5	4	2	17	4	5	16	4	82
			(1)	(2)	(4)	(2)	(0)	(1)	(1)	(1)	(3)	(1)	(1)	(3)	(1)	(2)
· · ·	m.	Sell cookies,	··``Ý	22	ì	5	``ź	36	`ź	ì	13	16	Ìή	26	ì	139
		vegetable, fish, fruits, etc.	(3)	(3)	(1)	(1)	(5)	(7)	(1)	(1)	(2)	(5)	(1)	(5)	(0)	(3)
		None	121	239	39	173	11	119	63	66	268	108	86	231	206	1,730
	••••		(50)	(37)	(39)	(47)	(28)	(24)	(20)	(42)	(42)	(35)	(14)	(46)	(63)	(36)
	0.	No answer	0	· ``0	0		0	2	0	Č Ő	i õ	0	<u> </u>	Č Ő	0	12
	0.		(0)	(0)	(O)	(0)	· (0)	(0)	· (0)	(0)	(O)	(0)	(2)	(0)	(0)	(0)
	p.	Others	20	44	5	30	Ő	20	29	· `9	53	36	20	41	14	321
			(8)	(6)	(5)	(8)	(0)	(4)	(10)	(7)	(6)	(12)	(3)	(8)	(4)	(7)
		al No. of	254	684	103	391	42	612	358	161	669	320	660	517	328	5,099
	Res	ponses*	(104)	(105)	(103)	(104)	(105)	(121)	(116)	(106)	(105)	(105)	(111)	(103)	(103)	(108)
·		al No. of pondents	242	654	100	373	40	504	311	152	631	305	597	499	320	4,728

Table B-2 Living Circumstances of Paddy Farmers (3/9)

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

\*; Multiple answers are given.

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Item REASONS FOR ENC a. Upgrading of living standard b. Children's	· · · ·	KH IN SII	PP DE JOE	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Tota
a. Upgrading of living standard	· · · ·	IN SIL	DE JOE	0 11					· · · · ·					
living standard				b (Q.II	5a)									
living standard	109	328	38	175	15	310	216	62	265	177	398	254	102	2,44
	(90)	(80)	(63)	(88)	(53)	(80)	(87)	(73)	(73)	(89)	(78)	(96)	(89)	(8
	41	143	<u>19</u>	81	6	87	103	18	101	24	255	113	43	1,0
education	(34)	(34)	(31)	(40)	(21)	(23)	(42)	(21)	(28)	(12)	(50)	(42)	(38)	(3
c. Improvement of	30	22	2	45	ó	12	89	8	21	6	5	22	15	2
farming practices	(2.5)	(5)	(3)	(22)	(0)	(3)	(36)	(9)	(6)	(3)	(1)	(8)	(13)	
d. To survive	5	9	5	4	ì	34	22	ì	44	Ìź	ેંડ	4	2	1
u, iobarino	(4)	(2)	(8)	(2)	(3)	(9)	(9)	(1)	(12)	(2)	(1)	(1)	(2)	. (
e. Others	7	- 4	3	. 9	7	14		13	<u>ે</u> 8	<u>2</u>	12	2	ì	- 1
O. Onicio	(6)	(1)	(5)	(5)	(23)	(4)	(7)	(15)	(2)	(2)	(2)	(0)	(1)	. (
	. (•)	(-)	(0)	(*)	, <b>, , , , , , , , , , , , , , , , , , </b>									
Total No. of	192	506	67	314	29	457	448	102	439	212	673	395	163	3,9
Responses*	(159)			(157)				(119)		(108)	(132)	(147)	(143)	(13
Rosponsos	(10)	()	()	(-01)	()	<b>()</b>	()	(		<b>x x</b>	<b>、</b>			
No. of	121	415	61	200	29	385	248	86	363	197	511	268	114	2.9
Respondents									•.					•
Rospondonio														
		1000	1.				1							
ANNUAL SIDE INC	OME FR	O MO	THER	SOUR	CES (C	2.115)								
				$(x, x) \in [0, \infty)$	ag 1		149. 1						de es	
a. No income	1	0	8	6	2	17	11	3	17	5	1	alia i <b>8</b>	4	
	(1)	(0)	(13)	(3)	(7)	(4)	(4)	(3)	(5)	(3)	(0)	(3)	(4)	1
b. M\$1~1,000	24	76	3	39	3	26	16	21	100	70	107	79	33	5
0, 1141 1,000	(20)	(18)	(5)	(19)	(10)	(7)	(6)	(25)	(27)	(35)	(21)	(28)	(28)	(
c. M\$1,001~2,000	38	129	13	47	1	102	15	23	84	42	231	56	22	8
C. 11101,001 2,000	(31)	(32)	(21)	(23)	(25)	(27)	(6)	(28)	(22)	(21)	(46)	(21)	(19)	Č
d. M\$2,001~3,000	27	105	20	38	4	87	55	17	48	50	113	22	14	6
d. M\$2,001~3,000	(22)	(26)	(32)	(19)	(14)	(23)	(22)	(20)	(13)	. (25)	(22)	(8)	(12)	. (2
- NACT 001 A 000	(22)	54		35	6	54	66	13	39		30		15	3
e. M\$3,001~4,000			6		· · · =			: (15)				(8)		
C 3604 001 5 000	(12)	(13)	(10)	(17)	(21)	(14)	(28)	• •	(11)	(7)	(6)		(13)	(
f. M\$4,001~5,000	8	26	6	20	3	45	51	3 ((2)	37	10	11	27	10	2
1 TOF OD1 C 000	(7)	(6)	(10)	(10)	(10)	(12)	(21)	(3)	(10)	(5)	(2)	(10)	(9)	1
g. M\$5,001~6,000	3	15	3	6	1	28	14	2	25	2	12	15	12	1
	(2)	(4)	(5)	(3)	(3)	(7)	(6)	(2)	(7)	(1)	(2)	(6)	(11)	a stari
h M\$6,001~7,000	1	2	0	1	1	7	1	0	3	0	3	8	0	n in se Gran
	(1)	(0)	(0)	(1)	(3)	(2)	(0)	(0)	(1)	(0)	(1)	(3)	(0)	
i. M\$7,001~8,000	- 4	4	0	2	2	9	8	0	4	3	2	. 9	0	 
	(3)	(1)	(0)	(1)	(7)	(2)	(3)	(0)	(1)	(2)	(0)	. ( <b>3</b> )	(0)	
j. M\$8,001~9,000	1	2	-0	3	0	5	2	2	2	· 0	0	3	1	
J. 11440,001-7,000	(1)	(0)	(0)	(2)	(0)	(1)	(1)	(2)	(1)	. (0)	(0)	(1)	(1)	. i
•	0	Ó	1	Ó	0	Ó	1	0	2	a <b>0</b>	1		0	·
k. M\$9,001~10,000	U U		(0)	· ///	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(2)	(0)	· (
•		(0)	(2)	(0)	(0)									
k. M\$9,001~10,000	(0)	(0) 2	(2)	(0) 3	0	5	. 8	2	2	1	0	15	3	•
k. M\$9,001~10,000	(0) 0	2	1	3	0	- 5	. 8	2	2	1	0	15		
k. M\$9,001~10,000	(0)				-			-					3 (3)	
k. M\$9,001~10,000	(0) 0	2	1	3	0	- 5	8 (3)	2	2	1	0	15		2,9

Table B-2 Living Circumstances of Paddy Farmers (4/9)

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

 Item	PR	кн	PP	РК	SG	NS	MA	JR	PH	TR	KN	SA	SK	iber (9 Tota
										········				
TOTAL ANNUAL RE	VENUI	SOFT	HE FA	KW H	OUSE	HOLD	S (Q.11	3+Q.1	15+Q.:	203a)				
a. No income/	0	0	: 8	6	0	8	8	2	. 8	0	1	21	2	
No answer	(0)	(0)	(8)	(2)	(0)	(2)	(3)	(1)	(1)	(0)	(0)	(4)	(1)	(
b. M\$1~1,000	13	22	5	33	· 1	6	10	9	23	59	13	90	35	3
	(5)	(3)	(5)	(9)	(2)	(1)	(3)	(6)	(4)	(19)	(2)	(18)	(11)	
c. M\$1,001~2,000	21	54	. 4	57	2	:35	7	23	95	56	- 89	75	56	. 5
	(9)	(8)	(4)	(15)	(5)	(7)	. (2)	(15)	(15)	(18)	(15)	(15)	(17)	(1
d. M\$2,001~3,000	34	94	21	71	4	90	24	22	113	38	151	65	42	7
	(14)	(15)	(21)	. (18)	(10)	(18)	(8)	(14)	(18)	(12)	(25)	(13)	(13)	(1
e. M\$3,001~4,000	22	88	9	45	0	47	33	22	86	42	131	59	43	6
	(9)	(14)	. (9)	(12)	(0)	. (9)	(11)	(14)	(14)	(14)	(22)	(12)	(13)	()
f. M\$4,001~5,000	25	74	6	32	5	51	28	23	63	28	74	37	33	4
	(11)	(11)	(6)	(9)	(13)	(10)	(9)	(15)	(10)	(9)	(12)	(7)	. (10)	(1
g. M\$5,001~6,000	17	57	. 9	28	3	44	30	10	41	17	40	35	30	- 3
	(7)	(9)	(9)	(8)	(8)	(9)	(10)	(7)	(7)	(8)	(7)	(7)	(9)	
h. M\$6,001~7,000	22	: 49	4	20	$\gamma \in 1$	47	25	. 6	49	22	30	23	16	- 3
	(9)	(7)	(4)	(5)	(2)	(9)	(8)	(4)	(8)	(7)	(5)	(5)	(5)	
i. M\$7,001~8,000	24	38	6	14	- 4	44	32	10	30	4	23	21	14	2
	(10)	(6)	(6)	(4)	(10)	(9)	(10)	(7)	(5)	(1)	(4)	(4)	(4)	
j. M\$8,001~9,000	11	. 38	4	13	4	. 36	21	3	29	10	16	13	6	2
	(5)	(6)	(4)	(3)	(10)	(7)	(7)	(2)	(5)	(3)	(3)	(3)	(2)	
k. M\$9,001~10,000	10	34	- 3	14	3	17	15	. 4	14	7	7	13	8	1
	(4)	. (5)	(3)	(4)	(8)	(3)	(5)	(3)	(2)	(2)	(1)	(3)	. (3)	
l. M\$10,001~11,000	12	25	6	- 5	1	14	15	. 4	16	3	4	10	7	Ţ
an tan shara ta sa	(5)	(4)	(6)	(1)	(2)	(3)	(5)	· (3)	(2)	(1)	(1)	(2)	(2)	
m. M\$11,001~12,000	6	20	<b>1</b>	. 7	2	16	4	- 4	13	· 3	5	2	9	
	(3)	(3)	(1)	(2)	(5)	(3)	(1)	(3)	(2)	(1)	(1)	(0)	· (3)	
n. M\$12,001~13,000	5	12	1	. 2	2	. 9		1	13	6	2	9	3	
	(2)	(2)	(1)	(1)	(5)	- (1)	(3)	. (1)	(2)	(2)	(0)	(2)	(1)	
o. M\$13,001~14,000	5	7	1	<b>5</b>	<b>1</b>		5	2	6	0	4	3	5	
	(2)	(1)	(1)	: (1)	(2)	(2)	. (1)	(1)	(1)	(0)	(1)	(0)	·· (2)	
p. M\$14,001~15,000	. 0	· · 9	. 3	0	. 1	.7	б	2	. 8	2	2	3	3	
	(0)	(1)	(3)	(0)	(2)	(2)	(2)	(1)	(1)	(1)	(0)	(1)	(1)	
q. Above M\$15,000	15	33	9	21	6	- 26	38	5	24	. 8	5	20	8	2
	(5)	(5)	(9)	(6)	(16)	(5)	(12)	(3)	(3)	(2)	(1)	(4)	(3)	
 Total No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,7
Respondents	(100)		(100)	(100)	(100)	(100)		(100)	(100)	(100)	(100)	(100)	(100)	(10

Table B-2 Living Circumstances of Paddy Farmers (5/9)

				<u> </u>							 		Uni	t: Num	ber (%)
-	Item	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
7.	LIGHTING CONDITI	ON (Q.	110b)	··· ;				•					• • • •	• , •	an th An th
	a. Electricity	233	612	100 (100)	340	39	497	305	135 (89)	580	291	573	289	205	4,199
	b. Lamp	(96) 21	(94) 100	2	(91) 32	(98) 1	(99) 12	(98) 17	(69) 7	(92) 50	(95)	(96) 60	(58) 208	(64)	(89) 624
		(9)	(15)	(2)	(9)	(2)	(2)	(6)	(5)	(8)	(5)	(10)	(42)	(31)	(13)
	c. Generator	1	7	Ó .:	i	0	Ó	Ó	11	í	Ó	i	3	16	41
		(0)	(1)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(1)	(5)	(1)
	d. Others	0	Ó	0	3	0	ì	Ó	2	Ó	1	Ó	2	Ó	Ìg
		(0)	(0)	(0)	(1)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)
• 1	e. None	0	0	0	0	0	0	0	0	6	0	4	Ó	0	10
1	the second s	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(1)	(0)	(0)	(0)
	Total No. of	255	719	102	376	40	510	322	155	637	306	638	502	321	4,883
	Responses*	(105)	(110)	(102)	(101)	(100)	(101)	(104)	(102)	(101)	(100)	(107)	(101)	(100)	(103)
	Total No. of Respondents	242	654	100	373	40	504	311	152	631	305	597	499	320	4,728
		:					· ··	·		•					
		(-1)		- , - <sup>-</sup> -	•									1.	
3.	CONDITION OF DOI	MESTIC	WAT	ER (Q	.110c)		н н 1			-					
	a. Piped water	126	438	69	327	39	482	302	102	418	155	250	321	90	3,119
		(52)	(67)	(69)	(88)	(98)	(96)	(97)	(67)	(66)	(51)	(42)	(64)	(28)	(66)
	b. Well water	125	245	53	70	10	61	16	26	164	177	366	. 72	. 9	1,394
	a Dain water	(52)	(37)	(53)	(19)	(25)	(12)	(5)	(17)	(26)	(59)	(61)	(15)	(3)	(29
	c. Rain water	· 9	1	8	8	0	. 1	: 0	4	36	1	0	44	217	329
	d. River water	(4)	(0)	(8)	(2)	· (0)	(0)	.(0)	(3)	(6)	(0)	(0)	(9)	(68)	(7)
	d. River water	(0)	12	1	41	0	1	0	. 1	75	7	0	81	58	278
	e. Pond/Lake	0	(2)	(1)	(11)	(0) 0	(0)	(0) 0	(1)	(12)	(2)	(0)	(16)	(18)	(6
	c. I only Lake	(0)	(1)	(1)	(0)	(0)	0 (0)	(0)	-	•	-	0	45	6	66
	f. Canal water	2	1	0	4	0	0	0	(2)	(1)	(0)	(0)	(9)	(2)	(1)
		(1)	(0)	(0)	(1)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	33 (1)
	Total No. of	263	699	132	451	. 49	545	318	158	702	341	617	564	200	
	Responses*		(107)	(132)	(121)	(123)			(104)			617 (103)	(113)	380 (119)	5,219 (110)
	Total No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4.728
	Respondents		-											020	,
	•	1. A.	÷					·	$(t_{i}) \in [t_{i}]^{1}$	He de		÷ +			

Table B-2 Living Circumstances of Paddy Farmers (6/9)

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

Table B-2	Living	Circumstances of Paddy	y Farmers	(7/9)
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													Unit	Num	ber (%
	Item	PR	КН	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
i.	HOUSEHOLD ITEMS	Q.110	De)							. •					
	a. TV set	200	518			38		289	137	492		378	311	192	3,620
	b. Radio/cassette	(84) 172	(80) 436	(90) 81	(85) 261	(95)	(91) 455	(93) 286	(90) 93	(78) 474	(65)	(64) 295	(62)	(61)	(77) 3,258
	c. Sewing machine	(71) 81	(67) 239	(81) 42	(70) 192	(95) 32	(90) 181	(92) 126	(61) 59	(75) 240	(58)	(49) 75	(63) 95	(55) 94	(69) 1,527
	d. Refrigerator	(33) 87	(37) 179	(42) 28	(51) 122	(80) 27	(36) 275	(41) 199	(39) 59	(38) 219	(23) 52	(13) 12	(19) 63	(2 <u>9)</u> 39	(32 1,361
	c. Air condition	(36) 2	(27) 3	(28) 0	(33) 2	(68) 1	(55)	(64) 1	(39)	(35) 6	(17)	(2)	(13) 1	(12) 1	(29 23
	f. Electric fan	(1) 116	(0) 271	(0) 39	(0) 164	(2) 32	(0) 391	(0) 182	(1) 54	(1) 278	(0) 67	(0) 77	(0) 63	(0) 53	(0) 1,787
	g Video set	(48) 4	(41) 13	(39) 1	(44) 25	(80) 2	(77) 3	(58) 24	(36)	(44) 10	(22) 4	(13)	(13) 18	(17) 11	(38 119
	h. Telephone	(2) 16	(2) 18	(1)	(7) 23	(5) 21	(1) 4	(8) 31	(1) 2	(2) 22	(1)	(0) 1	(4) 32	(3) 6	(3) 187
	i. None	· (7) 12	(3) 54	(3) 3	(6) 21	(53) 0	(1) 10	(10) 7	(1) 9	(3) 53	(3) 57	(0) 129	(6) 102	(2) 72	(4 529
		(5)	(8)	(3)	(6)	(0)	(2)	(2)	(6)	(8)	(20)	(22)	(20)	(23)	(11)
	Total No. of Responses*		1,731 (265)	287 (287)	1,126 (302)	191 (478)	1,781 (353)	1,145 (368)		1,794 (284)	637 (209)	971 (163)	997 (200)	645 (202)	12,41 (263
	Total No. of Respondents	242	654	100	373	40	504	311	152	631	305	597	499	320	4,728

## 10. PARTICIPATION IN FARMERS' ORGANIZATION (Q.701(2))

a.	Participated	214	490	58	282	31	. 386	190	74		230	494	171	165	3,165
b.	Available but	(88) 23	(75)	(58)	(76)	(78)	100	(61) 	(49) 10	(60)	(75)	(83) 41	(34) 86	(52) 27	(67) 781
0,	not participated	(10)	(14)	(26)	(18)	(17)	(20)	(31)	(6)		(16)	(7)	(17)	(8)	(17)
c.	No farmers'	5	74	16	22	2	18	25	68	86	26	62	242	128	774
	association	(2)	(11)	(16)	(6)	(5)	(3)	(8)	(45)	(14)	(9)	(10)	(49)	(40)	(16)
То	tal No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,728
Re	spondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

												Uni	: Núm	ber (%
Item	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Tota
. PARTICIPATION IN I	RURAI	СОМ	MUNI	TY (Q	702(2)	)			÷.	· · · ·			· *	-
a. Participated	68	145	33	106	0 11	96	135	24	237	104	273	51	88	1,36
	(28)	(22)	(33)	(28)	(0)	(19)	(44)	(16)	(38)	(34)	(46)	(10)	(28)	(2
b. Available but	42	73	<u> </u>	102	20	ં 55	82	<u></u> 8	255	109	63	38	34	-8
not participated	(17)	(11)	(9)	(27)	(50)	(11)	(26)	(5)	(40)	(36)	(11)	(8)	(11)	(
c. No rurai	132	436	58	165	20	353	94	120	139	<u><u></u>92</u>	261	410	198	2,4
community	(55)	(67)	(58)	(45)	(50)	(70)	(30)	(79)	(22)	(30)	(43)	(82)	(61)	(
Total No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,7
Respondents	(100)		(100)							(100)	(100)	(100)	(100)	(1
	()	(,	()	()	()	(	(-00)	()	()	(	(-0-)	(-,-,-,)	()	<b>\</b> -
			· .	1.1	÷ .									
NAMES OF THE MU	TUAL .	AID SY	STEM	1 (Q.70	3a)	÷		- 23				÷	÷	
a. Gotong Royong	135	430	33	309	29	424	106	38	480	185	499	378	178	3,2
	(74)	(95)	(53)	(96)	(73)	(89)	(37)	(63)	(90)	(91)	(92)	(94)	(79)	(
b. JKK	5	Ó	3	4	1	45	143	Ó	- í	<u></u> 2	<u>`</u> 3	Ó	ì	2
	(3)	(0)	· (5)	(1)	(2)	(10)	(50)	(0)	(0)	(1)	(1)	(0)	(0)	
c. No name	ġ	13	26	3	10	2	14	17	10	8	34	6	8	1
	(5)	(3)	(42)	(1)	(25)	(0)	(5)	(29)	(2)	(4)	(6)	(2)	(4)	
d. Others	36	13	0	6	0	4	25	5	40	8	7	15		· 2
	(19)	(3)	(0)	(2)	(0)	(1)	(9)	(8)	(8)	(4)	(1)	(4)	(20)	
						· ··								· . ·
Total No. of	185	456	62	322	40	475	288	60	531	203	543	399	234	3,7
Responses*	(101)	(101)	(100)	(100)	(100)	(100)	(101)	(100)	(100)	(100)	(100)	(100)	(103)	(1
No. of	184	453	62	322	40	475	286	60	530	202	542	399	227	3,7
Respondents					· · · .		·			· · ·				,.
•														

Table B-2 Living Circumstances of Paddy Farmers (8/9)

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

	· · · · · · · · · · · · · · · · · · ·													: Num	
Iter	m	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Tota
. W	ORKS OR ACTIVIT	IES IN	WHIC	H TH	E MUT	UAL A	AID SY	STEM	( STIL)	L REM	AINS	(Q.704	)		
a.	Land	5	9	1	62	· 1	18	217	10	32	5	. 16	127	106	б
	preparation	(3)	(2)	(2)	(19)	(3)	(4)	(76)	(17)	(6)	(2)	(3)	(32)	(47)	(
b.	Planting	7	69	3	78	1	22	90	- 9	51	22	7	283	115	- 7
·	,	(4)	(15)	(5)	(24)	(3)	(5)	(31)	(15)	(10)	(11)	(1)	(71)	(51)	0
<sup>6</sup> C.	Cultivation	15	11	1	46	Ó	2	- 39	. 9	- 12	6	5	193	72	4
		(8)	(3)	(2)	(14)	(0)	(0)	(14)	(15)	(2)	(3)	(1)	(48)	(31)	i (
d.	Harvest	. 6	19	<u>_</u> 1	- 31	0	13	41	3	40	12	7	169	84	4
		(3)	(4)	(2)	(10)	(0)	(3)	(14)	(5)	(8)	(6)	(1)	(42)	. (37)	<b>(</b>
e.	Weeding	- 11	31	1	32	1	8	. 70	12	46	14	1	75	66	2
		(6)	(7)	(2)	(10)	(3)	(2)	(24)	(20)	(9)	- (7)	(0)	(19)	(29)	(
f.	Clearing	44	178	45	82	_ 1	120	240	14	249	91	- 36	107	93	1,3
		(24)	(39)	(72)	(25)	(3)	(25)	(85)	(22)	(47)	(45)	(7)	(27)	(41)	. (
g.	Construction,	140	292	-24	263	39	377	181	31	341	115	512	73	68	2,4
	rehabilitation or maintenance of community facilities	(76)	(65)	(38)	(83)	(96)	(78)	(63)	(52)	(63)	(58)	(95)	(18)	(30)	((
b.	Help out during	8	76	4	. 78	0	12	20	10	21	5	4	0	11	2
	function	(4)	(17)	(6)	(24)	(0)	(3)	(7)	(17)	(4)	(2)	(1)	(0)	(5)	
i.	Others	1	2	0	Ò	0	0	0	0	3	1	2	0	0	
•		(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	
То	tal No. of	237	687	- 80	672	43	572	898	98	795	271	590	1,027	615	6,5
	sponses*	(129)	(152)	(129)		(108)	(120)	(314)	(163)		(134)	(109)		(271)	(1
	o. of spondents	184	453	62	322	40	475	286	60	530	202	542	399	227	3,7

Table B-2 Living Circumstances of Paddy Farmers (9/9)

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

	Ttom	PR	KH	PP	РК	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
	Item														
1.	LAND TENURE' ST	ATUS	(Q.30)	<b>)</b>		2 · ·	· ·		· · ·			· · · · · · · · · · · · · · · · · · ·			• • •
	a. Owner operator	184 (76)	329 (50)	76 (76)	277 (74)	19 (48)	270 (54)	255 (82)	116 (76)	515 (81)	185 (61)	480 (80)	454 (91)	276 (86)	3,43 (7:
	b. Tenant	25	191	- 24	86	17	197	53	30 (20)	63 (10)	117 (38)	43 (7)	35 (7)	29 (9)	91 (19
	c. Owner-tenant	(10) 33	(29) 121	(24) 0	(23) 10	(42) 4	(38) 9	(17) 3	6	23	3	66	9	15	- 30
	d. No answer	(14)	(19) 13	(0) 0	(3)	(10) 0	(2) 28	(1)	(4) 0	(4) 30	(1)	(12)	(2) 1	(5) 0	(6 8
		(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(5)	(0)	(1)	<b>(0)</b>	(0)	(2
	Total No. of Respondents	242 (100)	654 (100)	100 (100)	373 (100)	40 (100)	504 (100)	311 (100)	152 (100)	631 (100)	305 (100)	597 (100)	499 (100)	320 (100)	4,72 (100
					•		· .			· · · ·					
2.	SIZE OF TOTAL FA	RM L.	AND (	Q.302)						·				: •	
	a. Less than 0.4 ha	. 11	17	17	16	0	10	59 (19)	11	10 (2)	17 (6)	12 (2)	9 (2)	5 (2)	19 (4
	b. 0.4 ~ 0.7 ha	(5) 27	(3) 101	(17) 32	(4) 69	(0) 13	(2) 51	110	(7) 57	54	100	91	45 (9)	26 (8)	77
	c. 0.8 ~ 1.1 ha	(11) 39	(15) 83	(32) 15	(19) 69	(33) 12	(10) 81	(36) 52	(38) 32	(8) 56	(32) 75	(15) 133	54	47	74
	d. 1.2 ~ 1.5 ha	(16) 30 (12)	(13) 88	(15) 15 (15)	(19) 50 (13)	(30) 6 (15)	(16) 79 (15)	(17) 35 (11)	(21) 29 (19)	(9) 79 (13)	(25) 38 (12)	(23) 110 (18)	(11) 79 (16)	(15) 45 (14)	(16 68 (14
	e. 1.6 ~ 2.0 ha	47	(13) 127	9	45	(13)	94	19	6	(13) 98 (16)	(12) 23 (8)	(16) 96 (16)	(10)	(14) 38 (12)	65 (14
	f. 2,1 ~ 4.0 ha	(19) 70	(19) 170	(9) 11	(12) 83	2	(19) 161	(6) 28	(4) 10	236	(8) 40 (13)	(10) 123 (21)	(10) 129 (26)	(12)	1,13 (24
	g. 4.1 ~ 6.0 ha	(29) 16	(27) 49	(11)	(22) 23	(5) 2	(32) 24	(9) 7	(6) 6	(37) 56	10	26	55	42	31
	h. More than 6.0 ha	(7) 2	(7) 19	(1) 0	(6) 18		(5) 4	(2) 1	(4) 1	(9) 42	(3) 2	(4) 6	(11) 76	(13) 42	(7 21
	i. Don't know	(1) 0	(3)	(0) 0	(5) 0	(2)	(1) 0	(0) 0	(1) 0	(6) 0	(1) 0	(1)	(15)	(13)	(5
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	((
	Total No. of Respondents	242 (100)	654 (100)	100 (100)	373 (100)	40 (100)	504 (100)	311 (100)	152 (100)	631 (100)	305 (100)	597 (100)	499 (100)	320 (100)	4,72 (10

Table B-3 Farming Conditions in Non-granary Irrigated Areas (1/11)

Remarks:

													Unit	: Num	ber (%)
Item		PR	КН	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	ŠK	Total
3. ТОТА	L CULTIVAT	ED AF	EA (Q	.501)	· . ·							-			
a. No	ne	.3	1	11	25	9	52	75	8	86	. 0	14	7	4	295
	·	(1)	(0)	(11)	(7)	(23)	(10)	(24)	(5)	(14)	(0)	(2)	(1)	(1)	(6
b. Les	ss than 0.4 ha	- 8	33	9	18	0	26	41	9	28	24	11	6	. 6	219
	· •	(3)	.(5)	.(9)	. (5)	(0)	(5)	(13)	(6)	(4)	(8)	(2)	(1)	(2)	(5
c. 0.4	~ 0.7 ha	30	104	28	82	-16	84	85	71	80	100	111	56	35	882
		(12)	(16)	(28)	(21)	(40)	(17)	(27)	(47)	(13)	(33)	(20)	(11)	(11)	(19
d. 0.8	~ 1.1 ha	42	98	18	61	8	80	42	27	73	81	145	67	53	79:
		(17)	(15)	(18)	(16)	(20)	(16)	(14)	(18)	(12)	(27)	(24)	(13)	(17)	(17
e. 1.2	~ 1.5 ha	52	126	11	53	- 3	100	28	21	-88	34	98	96	51	76
	•	(22)	(19)	(11)	(14)	(8)	(20)	(9)	(14)	(14)	(11)	(16)	(19)	(16)	(16
f. 1.6	~ 2.0 ha	39	105	10	. 47	1		14	6	100	22	99	86	43	640
		(16)	(16)	(10)	(13)	(2)	(15)	(5)	(4)	(15)	(7)	(17)	(16)	(14)	(14
g. 2.1	~ 4.0 ha	51	145	11	. 55	2	74	20	2	136	- 37	98	118	71	820
		(22)	(22)	(11)	(15)	(5)	(15)	(6)	(1)	(22)	(12)	(16)	(24)	(22)	(17
h. 4.1	~ 6.0 ha	16	35	2	15	1	9	6	6	26	6	19	- 38	30	20
		(7)	(6)	(2)	(4)	(2)	(2)	(2)	(4)	(4)	(2)	(3)	(8)	(9)	(4
i. Mo	ore than 6.0 ha	• 1	7	0	17	0	1	0	2	14	1	2	29	27	10
		(0)	(1)	(0)	(5)	(0)	(0)	(0)	(1)	(2)	(0)	(0)	(7)	(8)	(2
Total	No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,72
Respo	ondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100

## Table B-3 Farming Conditions in Non-granary Irrigated Areas (2/11)

#### TOTAL PLANTED PADDY AREA (Q.502) 4.

a. None	1	8	25	: 80	12	325	166	22	444	0	28	7	21	1,139
	(0)	(1)	(25)	(21)	(30)	(64)	(53)	(14)	(70)	(0)	(5)	(1)	(7)	(24)
b. Less than 0.4 ha	9	58	7	30	0	31	36	11	24	25	16	13	10	270
	(4)	(9)	(7)	(8)	(0)	(6)	(12)	(7)	(4)	.(8)	(3)	(3)	(3)	(6)
c. 0.4 ~ 0.7 ha	44	177	24	104	20	73	67	64	62	113	158	73	65	1,044
	(18)	(27)	(24)	(28)	(50)	(14)	(22)	(43)	(10)	(37)	(26)	(15)	(20)	(22)
d. 0.8 ~ 1.1 ha	44	119	18	64	7	51	25	24	42	94	200	111	106	905
	(18)	(18)	(18)	(17)	(18)	(10)	(8)	(16)	(7)	(31)	(33)	(22)	(33)	(19)
e. 1.2 ~ 1.5 ha	- 54	116	11	24	- 1	12	10	17	19	31	98	133	52	578
	(22)	(18)	(11)	(7)	(2)	(3)	(3)	(11)	(3)	(10)	(16)	(27)	(16)	(12)
f. 1.6 ~ 2.0 ha	37	87	7	30	0	9	3	6	24	15	65	95	31	409
· .	(16)	(13)	(7)	(8)	(0)	(2)	(1)	(4)	(4)	(5)	(11)	(19)	(10)	(9)
g. 2.1 ~ 4.0 ha	44	- 76	7	24	0	3	4	2	16	24	28	56	30	314
	(18)	(12)	(7)	(7)	(0)	(1)	(1)	(1)	(2)	(8)	(5)	(11)	(9)	(7)
h. 4.1 ~ 6.0 ha	9	9	1	12	0	0	0	.5	0	3	4	9	3	55
an a	(4)	(1)	(1)	(3)	(0)	(0)	(0)	(3)	(0)	(1)	(1)	(2)	(1)	(1)
i. More than 6.0 ha	. 0	4	0	- 5	0	0	.0	1	0	. 0	0	2	2	14
	(0)	(1)	(0)	(1)	. (0)	.(0)	(0)	(1)	(0)	(0)	(0)	(0)	(1)	(0)
Total No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,728
Respondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)

			1277	T)T)				14				WNI		: Num	
	Item	PR	КН	PP	PK	SG	NS	MA	JR	PH	TR <sup>•</sup>	KN	SA	SK	Tota
•	TOTAL CULTIVAT	ED AR	EA FC	RDO	JBLE	CROPI	PING (	OF PAI	DDY (C	2.503)	· .	. •	. 1		
					100	10	ine	o ió	50	600	0.50	E 40	410	000	
	a. None	142	119	25	136	12	445	249	52	608	252	543	410	288	3,28
		(59)	(18)	(25)	(36)	(30)	(88)	(80)	(34)	(96)	(83)	(91)	(81)	(90)	(6
	b. Less than 0.4 ha	14	44	7	29	0	8	12	8	5	: 1	2	1	2	1
		(6)	(7)	(7)	(9)	(0)	(1)	(3)	(4)	(1)	(0)	(0)	(0)	(1)	ا. ا
	c. 0.4 ~ 0.7 ha	27	151	24	83	20	14	28	56	5	18	18	15	9	4
		(11)	(23)	(24)	(22)	(50)	(3)	(9)	(37)	(1)	(6)	(3)	(3)	(3)	()
	d. 0.8 ~ 1.1 ha	20	101	18	45	7	.20	14	19	5	13	18	18	14	3
		(8)	(15)	(18)	(12)	(18)	(4)	(5)	(13)	(1)	(4)	(3)	(4)	(4)	
	e. 1.2 ~ 1.5 ha	14	94	12	18	1	6	5	11	6	7	10	33	3	- 2
		(6)	(14)	(12)	(5)	(2)	(1)	(2)	(7)	(1)	(2)	(2)	(7)	(1)	
	f. 1.6 ~ 2.0 ha	8	70	6	23	0	8	0	- 4	2	5	4	13		· 1
		(3)	(11)	(6)	(6)	(0)	(2)	(0)	(3)	(0)	(2)	(1)	(3)	(1)	
	g. 2.1 ~ 4.0 ha	15	63	7	23	0	3	3	1	0	. 8	1	3. 8	1	· 1
		(6)	(10)	(7)	(6)	(0)	(1)	(1)	(1)	(0)	(3)	(0)	(2)	(0)	
	h. 4.1 ~ 6.0 ha	2	- 8	1	11	. 0	0	0	0	0	1	. 1	0	0	
	а. С	(1)	(1)	(1)	(3)	(0)	(0)	(0)	(0)	· · (0)	(0)	(0)	(0)	(0)	
	i. More than 6.0 ha	- 0	. 4	0	5	0	. 0	0	· · 1	. 0	0	0	1	1	
		(0)	(1)	(0)	(1)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	. (0)	
	Total No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,7
	Respondents	(100)				(100)						(100)	(100)	(100)	1
	Respindents	(-++)													•
	TOTAL CULTIVA		REA FO	)R TW	O CRO	OPPIN	G (Q.5)	04)							
	TOTAL CULTIVAT	TED AF	:						05	600	076	EEL	402	200	
	· •	TED AF 155	391	64	311	12	375	270	85	602	276	556	493	309	
	TOTAL CULTIVAT	TED AF 155 (64)	391 (60)	64 (64)	311 (82)	12 (30)	375 (74)	270 (87)	(56)	(96)	(90)	(93)	(99)	(97)	(
	TOTAL CULTIVAT	TED AF 155 (64) 34	391 (60) 35	64 (64) 3	311 (82) 6	12 (30) 0	375 (74) 13	270 (87) 6	(56) 7	(96) 3	(90) 5	(93) 8	(99) 0	(97) 2	(
	TOTAL CULTIVAT a. None b. Less than 0.4 ha	TED AF 155 (64) 34 (14)	391 (60) 35 (5)	64 (64) 3 (3)	311 (82) 6 (2)	12 (30) 0 (0)	375 (74) 13 (3)	270 (87) 6 (2)	(56) 7 (4)	(96) 3 (0)	(90) 5 (2)	(93) 8 (1)	(99) 0 (0)	(97) 2 (1)	(
	TOTAL CULTIVAT	TED AF 155 (64) 34 (14) 13	391 (60) 35 (5) 83	64 (64) 3 (3) 11	311 (82) 6 (2) 28	12 (30) 0 (0) 20	375 (74) 13 (3) 27	270 (87) 6 (2) 13	(56) 7 (4) 35	(96) 3 (0) 3	(90) 5 (2) 8	(93) 8 (1) 19	(99) 0 (0) 1	(97) 2 (1) 6	(
	TOTAL CULTIVAT a. None b. Less than 0.4 ha c. 0.4 ~ 0.7 ha	155 (64) 34 (14) 13 (5)	391 (60) 35 (5) 83 (13)	64 (64) 3 (3) 11 (11)	311 (82) 6 (2) 28 (8)	12 (30) 0 (0) 20 (50)	375 (74) 13 (3) 27 (5)	270 (87) 6 (2) 13 (4)	(56) 7 (4) 35 (23)	(96) 3 (0) 3 (0)	(90) 5 (2) 8 (3)	(93) 8 (1) 19 (3)	(99) 0 (0) 1 (0)	(97) 2 (1) 6 (2)	( 1 2
	TOTAL CULTIVAT a. None b. Less than 0.4 ha	155 (64) 34 (14) 13 (5) 11	391 (60) 35 (5) 83 (13) 51	64 (64) 3 (3) 11 (11) 9	311 (82) 6 (2) 28 (8) 14	12 (30) 0 (0) 20 (50) 7	375 (74) 13 (3) 27 (5) 26	270 (87) 6 (2) 13 (4) 9	(56) 7 (4) 35 (23) 12	(96) 3 (0) 3 (0) 6	(90) 5 (2) 8 (3) 4	(93) 8 (1) 19 (3) 7	(99) 0 (0) 1 (0) 2	(97) 2 (1) 6 (2) 1	( 1 2 1
	TOTAL CULTIVAT a. None b. Less than 0.4 ha c. 0.4 ~ 0.7 ha d. 0.8 ~ 1.1 ha	155 (64) 34 (14) 13 (5) 11 (5)	391 (60) 35 (5) 83 (13) 51 (8)	64 (64) 3 (3) 11 (11) 9 (9)	311 (82) 6 (2) 28 (8) 14 (4)	12 (30) 0 (0) 20 (50) 7 (18)	375 (74) 13 (3) 27 (5) 26 (5)	270 (87) 6 (2) 13 (4) 9 (3)	(56) 7 (4) 35 (23) 12 (8)	(96) 3 (0) 3 (0) 6 (1)	(90) 5 (2) 8 (3) 4 (1)	(93) 8 (1) 19 (3) 7 (1)	(99) 0 (0) 1 (0) 2 (0)	(97) 2 (1) 6 (2) 1 (0)	(
	TOTAL CULTIVAT a. None b. Less than 0.4 ha c. 0.4 ~ 0.7 ha	155 (64) 34 (14) 13 (5) 11 (5) 10	391 (60) 35 (5) 83 (13) 51 (8) 39	64 (64) 3 (3) 11 (11) 9 (9) 9	311 (82) 6 (2) 28 (8) 14 (4) 7	12 (30) 0 (0) 20 (50) 7 (18) 1	375 (74) 13 (3) 27 (5) 26 (5) 26	270 (87) 6 (2) 13 (4) 9 (3) 8	(56) 7 (4) 35 (23) 12 (8) 7	(96) 3 (0) 3 (0) 6 (1) 7	(90) 5 (2) 8 (3) 4 (1) 6	(93) 8 (1) 19 (3) 7 (1) 3	(99) 0 (0) 1 (0) 2 (0) 0	(97) 2 (1) 6 (2) 1 (0) 1	( 1 2 1
	TOTAL CULTIVAT a. None b. Less than 0.4 ha c. 0.4 ~ 0.7 ha d. 0.8 ~ 1.1 ha e. 1.2 ~ 1.5 ha	155 (64) 34 (14) 13 (5) 11 (5) 10 (4)	391 (60) 35 (5) 83 (13) 51 (8) 39 (6)	64 (64) 3 (3) 11 (11) 9 (9) 9 (9)	311 (82) 6 (2) 28 (8) 14 (4) 7 (2)	12 (30) 0 (0) 20 (50) 7 (18) 1 (1)	375 (74) 13 (3) 27 (5) 26 (5) 26 (5)	270 (87) 6 (2) 13 (4) 9 (3) 8 (3)	(56) 7 (4) 35 (23) 12 (8) 7 (4)	(96) 3 (0) 3 (0) 6 (1) 7 (2)	(90) 5 (2) 8 (3) 4 (1) 6 (2)	(93) 8 (1) 19 (3) 7 (1) 3 (1)	(99) 0 (0) 1 (0) 2 (0) 0 (0)	(97) 2 (1) 6 (2) 1 (0) 1 (0)	( 1 2 1 1
-	TOTAL CULTIVAT a. None b. Less than 0.4 ha c. 0.4 ~ 0.7 ha d. 0.8 ~ 1.1 ha	155 (64) 34 (14) 13 (5) 11 (5) 10 (4) 6	391 (60) 35 (5) 83 (13) 51 (8) 39 (6) 25	64 (64) 3 (3) 11 (11) 9 (9) 9 (9) 2	311 (82) 6 (2) 28 (8) 14 (4) 7 (2) 3	12 (30) 0 (0) 20 (50) 7 (18) 1 (1) 0	375 (74) 13 (3) 27 (5) 26 (5) 26 (5) 15	270 (87) 6 (2) 13 (4) 9 (3) 8 (3) 8 (3) 3	(56) 7 (4) 35 (23) 12 (8) 7 (4) 4	(96) 3 (0) 3 (0) 6 (1) 7 (2) 5	(90) 5 (2) 8 (3) 4 (1) 6 (2) 2	(93) 8 (1) 19 (3) 7 (1) 3 (1) 3	(99) 0 (0) 1 (0) 2 (0) 0 (0) 0 0	(97) 2 (1) 6 (2) 1 (0) 1 (0) 0	( 1 2 1 1
-	TOTAL CULTIVAT a. None b. Less than 0.4 ha c. 0.4 ~ 0.7 ha d. 0.8 ~ 1.1 ha e. 1.2 ~ 1.5 ha	155 (64) 34 (14) 13 (5) 11 (5) 10 (4)	391 (60) 35 (5) 83 (13) 51 (8) 39 (6)	64 (64) 3 (3) 11 (11) 9 (9) 9 (9)	311 (82) 6 (2) 28 (8) 14 (4) 7 (2)	12 (30) 0 (0) 20 (50) 7 (18) 1 (1)	375 (74) 13 (3) 27 (5) 26 (5) 26 (5)	270 (87) 6 (2) 13 (4) 9 (3) 8 (3)	(56) 7 (4) 35 (23) 12 (8) 7 (4)	(96) 3 (0) 3 (0) 6 (1) 7 (2)	(90) 5 (2) 8 (3) 4 (1) 6 (2)	(93) 8 (1) 19 (3) 7 (1) 3 (1)	(99) 0 (0) 1 (0) 2 (0) 0 (0)	(97) 2 (1) 6 (2) 1 (0) 1 (0)	3,8 (1 2 1 1

Table B-3	Farming Conditions in Non-granary	Irrigated A	Areas (3/11)
	running oonantono in room Brinning		

PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, Remarks: JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

(0)

(0)

0

(0)

40

0

(3)

(2)

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4

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504 311

(1)

0

(0)

0

(0)

(0)

(0)

(0)

631

1

1

(1)

1

(0)

0

(0)

305

(1)

0

(0)

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(1)

152

(100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100)

(1)

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(1)

14

(0)

7

(0)

4,728

(4)

4

(0)

2

(0)

654

(5)

(1)

(0)

242

0

2

h. 4.1 ~ 6.0 ha

Total No. of

Respondents

i. More than 6.0 ha

(1)

(1)

0

(0)

100

1

(0)

1

(0)

(1)

373

2

a. Onc (33) (33) (51) (36) (78) (24) (71) (68) (24) (26) (39) (47) (37) b. Two (30) (32) (18) (44) (15) (58) (24) (18) (48) (27) (36) (40) (39) c. Three (44) 158 165 51 3 70 10 7 125 51 86 44 52 (18) (24) (16) (14) (7) (14) (3) (5) (19) (17) (14) (9) (16) d. More than three (45 69 13 23 0 23 3 13 54 89 65 20 27 (19) (11) (13) (6) (0) (40) (1) (9) (9) (29) (11) (4) (8) e. None 0 0 2 0 0 0 4 0 0 3 0 0 0 (0) (0) (2) (0) (0) (0) (11) (0) (0) (10) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) Total No. of (47 19 0 66 0 113 89 29 164 238 533 407 279 2, (48) (27) (13) (6) (0) (100)		Item	PR	КН	PP	PK	SĠ	NS	MA	JR	PH	TR	KN	SA	SK	ber (% Total
a. Onc (33) (33) (31) (36) (78) (24) (71) (68) (24) (26) (39) (47) (37) (30) (32) (18) (44) (15) (58) (24) (18) (48) (27) (36) (44) (39) c. Three (44) 158 16 51 3 70 10 7 125 51 86 44 52 (18) (24) (16) (14) (7) (14) (3) (5) (19) (17) (14) (9) (16) (18) (24) (16) (14) (7) (14) (3) (5) (19) (17) (14) (9) (16) (18) (24) (16) (14) (7) (14) (3) (5) (19) (17) (14) (9) (16) (19) (11) (13) (6) (0) (44) (1) (9) (9) (22) (11) (4) (8) e. None 0 0 2 0 0 0 4 0 0 3 0 0 0 (0) (0) (2) (0) (0) (0) (10) (100) (		<u></u>														
(33)       (31)       (31)       (36)       (78)       (24)       (71)       (68)       (24)       (26)       (39)       (47)       (37)         b, Two       73       208       18       163       6       292       76       27       302       82       215       202       124       118         (13)       (32)       (18)       (14)       (15)       (58)       (14)       (17)       (14)       (3)       (5)       (19)       (17)       (14)       (9)       (16)       (44)       (28)       (29)       (11)       (44)       (8)       (27)       (36)       (40)       (17)       (14)       (19)       (11)       (13)       (6)       (0)       (4)       (11)       (9)       (9)       (29)       (11)       (4)       (8)       (8)       (8)       (6)       20       0       0       4       0       3       0	7.	NUMBER OF FARM	M LOT	(S) (Q.	303)	1. 			•.		•					÷
b. Two 73 208 18 163 6 292 76 27 302 82 215 202 124 1 (30) (32) (18) (44) (15) (58) (24) (18) (48) (27) (36) (40) (39) c. Three 44 158 16 51 3 70 10 7 125 51 86 44 52 (18) (24) (16) (14) (7) (14) (3) (5) (19) (17) (14) (9) (16) d. More than three 45 69 13 23 0 23 3 13 54 89 65 20 27 (19) (11) (13) (6) (0) (4) (1) (9) (9) (29) (11) (4) (8) c. None 0 0 2 0 0 0 4 0 0 3 0 0 0 (0) (0) (2) (0) (0) (0) (1) (0) (0) (1) (0) (0) (0) Total No, of 242 654 100 373 40 504 311 152 631 305 597 499 320 4, Respondents (100)		a. One	80	219	51	136	31	119	218	105	150	. 80	231	233	117	1,77
b. Two 73 208 18 163 6 292 76 27 302 82 215 202 124 1 (30) (32) (18) (44) (15) (58) (24) (18) (48) (27) (36) (40) (39) c. Three 44 158 16 51 3 70 10 7 125 51 86 44 52 (18) (24) (16) (14) (7) (14) (3) (5) (19) (17) (14) (9) (16) d. More than three 45 69 13 23 0 23 3 13 54 89 65 20 27 (19) (11) (13) (6) (0) (4) (1) (9) (9) (29) (11) (4) (8) e. None 0 0 2 0 0 0 4 0 0 3 0 0 0 (0) (0) (2) (0) (0) (0) (1) (0) (0) (1) (0) (0) (0) (0) Total No. of 242 654 100 373 40 504 311 152 631 305 597 499 320 4, Respondents (100) (0) (0) (0) (0) (0) (0) (0) (0) (0)			(33)	(33)	(51)	(36)	(78)	(24)	(71)	(68)	(24)	(26)	(39)	(47)	(37)	(38
c. Three       44       158       16       51       3       70       10       7       125       51       86       44       52         (18)       (24)       (16)       (14)       (7)       (14)       (3)       (5)       (19)       (11)       (14)       (3)       (5)       (19)       (11)       (13)       54       89       65       20       27         (19)       (11)       (13)       (6)       (0)       (4)       (1)       (9)       (9)       (29)       (11)       (4)       (8)         e. None       0       0       2       0       0       4       0       3       0		b. Two	73	208	18	163	6	292	76	27	302	82	215	202	.124	1,78
(18)       (24)       (16)       (14)       (7)       (14)       (3)       (5)       (19)       (17)       (14)       (9)       (16)         d. More than three       45       69       13       23       0       23       3       13       54       89       65       20       27         (19)       (11)       (13)       (6)       (0)       (4)       (19)       (9)       (9)       (29)       (11)       (4)       (8)         e. None       0       0       2       0       0       4       0       0       3       0       0       0         (0)       (0)       (2)       (0)       (0)       (10)       (10		· · · ·	(30)	(32)	(18)	(44)	(15)	(58)	(24)	(18)	(48)	(27)	(36)	(40)	(39)	(38
d. More than three       45       69       13       23       0       23       3       13       54       89       65       20       27         (19)       (11)       (13)       (6)       (0)       (4)       (1)       (9)       (29)       (11)       (4)       (8)         e. None       0       0       2       0       0       0       4       0       0       3       0	:	c. Three	44	158	16	51	3	70	10	7	125	51	86	44	52	71
d. More than three       45       69       13       23       0       23       3       13       54       89       65       20       27         (19)       (11)       (13)       (6)       (0)       (4)       (1)       (9)       (29)       (11)       (4)       (8)         e. None       0       0       2       0       0       0       4       0       0       3       0			(18)	(24)	: (16)	(14)	(7)	(14)	(3)	(5)	(19)	(17)	(14)	(9)	(16)	(15
c. None       0       0       2       0       0       0       4       0       0       3       0       0       0         (0)       (0)       (2)       (0)       (0)       (0)       (1)       (1)<		d. More than three	45	69							54	89	65		27	44
c. None       0       0       2       0       0       0       4       0       0       3       0       0       0         (0)       (0)       (2)       (0)       (0)       (0)       (1)       (1)<		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	(19)	(11)	(13)	(6)	(0)	(4)	(1)	(9)	(9)	(29)	(11)	(4)	(8)	- (9
(0)       (0)       (2)       (0)       (0)       (1)       (0)       (1)       (0)       (0)       (0)         Total No. of Respondents       242       654       100       373       40       504       311       152       631       305       597       499       320       4, Respondents         (100)       (10	- 1	e. None						· · · ·						• •		•
Respondents       (100)			(0)	(0)	(2)	(0)	(0)	(0)	(1)	(0)	(0)	(1)	(0)	(0)	(0)	(0
Respondents       (100)		Total No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,72
a. One       167       119       0       60       0       113       89       29       164       238       533       407       279       2,         (69)       (18)       (0)       (16)       (0)       (22)       (29)       (19)       (26)       (79)       (89)       (81)       (87)       1         (31)       (81)       (75)       (62)       (70)       (11)       (19)       (64)       (5)       (21)       (9)       (18)       (7)         c. None       1       7       25       83       12       337       162       26       438       1       14       4       20       1,         (0)       (1)       (25)       (22)       (30)       (67)       (52)       (17)       (69)       (0)       (2)       (1)       (6)         d. No answer       0		Respondents	(100)	(100)	(100)	(100)	(100)	(100)		(100)	(100)	(100)	(100)	(100)	(100)	(100
a. One       167       119       0       60       0       113       89       29       164       238       533       407       279       2,         (69)       (18)       (0)       (16)       (0)       (22)       (29)       (19)       (26)       (79)       (89)       (81)       (87)       1         (31)       (81)       (75)       (62)       (70)       (11)       (19)       (64)       (5)       (21)       (9)       (18)       (7)         c. None       1       7       25       83       12       337       162       26       438       1       14       4       20       1,         (0)       (1)       (25)       (22)       (30)       (67)       (52)       (17)       (69)       (0)       (2)       (1)       (6)         d. No answer       0					. * .	•	· · ·									
a. One       167       119       0       60       0       113       89       29       164       238       533       407       279       2,         (69)       (18)       (0)       (16)       (0)       (22)       (29)       (19)       (26)       (79)       (89)       (81)       (87)       1         (31)       (81)       (75)       (62)       (70)       (11)       (19)       (64)       (5)       (21)       (9)       (18)       (7)         c. None       1       7       25       83       12       337       162       26       438       1       14       4       20       1,         (0)       (1)       (25)       (22)       (30)       (67)       (52)       (17)       (69)       (0)       (2)       (1)       (6)         d. No answer       0	1	ter en en	8 a.					••								
(69)       (18)       (0)       (16)       (0)       (22)       (29)       (19)       (26)       (79)       (89)       (81)       (87)         b. Twice       74       528       75       230       28       54       60       97       29       65       50       88       21       1,         (31)       (81)       (75)       (62)       (70)       (11)       (19)       (64)       (5)       (21)       (9)       (18)       (7)         c. None       1       7       25       83       12       337       162       26       438       1       14       4       20       1,         (0)       (1)       (25)       (22)       (30)       (67)       (52)       (17)       (69)       (0)       (2)       (1)       (6)         d. No answer       0	•	NUMBER OF PADI	OY CUI	LTIVA	TION	PER Y	EAR (	Q.401)								
b. Twice       74       528       75       230       28       54       60       97       29       65       50       88       21       1,         (31)       (81)       (75)       (62)       (70)       (11)       (19)       (64)       (5)       (21)       (9)       (18)       (7)         c. None       1       7       25       83       12       337       162       26       438       1       14       4       20       1,         (0)       (1)       (25)       (22)       (30)       (67)       (52)       (17)       (69)       (0)       (2)       (1)       (6)         d. No answer       0 <t< td=""><td></td><td>a. One</td><td>167</td><td>119</td><td>0</td><td>60</td><td>0</td><td>113</td><td>89</td><td>29</td><td>164</td><td>238</td><td>533</td><td>407</td><td>279</td><td>2,19</td></t<>		a. One	167	119	0	60	0	113	89	29	164	238	533	407	279	2,19
(31)       (81)       (75)       (62)       (70)       (11)       (19)       (64)       (5)       (21)       (9)       (18)       (7)         c. None       1       7       25       83       12       337       162       26       438       1       14       4       20       1,         (0)       (1)       (25)       (22)       (30)       (67)       (52)       (17)       (69)       (0)       (2)       (1)       (6)         d. No answer       0       0       0       0       0       0       0       0       1       0       0       0         (0)		1999 - 19	(69)	(18)	(0)	(16)	(0)	(22)	(29)	(19)	(26)	(79)	(89)	(81)	(87)	. (4
c. None       1       7       25       83       12       337       162       26       438       1       14       4       20       1,         (0)       (1)       (25)       (22)       (30)       (67)       (52)       (17)       (69)       (0)       (2)       (1)       (6)         d. No answer       0		b. Twice	74	528	75	230	28	54	60	97	29	65	50	88	21	1,39
c. None       1       7       25       83       12       337       162       26       438       1       14       4       20       1,         (0)       (1)       (25)       (22)       (30)       (67)       (52)       (17)       (69)       (0)       (2)       (1)       (6)         d. No answer       0			(31)	(81)	(75)	(62)	(70)	(11)	(19)	(64)	(5)	(21)	(9)	(18)	(7)	(30
d. No answer       0       0       0       0       0       0       0       1       0       0       0         (0)		c. None	1	7		83	12	337	162	26	438	-1	14	4		1,13
(0)       (100)       (100)       (100)			(0)	(1)	(25)	(22)	(30)	(67)	(52)	(17)	(69)	(0)	(2)	(1)	(6)	(2)
Total No. of Respondents       242       654       100       373       40       504       311       152       631       305       597       499       320       4, Respondents         .       EXISTENCE OF IRRIGATION FACILITY FOR PADDY FIELDS (Q.402)         a. Yes-Whole field       93       383       54       226       26       129       107       82       141       156       306       314       154       2, (39)         (59)       (72)       (78)       (93)       (77)       (72)       (65)       (73)       (51)       (52)       (63)       (51)         b. Yes-Partly       133       217       21       57       2       36       30       38       37       74       276       123       93       1, (55)       (34)       (28)       (20)       (7)       (22)       (20)       (30)       (19)       (25)       (48)       (25)       (31)       6       15       73       1       58       53       (6)       (7)       (0)       (2)       (0)       (12)       (18)         Total No. of       241       647       75       290       28       167       149       126       193       303		d. No answer	0	0	0	. 0	0	0	0	0	- 0	1	Ó	0	0	
Respondents       (100)			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(
a. Yes-Whole field       93       383       54       226       26       129       107       82       141       156       306       314       154       2,         (39)       (59)       (72)       (78)       (93)       (77)       (72)       (65)       (73)       (51)       (52)       (63)       (51)         b. Yes-Partly       133       217       21       57       2       36       30       38       37       74       276       123       93       1,         (55)       (34)       (28)       (20)       (7)       (22)       (20)       (30)       (19)       (25)       (48)       (25)       (31)         c. No       15       47       0       7       0       2       12       6       15       73       1       58       53         (6)       (7)       (0)       (2)       (0)       (1)       (8)       (5)       (8)       (24)       (0)       (12)       (18)		Total No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,72
a. Yes-Whole field       93       383       54       226       26       129       107       82       141       156       306       314       154       2,         (39)       (59)       (72)       (78)       (93)       (77)       (72)       (65)       (73)       (51)       (52)       (63)       (51)         b. Yes-Partly       133       217       21       57       2       36       30       38       37       74       276       123       93       1,         (55)       (34)       (28)       (20)       (7)       (22)       (20)       (30)       (19)       (25)       (48)       (25)       (31)         c. No       15       47       0       7       0       2       12       6       15       73       1       58       53         (6)       (7)       (0)       (2)       (0)       (1)       (8)       (5)       (8)       (24)       (0)       (12)       (18)		Respondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(10
a. Yes-Whole field       93       383       54       226       26       129       107       82       141       156       306       314       154       2,         (39)       (59)       (72)       (78)       (93)       (77)       (72)       (65)       (73)       (51)       (52)       (63)       (51)         b. Yes-Partly       133       217       21       57       2       36       30       38       37       74       276       123       93       1,         (55)       (34)       (28)       (20)       (7)       (22)       (20)       (30)       (19)       (25)       (48)       (25)       (31)         c. No       15       47       0       7       0       2       12       6       15       73       1       58       53         (6)       (7)       (0)       (2)       (0)       (1)       (8)       (5)       (8)       (24)       (0)       (12)       (18)																
a. Yes-Whole field       93       383       54       226       26       129       107       82       141       156       306       314       154       2,         (39)       (59)       (72)       (78)       (93)       (77)       (72)       (65)       (73)       (51)       (52)       (63)       (51)         b. Yes-Partly       133       217       21       57       2       36       30       38       37       74       276       123       93       1,         (55)       (34)       (28)       (20)       (7)       (22)       (20)       (30)       (19)       (25)       (48)       (25)       (31)         c. No       15       47       0       7       0       2       12       6       15       73       1       58       53         (6)       (7)       (0)       (2)       (0)       (1)       (8)       (5)       (8)       (24)       (0)       (12)       (18)		e de la construcción de la const							÷							
(39)       (59)       (72)       (78)       (93)       (77)       (72)       (65)       (73)       (51)       (52)       (63)       (51)         b. Yes-Partly       133       217       21       57       2       36       30       38       37       74       276       123       93       1,         (55)       (34)       (28)       (20)       (7)       (22)       (20)       (30)       (19)       (25)       (48)       (25)       (31)         c. No       15       47       0       7       0       2       12       6       15       73       1       58       53         (6)       (7)       (0)       (2)       (0)       (1)       (8)       (5)       (8)       (24)       (0)       (12)       (18)	).	EXISTENCE OF IR	RIGAT	ION F	ACILI	FY FO	R PAD	DYFI	ELDS	(Q.402	)					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		a. Yes-Whole field	93	383	54	226	26	129	107	82	141	156	306	314	154	2,17
b. Yes-Partly       133       217       21       57       2       36       30       38       37       74       276       123       93       1,         (55)       (34)       (28)       (20)       (7)       (22)       (20)       (30)       (19)       (25)       (48)       (25)       (31)         c. No       15       47       0       7       0       2       12       6       15       73       1       58       53         (6)       (7)       (0)       (2)       (0)       (1)       (8)       (5)       (8)       (24)       (0)       (12)       (18)         Total No. of       241       647       75       290       28       167       149       126       193       303       583       495       300       3,			(39)	(59)	(72)	(78)	(93)	(77)	(72)	(65)	(73)	(51)	(52)	(63)	(51)	(6)
(55)       (34)       (28)       (20)       (7)       (22)       (20)       (30)       (19)       (25)       (48)       (25)       (31)         c. No       15       47       0       7       0       2       12       6       15       73       1       58       53         (6)       (7)       (0)       (2)       (0)       (1)       (8)       (5)       (8)       (24)       (0)       (12)       (18)         Total No. of       241       647       75       290       28       167       149       126       193       303       583       495       300       3,		b. Yes-Partly				57	2		30	38	37	74	276	123	93	1,13
c. No       15       47       0       7       0       2       12       6       15       73       1       58       53         (6)       (7)       (0)       (2)       (0)       (1)       (8)       (5)       (8)       (24)       (0)       (12)       (18)         Total No. of       241       647       75       290       28       167       149       126       193       303       583       495       300       3,		The second second	(55)	(34)	(28)	(20)	(7)	(22)	(20)	(30)	(19)	(25)	(48)	(25)	(31)	(32
(6)       (7)       (0)       (2)       (0)       (1)       (8)       (5)       (8)       (24)       (0)       (12)       (18)         Total No. of       241       647       75       290       28       167       149       126       193       303       583       495       300       3,		c. No	15	47	0	7	0	2	12			73		58		28
			(6)	(7)	(0)	(2)	(0)	(1)	(8)	(5)	(8)	(24)	(0)	(12)	(18)	(
		Total No. of	241	647	75	290	. 28	167	149	126	193	303	583	495	300	3,59
		Respondents	(100)	(100)	(100)	(100)	(100)	(100)								(10

Table B-3 Farming Conditions in Non-granary Irrigated Areas (4/11)

Remarks:

	Item	PR	KH	PP	PK	SG	NS	MA	JR _	PH	TR	KN	SA	ŠK	Total
<u> </u>						C 405									
0.	IRRIGATION WA	1ER 50.	CELL V	JOAN	1111	Q.405,	,								
• •	Main Season				•		-	•	. *	1 1 1 1 2 1		۰.			: .
•					• • •	· · · · ·	1.67	120	00	140	161	400	250	162	2.60
	a. Sufficient	210	554	61	249	27	157	130	92 (77)	140 (79)	161 (70)	400 (69)	350 (80)	(66)	2,69 (81
·	h. Niet sufficient	(93) 16	(92) 46	(81) 14	(88)	(96)	(95) 8	(95) 7	28		70	182	87		61
	b. Not sufficient	-		(19)	(12)		(5)	(5)	(23)	(21)	(30)	(31)	(20)	(34)	(19
		(7)	(8)	(19)	(12)	(4)	(3)		(23)	(21)	(30)	(51)	(20)	(34)	
	No. of	226	600	75	283	28	165	137	120	178	231	582	437	247	3,30
	Respondents		(100)		(100)			(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100
1	· · · · · · · · · · · · · · · · · · ·													•	
						. 1									
	Off Season	,	e est		1. 1. 1.	•••	· .	11	121-1						
•												 1 m	40		
	a. Sufficient	12	269	39	157	24	. 27	31	50	20	33	(20)	42	4	72
	h NTed au 66 al ant	(16)	(52)	(52)	(70)	(86)	(50)	(53)	(53) 44	(71)	(52)	(30)	(52) 39	(19) 17	(53
	b. Not sufficient	61 (84)	248	36	68	4	27	28	(47)	8 (29)	(48)	35 (70)	(48)	(81)	(47
		(84)	(48)	(48)	(30)	(14)	(50)	(47)	(47)	(27)	(40)	(70)	(40)	(01)	(47)
	No. of	. 73	517	.75	225	-28	54	59	-94	28	63	50	81	21	1,36
	Respondents	(100)	(100)	(100)	(100)		(100)		(100)	(100)	(100)	(100)	(100)	(100)	(100
		-			1.1			14 C - 14	1.1					1.1	
		. *	1.1		·			1.163			· ·				
						0000									× .
1.	INUNDATION PE	RIOD A	FIER	NORM		ICODI	NG (Q	.414(1)	<b>)</b>	е. 1911 г. – 1			14.1		
	a. Within 1 day	14	126	-11	100	7	133	28	38	63	60	425	127	49	1,18
	a. Within Ludy	(7)	(24)	(15)	(36)	(26)	(84)	(27)	(36)	(38)	(26)	(82)	(34)	(23)	(40
	b. Up to 2 days	-38	- 77	9	24	1	12	11	13	23	25	72	66	36	40
		(20)	(15)	(12)	(9)	(4)	(7)	(10)	(13)	(14)	(11)	(14)	(18)	(17)	(14
	c. Up to 3 days	40	70	9	13	1	4	6	5	8	35	12	48	37	28
	The second second	(21)	(14)	(12)	(5)	(4)	(2)	(6)	(5)	(5)	(15)	(2)	(13)	(18)	(10
	d. More than	87	189	24	37	1	12	54	16	62	109	10	133	78	81
	3 days	(44)	(36)	(32)	(14)	(4)		(50)	(15)	(38)	(48)	(2)	: (35)	(37)	(27
	e. None	15			95		0		32	9	0	1	0	10	26
		(8)	(11)	(29)	(35)	(62)	(0)	(7)	(31)	(5)	(0)	(0)	· · (0)	(5)	(9
	No. of	194	520	74	269	27	161	107	104	165	220	520	374	210	2,95
	Respondents								(100)						(100
	Respondents														

 Table B-3
 Farming Conditions in Non-granary Irrigated Areas (5/11)

Remarks:

PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

: :

	<u></u>	viac											Unit	: Num	ber (%)
	Item	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
12.	INUNDATION PER	RIOD A	FTER	HEAV	Y RAI	NFALI	_ (Q.41	3(1))				4.5			
	a. Within 1 day	14	126	. 11	100	7	133	28	38	63	60	425	127	49	1,181
	· · ·	(7)	(24)	(15)	(37)	(26)	(84)	(26)	(37)	(38)	(26)	(82)	(34)	(23)	(40
	b. Up to 2 days	38	77	9	24	1	12	11	13	23	25	72	66	36	407
		(20)	(15)	(12)	(9)	(4)	(7)	(10)	(12)	(14)	(11)	(14)	(18)	(17)	(14
	c. Up to 3 days	40	70	9		1	4	6	5	-8	35	12	48	.37	288
		(21)	(14)	(12)	(5)	(4)	(2)	(6)	(5)	(5)	(15)	(2)	(13)	(18)	(10)
· .	d. More than	87	189	24	. 37	1	12	54	16	62	109	10	133	78	812
	3 days	(45)	(36)	(32)	(14)	(4)	(7)	(51)	(15)	(38)	(48)	(2)	(35)	(37)	(27)
	e. None	15	58	21	95	17	0	8	32	9	0	1	0	10	266
	·	. (7)	(11)	(29)	(35)	(62)	(0)	(7)	(31)	(5)	(0)	(0)	(0)	(5)	(9)
	No. of	194	520	74	269	27	161	107	104	165	229	520	374	210	2,954
	Respondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)
	a. Well maintained					)									
	a weamamramen	100	250		010	-	100	111	104	101	145		161	100	0.000
		133 (60)	358 (60)	55 (73)	210 (74)	24	132 (80)	111 (80)	104 (87)	131 (74)	145 (63)	416	353 (82)	128 (52)	•
		133 (60) 62	(60)	(73)	(74)	-	132 (80) 17	111 (80) 9	104 (87)	131 (74) 24	145 (63) 48	416 (71) 89	353 (82) 35	128 (52) 54	(70
	b. Structures	(60) 62	(60) 66	(73) 3	(74) 35	24 (86) 0	(80) 17	(80) 9	(87) 5	(74) 24	(63) 48	(71) 89	(82) 35	(52) 54	(70) 447
•		(60)	(60)	(73)	(74)	24 (86)	(80)	(80)	(87)	(74)	(63)	(71)	(82)	(52)	(70) 447 (14)
	b. Structures broken	(60) 62 (27)	(60) 66 (11)	(73) 3 (4)	(74) 35 (12)	24 (86) 0 (0)	(80) 17 (10) 7	(80) 9 (7) 4	(87) 5 (4)	(74) 24 (13)	(63) 48 (21)	(71) 89 (15)	(82) 35 (8)	(52) 54 (22)	(70) 447 (14) 348
	b. Structures broken	(60) 62 (27) 53	(60) 66 (11) 87	(73) 3 (4) 10	(74) 35 (12) 26	24 (86) 0 (0) 1	(80) 17 (10)	(80) 9 (7)	(87) 5 (4) 6	(74) 24 (13) 11	(63) 48 (21) 28	(71) 89 (15) 54	(82) 35 (8) 36	(52) 54 (22) 25	(70 44) (14 34) (11
	<ul><li>b. Structures</li><li>broken</li><li>c. Canal broken</li></ul>	(60) 62 (27) 53 (23)	(60) 66 (11) 87 (15)	(73) 3 (4) 10 (13)	(74) 35 (12) 26 (9)	24 (86) 0 (0) 1 (3)	(80) 17 (10) 7 (4)	(80) 9 (7) 4 (3)	(87) 5 (4) 6 (5)	(74) 24 (13) 11 (6)	(63) 48 (21) 28 (12)	(71) 89 (15) 54 (10)	(82) 35 (8) 36 (8)	(52) 54 (22) 25 (10)	(70 44 (14 34) (11 24
	<ul><li>b. Structures</li><li>broken</li><li>c. Canal broken</li></ul>	(60) 62 (27) 53 (23) 43	(60) 66 (11) 87 (15) 64	(73) 3 (4) 10 (13) 9	(74) 35 (12) 26 (9) 10	24 (86) 0 (0) 1 (3) 3	(80) 17 (10) 7 (4) 11	(80) 9 (7) 4 (3) 8	(87) 5 (4) 6 (5) 6	(74) 24 (13) 11 (6) 22	(63) 48 (21) 28 (12) 7	(71) 89 (15) 54 (10) 2	(82) 35 (8) 36 (8) 15	(52) 54 (22) 25 (10) 47	(70 44 (14 34 (11 24 (7
	<ul><li>b. Structures broken</li><li>c. Canal broken</li><li>d. Canal deposited</li></ul>	(60) 62 (27) 53 (23) 43 (19)	(60) 66 (11) 87 (15) 64 (11)	(73) 3 (4) 10 (13) 9 (12)	(74) 35 (12) 26 (9) 10 (4)	24 (86) 0 (0) 1 (3) 3 (11)	(80) 17 (10) 7 (4) 11 (7)	(80) 9 (7) 4 (3) 8 (6)	(87) 5 (4) 6 (5) 6 (5)	(74) 24 (13) 11 (6) 22 (12)	(63) 48 (21) 28 (12) 7 (3)	(71) 89 (15) 54 (10) 2 (0)	(82) 35 (8) 36 (8) 15 (3)	(52) 54 (22) 25 (10) 47 (19)	(70 44 (14 34 (11 24 (7 16
	<ul><li>b. Structures broken</li><li>c. Canal broken</li><li>d. Canal deposited</li></ul>	(60) 62 (27) 53 (23) 43 (19) 24	(60) 66 (11) 87 (15) 64 (11) 48	(73) 3 (4) 10 (13) 9 (12) 2	(74) 35 (12) 26 (9) 10 (4) 6	24 (86) 0 (0) 1 (3) 3 (11) 0	(80) 17 (10) 7 (4) 11 (7) 8	(80) 9 (7) 4 (3) 8 (6) 5	(87) 5 (4) 6 (5) 6 (5) 1	(74) 24 (13) 11 (6) 22 (12) 3	(63) 48 (21) 28 (12) 7 (3) 18	(71) 89 (15) 54 (10) 2 (0) 31	(82) 35 (8) 36 (8) 15 (3) 9	(52) 54 (22) 25 (10) 47 (19) 8	(70 44' (14 34) (11 24' (7 16) (4
	<ul> <li>b. Structures broken</li> <li>c. Canal broken</li> <li>d. Canal deposited</li> <li>e. Others</li> </ul>	(60) 62 (27) 53 (23) 43 (19) 24 (10)	(60) 66 (11) 87 (15) 64 (11) 48 (7)	(73) 3 (4) 10 (13) 9 (12) 2 (3) 79	(74) 35 (12) 26 (9) 10 (4) 6 (2)	24 (86) 0 (0) 1 (3) 3 (11) 0 (0) 28	(80) 17 (10) 7 (4) 11 (7) 8 (5)	(80) 9 (7) 4 (3) 8 (6) 5 (4)	(87) 5 (4) 6 (5) 6 (5) 1 (1) 122	(74) 24 (13) 11 (6) 22 (12) 3 (2) 191	(63) 48 (21) 28 (12) 7 (3) 18 (7)	(71) 89 (15) 54 (10) 2 (0) 31 (6)	(82) 35 (8) 36 (8) 15 (3) 9 (2)	(52) 54 (22) 25 (10) 47 (19) 8 (3)	(70 44' (14 34) (11 24' (7 16) (4 3,50)
	<ul> <li>b. Structures broken</li> <li>c. Canal broken</li> <li>d. Canal deposited</li> <li>e. Others</li> <li>Total No. of</li> </ul>	(60) 62 (27) 53 (23) 43 (19) 24 (10) 315	(60) 66 (11) 87 (15) 64 (11) 48 (7) 623	(73) 3 (4) 10 (13) 9 (12) 2 (3) 79	(74) 35 (12) 26 (9) 10 (4) 6 (2) 287	24 (86) 0 (0) 1 (3) 3 (11) 0 (0) 28	(80) 17 (10) 7 (4) 11 (7) 8 (5) 175	(80) 9 (7) 4 (3) 8 (6) 5 (4) 137	(87) 5 (4) 6 (5) 6 (5) 1 (1) 122	(74) 24 (13) 11 (6) 22 (12) 3 (2) 191	(63) 48 (21) 28 (12) 7 (3) 18 (7) 246	(71) 89 (15) 54 (10) 2 (0) 31 (6) 592	(82) 35 (8) 36 (8) 15 (3) 9 (2) 448	(52) 54 (22) 25 (10) 47 (19) 8 (3) 262	2,300 (70) 447 (14) 348 (11) 247 (7) 163 (4) 3,505 (106) 3,308
	<ul> <li>b. Structures broken</li> <li>c. Canal broken</li> <li>d. Canal deposited</li> <li>e. Others</li> <li>Total No. of Responses*</li> </ul>	(60) 62 (27) 53 (23) 43 (19) 24 (10) 315 (139)	(60) 66 (11) 87 (15) 64 (11) 48 (7) 623 (104)	(73) 3 (4) 10 (13) 9 (12) 2 (3) 79 (105)	(74) 35 (12) 26 (9) 10 (4) 6 (2) 287 (101)	24 (86) 0 (0) 1 (3) 3 (11) 0 (0) 28 (100)	(80) 17 (10) 7 (4) 11 (7) 8 (5) 175 (106)	(80) 9 (7) 4 (3) 8 (6) 5 (4) 137 (100)	(87) 5 (4) 6 (5) 6 (5) 1 (1) 122 (102)	(74) 24 (13) 11 (6) 22 (12) 3 (2) 191 (107)	(63) 48 (21) 28 (12) 7 (3) 18 (7) 246 (106)	(71) 89 (15) 54 (10) 2 (0) 31 (6) 592 (102)	(82) 35 (8) 36 (8) 15 (3) 9 (2) 448 (103)	(52) 54 (22) 25 (10) 47 (19) 8 (3) 262 (106)	(70 447 (14 348 (11 247 (7 165 (7 165 (4 3,50) (106

Table B-3 Farming Conditions in Non-granary Irrigated Areas (6/11)

Remarks:

rks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

	Item	PR	КН	PP	РК	SG	NS	MA	JR	РН	TR	KN	SA	SK	Total
	DRAINAGE CONT		יו חיז		VDITIO		411)		· .					·	
•.	DRAMAGECON	KOL 17	2011711	1 001			,		•						· .
•	a. Well maintained	101	325	55	196	23	138	78	82	102	177	376	302	100	2,05
		(52)	(63)	(74)	(73)	(85)	(85)	(73)	(78)	(61)	(77)	(72)	(81)	(49)	(7
	b. Canal deposited	63		12	60	1	20	14	7	46	32	19	48	67	48
		(32)	(19)	(16)	(22)	(4)	(12)	(13)	(7)	(28)	(14)	(4)	(13)	(32)	(10
	c. Stop log/	23	69	5	12	0	- 1	15	12	19	10	29	27	44	20
	gate broken	(12)	(13)	(7)	(5)	(0)	(1)	(14)	(12)	(12)	(4)	(6)	(7)	(21)	(
	d. Others	7	31	2	. 1	3	2	0	-3	2	10	100	1	8	17
•		(4)	(6)	(3)	(0)	(11)	(2)	(0)	(3)	(1)	(5)	(19)	(0)	(4)	(
		104	502	74	269	27	161	107	104	169	229	524	378	219	2,97
	Total No. of	194	523						(100)				(101)		(10
	Responses*	(100)	(101)	(100)	(100)	(100)	(100)	(100)	(100)	(102)	(100)	(101)	(101)	(104)	(10
	No. of	194	520	74	269	27	161	107	104	165	229	520	374	210	2,9:
	Respondents		-												
	100000000														
									1.1						
5.	USE OF FARM MA	CHINI	ERY (C	2.601)					÷ .						
			~~~				- 07	105		100	402	<b>601</b>	200		
	a. Land	218	550	71	232	1	137	105	40	108		581	329	15	2,6
	preparation	(90)	•	(71)	(62)	(3)	(27)	(34)	(26)	(17)	(99)	(97)	(66)	(5)	(5
	b. Planting	4	- 1- 1-	6	21	0	6	4	12	8	1	1	4	7 (7)	
	~ · · ·	(2)	(0)	(6)	(6)	(0)	(1)	(1)	(8)	(1)	(0)	(0)	(1)	(2)	1
	c. Cultivating	21	14	0	13	0	: 63	4	24	3	1	0	2	3	
	1.0	(9)	(2)	(0)	(3)	(0)	(13)	(1)	(16)	(1)	(0)	(0)	(0)		) د
	d. Spraying	60			43	12	233	4	18	148	69	. 7	. 8	4	7
	· · ·	(25)	(20)	(3)	(12)	(30)	(46)	(1)	(12)	(23)	(23)	(1)	(2)	(1)	(1 5
	e. Harvesting	155	261	39	46	0	0	1	10	10	65	1		1	5
	a <b>m</b> 1. d	(64)		(39)	(12)	(0)	(0)	(0)	(7)	(2)	(22)	(0)	(0)	(0)	(1
	f. Transplanting	5	1	0	1	0	0	2	3	2	1	0	0	0	
	41	(2)	(0)	(0)	(0)	(0)	(0)	(1)	(2)	(0)	(0)	(0)	(0)	(0)	
	g. Weeding	8	33	1	12	0	8	. 7	0	3	0	0	2	5	
	1 04	(3)	(5)	(1)	(3)	(0)	(2)	(2)	(0)	(1)	(0)	(0)	(0)	(2)	. 1
	h. Others	0		6	3	0	2	0	0	1	0	0			
	ана ана се	(0)		(6)	(1)	(0)	. (0)	(0)	(0)	(0)	(0)	(0)	(1)		
	i. None	5		16	128	30	167	204	63	392	0	17	153	283	1,5
	• •	(2)		(16)	(34)	(75)	(33)	(66)	(41)	(62)	(0)		(31)	(88)	(3
	j. No answer	1	0		0		: • · 0	0	1	0	0		0		
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	÷
	Total No. of	477	1,090	142	499	43	616	331	171	675	440	607	504	321	5,9
	Responses*		(167)												(12
		<u>.</u>	• ـ بر												. ~
	No. of	242	654	100	373	40	504	311	152	631	305	: 597	499	320	4,7
	Respondents														

# Table B-3 Farming Conditions in Non-granary Irrigated Areas (7/11)

Remarks:

PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

														: Num	
	Item	PR	КН	PP	PK	SG	NS	MA	JR	PH	TR	KN	<u>SA</u>	SK	Total
16.	TYPES OF OWNE	D FARM	A MAC	HINE	λΥ (Q.	602)						÷.,			
•	a. Tractor	22	100	72	92	1	94	37	48	31	4	13	134	11	661
	ана са селото на село На селото на	(9)	(16)	(72)	(25)	(2)	(19)	(12)	(32)	(4)	(1)	(2)	(27)	(3)	(14)
	b. Hand sprayer	177	409	12	205	12	248	240	24	305	186	276	221	264	2,579
		(74)	(64)	(12)	(55)	(30)	(49)	(77)	(16)	(47)	(61)	(46)	(44)	(83)	(54)
	c. Hand cultivator	146	355	3	304	0	8	18	33	86	29	13	338	129	1,462
•		(61)	(54)	(3)	(82)	(0)	(2)	(6)	(22)	(14)	(10)	(2)	(68)	(40)	(30)
. '	d. Harvester	0	1	37	26	0	i i 0	5	- 3	.4	0	0	8	2	86
	The sector of the	(0)	(0)	(37)	(7)	(0)	(0)	(2)	(2)	(1)	(0)	(0)	(2)	(1)	(2)
	e. Weeder	7	16	1	7	0	9	6	0	3	0	0	0	2	51
		(3)	(2)	(1)	(2)	(0)	(2)	(2)	(0)	(2)	(0)	(0)	(0)	(1)	(1)
	f. Planter	6	2	0	9	0	1	2	2	1	1	0	31	0	55
	. <u>'</u>	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(6)	(0)	(1)
	g. Sprayer	25	120	· · 0	13	1	2	3	2	33	1	2	11	1	214
		(10)	(18)	(0)	(3)	(2)	(0)	(1)	(1)	(5)	(0)	(0)	(2)	(0)	(5)
	h. Others	3	0	0	1	0	0	2	0	1	0	0	0	1	8
		(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	i. None	8	55	16	23	26	202	42	46	233	104	304	6	7	1,072
		(3)	(8)	(16)	(6)	(66)	(40)	(14)	(30)	(37)	(34)	(51)	(1)	(2)	(23)
	j. No answer	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	:	(0)	(0)	(0)	(0)	. (0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	Total No. of	394	1,058	141	682	40	564	355	158	697	325	608	749	418	6,189
	Responses*	(163)	(162)	(141)	(182)	(100)	(112)	(114)	(104)	(110)	(106)	(101)	(150)	(131)	(131)
	No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,728
	Respondents	-1 C			· · ·			÷ .							

 Farming Conditions in	 	(0//

Remarks:

PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

	Item	PR	КН	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	t: Nurr SK	Total
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~														
7.	OWNERSHIP ST	'ATUS OI	TRA	TOR	(Q.603	)			· .	· .					e de la co Tur
	a. Own	- 8	90	3	29	2	3	7	8	3		20	5	 	18
		(3)	(14)	(3)	(8)	(5)	:(1)	(2)	. (5)	(0)	(1)	(3)	(1)	(0)	(4
	b. Group own	6	28	- 3	4	0	1	3	23	2	2	0	. 1	4	7
	- <b>T f</b>	(2)	(4)	(3)	(1)	(0)	(0)	(1)	(15)	(0)	(1)	(0)	(0)	(1)	() ()
	c. Leased	159 (67)	227	(69) (69	191 (51)	(27)	159 (32)	41 (13)	54 (36)	132 (21)	270 (88)	557	337 (68)	. 12	2,21
	d. Contract	66	283	5	17	0	(32)	53	(30)	20	(00)	(94) 0	(00)	(4)	(40
	d. Conduct	(27)	(43)	(5)	(5)		(0)	(17)	(2)	(3)	(0)	(0)	(1)		(1(
	e. Not used	3		20	132	27	340	207	64	474	- 29				1,79
	:	(1)	(4)	(20)	(35)	(68)	(67)	(67)	(42)	(76)	(10)	(3)	(30)	(94)	(38
	Total No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,72
	Respondents	(100)						(100)				-	-		(100
		:	·			•					-				
	and the second							· .		•					
8.	KIND OF DRAF	T ANIMA	L USE	d for	FARM	MING	Q.605	) 			,		1.11	1 A.	
•	a. Buffalo	. 3	35	0	49	0	0	• 0	6	4	3	4	238	2	34
		(1)		(0)	(13)		(0)	(0)	(4)	(1)	(1)	(1)	(48)	(1)	()
	b. Cow	0		0	1	0	0	1	0	Ó	0	1	Ó	0	. `
	·	(0)		(0)		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	((
	c. None	239		100	323	40	- 504	310		627	302		261	318	4,38
,	e a constante e	(99)	(95)	(100)	(87)	(100)	(100)	(100)	(96)	(99)	(99)	(99)	(52)	(99)	(93
	Total No. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,72
	Respondents	(100)	(100)	(100)	(100)									(100)	(100
					. •		•								
0	FULL UTILIZAT		יחתאכ	7 6161	D /D 9	01(1))				-					
,					D (1.0	01(1 <i>)</i> )				÷ ;		· ·			
	a. Yes	225	576	65	273	31	199	180	134	172	275	514	478	274	3,39
	1. 11-	(93)		(65)	(73)		(39)	(58)	(88)	(27)	(90)	(86)	(96)	(85)	(72
	b. No	17	78	35	100	9	305	131	18	458	30	83	21	.46	1,33
	c. No answer	(7)	(12)	(35)	(27)	(22)	(61)	(42)	(12)	(73)	(10)	(14)	(4)	(15)	(28
	C. NO answer	0 (0)	(0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (0)	0 (0)	0 (0)	0 (0)	0 (0)	((
	Total No. of	242	654												
	Respondents		054 (100)	100	373	40	504	311	152	631	305	597	499	320	4,72
		(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100

 Table B-3
 Farming Conditions in Non-granary Irrigated Areas (9/11)

÷	Item	PR	КН	PP	РК	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
20.	REASONS OF EXI	STENC	EOFI	THE IC	DLE PA	DDY	FIELD	S (Q.80	02)					: :.	
	a. Shortage of	4	14	15	37	3	207	- 78	2	325	11	15	3	9	723
	manpower	(24)	· · · ·	(49)	(47)	(60)			(13)		(37)	(19)	(16)	(40)	(59)
	b. Low profitability	9	11	2	12	0	10	19	3	54	Ó	5	1	3	129
	of paddy cultivation	(53)		(6)	(15)	(0)	(3)	(16)	(19)	(12)	(0)	(6)	(5)	(12)	(11)
•	c. Lack of drainage	11	19	2	17	0	31	32	4	61	6	6	5	5	199
	facilities	(65)	(26)	(6)	(22)	(0)	(11)	(27)	(25)	(14)	(20)	(7)	(26)	(21)	(16)
	d. Insufficient	12	42	5	46	2	141	93	11	107	14	56	14	4	547
	water supply	(71)	(57)	(16)	(59)	(40)	(49)	(79)	(69)	(25)	(47)	(70)	(74)	(17)	(44)
	e. Ravage of rats,	. 0	. · 1	- 19	15	0	9	8	- 0	-94	5	5	0	1	157
	birds and/or insects	(0)	(1)	(61)	(19)	(0)	(3)	. (7)	(0)	(22)	(17)	(6)	(0)	(4)	(13)
	f. Paddy disease	0	- 1	2	- 1	0	5	0	0	13	0	0	0	1	23
		(0)	(1)	(6)	(1)	(0)	(2)	(0)	(0)	(3)	(0)	(0)	(0)	(4)	(2)
	g. Land located	1	2	0	0	0	3	0	0	. 3	1	0	0	1	11
	very far from house	(6)	(3)	(0)	(0)	(0)	<b>(1)</b>	(0)	(0)	(1)	(3)	(0)	(0)	(4)	(1)
	h. Shortage of	2	2	0	5	0	5	0	0	2	. 1	1	0	1	19
	capital	(12)	(3)	(0)	(6)	(0)	(2)	(0)	(0)	(0)	(3)	(1)	(0)	(4)	(2)
	i. Lack of	0	1	0	5	0	2	0	2	10	0	8	0	0	. 28
	machines	(0)	(1)	(0)	(6)	. (0)	(1)	(0)	(13)	(2)	(0)	(10)	(0)	(0)	(2)
	j. Floods	0	2	0	0	0	-1	0	0	18	0	0	0	2	23
		(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(8)	(2
	k. Salty water	2	3	0	0	- 0	3	0	0	0	0	0	0	2	1(
		(12)	(4)	(0)	(0)	(0)	. (1)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	. (1)
	1. Land not suitable	- 0	11	0	6	1	.6	1	3	- 9	- 7	10	2	3	59
	for growing paddy	(0)	(15)	(0)	(8)	(20)	(2)		(19)	(2)	(23)	(13)		(12)	(5)
	m Water pollution	0	-	- 0	0	0	7	0	0	2	0	2	0	0	11
•		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(1)
	n. Others	5 (28)	13 (19)	3 (10)	24 (30)	0 (0)	13 (5)	10 (8)	(30)	83 (19)	4 (13)	16 (20)	3 (15)	1 (4)	18( (15)
		·/	、 <i>)</i>	()		(-)	(-)	(~)	(2.0)		(~~)	()	()	(7)	1-0
	Total No. of	46	122	48	168	6	443	241	30	781	49	124	28	33	2,119
	Responses*	(271)	(167)	(155)		(120)	(154)	(204)	(188)	(179)	(163)	(155)	(147)	(138)	(174)
	No. of Respondents	17	73	31	79 1	5	288	118	16	437	30	80	19	- 24	1,217

Table B-3 Farming Conditions in Non-granary Irrigated Areas (10/11)

Remarks:

PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

\*; Multiple answers are given.

						60						17NT		: Num	
]	item	PR	KH	PP	РК	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
1.	PRESENT CONDIT	IÓN OI	FTHE	CONV	ERTE	D PAE	DY FI	ELD (	Q.804)	· . ·	•	÷		ta es	
	a. No problem	0	1	10	6	1	30	15	1	10	0	6	2	18	10
:		(0)	· ·	(100)	(60)	(100)	(73)		(100)	(91)	(0)	(100)	(50)	(72)	(70
	b. Ill drained	0	3	0	.0	0	2	.0	0	0		0	(25)	2	14
	condition	(0)	(43)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0) 0	(0)	(25)	(8)	((
	c. Poor access to	0	0	0	1	0	0 (0)	3 (12)	(0) (0)	1 (9)	(0)	0 (0)	(0)	0 (0)	(2
	farm lots	(0)	(0)	(0)	(10) 0	(0) 0	(0)	4	0	0		0	1	5	1
. •	d. Insufficient	0	5 (72)	(0)	(0)	(0)	(0)	(15)	(0)	(0)	(0)	(0)	(25)	(20)	(10
	irrigation water supply	(0)	(12)	(0)	.(0)	(0)		(15)	(0)	(0)		(0)	(25)	(20)	
	e. Low standard of	Ő	4	0	2	0	7	-3	0	0	1	. 0	0	1	1
	farming practices	(0)	(57)	(0)	(20)	(0)	(17)	(12)	(0)	(0)	(100)	(0)	(0)	(4)	(13
	f. Pest problem	0	0	- ČŐ	0	ó	2	Ó	Ó	Ó	Ó	Ó	Ó	Ó	• .
		(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1
	g. Others	Ò	Ó	Ó	1	Ó	2	1	0	0	0	0	0	0	
	<b>G</b>	(0)	(0)	(0)	(10)	(0)	(5)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(2
				19	÷.			•	- 1 - <u>1</u>					2.5	
	Total No. of	0	13	10	10	1	43	26	1	11	1	6	. 4	26	15
	Responses*	(-)	(186)	(100)	(100)	(100)	(105)	(100)	(100)	(100)	(100)	(100)	(100)	(104)	(100
	<b>XT</b>			10	10	1		26	1	11	1	6	4	25	14
	No. of	0	7	10	10	1	41	26	. 1	11	1,	U	4	- <b>2</b> 3	14
	Respondents														
		19 A.	1. C	. ÷	1.1	÷ .		1.1.1		11				. s. 11	
2,	PROBLEMS AND/	OR DIF	FICUL	TIES I	ENCO	JNTEF	RED IN	FAR	MING	PRAC	FICES	(Q.608	(1))	ate terta	
2.		:							MING 1		FICES 47	(Q.608 5	a an a' an a'	51	56
2.	a. Inefficient	74	71	20	46	0	RED IN 57 (11)	51	14	54	47	5	(1)) 75 (15)	51 (16)	
2.		:					57		11 12			÷	75		(12
2.	a. Inefficient irrigation facility	74 (31)	71 (11)	20 (20)	46 (12)	0 (0)	57 (11)	51 (16)	14 (9)	54 (9)	47 (15)	5 (1)	75 (15)	(16)	(1 2,06
2.	<ul><li>a. Inefficient irrigation facility</li><li>b. Insufficient</li></ul>	74 (31) 172	71 (11) 264 (40) 76	20 (20) 27	46 (12) 108	0 (0) 4 (10) 1	57 (11) 167 (33) 25	51 (16) 197 (64) 79	14 (9) 55 (36) 16	54 (9) 126 (20) 39	47 (15) 166 (55) 48	5 (1) 417 (70) 133	75 (15) 267 (54) 90	(16) 90 (28) 112	(12 2,06 (4 76
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> </ul>	74 (31) 172 (71) 83 (34)	71 (11) 264 (40) 76 (12)	20 (20) 27 (27) 15 (15)	46 (12) 108 (29) 51 (14)	0 (0) 4 (10) 1 (2)	57 (11) 167 (33) 25 (5)	51 (16) 197 (64) 79 (25)	14 (9) 55 (36) 16 (11)	54 (9) 126 (20) 39 (6)	47 (15) 166 (55) 48 (16)	5 (1) 417 (70) 133 (22)	75 (15) 267 (54) 90 (18)	(16) 90 (28) 112 (35)	(1) 2,06 (4 76 (1)
2.	<ul><li>a. Inefficient</li><li>irrigation facility</li><li>b. Insufficient</li><li>water supply</li></ul>	74 (31) 172 (71) 83 (34) 59	71 (11) 264 (40) 76 (12) 216	20 (20) 27 (27) 15 (15) 28	46 (12) 108 (29) 51 (14) 147	0 (0) 4 (10) 1 (2) 3	57 (11) 167 (33) 25 (5) 91	51 (16) 197 (64) 79 (25) 46	14 (9) 55 (36) 16 (11) 11	54 (9) 126 (20) 39 (6) 116	47 (15) 166 (55) 48 (16) 96	5 (1) 417 (70) 133 (22) 131	75 (15) 267 (54) 90 (18) 88	(16) 90 (28) 112 (35) 150	(12 2,06 (44 76 (10 1,18
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24)	71 (11) 264 (40) 76 (12) 216 (33)	20 (20) 27 (27) 15 (15) 28 (28)	46 (12) 108 (29) 51 (14) 147 (39)	0 (0) 4 (10) 1 (2) 3 (7)	57 (11) 167 (33) 25 (5) 91 (18)	51 (16) 197 (64) 79 (25) 46 (15)	14 (9) 55 (36) 16 (11) 11 (7)	54 (9) 126 (20) 39 (6) 116 (18)	47 (15) 166 (55) 48 (16) 96 (31)	5 (1) 417 (70) 133 (22) 131 (22)	75 (15) 267 (54) 90 (18) 88 (17)	(16) 90 (28) 112 (35) 150 (47)	56 (12 2,06 (44 76 (10 1,18 (2)
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46	71 (11) 264 (40) 76 (12) 216 (33) 145	20 (20) 27 (27) 15 (15) 28 (28) 24	46 (12) 108 (29) 51 (14) 147 (39) 96	0 (0) 4 (10) 1 (2) 3 (7) 4	57 (11) 167 (33) 25 (5) 91 (18) 314	51 (16) 197 (64) 79 (25) 46 (15) 125	14 (9) 55 (36) 16 (11) 11 (7) 14	54 (9) 126 (20) 39 (6) 116 (18) 244	47 (15) 166 (55) 48 (16) 96 (31) 31	5 (1) 417 (70) 133 (22) 131 (22) 31	75 (15) 267 (54) 90 (18) 88 (17) 40	(16) 90 (28) 112 (35) 150 (47) 67	(1) 2,06 (4 76 (1) 1,18 (2) 1,18
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor force</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46 (19)	71 (11) 264 (40) 76 (12) 216 (33) 145 (22)	20 (20) 27 (27) 15 (15) 28 (28) 24 (24)	46 (12) 108 (29) 51 (14) 147 (39) 96 (26)	0 (0) 4 (10) 1 (2) 3 (7) 4 (10)	57 (11) 167 (33) 25 (5) 91 (18) 314 (62)	51 (16) 197 (64) 79 (25) 46 (15) 125 (40)	14 (9) 55 (36) 16 (11) 11 (7) 14 (9)	54 (9) 126 (20) 39 (6) 116 (18) 244 (39)	47 (15) 166 (55) 48 (16) 96 (31) 31 (10)	5 (1) 417 (70) 133 (22) 131 (22) 31 (5)	75 (15) 267 (54) 90 (18) 88 (17) 40 (8)	(16) 90 (28) 112 (35) 150 (47) 67 (21)	(1) 2,06 (4 76 (1) 1,18 (2 1,18 (2) (2)
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor force</li> <li>f. Difficult</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46 (19) 24	71 (11) 264 (40) 76 (12) 216 (33) 145 (22) 27	20 (20) 27 (27) 15 (15) 28 (28) 24 (24) 9	46 (12) 108 (29) 51 (14) 147 (39) 96 (26) 42	0 (0) 4 (10) 1 (2) 3 (7) 4 (10) 0	57 (11) 167 (33) 25 (5) 91 (18) 314 (62) 15	51 (16) 197 (64) 79 (25) 46 (15) 125 (40) 20	14 (9) 55 (36) 16 (11) 11 (7) 14 (9) 11	54 (9) 126 (20) 39 (6) 116 (18) 244 (39) 11	47 (15) 166 (55) 48 (16) 96 (31) 31 (10) 8	5 (1) 417 (70) 133 (22) 131 (22) 31 (5) 8	75 (15) 267 (54) 90 (18) 88 (17) 40 (8) 34	(16) 90 (28) 112 (35) 150 (47) 67 (21) 96	(1: 2,06 (4) 76 (1) 1,18 (2) 1,18 (2) 1,18 (2) 30
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor force</li> <li>f. Difficult marketing</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46 (19) 24 (10)	71 (11) 264 (40) 76 (12) 216 (33) 145 (22) 27 (4)	20 (20) 27 (27) 15 (15) 28 (28) 24 (24) 9 (9)	46 (12) 108 (29) 51 (14) 147 (39) 96 (26) 42 (11)	0 (0) 4 (10) 1 (2) 3 (7) 4 (10) 0 (0)	57 (11) 167 (33) 25 (5) 91 (18) 314 (62) 15 (3)	51 (16) 197 (64) 79 (25) 46 (15) 125 (40) 20 (6)	14 (9) 55 (36) 16 (11) 11 (7) 14 (9) 11 (7)	54 (9) 126 (20) 39 (6) 116 (18) 244 (39) 11 (2)	47 (15) 166 (55) 48 (16) 96 (31) 31 (10) 8 (3)	5 (1) 417 (70) 133 (22) 131 (22) 31 (5) 8 (1)	75 (15) 267 (54) 90 (18) 88 (17) 40 (8) 34 (7)	(16) 90 (28) 112 (35) 150 (47) 67 (21) 96 (30)	(1) 2,06 (4 76 (1) 1,18 (2) 1,18 (2) 30 ((
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor force</li> <li>f. Difficult marketing</li> <li>g. Natural</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46 (19) 24 (10) 87	71 (11) 264 (40) 76 (12) 216 (33) 145 (22) 27 (4) 114	20 (20) 27 (27) 15 (15) 28 (28) 24 (24) 9 (9) 9	46 (12) 108 (29) 51 (14) 147 (39) 96 (26) 42 (11) 44	0 (0) 4 (10) 1 (2) 3 (7) 4 (10) 0 (0) 0	57 (11) 167 (33) 25 (5) 91 (18) 314 (62) 15 (3) 7	51 (16) 197 (64) 79 (25) 46 (15) 125 (40) 20 (6) 168	14 (9) 55 (36) 16 (11) 11 (7) 14 (9) 11 (7) 45	54 (9) 126 (20) 39 (6) 116 (18) 244 (39) 11 (2) 121	47 (15) 166 (55) 48 (16) 96 (31) 31 (10) 8 (3) 91	5 (1) 417 (70) 133 (22) 131 (22) 31 (5) 8 (1) 137	75 (15) 267 (54) 90 (18) 88 (17) 40 (8) 34 (7) 286	(16) 90 (28) 112 (35) 150 (47) 67 (21) 96 (30) 136	(1) 2,00 (4) 70 (1) 1,18 (2) 1,18 (2) 30 (1) (1) (2) (2) (1) (2) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor force</li> <li>f. Difficult marketing</li> <li>g. Natural disaster</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46 (19) 24 (10) 87 (36)	71 (11) 264 (40) 76 (12) 216 (33) 145 (22) 27 (4) 114 (17)	20 (20) 27 (27) 15 (15) 28 (28) 24 (24) 9 (9) 9 (9) (9)	46 (12) 108 (29) 51 (14) 147 (39) 96 (26) 42 (11) 44 (12)	0 (0) 4 (10) 1 (2) 3 (7) 4 (10) 0 (0) 0 (0)	57 (11) 167 (33) 25 (5) 91 (18) 314 (62) 15 (3) 7 (1)	51 (16) 197 (64) 79 (25) 46 (15) 125 (40) 20 (6) 168 (54)	14 (9) 55 (36) 16 (11) 11 (7) 14 (9) 11 (7) 45 (30)	54 (9) 126 (20) 39 (6) 116 (18) 244 (39) 11 (2) 121 (19)	47 (15) 166 (55) 48 (16) 96 (31) 31 (10) 8 (3) 91 (30)	5 (1) 417 (70) 133 (22) 131 (22) 31 (5) 8 (1) 137 (23)	75 (15) 267 (54) 90 (18) 88 (17) 40 (8) 34 (7) 286 (57)	<ul> <li>(16)</li> <li>90</li> <li>(28)</li> <li>112</li> <li>(35)</li> <li>150</li> <li>(47)</li> <li>67</li> <li>(21)</li> <li>96</li> <li>(30)</li> <li>136</li> <li>(43)</li> </ul>	(1) $2,00$ $(4)$ $70$ $(1)$ $1,18$ $(2)$ $1,18$ $(2)$ $30$ $(1)$ $2$ $(2)$ $(2)$
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor force</li> <li>f. Difficult marketing</li> <li>g. Natural</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46 (19) 24 (10) 87 (36) 123	71 (11) 264 (40) 76 (12) 216 (33) 145 (22) 27 (4) 114 (17) 580	20 (20) 27 (27) 15 (15) 28 (28) 24 (24) 9 (9) 9 (9) 9 (9) 84	46 (12) 108 (29) 51 (14) 147 (39) 96 (26) 42 (11) 44 (12) 345	0 (0) 4 (10) 1 (2) 3 (7) 4 (10) 0 (0) 0 (0) 23	57 (11) 167 (33) 25 (5) 91 (18) 314 (62) 15 (3) 7 (1) 212	51 (16) 197 (64) 79 (25) 46 (15) 125 (40) 20 (6) 168 (54) 258	14 (9) 55 (36) 16 (11) 11 (7) 14 (9) 11 (7) 45 (30) 101	54 (9) 126 (20) 39 (6) 116 (18) 244 (39) 11 (2) 121 (19) 377	47 (15) 166 (55) 48 (16) 96 (31) 31 (10) 8 (3) 91 (30) 274	5 (1) 417 (70) 133 (22) 131 (22) 31 (5) 8 (1) 137 (23) 469	75 (15) 267 (54) 90 (18) 88 (17) 40 (8) 34 (7) 286 (57) 443	<ul> <li>(16)</li> <li>90</li> <li>(28)</li> <li>112</li> <li>(35)</li> <li>150</li> <li>(47)</li> <li>67</li> <li>(21)</li> <li>96</li> <li>(30)</li> <li>136</li> <li>(43)</li> <li>241</li> </ul>	(1) 2,00 (4) 70 (1) 1,15 (2) 1,15 (2) 3,0 (1) (2) (2) (2) (2) (2) (3) (3) (2) (2) (3) (3) (2) (3) (3) (3) (2) (3) (3) (3) (2) (3)
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor force</li> <li>f. Difficult marketing</li> <li>g. Natural disaster</li> <li>h. Frequent pest</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46 (19) 24 (10) 87 (36)	71 (11) 264 (40) 76 (12) 216 (33) 145 (22) 27 (4) 114 (17)	20 (20) 27 (27) 15 (15) 28 (28) 24 (24) 9 (9) 9 (9) (9)	46 (12) 108 (29) 51 (14) 147 (39) 96 (26) 42 (11) 44 (12)	0 (0) 4 (10) 1 (2) 3 (7) 4 (10) 0 (0) 0 (0)	57 (11) 167 (33) 25 (5) 91 (18) 314 (62) 15 (3) 7 (1)	51 (16) 197 (64) 79 (25) 46 (15) 125 (40) 20 (6) 168 (54)	14 (9) 55 (36) 16 (11) 11 (7) 14 (9) 11 (7) 45 (30)	54 (9) 126 (20) 39 (6) 116 (18) 244 (39) 11 (2) 121 (19)	47 (15) 166 (55) 48 (16) 96 (31) 31 (10) 8 (3) 91 (30)	5 (1) 417 (70) 133 (22) 131 (22) 31 (5) 8 (1) 137 (23)	75 (15) 267 (54) 90 (18) 88 (17) 40 (8) 34 (7) 286 (57)	<ul> <li>(16)</li> <li>90</li> <li>(28)</li> <li>112</li> <li>(35)</li> <li>150</li> <li>(47)</li> <li>67</li> <li>(21)</li> <li>96</li> <li>(30)</li> <li>136</li> <li>(43)</li> </ul>	$(1) \\ 2,00 \\ (4) \\ 70 \\ (1) \\ 1,15 \\ (2) \\ 1,15 \\ (2) \\ 3,0 \\ (2) \\ 3,5 \\ (7) \\ (7) \\ (7) \\ (7) \\ (1) \\ (1) \\ (2) \\ (7$
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor force</li> <li>f. Difficult marketing</li> <li>g. Natural disaster</li> <li>h. Frequent pest and diseases</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46 (19) 24 (10) 87 (36) 123 (51)	71 (11) 264 (40) 76 (12) 216 (33) 145 (22) 27 (4) 114 (17) 580 (89)	20 (20) 27 (27) 15 (15) 28 (28) 24 (24) 9 (9) 9 (9) 84 (84)	46 (12) 108 (29) 51 (14) 147 (39) 96 (26) 42 (11) 44 (12) 345 (92)	0 (0) 4 (10) 1 (2) 3 (7) 4 (10) 0 (0) 0 (0) 23 (58)	57 (11) 167 (33) 25 (5) 91 (18) 314 (62) 15 (3) 7 (1) 212 (42)	51 (16) 197 (64) 79 (25) 46 (15) 125 (40) 20 (6) 168 (54) 258 (84)	14 (9) 55 (36) 16 (11) 11 (7) 14 (9) 11 (7) 45 (30) 101 (66)	54 (9) 126 (20) 39 (6) 116 (18) 244 (39) 11 (2) 121 (19) 377 (61)	47 (15) 166 (55) 48 (16) 96 (31) 31 (10) 8 (3) 91 (30) 274 (90)	5 (1) 417 (70) 133 (22) 131 (22) 31 (5) 8 (1) 137 (23) 469 (80)	75 (15) 267 (54) 90 (18) 88 (17) 40 (8) 34 (7) 286 (57) 443 (88)	<ul> <li>(16)</li> <li>90</li> <li>(28)</li> <li>112</li> <li>(35)</li> <li>150</li> <li>(47)</li> <li>67</li> <li>(21)</li> <li>96</li> <li>(30)</li> <li>136</li> <li>(43)</li> <li>241</li> <li>(75)</li> <li>20</li> </ul>	$(1) \\ 2,00 \\ (4) \\ 70 \\ (1) \\ 1,18 \\ (2) \\ 1,18 \\ (2) \\ 30 \\ (1) \\ 20 \\ (2) \\ 3,52 \\ (7) \\ 29 \\ (7) \\ 29 \\ (2) \\ (7) \\ 29 \\ (7) \\ 20 \\ (7) \\ $
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor force</li> <li>f. Difficult marketing</li> <li>g. Natural disaster</li> <li>h. Frequent pest and diseases</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46 (19) 24 (10) 87 (36) 123 (51) 24 (10) 13	71 (11) 264 (40) 76 (12) 216 (33) 145 (22) 27 (4) 114 (17) 580 (89) 25	20 (20) 27 (27) 15 (15) 28 (28) 24 (24) 9 (9) 9 (9) 84 (84) 1	46 (12) 108 (29) 51 (14) 147 (39) 96 (26) 42 (11) 44 (12) 345 (92) 19	0 (0) 4 (10) 1 (2) 3 (7) 4 (10) 0 (0) (0) 23 (58) 2 (58) 2 (6) 6	57 (11) 167 (33) 25 (5) 91 (18) 314 (62) 15 (3) 7 (1) 212 (42) 34 (7) 53	51 (16) 197 (64) 79 (25) 46 (15) 125 (40) 20 (6) 168 (54) 258 (84) 11 (3) 5	14 (9) 55 (36) 16 (11) 11 (7) 14 (9) 11 (7) 45 (30) 101 (66) 4 (3) 15	54 (9) 126 (20) 39 (6) 116 (18) 244 (39) 11 (2) 121 (19) 377 (61) 47 (6) 96	47 (15) 166 (55) 48 (16) 96 (31) 31 (10) 8 (3) 91 (30) 274 (90) 10	5 (1) 417 (70) 133 (22) 131 (22) 31 (5) 8 (1) 137 (23) 469 (80) 61	75 (15) 267 (54) 90 (18) 88 (17) 40 (8) 34 (7) 286 (57) 443 (88) 35 (8) 35 (8) 3	<ul> <li>(16)</li> <li>90</li> <li>(28)</li> <li>112</li> <li>(35)</li> <li>150</li> <li>(47)</li> <li>67</li> <li>(21)</li> <li>96</li> <li>(30)</li> <li>136</li> <li>(43)</li> <li>241</li> <li>(75)</li> <li>20</li> </ul>	(1) $2,00$ $(4)$ $(1)$ $1,18$ $(2)$ $1,18$ $(2)$ $3(0)$ $(1)$ $(2)$ $3,53$ $(7)$ $29$ $(2)$
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor force</li> <li>f. Difficult marketing</li> <li>g. Natural disaster</li> <li>h. Frequent pest and diseases</li> <li>i. Others</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46 (19) 24 (10) 87 (36) 123 (51) 24 (10)	71 (11) 264 (40) 76 (12) 216 (33) 145 (22) 27 (4) 114 (17) 580 (89) 25 (4)	20 (20) 27 (27) 15 (15) 28 (28) 24 (24) 9 (9) 9 (9) 84 (84) 1 (1)	46 (12) 108 (29) 51 (14) 147 (39) 96 (26) 42 (11) 44 (12) 345 (92) 19 (6)	0 (0) 4 (10) 1 (2) 3 (7) 4 (10) 0 (0) 0 (0) 23 (58) 2 (6)	57 (11) 167 (33) 25 (5) 91 (18) 314 (62) 15 (3) 7 (1) 212 (42) 34 (7)	51 (16) 197 (64) 79 (25) 46 (15) 125 (40) 20 (6) 168 (54) 258 (84) 11 (3)	14 (9) 55 (36) 16 (11) 11 (7) 14 (9) 11 (7) 45 (30) 101 (66) 4 (3)	54 (9) 126 (20) 39 (6) 116 (18) 244 (39) 11 (2) 121 (19) 377 (61) 47 (6)	47 (15) 166 (55) 48 (16) 96 (31) 31 (10) 8 (3) 91 (30) 274 (90) 10 (3)	5 (1) 417 (70) 133 (22) 131 (22) 31 (22) 31 (5) 8 (1) 137 (23) 469 (80) 61 (9)	75 (15) 267 (54) 90 (18) 88 (17) 40 (8) 34 (7) 286 (57) 443 (88) 35 (8)	<ul> <li>(16)</li> <li>90</li> <li>(28)</li> <li>112</li> <li>(35)</li> <li>150</li> <li>(47)</li> <li>67</li> <li>(21)</li> <li>96</li> <li>(30)</li> <li>136</li> <li>(43)</li> <li>241</li> <li>(75)</li> <li>20</li> <li>(6)</li> </ul>	(1) 2,00 (4) (1) 1,15 (2) 1,15 (2) (
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor force</li> <li>f. Difficult marketing</li> <li>g. Natural disaster</li> <li>h. Frequent pest and diseases</li> <li>i. Others</li> <li>j. None</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46 (19) 24 (10) 87 (36) 123 (51) 24 (10) 13 (5)	$\begin{array}{c} 71 \\ (11) \\ 264 \\ (40) \\ 76 \\ (12) \\ 216 \\ (33) \\ 145 \\ (22) \\ 27 \\ (4) \\ 114 \\ (17) \\ 580 \\ (89) \\ 25 \\ (4) \\ 12 \\ (2) \end{array}$	20 (20) 27 (27) 15 (15) 28 (28) 24 (24) 9 (9) 9 (9) 84 (84) 1 (1) 6 (6)	46 (12) 108 (29) 51 (14) 147 (39) 96 (26) 42 (11) 44 (12) 345 (92) 19 (6) 7 (2)	0 (0) 4 (10) 1 (2) 3 (7) 4 (10) 0 (0) 23 (58) 2 (58) 2 (6) 6 (15)	57 (11) 167 (33) 25 (5) 91 (18) 314 (62) 15 (3) 7 (1) 212 (42) 34 (7) 53 (11)	51 (16) 197 (64) 79 (25) 46 (15) 125 (40) 20 (6) 168 (54) 258 (84) 11 (3) 5 (2)	14 (9) 55 (36) 16 (11) 11 (7) 14 (9) 11 (7) 45 (30) 101 (66) 4 (3) 15 (10)	54 (9) 126 (20) 39 (6) 116 (18) 244 (39) 11 (2) 121 (19) 377 (61) 47 (61) 47 (6) 96 (15)	47 (15) 166 (55) 48 (16) 96 (31) 31 (10) 8 (3) 91 (30) 274 (90) 10 (3) 6 (2)	5 (1) 417 (70) 133 (22) 131 (22) 31 (5) 8 (1) 137 (23) 469 (80) 61 (9) 1 (0)	75 (15) 267 (54) 90 (18) 88 (17) 40 (8) 34 (7) 286 (57) 443 (88) 35 (8) 35 (8) 3 (1)	<ul> <li>(16)</li> <li>90</li> <li>(28)</li> <li>112</li> <li>(35)</li> <li>150</li> <li>(47)</li> <li>67</li> <li>(21)</li> <li>96</li> <li>(30)</li> <li>136</li> <li>(43)</li> <li>241</li> <li>(75)</li> <li>20</li> <li>(6)</li> <li>6</li> <li>(2)</li> </ul>	(1) 2,00 (4) (1) 1,18 (2) 1,18 (2) 30 (1) (2) 3,53 (7) 29 (2) (2
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor force</li> <li>f. Difficult marketing</li> <li>g. Natural disaster</li> <li>h. Frequent pest and diseases</li> <li>i. Others</li> <li>j. None</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46 (19) 24 (10) 87 (36) 123 (51) 24 (10) 13 (5) 705	71 (11) 264 (40) 76 (12) 216 (33) 145 (22) 27 (4) 114 (17) 580 (89) 25 (4) 12 (2) 1,530	20 (20) 27 (27) 15 (15) 28 (28) 24 (24) 9 (9) 9 (9) 84 (84) 1 (1) 6 (6) 223	46 (12) 108 (29) 51 (14) 147 (39) 96 (26) 42 (11) 44 (12) 345 (92) 19 (6) 7 (2) 905	0 (0) 4 (10) 1 (2) 3 (7) 4 (10) 0 (0) 23 (58) 2 (58) 2 (58) 2 (58) 2 (58) 2 (58) 2 (58) 2 3 (7) 4 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	57 (11) 167 (33) 25 (5) 91 (18) 314 (62) 15 (3) 7 (1) 212 (42) 34 (7) 53 (11) 975	51 (16) 197 (64) 79 (25) 46 (15) 125 (40) 20 (6) 168 (54) 258 (84) 11 (3) 5 (2) 960	14 (9) 55 (36) 16 (11) 11 (7) 14 (9) 11 (7) 45 (30) 101 (66) 4 (3) 15 (10) 286	54 (9) 126 (20) 39 (6) 116 (18) 244 (39) 11 (2) 121 (19) 377 (61) 47 (61) 47 (61) 96 (15) 1,231	47 (15) 166 (55) 48 (16) 96 (31) 31 (10) 8 (3) 91 (30) 274 (90) 10 (3) 6 (2) 777	5 (1) 417 (70) 133 (22) 131 (22) 31 (5) 8 (1) 137 (23) 469 (80) 61 (9) 1 (0) 1,393	75 (15) 267 (54) 90 (18) 88 (17) 40 (8) 34 (7) 286 (57) 443 (88) 35 (8) 35 (8) 3 (1) 1,361	<ul> <li>(16)</li> <li>90</li> <li>(28)</li> <li>112</li> <li>(35)</li> <li>150</li> <li>(47)</li> <li>67</li> <li>(21)</li> <li>96</li> <li>(30)</li> <li>136</li> <li>(43)</li> <li>241</li> <li>(75)</li> <li>20</li> <li>(6)</li> <li>6</li> <li>(2)</li> <li>969</li> </ul>	(1) 2,0% (4) (7) (1) 1,18 (2) 1,18 (2) 3,0 (1) (2)
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor force</li> <li>f. Difficult marketing</li> <li>g. Natural disaster</li> <li>h. Frequent pest and diseases</li> <li>i. Others</li> <li>j. None</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46 (19) 24 (10) 87 (36) 123 (51) 24 (10) 13 (5) 705	71 (11) 264 (40) 76 (12) 216 (33) 145 (22) 27 (4) 114 (17) 580 (89) 25 (4) 12 (2) 1,530	20 (20) 27 (27) 15 (15) 28 (28) 24 (24) 9 (9) 9 (9) 84 (84) 1 (1) 6 (6)	46 (12) 108 (29) 51 (14) 147 (39) 96 (26) 42 (11) 44 (12) 345 (92) 19 (6) 7 (2) 905	0 (0) 4 (10) 1 (2) 3 (7) 4 (10) 0 (0) 23 (58) 2 (58) 2 (58) 2 (58) 2 (58) 2 (58) 2 (58) 2 3 (7) 4 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	57 (11) 167 (33) 25 (5) 91 (18) 314 (62) 15 (3) 7 (1) 212 (42) 34 (7) 53 (11) 975	51 (16) 197 (64) 79 (25) 46 (15) 125 (40) 20 (6) 168 (54) 258 (84) 11 (3) 5 (2) 960	14 (9) 55 (36) 16 (11) 11 (7) 14 (9) 11 (7) 45 (30) 101 (66) 4 (3) 15 (10) 286	54 (9) 126 (20) 39 (6) 116 (18) 244 (39) 11 (2) 121 (19) 377 (61) 47 (61) 47 (61) 96 (15) 1,231	47 (15) 166 (55) 48 (16) 96 (31) 31 (10) 8 (3) 91 (30) 274 (90) 10 (3) 6 (2) 777	5 (1) 417 (70) 133 (22) 131 (22) 31 (5) 8 (1) 137 (23) 469 (80) 61 (9) 1 (0) 1,393	75 (15) 267 (54) 90 (18) 88 (17) 40 (8) 34 (7) 286 (57) 443 (88) 35 (8) 35 (8) 3 (1) 1,361	<ul> <li>(16)</li> <li>90</li> <li>(28)</li> <li>112</li> <li>(35)</li> <li>150</li> <li>(47)</li> <li>67</li> <li>(21)</li> <li>96</li> <li>(30)</li> <li>136</li> <li>(43)</li> <li>241</li> <li>(75)</li> <li>20</li> <li>(6)</li> <li>6</li> <li>(2)</li> <li>969</li> </ul>	$(1: 2,0%) \\ (4,0) \\ (4,0) \\ (1,1) \\ (2,0) \\ (1,1) \\ (2,0) \\ (2,0) \\ (1,2) \\ (2,0) \\ $
2.	<ul> <li>a. Inefficient irrigation facility</li> <li>b. Insufficient water supply</li> <li>c. Poor drainage</li> <li>d. Lack of fund</li> <li>e. Lack of labor force</li> <li>f. Difficult marketing</li> <li>g. Natural disaster</li> <li>h. Frequent pest and diseases</li> <li>i. Others</li> <li>j. None</li> </ul>	74 (31) 172 (71) 83 (34) 59 (24) 46 (19) 24 (10) 87 (36) 123 (51) 24 (10) 13 (5) 705	71 (11) 264 (40) 76 (12) 216 (33) 145 (22) 27 (4) 114 (17) 580 (89) 25 (4) 12 (2) 1,530 (234)	20 (20) 27 (27) 15 (15) 28 (28) 24 (24) 9 (9) 9 (9) 84 (84) 1 (1) 6 (6) 223	46 (12) 108 (29) 51 (14) 147 (39) 96 (26) 42 (11) 44 (12) 345 (92) 19 (6) 7 (2) 905	0 (0) 4 (10) 1 (2) 3 (7) 4 (10) 0 (0) 23 (58) 2 (58) 2 (58) 2 (58) 2 (58) 2 (58) 2 (58) 2 3 (7) 4 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) 4 (10) 1 (2) 3 (7) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	57 (11) 167 (33) 25 (5) 91 (18) 314 (62) 15 (3) 7 (1) 212 (42) 34 (7) 53 (11) 975	51 (16) 197 (64) 79 (25) 46 (15) 125 (40) 20 (6) 168 (54) 258 (84) 11 (3) 5 (2) 960 (309)	14 (9) 55 (36) 16 (11) 11 (7) 14 (9) 11 (7) 45 (30) 101 (66) 4 (3) 15 (10) 286	54 (9) 126 (20) 39 (6) 116 (18) 244 (39) 11 (2) 121 (19) 377 (61) 47 (61) 96 (15) 1,231 (195)	47 (15) 166 (55) 48 (16) 96 (31) 31 (10) 8 (3) 91 (30) 274 (90) 10 (3) 6 (2) 777	5 (1) 417 (70) 133 (22) 131 (22) 31 (23) 469 (80) 61 (9) 1 (0) 1,393 (233)	75 (15) 267 (54) 90 (18) 88 (17) 40 (8) 34 (7) 286 (57) 443 (88) 35 (8) 3 (1) 1,361 (273)	<ul> <li>(16)</li> <li>90</li> <li>(28)</li> <li>112</li> <li>(35)</li> <li>150</li> <li>(47)</li> <li>67</li> <li>(21)</li> <li>96</li> <li>(30)</li> <li>136</li> <li>(43)</li> <li>241</li> <li>(75)</li> <li>20</li> <li>(6)</li> <li>6</li> <li>(2)</li> <li>969</li> </ul>	$(1: 2,0%) \\ (4,0) \\ (4,0) \\ (1,1) \\ (2,0) \\ (1,1) \\ (2,0) \\ (2,0) \\ (1,2) \\ (2,0) \\ $

Table B-3 Farming Conditions in Non-granary Irrigated Areas (11/11)

Remarks:

PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

Table B-4	Farmers' H	Requirements	and Intentions	(1/11)

	Item			PR	KH	pp	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
	HOPE FOR SUC	Y-E88	TON	OFFA	PMOE	TA GEG	TONS	10 206	3				. <u></u>				
•	HOLD FOR SOL			U. I.A		LICAI	10145	(Q.200									
	a. Yes			173	335	54	170	22	300	164	-87	367	168	435	453	265	2,993
				(72)	(51)	(54)	(46)	(55)	(59)	(53)	(58)	(58)	(55)	(73)	(91)	(83)	(64
	b. No			68	316	41	183	18	201	145	63	254	137	157	40	47	1,67
	The set is a set			(28)	(48)	(41)	(49)	(45)	(40)	(46)	(41)	(40)	(45)	(26)	(8)	(15)	(35
	c. Don't know			1	3	5	20	0	3	2	2	10	0	4	6	8	6
	d. No answer			(0) 0	(1)	(5) 0	(5)	(0)	(1)	(1)	(1)	(2) 0	(0) 0	(1)	(1)	(2)	(1
	d. No answer			(0)	(0)	(0)	(0)	(0)	.(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0
				(0)	(0)	(0)	(0)	(0)	(0)	. (0)	(0)	(0)	(0)	(0)	(0)	(0)	(0
	Total No. of			242	654	100	373	40	504	311	152	631	305	597	499	320	4,72
	Respondents			(100)									(100)	(100)	(100)		(100
	1				<b>`</b>	,			(,	( )		< <i>7</i>	<b>、</b> <i>7</i>		. ,	( /	
							-										
•	NUMBER OF C	ANDI	DAT	E SUC	CESSO	RS (Q	.207)			•							
-	a. 1 person			72	173	29	79	7	186	104	39	165	88	205	101	107	1,35
				(41)	(53)	(54)	(47)	(32)	(62)	(64)	(45)	(46)	(52)	(47)	(22)	(40)	(46
	b. 2 persons			73	92	17	48	9	73	43	27	111	47	123	169	65	89
				(42)	(29)	(31)	(28)	(43)	(25)	(26)	(31)	(30)	(28)	(28)	(38)	(25)	(30
	c. 3 persons			-15	36	4	18	1	14	11	10	47	17	48	89	40	35
				(9)	(11)	(7)	(11)	(5)	(5)	(7)	(11)	(13)	(10)	(11)	(20)	· · · /	(12
	d. 4 persons			. 7	15	2	9	2	11	4	5	16	7	26	42		16
	- 5			(4)	(5)	(4)	(5)	(10)		(2)	(6)	(4)	(4)	(6)	(9)		((
	e. 5 persons			2	8	1	9	1	6	2	4	17	6	10	18		9
·	f. 6 persons			(1)	(2)	(2)	(5) 2	(5) 0	(2)	(1) 0	(5)	(5) 5	(4)	(3) 7	(4) 10		() 3
	I. O persons			(1)	. (1)	(0)	(1)	(0)	(1)	(0)	(1)	(1)	(0)	(2)	(2)		(
	g. 7 persons			. 0	1	0	2	0		0	0	1	1	(2)	- 9		
	8. Princip			(0)	(0)	(0)	(1)	(0)	(1)	(0)	(0)	(0)	(1)	(2)	(2)	-	(
	h. 8 persons		•	Ó	1	1	1	Ő	ó	0	1	2	2	5	8		2
	1			(0)	(0)	(2)	(1)	(0)	(0)	(0)	(1)	(1)	(1)	(1)	(2)	_	(
	i. 9 persons	1		Ó	: 1	. ÌÓ	ì	ì	ÌÓ	Ó	Ó	Ó	Ó	Ó	Ìά		`
				(0)	(0)	(0)	(1)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(1)	((
	j. 10 persons			0	0	. 0	. 0	0	1	. 0	Ó	Ó	Ó	1	2	i	•
				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	((
	k. Above			3	. 1	0	0	0	· 0	0	0	1	0	2	2	1	1
	10 persons		·	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	((
	Total No. of			173	331	54	169	21	297	164	87	365	168	435	453	263	2,98
	Respondents			11000	(100)	(100)	11000	(100)	(100)	44.0.03	<10.05	** * *	(100)	(100)	(100)	(100)	(10)

							-		···				Unit		ber (%)
	Item	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
3.	CANDIDATE SUCCESS	OR(S) (C	().207a)		1	?		· · ·			* *				
•	a. Son	153 (88)	293 (87)	50 (93)	156 (91)	15 (67)	178 (59)	148 (91)	- 76 (87)	308 (83)	149 (88)	- 369 (84)	398 (88)	218 (82)	2,511 (84)
	b. Daughter	14	40 (12)	13 (24)	21 (12)	12 (55)	147 (49)	22 (13)	5 (6)	83 (23)	32 (19)	110 (25)	204 (45)	106 (40)	809 (27)
	c. Brother/sister	4 (2)	(5)	(2)	5 (3)	Ó	3 (1)	5 (3)	6 (7)	14 (4)	(1)	) (2)	) (1)	10 (4)	76 (3)
	d. Relatives	) (1)	3 (1)	) (0)	(1)	0	) (1)	4 (2)	2 (2)	3 (1)	5 (3)	11 (3)	7 (2)	5 (2)	44 (1)
	e. Wife	1 (1)	3 (1)	0 (0)	0 (0)	(5)	2 (1)	0 (Ò)	0 (0)	2 (1)	0 (0)	0 (0)	0 (0)	1 (0)	10 (0)
	f. Grandchildren	0 (0)	1 (0)	0 (0)	(0)	(0)	(0)	0 (0)	(0)	(0)	0 (0)	(0)	0 (0)	3 (1)	6 (0)
	g. Others	8 (5)	2 (1)	0 (0)	(1)	(0)	0 (0)	1 (1)	0 (0)	0 (0)	0 (0)	5 (1)	0 (0)	2 (1)	19 (1)
	Total No. of Responses*	181 (105)	357 (107)	64 (119)	184 (108)	28 (127)	333 (111)	180 (110)	89 (102)	411 (112)	187 (111)	502 (115)	614 (136)	345 (130)	3,475 (116)
-	No. of Respondents	173	335	54	170	22	300	164	87	367	168	435	453	265	2,993
			÷ .			· .		î.	1 a.			·			
4.	FUTURE MODE OF FAI	RM OPEI	RATIO	NS (Q.	208)	 	1.2 11	i. Pros					e e e de la composición		- 
	<ul> <li>a. As full time farmer</li> <li>b. As part time</li> </ul>	61 (35) 111	117 (35) 210	5 (9) 41	95 (56) 70	1 (5) 18	86 (29) 161	32 (20) 125	45 (52) 34	157 (43) 185	39 (23) 129	173 (40) 204	325 (72) 123	160 (59) 98	1,296 (43) 1,509
	farmer c. As land owner	(64) 1	(63) 8	(76) 7	(41) 2	(81) 3	(53) 44	(76) 7	(39) 5	(50) 22	(77) 0	(46) 12	(27) 2	(36) 4	(50) 117
	with full time job other than agriculture	(1)	(2)	(13)	(1)	(14)	(15)	(4)	(6)	(6)	(0)	(3)	(0)	(2)	(4)
	d. No intention	0 (0)	0 (0)	1 (2)	3 (2)	0 (0)	9 (3)	0 (0)	3 (3)	4 (1)	0 (0)	46 (11)	4 (1)	7 (3)	77 (3)
	No. of Respondents	173 (100)	335	54 (100)	170 (100)	22	300 (100)	164 (100)	87 (100)	368 (100)	168 (100)	435 (100)	454	269	2,999 (100)

Table B-4 Farmers' Requirements and Intentions (2/11)

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

Item															ber (%
	1	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
IN	TENTION OF CONT	NUING F	ARM	OPERA	TION	(Q.20	9)							1	
a.	No more	26	55	15	40	1	86	106	27	90		7	6	6	55
	continuation	(38)	(17)	(37)	(22)	(6)	(43)	(73)	(42)	(35)	(62)	(4)	(15)	(13)	(33
b	Transfer/sell	25	31	5	8	0	11	21	4	22	30	15	. 0	. 2	17
	to other persons	(37)	(10)	(12)	(4)	- (0)	(5)	(14)	(6)	(9)	(22)	(9)	(0)	(4)	(10
	Convert to	2	10	5	· 5	1	60	4	9	39	2	0	1	0	13
	permanent crop cultivation	(3)	(3)	(12)	(3)	(6)	(30)	(3)	(14)	(15)	(1)	(0)	(3)	(0)	(8
d.	Others	15	220	16	130	16	44	16	24	103	20	136	33	39	81
		(22)	(70)	(39)	(71)	(88)	(22)	(10)	(38)	(41)	(15)	(87)	(82)	(83)	(49
No.		68	316	41	183	18	201	147	64	254	137	158	40	47	1,67
Res	spondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100
	Conversion to	1	7	7	20	1	127	39	4	63	0	5	6	14	29
	tree crop	(6)	(9)	(20)	(20)	(17)	(42)	(30)	(24)	(14)	(0)	(6)	(29)	(30)	(22
b. '	Conversion to	0	1	0	0	0	· · 2	2	0	7	1	1	0	0	1
	non farm land	(0)	(1)	(0)	(0)	(0)	(1)	(2)	(0)	(2)	(3)	(1)	(0)	(0)	(1
	Conversion to	0	1	4	3	2	. 7	2	0	15	3	5	2	3	4
	upland crop	(0)	(1)	(11)	(3)	(33)	(2)	(2)	(0)	(3)	(10)	(6)	(10)	(7)	(4
	Conversion to	0	5	0	0		7	2	0	42	1	4	0	. 0	6
	fish culture pond Rent	(0)	(6)	(0) 2	(0)	(0) 0	(2)	(2) 13	(0) 3	(9) 14	(3)	(5)	(0) 0	(0)	(ť 4
е.	Kent	(0)	(4)	(6)	(2)	(0)	(1)	(10)	(18)	(3)	(0)	(0)	(0)	(2)	(
f.	Sell	0	(4)	. 0	0	0		0	. 0	.0	• •	0	0	(2)	(,
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(
g.	Others	4	19	2	25	0	25	11	0	85	5	11	4	1	19
U		(24)	(24)	(6)	(25)	(0)	(8)	(8)	(0)	(19)	-	(13)	(19)	(2)	(14
h.	No plan	12	42	20	<b>`</b> 5Ó	ંર્ડ	135	64	10	262	20	58	) ý	27	71
	-	(70)	(55)	(57)	(50)	(50)	(45)	(48)	(58)	(56)	(67)	(70)	(42)	(59)	(54
Tot	al No. of	17	78	35	100	б	308	133	17	488	30	84	21	46	1,36
	sponses*	(100)	(100)	(100)	(100)	(100)	(101)	(102)	(100)	(106)	(100)	(101)	(100)	(100)	(10)
	ponaça	()	• •									- •		• •	(10.

Table B-4 Farmers' Requirements and Intentions (3/11)

PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak Remarks:

\*; Multiple answers are given.

				-			<u></u>			· .			-	Uni	t: Num	ber (%)
	Iter	m	PR	КH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
7.	IN	TENTIONS TO CONV	ERT OR	FURT	HER U	TILIZ	EPAD	DY FI	ELDS	(Q.806	(1))	۲۰۰۰ - ۲۰		:	•	
	a.		180	154	34	228	27		48	9	424	195	123	239	11	2,130
		convert paddy fields to other	(75)	(83)	(34)	(61)	(68)	(14)	(15)	(6)	(67)	(64)	(21)	(48)	(3)	(45)
		crop fields	· .		^							•				
	b.	Expecting to introduce crop diversification on	3 (1)	13 (2)	2 (2)	11 (3)	. 2 (5)	15 (3)	9 (3)	0 (0)	15 (3)	0 (0)	46 (8)	1 (0)	3 (1)	120 (3)
2		irrigated paddy fields	. 10	- - 		· · ·	• •	1 - 1								•
	ċ.	Expecting to	4	16	4	26	4	61	54	.3	. 72	4	7	8	4	267
		provide conversion of paddy fields to tree planting	(2)	(2)	(4)	(7)	(10)	(12)	(17)	(2)	(11)	(1)	(1)	(2)	(1)	(6)
	d.	Expecting to	45	64	1	22	0	4	2	1	15	51	85	0	2	292
	.*	introduce crop diversification to some extent	(19)	(10)	(1)	(6)	(0)	(1)	(1)	(1)	(3)	(17)	(14)	(0)	(1)	(6)
	e.	Expecting others	1	1	4	7	1	16	25	1	40	2	б	0	3	107
			(1)	<b>(0)</b>	(4)	(2)	(2)	(3)	(8)				(1)	(0)	(1)	(2)
	f.	No plan/idea	2	. 7	15	15	1	174	. 19	12	56	4	8	11	31	353
			(0)	(1)	(15)	(4)	(2)	(35)	(6)	(8)	(9)	(1)	(1)	(2)	(10)	(7)
	g.	No answer	. 9	12	40	64	5	163	154	126	9	49	322	240	266	1,459
			(4)	(2)	(40)	(17)	(13)	(32)	(50)	(82)	(1)	(16)	(54)	(48)	(83)	(31)
	No	o. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,728
	Re	spondents		(100)	(100)		(100)	÷ ·	(100)		= = =	(100)			(100)	(100)

Table B-4 Farmers' Requirements and Intentions (4/11)

									<u>.</u>					9		ber (%
. : Ì	ltem	P	R	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
•	ACTIVITIES EXP	ECTED TO 1	PAR	TICIP	ATEC	REX	PAND	IN TH	E FUT	URE (O	Q.609)				• .	
	a. Rice		.64 67)	412 (64)	. 44 (44)	224 (61)	1 (2)	90 (18)	130 (43)	85 (55)	241 (39)	226 (75)	0	78 (16)	29 (9)	1,72 (3
	b. Rubber trees		12 (5)	(04) 143 (22)	(44) 10 (10)	(01) 83 (22)	(2) 0 (0)	(18) 54 (11)	16	(33)	(39) 182 (29)	(13)	(0) 14 (2)	(10) 109 (22)	(9) 66 (21)	(3 76 (1)
	c. Oil palm		(.) 0 (0)	( <i>22</i> ) 8 (1)	(10)	(22) 52 (14)	(0) (0)	(11) 117 (23)	(3) 29 (9)	(20)	(29) 53 (8)	(13)	(2) 3 (1)	29	69 (22)	37
•	d. Field crops	:	53 22)	(1) 42 (6)	(1) 7 (7)	(14) 69 (18)	(0)	(23)	63 (20)	(4) (4)	(8) (8)	(3) 31 (10)	103 (17)	98 (20)	125 (38)	76 (10
•	e. Cattle	· · ·	22 22 (9)	(0) 82 (13)	(7)	(18) 62 (17)	(10)	(22) 45 (9)	(20)	(4)	(8) 91 (14)	(10) 109 (37)	(17) 249 (42)	(20) 55 (11)	(38)	78
•••	f. Pig		() 0 (0)	(13)	(0) (0)	(17) 2 (1)	(10) 0 (0)	(0) (0)	1 (0)	(1) 0 (0)	(14)	(37) 3 (1)	(42) 2 (0)	36	24 (8)	7
	g. Chicken		55 23)	150 (23)	18 (18)	(1) 71 (19)	(38)	54 (11)	(0) 14 (5)	18 (12)	103 (16)	96 (31)	132 (22)	279 (57)	181 (56)	1,18
	h. Duck		23 10)	31 (5)	10 (10)	45 (12)	(13)		(3) 3 (1)	(12)	31 (5)	53 (17)	(14)	92 (18)	109 (34)	49
	i. Goose		0(0)	2 (0)	(10) (0)	(12)	0	(2) 7 (1)	(0)	0 (0)	(0)	(17) 0 (0)	(0)	10 (2)	15 (5)	4
	j. Dairy		(2) (2)	(0)	3 (3)	(2) (2)	0(0)	1 (0)	(0) (0)	(1)	4 (1)	(0) (0)	12 (2)	41 (8)	(0) 7 (2)	ç (
	k. Fish		9 (4)	16 (2)	2 (2)	4 (1)	2 (5)	(a) 11 (2)	5 (2)	(1)	29 (5)	0 (0)	(1)	61 (12)	42 (13)	19
	1. Others		4 (1)	4 (0)	0 (0)	(0)	0 (0)	(0)	0 (0)	(1)	0 (0)	0 (0)	(0)	7 (1)	0 (0)	(
•	m. None/No expectation		29 12)	127 (19)	32 (32)	(18)	(43)	176 (36)	100 (32)	40 (26)	148 (23)	3 (1)	118 (20)	81 (16)	19 (6)	9. (2
	Total No. of Responses*			1,030 (157)	136 (136)	697 (187)	45 (113)	678 (135)	366 (118)	192 (126)	935 (148)	572 (188)	722 (121)	976 (196)	733 (229)	7,4: (15
	No. of Respondents	2	42	654	100	373	40	504	311	152	631	305	597	499	320	4,7

Table B-4 Farmers' Requirements and Intentions	(5/11)	
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Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

\*; Multiple answers are given.

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											·· .		Uni	: Num	ber (%)
	Item	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
9.	REQUIREMENTS FOR IR	RIGAT	ION (C	2.901)	, stis.	•		5 A. J. S.		in the second		· . ·	· · . · ·	·	: · ·
	a. Rehabilitation of existing irrigation facilities	113 (47)	273 (42)	31 (31)	135 (36)	6 (15)	278 (55)	160 (51)	89 (58)	227 (36)	128 (41)	235 (39)	352 (72)	190 (60)	2,217 (47)
- 	<ul> <li>b. Introduction of sprinkler irrigation system</li> </ul>	47 (19)	62 (9)	9 (9)	64 (17)	1 (2)	61 (12)	140 (45)	14 (9)	60 (11)	11 (4)	20 (3)	180 (36)	65 (20)	734 (16)
	c. Upgrading of existing irrigation	121 (50)	281 (43)	47 (47)	139 (37)	18 (46)	222 (44)	207 (67)	46 (30)	211 (33)	109 (36)	415 (70)	291 (58)	138 (43)	2,245 (47)
	irrigation facility e. Introduction of	13 (5) 23	15 (2) 26	0 (0) 0	10 (3) 9	1 (2) 3	2 (0) 3	0 (0) 6	(1) 4	27 (4) 69	18 (6) 33	2 (0) 9	6 (1) 22	3 (1) 1	98 (2) 208
1.4 4	new drain system for irrigation facility	(10)	(4)	(0)	(2)	(8)	(1)	(2)	(3)	(11)	(11)	(2)	(4)	(0)	(4)
	<ul><li>f. Not to charge for the water</li><li>g. None</li></ul>	2 (1) 8	0 (0) 76	0 (0) 21	0 (0) 74	(2) 9	0 (0) 44	1 (0) 21	0 (0) 12	0 (0) 83	1 (0) 33	1 (0) 12	(0) 12	0 (0) 9	7 (0) 414
-	h. Others	(3) 2 (1)	(12) 3 (1)	(21) 0 (0)	(20) 2 (1)	(23) 2 (5)	(9) 5 (1)	(7) 4 (1)	(8) 0 (0)	(13) 15 (2)	(11) 8 (3)	(2) 0 (0)	(2) 10 (2)	(3) 2 (1)	(9) 53 (1)
•	Total No. of Responses*	329 (136)	736 (113)	108 (108)	433 (116)	41 (103)	615 (122)	539 (173)	166 (109)	692 (110)	341 (112)	694 (116)	874 (175)	408 (128)	5,976 (126)
	No. of Respondents	242	654	100	373	40	504	311	152	631	305	597	499	320	4,728

Table B-4 Farmers' Requirements and Intentions (6/11)

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

\*; Multiple answers are given.

												Unit	: Num	ber (%)
Item	PR	KH	pp	PK	SG	NS	MA	ЛR	PH	TR	KN	SA	SK	Total
10. REQUIREMENTS FOR DI	RAINA	GE (Q.	902)	1. 1.			·							
a. Construction of a farm level drainage facilities	79 (32)	76 (11)	7 (7)	98 (26)	1 (2)	-139 (28)	150 (49)	57 (37)	198 (31)	72 (24)	28 (5)	274 (55)	139 (43)	1,318 (28)
b. Construction of new drainage network	116 (48)	135 (21)	12 (12)	96 (25)	3 (8)	172 (34)	149 (48)	32 (21)	164 (26)	96 (32)	120 (20)	213 (42)	211 (67)	1,519 (32)
c. Construction of flood protection works	73 (30)	43 (7)	.7 (7)	64 (17)	8 (20)	35 (7)	173 (56)	17 (11)	91 (14)	55 (18)	108 (18)	215 (43)	174 (55)	1,063 (22)
d. Rehabilitation of existing drainage facilities	58 (24)	272 (42)	38 (38)	134 (36)	12 (30)	211 (42)	162 (52)	39 (26)	140 (22)	76 (25)	168 (28)	231 (46)	177 (55)	1,718 (37)
e. Upgrading of existing drainage facilities	81 (33)	219 (33)	40 (40)	185 (50)	5 (12)	53 (11)	121 (39)	23 (15)	136 (22)	80 (26)	276 (46)	290 (58)	176 (55)	1,685 (36)
f. None g. Others	11 (5) 15 (7)	77 (12) 80 (12)	27 (27) 27 (27)	58 (16) 61 (17)	11 (28) 11 (28)	41 (8) 42 (8)	17 (5) 17 (5)	16 (11) 17 (11)	89 (14) 98 (16)	53 (17) 56 (18)	28 (5) 35 (6)	11 (2) 22 (4)	4 (1) 5 (1)	443 (9) 486 (10)
Total No. of Responses*	433 (179)	902	158 (158)	696 (187)	51 (128)	693 (138)	789	201	916 (145)	488 (160)	- + -	1,256 (252)	886 (277)	8,232 (174)
No. of Respondents	242	654	100	373	40	504	311	152	631	305	597	499	320	4,728

Table B-4 Farmers' Requirements and Intentions (7/11)

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

			~~				<u></u>							UIII	: Num	0er (%
 Iten	1		PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Tota
RE	QUIREMENTS FO	R FAI	RMRO	DAD ((	2.903)				•				ita i Sina si	· . ·		, <sup>1</sup> . •
a.	Construction of		39	84	14	137	3	233	153	68	267	128	103	293	195	1,71
	new farm road		(16)	(13)	(14)	(37)	(8)	(46)	(49)	(45)	(41)	(41)	(17)	(59)	(61)	(3
b.	Rehabilitation of		78	250	- 13	78	4	139	149	43	114	57	109	244	208	1,48
	existing farm road		(32)	(38)	(13)	(21)	(10)	(28)	(48)	(28)	(18)	(19)	(18)	(49)	(65)	(3
c.	Upgrading/		53	209	23	163	0	183	121	9	165	49	236	219	187	1.61
	pavement of		(22)	(32)	(23)	(44)	(0)	(36)	(39)	(6)	(26)	(16)	(40)	(44)	(57)	(3
	existing farm road		84 A													
d.	Widening of	19	19	121	23	95	1	106	94	29	55	20	113	226	188	1,09
	cxisting farm road		(8)	(19)	(23)	(25)	(2)	(21)	(30)	(19)	(9)	(7)	(19)	(45)	(58)	(2
e.	Need a bridge to		. 9	2	0	0	0	3	1	0	7	8	2	6	2	
	cross the river	•	(4)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(1)	(3)	(0)	· (1)	(1)	(
f.	None/		86	134	37	93	32	32	52	15	120	84	.98	39	6	82
	satisfactory	1.1	(36)	(20)	(37)	(25)	(80)	(6)	(16)		(19)	(28)	(16)	(8)	(2)	(1
g:	Others		6	6	Ó	5	0	ì	4	3	í	1	16	5	0	
Ŭ .			(2)	(1)	(0)	(1)	(0)	(0)	(1)	(2)	(0)	(0)	(3)	(1)	(0)	(
Tot	al No. of		290	806	110	571	40	697	574	167	729	347	677	1,032	786	6,82
Res	sponses*	. /	(120)	(123)	(110)	(153)	(100)	(138)	(185)	(110)	(116)	(114)	(113)	(207)	(246)	(14
No.	of spondents	×	242	654	100	373	40	504	311	152	631	305	597	499	320	4,72

Table B-4 Farmers' Requirements and Intentions (8/11)

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

				-:'										: Num	
lte	<u>m</u>	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Tot
RI	EQUIREMENTS OF	OTHER F	ACILIT	IES (Q	.904)							•			
0	Droomsing	2	3 94	17	167	1	264	175	20	184	166	516	457	276	2,3
a.	· · · ·					1			39						
	facilities	(10		(17)	(44)	(2)	(53)	(57)	(25)	(29)	(54)	(86)	(92)	(86)	(.
b.	Storage facilities	1		23	109	0	160	128	19	64	15	430	444	258	1,7
		(7		(23)	(29)	(0)	(32)	(41)	(13)	(10)	(5)	(72)	(89)	(81)	(
с,	Drying	3		18	103	0	39	97	15	46	18	272	403	232	1,4
	t gelieet in de	(15		(18)	(28)	(0)	(8)	(31)	(10)	(7)	(6)	(46)	(81)	(73)	(.
d.	Machinery		3 19	.2	80	17	57	28	10	154	: 47	11	61	39	5
		(3	) (3)	(2)	(21)	(43)	(11)	(9)	(7)	.(24)	(15)	(2)	(12)	(12)	(
e.	LPN Facility		10	0	14	0	2	2	1	6	3	1	3	1	
		(0	) (2)	(0)	(4)	(0)	(0)	(1)	(1)	(1)	(1)	(0)	(1)	(0)	1
f.	Satisfactory/	15		65	138	- 21	169	59	65	275	84	14	16	15	1,4
	do not need any	(63		(65)	(37)	(53)	(35)	(19)	(42)	(45)	(28)	(2)	(3)	(5)	(
	other facilities	(05	, (0.)	(05)	(31)	(52)	(50)	()	(,2)		(0)	. (-)	(0)	(0)	
σ	0.1	4	40	. 3	21	1	17	.19	27	29	13	15	25	- 9	2
g.	Ouidis	(21		(3)	(6)	(2)	(1)	(5)	(18)	(4)	(4)	(3)	(5)	(2)	1
		(21		(5)	(0)	(4)	(1)	(3)	(10)	(4)	(4)	(5)	(3)	(2)	
Тс	otal No. of	28	746	128	632	40	708	508	176	758	346	1,259	1 410	830	7,8
-	esponses*	(119			(169)				(116)		(113)	(211)	(283)	(259)	(10
INC	csponses	(11)	) (114)	(120)	(105)	(100)	(140)	(105)	(110)	(120)	(115)	(211)	(205)	(239)	(1
N	o. of	24	S 654	100	172	40	504	011	150	631	305	597	499	320	4,7
		- 24	6 0.34	11.67	- 373	- 40	DU4		1.32	0.01					
		24	2 654	100	373	40	504	311	152	051	202	371		540	-+,/
	espondents	24	2 034	100	313	40	504	311	152	051	303	571	.,,		·*•, i
		24	2 034	100	313	40	504	311	132	051	505	571			- <b></b> , /
Re	espondents					·						·			· · · , /
Re						·						·			- <b>-,</b> /
Re EZ	espondents XPECTED BENEFIC	CIAL EFFE	CTS BY	r gro	WING	OTHE	R CRC		PADD	Y FIE	LD (Q	905)	·		
Re	espondents	CIAL EFFE 20	CTS B 3 228	7 GRO 37	WING 267	OTHE 7	R CRC 376	)PS IN 212	PADD	oy fie 391	LD (Q 214	905) 532	346	232	3,(
Re E2 a.	espondents XPECTED BENEFIC Income increase	CIAL EFFE 20 (83	CTS BY 3 228 ) (35)	7 GRO 37 (37)	WING 267 (72)	OTHE 7 (18)	R CRC 376 (75)	)PS IN 212 (69)	PADD 31 (20)	9Y FIE 391 (62)	LD (Q 214 (70)	905) 532 (89)	346 (70)	232 (72)	3,(
Re EZ	espondents XPECTED BENEFIC	CIAL EFFE 20 (83 2	CTS BY 3 228 ) (35) 1 43	7 GRO 37 (37) 10	WING 267 (72) 127	OTHE 7 (18) 4	ER CRC 376 (75) 161	DPS IN 212 (69) 110	PADE 31 (20) 18	9Y FIE 391 (62) 118	LD (Q 214 (70) 21	905) 532 (89) 16	346 (70) 102	232 (72) 72	3,(
Re E2 a. b.	espondents XPECTED BENEFIC Income increase Stable revenue	CIAL EFFE 20 (83 2 (9	CTS BY 3 228 3 (35) 1 43 ) (7)	Y GRO 37 (37) 10 (10)	WING 267 (72) 127 (34)	OTHE 7 (18) 4 (10)	R CRO 376 (75) 161 (32)	)PS IN 212 (69) 110 (35)	PADD 31 (20) 18 (12)	9Y FIE 391 (62) 118 (19)	LD (Q 214 (70) 21 (7)	905) 532 (89) 16 (3)	346 (70) 102 (20)	232 (72) 72 (23)	3,(
Re E2 a.	espondents XPECTED BENEFIC Income increase Stable revenue Creation of	CIAL EFFE 20 (83 2 (9	CTS B <sup>3</sup> 3 228 ) (35) 1 43 ) (7) 5 6	4 GRO 37 (37) 10 (10) 12	WING 267 (72) 127 (34) 95	OTHE 7 (18) 4 (10) 0	ER CRO 376 (75) 161 (32) 7	)PS IN 212 (69) 110 (35) 132	PADD 31 (20) 18 (12) 2	9Y FIE 391 (62) 118 (19) 45	LD (Q 214 (70) 21 (7) 19	905) 532 (89) 16 (3) 16	346 (70) 102 (20) 37	232 (72) 72 (23) 28	3,(
Re E2 a. b.	espondents XPECTED BENEFIC Income increase Stable revenue Creation of employment	CIAL EFFE 20 (83 2 (9	CTS B <sup>3</sup> 3 228 ) (35) 1 43 ) (7) 5 6	Y GRO 37 (37) 10 (10)	WING 267 (72) 127 (34)	OTHE 7 (18) 4 (10)	R CRO 376 (75) 161 (32)	)PS IN 212 (69) 110 (35)	PADD 31 (20) 18 (12)	9Y FIE 391 (62) 118 (19)	LD (Q 214 (70) 21 (7)	905) 532 (89) 16 (3)	346 (70) 102 (20)	232 (72) 72 (23)	3,(
Re E2 a. b. c.	espondents XPECTED BENEFIC Income increase Stable revenue Creation of employment opportunity	CIAL EFFE 20 (83 2 (9 (2	CTS B 3 228 3 (35) 1 43 ) (7) 5 6 ) (1)	GRO 37 (37) 10 (10) 12 (12)	WING 267 (72) 127 (34) 95 (25)	OTHE 7 (18) 4 (10) 0 (0)	2R CRO 376 (75) 161 (32) 7 (1)	212 (69) 110 (35) 132 (42)	PADD 31 (20) 18 (12) 2 (1)	9Y FIE 391 (62) 118 (19) 45 (7)	LD (Q 214 (70) 21 (7) 19 (6)	905) 532 (89) 16 (3) 16 (3)	346 (70) 102 (20) 37 (7)	232 (72) 72 (23) 28 (9)	3,( ( ;
Re E2 a. b. c.	espondents XPECTED BENEFIC Income increase Stable revenue Creation of employment opportunity Leveling up of	CIAL EFFE 20 (83 2 (9 (2 3)	CTS B 3 228 ) (35) 1 43 ) (7) 5 6 ) (1) 5 95	GRO 37 (37) 10 (10) 12 (12) 14	WING 267 (72) 127 (34) 95 (25) 154	OTHE 7 (18) 4 (10) 0 (0) 2	R CRO 376 (75) 161 (32) 7 (1) 134	212 (69) 110 (35) 132 (42) 108	PADD 31 (20) 18 (12) 2 (1) 12	9Y FIE 391 (62) 118 (19) 45 (7) 140	LD (Q 214 (70) 21 (7) 19 (6) 22	905) 532 (89) 16 (3) 16 (3) 58	346 (70) 102 (20) 37 (7) 38	232 (72) 72 (23) 28 (9) 63	3,(
Re E2 a. b. c.	espondents XPECTED BENEFIC Income increase Stable revenue Creation of employment opportunity Leveling up of living standard	CIAL EFFE 20 (83 2 (9 (2 3) (15	CTS B 3 228 ) (35) 1 43 ) (7) 5 6 ) (1) 5 95 ) (15)	Y GRO 37 (37) 10 (10) 12 (12) 14 (14)	WING 267 (72) 127 (34) 95 (25) 154 (41)	OTHE 7 (18) 4 (10) 0 (0) 2 (5)	276 (75) 161 (32) 7 (1) 134 (27)	DPS IN 212 (69) 110 (35) 132 (42) 108 (35)	PADD 31 (20) 18 (12) 2 (1) 12 (8)	9Y FIE 391 (62) 118 (19) 45 (7) 140 (22)	LD (Q. 214 (70) 21 (7) 19 (6) 22 (7)	905) 532 (89) 16 (3) 16 (3) 16 (3) 58 (10)	346 (70) 102 (20) 37 (7) 38 (8)	232 (72) 72 (23) 28 (9) 63 (20)	3,(
Re E2 a. b. c.	espondents XPECTED BENEFIC Income increase Stable revenue Creation of employment opportunity Leveling up of living standard	CIAL EFFE 20 (83 2 (9 (2 3) (15 2)	CTS B 3 228 ) (35) 1 43 ) (7) 5 6 ) (1) 5 95 ) (15) 4 323	Y GRO 37 (37) 10 (10) 12 (12) 14 (14) 53	WING 267 (72) 127 (34) 95 (25) 154 (41) 81	OTHE 7 (18) 4 (10) 0 (0) 2 (5) 30	2R CRC 376 (75) 161 (32) 7 (1) 134 (27) 69	DPS IN 212 (69) 110 (35) 132 (42) 108 (35) 51	PADD 31 (20) 18 (12) 2 (1) 12 (8) 90	9Y FIE 391 (62) 118 (19) 45 (7) 140 (22) 177	LD (Q 214 (70) 21 (7) 19 (6) 22 (7) 64	905) 532 (89) 16 (3) 16 (3) 58 (10) 44	346 (70) 102 (20) 37 (7) 38 (8) 130	232 (72) 72 (23) 28 (9) 63 (20) 44	3,( ( ( ( ( 1,1
Re E2 a. b. c. d. e.	espondents XPECTED BENEFIC Income increase Stable revenue Creation of employment opportunity Leveling up of living standard Nothing special	CIAL EFFE 20 (83 2 (9 (2 3) (15	CTS B 3 228 ) (35) 1 43 ) (7) 5 6 ) (1) 5 95 ) (15) 4 323 ) (48)	Y GRO 37 (37) 10 (10) 12 (12) 14 (14) 53 (53)	WING 267 (72) 127 (34) 95 (25) 154 (41)	OTHE 7 (18) 4 (10) 0 (0) 2 (5)	276 (75) 161 (32) 7 (1) 134 (27)	DPS IN 212 (69) 110 (35) 132 (42) 108 (35)	PADD 31 (20) 18 (12) 2 (1) 12 (8)	9Y FIE 391 (62) 118 (19) 45 (7) 140 (22)	LD (Q. 214 (70) 21 (7) 19 (6) 22 (7)	905) 532 (89) 16 (3) 16 (3) 16 (3) 58 (10)	346 (70) 102 (20) 37 (7) 38 (8)	232 (72) 72 (23) 28 (9) 63 (20)	3,( ( ( ( ( 1,1
Re E2 a. b. c. d. e.	espondents XPECTED BENEFIC Income increase Stable revenue Creation of employment opportunity Leveling up of living standard	CIAL EFFE 20 (83 2 (9 (2 3) (15 2 (10	CTS B 3 228 3 (35) 1 43 3 (7) 5 6 1 (1) 5 95 1 (15) 4 323 3 (48) 0 0	Y GRO 37 (37) 10 (10) 12 (12) 14 (14) 53 (53) 4	WING 267 (72) 127 (34) 95 (25) 154 (41) 81 (22) 9	OTHE 7 (18) 4 (10) 0 (0) 2 (5) 30 (74) 1	2R CRC 376 (75) 161 (32) 7 (1) 134 (27) 69 (14) 4	DPS IN 212 (69) 110 (35) 132 (42) 108 (35) 51 (16) 0	PADD 31 (20) 18 (12) 2 (1) 12 (8) 90 (59) 8	9Y FIE 391 (62) 118 (19) 45 (7) 140 (22) 177 (28) 2	LD (Q 214 (70) 21 (7) 19 (6) 22 (7) 64 (21) 5	905) 532 (89) 16 (3) 16 (3) 16 (3) .58 (10) 44 (7) 1	346 (70) 102 (20) 37 (7) 38 (8) 130 (26) 2	232 (72) 72 (23) 28 (9) 63 (20) 44 (14) 1	3,( ( { ( ( ( ( ( ( ( (
Re E2 a. b. c. d. e.	espondents XPECTED BENEFIC Income increase Stable revenue Creation of employment opportunity Leveling up of living standard Nothing special	CIAL EFFE 20 (83 2 (9 (2 3) (15 2 (10	CTS B 3 228 3 (35) 1 43 3 (7) 5 6 1 (1) 5 95 1 (15) 4 323 3 (48) 0 0	Y GRO 37 (37) 10 (10) 12 (12) 14 (14) 53 (53)	WING 267 (72) 127 (34) 95 (25) 154 (41) 81 (22)	OTHE 7 (18) 4 (10) 0 (0) 2 (5) 30 (74)	CR CRC 376 (75) 161 (32) 7 (1) 134 (27) 69 (14)	DPS IN 212 (69) 110 (35) 132 (42) 108 (35) 51 (16)	PADD 31 (20) 18 (12) 2 (1) 12 (8) 90 (59)	9Y FIE 391 (62) 118 (19) 45 (7) 140 (22) 177 (28)	LD (Q 214 (70) 21 (7) 19 (6) 22 (7) 64 (21)	905) 532 (89) 16 (3) 16 (3) 58 (10) 44 (7)	346 (70) 102 (20) 37 (7) 38 (8) 130 (26)	232 (72) 72 (23) 28 (9) 63 (20) 44 (14)	3,( ( { ( ( ( ( ( ( ( (
Re E2 a. b. c. d. e. f.	espondents XPECTED BENEFIC Income increase Stable revenue Creation of employment opportunity Leveling up of living standard Nothing special Others	CIAL EFFE 20 (83 2 (9 (2 3) (15 2 (10 (10 (0	CTS B 3 228 3 (35) 1 43 3 (7) 5 6 1 (1) 5 95 1 (15) 4 323 1 (48) 1 0 1 (0)	Y GRO 37 (37) 10 (10) 12 (12) 14 (14) 53 (53) 4 (4)	WING 267 (72) 127 (34) 95 (25) 154 (41) 81 (22) 9 (3)	OTHE 7 (18) 4 (10) 0 (0) 2 (5) 30 (74) 1 (3)	2R CRC (75) 161 (32) 7 (1) 134 (27) 69 (14) 4 (0)	DPS IN 212 (69) 110 (35) 132 (42) 108 (35) 51 (16) 0 (0)	PADD 31 (20) 18 (12) 2 (1) 12 (8) 90 (59) 8 (6)	9Y FIE 391 (62) 118 (19) 45 (7) 140 (22) 177 (28) 2 (0)	LD (Q 214 (70) 21 (7) 19 (6) 22 (7) 64 (21) 5 (2)	905) 532 (89) 16 (3) 16 (3) 16 (3) .58 (10) 44 (7) 1 (0)	346 (70) 102 (20) 37 (7) 38 (8) 130 (26) 2 (0)	232 (72) 72 (23) 28 (9) 63 (20) 44 (14) 1 (0)	3,( ( { ( ( ( ( ( ( ( ( ( (
Ref E2 a. b. c. d. e. f. To	espondents XPECTED BENEFIC Income increase Stable revenue Creation of employment opportunity Leveling up of living standard Nothing special Others	CIAL EFFE 20 (83 2 (9 (2 3) (15 2 (10 (0 28)	CTS B 3 228 3 (35) 1 43 3 (7) 5 6 1 (1) 5 95 1 (15) 4 323 1 (48) 1 0 0 (0) 6 695	Y GRO 37 (37) 10 (10) 12 (12) 14 (14) 53 (53) 4 (4) 130	WING 267 (72) 127 (34) 95 (25) 154 (41) 81 (22) 9 (3) 733	OTHE 7 (18) 4 (10) 0 (0) 2 (5) 30 (74) 1 (3) 44	CR CRC 376 (75) 161 (32) 7 (1) 134 (27) 69 (14) 4 (0) 751	DPS IN 212 (69) 110 (35) 132 (42) 108 (35) 51 (16) 0 (0) 613	PADD 31 (20) 18 (12) 2 (1) 12 (8) 90 (59) 8 (6) 161	9Y FIE 391 (62) 118 (19) 45 (7) 140 (22) 177 (28) 2 (0) 873	LD (Q 214 (70) 21 (7) 19 (6) 22 (7) 64 (21) 5 (2) 345	905) 532 (89) 16 (3) 16 (3) .58 (10) 44 (7) 1 (0) 667	346 (70) 102 (20) 37 (7) 38 (8) 130 (26) 2 (0) 655	232 (72) 72 (23) 28 (9) 63 (20) 44 (14) 1 (0) 440	3,( ( ( ( ( ( 1,1 ( (
Ref E2 a. b. c. d. e. f. To	espondents XPECTED BENEFIC Income increase Stable revenue Creation of employment opportunity Leveling up of living standard Nothing special Others	CIAL EFFE 20 (83 2 (9 (2 3) (15 2 (10 (0 28)	CTS B 3 228 3 (35) 1 43 3 (7) 5 6 1 (1) 5 95 1 (15) 4 323 1 (48) 1 0 1 (0)	Y GRO 37 (37) 10 (10) 12 (12) 14 (14) 53 (53) 4 (4) 130	WING 267 (72) 127 (34) 95 (25) 154 (41) 81 (22) 9 (3) 733	OTHE 7 (18) 4 (10) 0 (0) 2 (5) 30 (74) 1 (3) 44	CR CRC 376 (75) 161 (32) 7 (1) 134 (27) 69 (14) 4 (0) 751	DPS IN 212 (69) 110 (35) 132 (42) 108 (35) 51 (16) 0 (0) 613	PADD 31 (20) 18 (12) 2 (1) 12 (8) 90 (59) 8 (6) 161	9Y FIE 391 (62) 118 (19) 45 (7) 140 (22) 177 (28) 2 (0) 873	LD (Q 214 (70) 21 (7) 19 (6) 22 (7) 64 (21) 5 (2) 345	905) 532 (89) 16 (3) 16 (3) .58 (10) 44 (7) 1 (0) 667	346 (70) 102 (20) 37 (7) 38 (8) 130 (26) 2 (0) 655	232 (72) 72 (23) 28 (9) 63 (20) 44 (14) 1 (0) 440	3,( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (
Ref EZ a. b. c. d. e. f. To Ref	espondents XPECTED BENEFIC Income increase Stable revenue Creation of employment opportunity Leveling up of living standard Nothing special Others	CIAL EFFE 20 (83 2 (9 (2 3) (15 2 (10 (0 28)	CTS B 3 228 ) (35) 1 43 ) (7) 5 6 ) (1) 5 95 ) (15) 4 323 ) (48) ) 0 ) (0) 5 695 ) (106)	Y GRO 37 (37) 10 (10) 12 (12) 14 (14) 53 (53) 4 (4) 130 (130)	WING 267 (72) 127 (34) 95 (25) 154 (41) 81 (22) 9 (3) 733	OTHE 7 (18) 4 (10) 0 (0) 2 (5) 30 (74) 1 (3) 44	CR CRC 376 (75) 161 (32) 7 (1) 134 (27) 69 (14) 4 (0) 751	DPS IN 212 (69) 110 (35) 132 (42) 108 (35) 51 (16) 0 (0) 613 (197)	PADD 31 (20) 18 (12) 2 (1) 12 (8) 90 (59) 8 (6) 161 (106)	9Y FIE 391 (62) 118 (19) 45 (7) 140 (22) 177 (28) 2 (0) 873	LD (Q 214 (70) 21 (7) 19 (6) 22 (7) 64 (21) 5 (2) 345	905) 532 (89) 16 (3) 16 (3) .58 (10) 44 (7) 1 (0) 667	346 (70) 102 (20) 37 (7) 38 (8) 130 (26) 2 (0) 655	232 (72) 72 (23) 28 (9) 63 (20) 44 (14) 1 (0) 440	3,( ( { ( ( ( ( 1,1 ( (

#### 'Table B-4 Farmers' Requirements and Intentions (9/11)

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

\*; Multiple answers are given.

Table B-4 Farmers' Requirements and Intentions (10/11)

		4								·				Unit	: Num	ber (%
	Item	1997 - L	PŔ	KH	PP	РК	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
•	MAJOR CONCER	NS ABO	UT INI	RODI	JCING	OTHE	R CR	OPS IN	I PADI	Y FIE	LD (Q	.906)			1	
	a. Finance		108	369	25	197	0	258	212	28	311	213	335	325	210	2,59
			(45)	(56)	(25)	(54)	(0)	(51)	(68)	(18)	(49)	(69)	(56)	(66)	(65)	(55
	b. Technique		47	151	18	90	Ó	55	158	14		81	98	197	149	1,14
	•		(19)	(23)	(18)	(24)	(0)	(11)	(51)	(9)	(13)	(27)	(16)	(39)	. (47)	(24
	c. Marketing		46	234	19	151	1	79	168	25	119	147	279	108	199	1,57
			(19)	(36)	(19)	(40)	(2)	(16)	(54)	(16)	(19)	(48)	(47)	(22)	(62)	(31
	d. Labor		26	154	21	109	13	289	152	26	356	73	87	71	37	1,41
	28 T		(11)	(24)	(21)	(29)	(33)	(57)	(49)	(17)	(57)	(24)	(15)	(14)	(12)	(30
	e. Others		108	112	26	83	12	92	20	24	183	110	203	37		1,05
			(45)	(17)	(26)	(22)	(30)	(18)	(6)	(16)	(29)	(36)	(34)	(7)		(22
	f. None		20	77	39	82	14	105	49	84	66	17	18	84	45	70
			(8)		(39)	(22)	(35)	(21)	(16)	(56)	(10)	(6)	(3)	(17)		(1
	Total No. of		355	1,097	148	712	40	878	759	201	1,119	641	1,020	822	684	8.47
	Responses*		(147)	(168)	(148)	(191)	(100)	(174)	• • • • • • • • • • • • • • • • • • •	(132)		(210)	(171)	(165)	(214)	(17
	Total No. of Respondents	. ·	242	654	100	373	40	504	311	152	631	305	597	499	320	4,72

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

\*; Multiple answers are given.

Table B-4 Farmers' Requirements and Intentions (11/11)

Ite	m sa	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	t: Num SK	Tota
S	UGGESTIONS AND OPIN	TONS	ON TT	TERA	TION	1 17 4	TION		'ROP T	IVER	SIEIC	TION	(0.00)	7)	
	OOOLDING MILD OT IN		01111				110111						(Q.70	()	
a.	· · ·	58	42	<u>``</u> О	5	0	1	13	9	18	59		20		2
	drainage system	(24)	(6)	(0)	(1)	(0)	(0)	(4)	(6)	(3)	(19)	· (4)	(4)	(14)	
b	• ·	11	- 4	0	2	2	.1	1	4	8	7			15	Ì
	roads	(5)	(1)	(0)	(1)	(5)	(0)	(0)	(3)	(1)	(2)		(3)	(5)	
c.	More mechanization	· 5	1	. 2	6	. 8	3	4	-	43	23		52	30	3
	and modernized farming	(2)	(0)	(2)	(2)	(20)	(1)	(1)	(2)	(7)	(8)		(10)	(9)	
d.	0	18	43	1	18	0	6	10	5	20	21	195	36	21	1
•	farming and introduction of modern technique	(7)	: <b>(7)</b>	(1)	(5)	(0)	(1)	(3)		(3)	(7)	(33)	. <b>(7)</b>	(7)	÷ .
e,		12	29	19	- 7	2	-34	52	18	83	89	189	111	68	. 7
	for more crops harvest	(5)	(5)	(19)	(2)	(5)	(7)	(17)	(12)	(13)	(29)		(22)	(22)	(
f.		39	21	1	22	1	16	49	6	19	32		120	76	5
	inputs	(17)	(3)	(1)	(6)	(2)	(3)	(16)	(4)	(3)	(11)		(24)	(23)	(
g.		5	2	5	5	0	2	- 17	3	5	20	26	4	7	1
	their crops	(2)	(0)	(5)	(1)	(0)	(0)	(5)	(2)	(1)	(7)	(5)	(1)	(2)	
h.		24	59	5	39	1	48	23	3	21	3	14	33	19	2
	diversification project	(10)	(9)	(5)	(10)	(2)	(10)	(7)	(2)	(3)	(1)	(2)	(7)	(6)	_
i.		29	17	13	35	0	29	26	7	29	6	9	22	15	2
	which require less manpower and care	(11)	(3)	(13)	(9)	(0)	(6)	(8)	(4)	(4)	(2)	(1)	(4)	(5)	4
j.		12	25	4	39	1	30	21	7	20	7		15	17	2
	are more profitable with better yield	(5)	(4)	(4)	(10)	(2)	(6)	(7)	(5)	(3)	(2)		(3)	(5)	
k,		- 13	67	6	62	- 6	90	37	14	117	-8		53	35	- 5
	plant crops which are suitable for paddy field	(6)	(10)	(6)	(17)	(15)	(18)	(12)	(9)	(19)	(3)		(11)	(11)	(
1.		15	30	4	21	0	12	. 4	. 3	15	1	16	33	46	2
	to increase income	(6)	(5)	(4)	(6)	(0)	(2)	(1)	(2)	(2)	(0)		(7)	(14)	
m	and the second	56	102	1	15	0	12	17	25	34	32		64	35	4
	supply better irrigation	(23)	(16)	(1)	(4)	(0)	(2)	(5)	(16)	(5)	(10)		(13)	(11)	(
n		4	25	3	12	1	7	. 73	4	44	4	_	5	1	1
	on group farming	(2)	(4)	(3)	(3)	(2)	(1)	(23)	(3)	(7)	(1)		(1)	(0)	_
0.		4	6	2	15	.0	· · · 9	6	3	24	24	20	5	6	1
	problems like pests and predator animals	(2)	(1)	(2)	(4)	(0)	(2)	(2)	(2)	(4)	(8)	(4)	(1)	(2)	_
p.		8	3	2	5	0	11	14	2	29	9	9	16	6	J
~	make the most of it	(3)	(0) 153	(2)	(1) 28	(0)	(2)	(5) 75	. (1)	(5)	(3)	(2)	(3)	(2)	
q.		9	(22)	17 (17)		6	42		5	54 (0)	9	1	7	1	2
T	for other crops Paddy staple food	(4) 0	25	4	(8) 3	(15)	(9) 31	(24)	(3)	(9)	(3)		(1)	(0)	1
г.	cannot change	(0)	(4)	(4)	(1)	(2)	(6)	(8)	6 (4)	22 (4)	1 (0)	0 (0)	14 (3)	3	1
s.	NT IT	23	96	28	130	15	156	41	41	154	52		120	(1) 51	1,0
ω.	THO BRODODIUM	(10)	(15)	(28)	(35)	(39)	(32)	(13)	(27)	(24)	(17)		(24)	(16)	1,0 (2
t.	Others	25	46	19	56	4	66	66	21	98	29	47	(24)	44	5
*1		(9)	(7)	(19)	(15)	(11)	(12)	(23)	(14)	(16)	(10)	(8)	(10)	(14)	(
Т	otal No. of	370	796	136	525	48	606	573	189	857	436	1,172	793	540	7,0
							(120)	(184)	(124)	(136)	(143)	(196)	(159)		(14
	o. of	242	654	100	373	40	504	311	152	631	305	597	499	320	4,7
	espondents	- 16 <sup>7</sup>	001	100	515	-10	~~~	511		0.5 1	505	571	-122	520	ч,

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

\*; Multiple answers are given.

<u>, .</u> . .

Table B-5 Intention of Continuing Farm Operation by Age

#### (Q.101 x Q.209)

Intention*		Years	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total	(%)
	a.	18~25	1	2	0	0	0	0	0	0	0	0	Ó	0	. 0	3	(1
÷	b.	26~35	Ô	10		4	Ŏ	2	11	4	7	4	ĩ	1	1	45	(8
No	C.	36~45	8		4	5	ŏ	2	9	5	8	12	2	2	1	64	(12
	d.		7	20	7	18	Ŏ	25	35	7	26	29	2	2	3	181	(33
	e.		10	17	3	13	2	63	51		47	27	2	1	. 1	248	(46
			26	55	14	40	2	92	106	27	88	72	7	6	6	541	(100
<u></u> _		4.0	· · ·														
	a.	18 ~ 25	0		- 0	0	0	0	0	0	1	0	0	0	0	1	(1
Trans./	b.		1	3	.0	0	0	0	2 3	0	1	- 1	1	0	<u>_0</u>	· 9:	```
sell	. C		9	3	2	2	0		3	1	- 1	4	3	0	0	28	(17
	đ.	46 ~ 55	6		- 0	3	0	7	3	2	7	9	6	0	0	57	(34
	e.	Above 55	. 9	11	2	3	0	4	12	1	12	11	. 4	. 0	2	71	(43
			25	31	4	8	0	11	20	4	22	25	14	0	2	166	(100
	а.	18~25	0	0	: 0	0	0	· · 0	0	0	0	0	0	0	-0	0	(0
	b.	26~35	1	Š	Ő	1	0	4	ŏ	1	3	. 1	ŏ	1	ŏ	15	(12
Convert	c.	36~45	1	. 1	ŏ	1	Ŏ	2	2	3	4	Ô	ŏ	Ô	Ő	14	(11
	d.	46~55	Ō	4	- Ŏ	1	ŏ	21	1	4	11	· 1	ŏ	. ŏ	ŏ	43	(34
	e.	Above 55	Ő	2	Ŏ	2	Ő	27	1	1	21	Ō	Ő	ŏ	Ŏ	54	(43
			2	10	0	. 5	0	54	4	9	39	2	0	1	0	126	(100
	a.	18~25	1	3	0	2	0	.0	1	0	1	···· (	3	2	0	13	(0)
	а. b.	26~35	. 0	23	0	- <sup>2</sup>	1	5	2	3	2	4	16	13	9	87	(2) (11
Others	с.	20 ~ 55 36 ~ 45	6	42	2	22	0	1	2	3	10	2	26	.6		130	(16
C LIVID	d	46~55	5	77	4	52	. 3	25	6	8	44	5	56	- 6	11	302	(37
	e.	Above 55	3	: 75	8	45	12	14	4	10	45	9	35	6	.11	277	(34
								<u> </u>				- <b></b>					
·			15	220	14	130	16	45	_15	24	102	20	136	33	39	809	(100

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

\*; No: No more continuation

Trans./sell: Transfer/sell to other persons

Convert: Convert to permanent crop cultivation

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Hope		Years	PR	KH	ΡP	РК	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total	(%)
·	a.	18~25	Ó	4	0	1	. 0	0	0	2	2	0	0	9	1	19	(1)
	b.	26~35	14	23	1	14	0	17	9	10	. 17	10	17	100	26	258	(8)
Yes	c.	36~45	31	63	5	20	2	21	25	10	31	37	93	- 71	59	468	(16)
	d.	46~55	68	119	28	79	6	104	50	- 30	125	- 59	194	142	102	1,106	(37)
	e.	Above 55	60	126	19	56	14	158	80	35	190	62	130	131	77	1,138	(38)
			173	335	53	170	22	300	164	87	365	168	434	453	265	2,989	(100)
	a.	18~25	2	5	0	2	0	0	1	0	1	0	3	2	- 0	16	(1)
	b.	26~35	2	39	Ō	14	1	11	15	8	14	10	18	15	10	157	(9)
No	c.	36~45	24	52	8	30	0	5	16	12	23	24	31	8	9	242	(15)
	d.	46~55	. 18	115	11	74	3	78	45	21	88	- 51	64	- 8	14	590	(36)
4	e.	Above 55	22	105	13	63	13	107	68	23	125	52	41	7	14	653	(39)
		· · · · · · · · · · · · · · · · · · ·	68	316	32	183	17	201	145	64	251	137	157	40	47	1,658	(100)
-	a.	18~25	0	0	0	. 0	0	0	0	0	1	0	0	0	0	i	(2)
No	b.	26~35	0	0	0	6	0	1	0	0	1	0	1	6	3	18	(29)
Answer	c.	36~45	0	Ó	0	4	0	0	0	0	1	0	3	0	3	11	(18)
	d.	46~55	1	2	0	6 4	· 0	0	1	1	1	0	0	0	2	14	(22)
	e.	Above 55	0	1	1	4	1	2	1	1	6	0	1	• 0	0	18	(29)
		······································	. 1	. 3	1	20	1	3	2	2	10	0	5	6	8	62	(100)

## Table B-6Hope for Succession of Farm Operations<br/>by Household Members by Age

Table B-7

Hope for Succession of Farm Operations by Household Members by Income from Major Crops

(Q.113 x Q.206)

Hope	Ar	nual Income (M\$)	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	\$K	Total	(%)
:	a.	No income	1	0	6	29	1	82	78	4	52	0	7	85	12	357	(13)
	b,		129	243	30	109	17	164	54	66	240	161	214	284	185	1,896	(67)
Yes	с.	3,001 ~ 6,000	32		12	18	4	51	20	13	73	4	28	72	65	467	(17)
103	d.	6,001 ~ 9,000	. 8	9	3	. 8	0	3	5	2	. 0	3	- <u>2</u> 0 1	- 9	3	54	
			. 0	8	2	6	0	0	ัว	2	2	0	1	3	.0		(2)
	e.	Above 9,000	3	0	· . ∠	. 0	U	. V.	1	L	2		<b></b> .	. 3	v	34	(1)
			173	335	53	170	22	300	164	87	367	168	251	453	265	2,808	(100)
14	· _	No incomo	•	•		20	•	40	00		40	^	. 1	· ~	~	0.40	(15)
. ·		No income	0	2	- 00	38	3	49		4	40	0	1	.5	5	243	(15)
	b. '	1~3,009	57		23	111	14	107	46	46		121	82	26	27	1,064	(67)
No	c.	3,001 ~ 6,000	8	66	0	20	1	45	6	13	42	11	5	. 9	13	239	(15)
	d.	6,001 ~ 9,000	3	- 7	1	7	0	0		0	1	4	4	0	. 1	31	(2)
	e.	Above 9,000	. 0	8	1	7	• <b>0</b>	_0	1	1	0	- 1	0	0	1	20	(1)
<del>.</del>		·····	68	316	32	183	18	201	145	64	254	137	92	40	47	1,597	(100)
						105	10	201	145		254	157	<u> </u>			1,001	(100)
	a.	No income	0	0	1	5	0	0	2	0	2	0	. 0	2	1	13	(22)
No	b.	1 ~ 3,000	1	2	· 0	9	0	2	0	-1	. 8	0	2	3	5	33	(55)
Answer	c.	3,001 ~ 6,000	0	1	0	. 2	0	.1	Ö	1	0	Ô	2.	- 1	2	10	(17)
	đ.	6,001 ~ 9,000	0	0	0	1	Õ	Ō	Ū.	Ō	Ō	Ō	· 0	Ō	- 0	1	(1)
	e.	Above 9,000	Ō	Ő	Ő	3	Ő	Ő	Ő	0	0	0	Ŏ	Ő	0	3	(5)
		· · · · · · · · · · · · · · · · · · ·	1	3	1	20	0	3	2	2	10	0	4	6	. 8	60	(100)

(Q.608	3 x Q.8	01)													0-0-00-01-01-07		
Full Utiliza	tion	Problems or Difficulties	PR	кн	PP	PK	SG	NS	MA	R	PH	TR	KN	SA	SK	Total	(%)
	a.	Poor facilities	291	349	50	129	4	63	173	77	83	229	476	407	224	2,555	(31)
	b.	Lack of fund/machinery	60	203	24	120	3	44	29	11	40	88	144	96	133	995	(12)
	Ċ.	Labor shortage	44	134	8	60	2	106	60	13	44	23	29	- 37	59	619	(7)
Yes	đ.	Marketing difficulty	24	22	5	31	0	7	11	9	4	8	6	29	86	242	(3)
	e.	Natural disaster, pest/diseases	202	611	57	284	22	107	254	137	140	331	523	704	318	3,690	(44)
	f.	Others	17	18	0	7	2	8	3	· 3	3	7	26	18	13	125	(2)
	g.	None	10	10	4	3	1	17	3	9	24	3	1	2	6	93	(1)
			648	1,347	148	634	34	352	533	259	338	689	1,205	1,293	839	8,319	(100)
									····· ·· ·								
	a.	Poor facilities	38	62	-	76	1	186	154	9	136	32	79	25	29	833	(28)
	b.	Lack of fund/machinery	1	19	3	36	0	57	20	1	102	11	13	6	20	289	(10)
	c.	Labor shortage	2	11	12	- 35	2	208	65	1	200	8	2	3	8	557	(18)
No	đ.	Marketing difficulty	0	5	2	11	0	8	9	2	7	0	2	5	10	61	(2)
	e.	Natural disaster, pest/diseases	8	83	23	104	1	112	172	9	358	34	83	25	59	1,071	(36)
	f.	Others	. 5	1	. 0	2	0	16	5	0	18	0	9	3	4	63	(2)
	g.	None	3	2	1	4	5	36	2	6	71	3	0	1	0	134	(4)
			57	183	47	268	 9	623	427	28	892	88	188	68	130	3,008	(100)

#### Table B-8 Problems or Difficulties Encountered in Farming Practices by Incidence of Full Utilization of Paddy Fields

Table B-9

Problems or Difficulties Encountered in Farming Practices by Intention of Continuing Farm Operation

in	.209		$\sim$	10	o١.	
	. 2019	x	U L	กม	ΔĿ	-

ntention*		Problems & Difficulties	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total	(%)
	a.	Poor facilities	22	23	7	21	1	33	126	17	18	80	8	3	3	362	(29)
	b.	en en george et en son de la sectore de l	2	. 15	4	17	0	7	18	0	14	29	1	1	2	110	(9
	c.	Labor shortage	2	13	5	16	· · 0	40	53	. 1	35	8	0	0	2	175	(14
No	d.	-	.0	1	3	3	Ŏ	1	6	1	0	3	.0	0	2	20	<b>`(</b> 1
	e.	Natural disaster/ pest/diseases	15	61	14	42	1	30	153	. 26	56	106	5	5	5	519	(41
11	f.	Others	4	2	0	1	0	4	2	0	. 4	3	1	0	. 0	21	(2
· ·	g.	None	2	- 0	0	1	<u>1</u>	20	0	4	26	0	- 0	1	<u>,</u> О	55	(4
			47	115	33	101	3	135	358	49	153	229	15	10	14	1,262	(100
	a.	Poor facilities	43	11	2	3	0	4	26	3	8	23	12	0	2	137	(35
e e e e e e e e e e e e e e e e e e e		Lack of fund/machinery	2	7	3	4	0	- 1	5	0	5	2	6	. 0	0	35	(9
	c.		2	7	1	1	0	10	. 8	1	8	4	1	0	0	43	(11
Trans./ sell	d.	Marketing difficulty	2	- 1	0	4	. • 0	1	1	0	0	1	1	0	0	11	(3
· · ·	e.	pest/diseases	17	36	2	11	0	3	17	- 3	17	33	13	0	0	152	(39
	f.	Others	2	1	0	0	0	0	1	0	0	1	0	0	0	5	(1
- 	g.	None	4	0	0	. 0	0	0	2	: 0	3	0	0	0	1	10	(2
· ·			72	63	8	23	0	19	60	7	41	64	33	0	3	393	(100
	а.	Poor facilities	3	11	0	- 0	0	39	2	5	11	0	0	2	0	73	(27
	b.	Lack of fund/machinery	1	2	0	1	0 1	5	0	0	9	0	0	1	0	19	(7
	¢.	Labor shortage	-1	1	0	- 1	· · 0·	- 39	1	- 1.	15	· 0	0	0	· · · 0	59	(21
Convert	d.	difficulty	1	0	0	1	0	2	1	2	1	0	0	0.	• 0	- 8	(3
	e.	Natural disaster/ pest/diseases	2	- 11	0	3	0	21	4	13	39	0	0	0	0	93	(34
	f.	Others	2	0	0	0	0	1	0	0	0	0	0	0	0	3	(1
	g.	None	0	0	0	0	0	9	1	1	6	2	0	0	0	19	(7
	•	· · · · · · · · · · · · · · · · · · ·	10	25	0	6	0	116	9	22	81	2	0	3	0	274	(100
	a.	Poor facilities	17	165	4	71	2	26	16	16	41	24	142	29	33	586	(31
	b.	Lack of fund/machinery	2	81	5	55	1	4	3	4	19	5	25	6	15	225	(12
_	c.	Labor shortage	3	60	4	30	3.	31	7	4	44	4	5	0	5	200	(10
Others	d.	difficulty	0	7	1	13	0	2	1	3	1	0	0	1	11	- 40	(2
	e.	Natural disaster/ pest/diseases	20	207		135	· 8	19			106	17	132	50	56	805	(42
	f.	Others	0	9	0	4	1	2	0	0.	6	1	15	0	1	39	(2
	g.	None	0	5	1	2	3	3	. 1	2	9.	0	0	. 1	1	28	(1
			42	534	30	310	18	87	51	16	226	51	319	07	122	1,923	(10)

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

\*; No: No more continuation

Trans./sell: Transfer/sell to other persons Convert: Convert to permanent crop cultivation

Conversion of Paddy		Problems &	PR	KH	PP	PK	SG	NS	MA	4I	рн	TR	KN	SA	SK	Total	(%)
Fields		Difficulties	11	3211	11	1 17	20	145	. 19173	JIC	1 11	II	1711	90.	<u></u>	1 Out	(70)
	a. b.	Poor facilities Lack of	140	275	15	86	3	24	34	3	121	113	94	151	4	1,063	(2
2		fund/machinery	48	195	6	87	3	11	7	0	94	64	32	35	7	589	(1
1.1	с.	Labor shortage	32	109	9	52	1	44	22	1	160	22	7	21	2	482	(1
No	đ.	Marketing					_			_							ì
			- 15	21	4	27	0	2	2	2	6	5	0	17	3	104	(
	e.	Natural disaster/		· .							•						
	•	pest/diseases	108	487	29	211	21	37	41	6	275	181	100	230	. 7	1,733	(4
	f.	Others	15	15	· 0	5	1	3	2	0	11	5	9	8	0	74	(
	g.	None	6	9	2	6	· · 1	9	1	3	57	4	0	- 1	0	99	Ò
		· · · · · · · · · · · · · · · · · · ·	364	1,111	65	474	30	130	109	15	724	394	242	463	23	4,144	(10
	 	Poor facilities	3	8	0	7	1	10	7	0	4	0	25	1	1	67	(2
		Lack of	<b>ر</b>	0	U	. 1	1	10	. 1	v	**	v	20	1	T	07	(2
· .	υ.	fund/machinery	1	4	2	3	0	3	2	0	5	0	16	- 0	2	38	(1
	c.	Labor shortage	1	3	1	3	. 1	11	7	Ő	6	0	6	Ő	1	40	(1
Exp.		Marketing	1	5	1	3	· · 1	11	,	U	U	U	0	U	T	40	(1
Divers.	u.	difficulty	0	1	.0	0	0	2	2	0	0	0	1	0	1	7	(
DIACI2.	е.		. 0	· 1	.0		. 0	. 4	· · .			U	I	U	1	1	(
	e.	pest/diseases	2	13	2	11	0	: 4	6	0	10	0	38	0	2	88	(3
	f.	Others	1	0	õ	0	0	0	0	0	0	0	2	1	Ő	4	
		None	0	0	0	. 0	0	0	0	0	2	0		0	0	2	(
	g.	INOIIC						1975 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976			•						(
			8	29	5	24	2	30	24	0	27	0	88	2	7	246	<u> </u>
	a. b.	Poor facilities Lack of	36	32	- 4	20	0	52	67	3	36	44	65	5	3	367	(2
		fund/machinery	10	16	2	21	0	10	10	0	27	15	32	0	6	149	(1
	c.	Labor shortage	12	29	7	17	1	55	42	0	58	2	4	0	2	229	(1
Exp.	đ.	Marketing															-
Others		difficulty	7	4	1	4	0	4	4	0	3	3	3	0	0	33	(
	e.	Natural disaster/															
		pest/diseases	32	71	7	51	1	25	72	4	78	52	83	6	7	489	(3
	f.	Others	1	3	0	2	1	5	2	0	7	1	7	0	0	29	(
	g.,	None	7	2	1	0	2	8	0	1	16	1	0	. 1	0	39	(
		· · · · · · · · · · · · · · · · · · ·	105	. 157	22	115	5	159	197	8	225	118	194	12	18	1,335	(10
·	a.	Poor facilities	7	9	18	30	1	110	110	58	17	29	249	140	179	957	(2
	b.	Lack of															•
		fund/machinery	2	4	19	42	0	76	27	12	12	19	74	65	137	489	(1
	c.	Labor shortage	1	4	7	24	1	204	54	13	20	7	14	19	62	430	(1
No	đ.															-	`
	1	difficulty	2	1	4	11	0	9	12	9	2	0	4	17	92	161	(
	e.	Natural disaster/										-					
		pest/diseases	6	17	47	76	. 1	152	140	105	38	49	281	225	241	1,378	(3
•	f.	Others	Õ	0	0	1	Ō	15	- 4	3	2	1	15	11	12	64	()
	g.	None	0	. 1	.3	- 1	3	36	4	11	21	1	1	1	6	89	i

# Table B-10Problems or Difficulties Encountered in Farming Practicesby Intention of Paddy Field Conversion

Remarks: PR; Perlis, KH; Kedah, PP; P. Pinang, PK; Perak, SG; Selangor, NS; N. Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu; KN; Kelantan, SA; Sabah and SK; Sarawak

\*; No: No intention to convert paddy field

Exp. Divers.: Expecting to introduce crop diversification

Exp. Others: Expecting to convert into others

No Plan: No plan/no answer

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<u>(Q.801</u>	x Q.90																-
Full		Major											*** *	<b>a</b> 4		m . I	
Utilizat	ion	Concerns	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	<u>SA</u>	SK	Total	(%)
		<b>P</b> '	100	221	10	140	0	100	110	24	73	193	280	310	179	1,880	(31)
	a.	Finance	103	331	18	142	0	109	118	24			79			886	
	b.	Technique	45	139	12	68	0	23	88	12	24	78		186	132		(15)
Yes	с.	Marketing	43	210	14	113	0	33	100	23	27	134	242	98	175	1,212	(20)
	d.	Labor	24	145	11	71	8	103	76	23	69	64	79	64	28	765	(13)
	e.	Others	97	92	12	65	12	37	11	21	57	96	172	37	38	747	(12)
	f.	None	18	66	27	63	11	39	33	76	28	15	15	81	37	509	(9)
			330	983	94	522	31	344	426	179	278	580	867	776	589	5,999	(100)
	a.	Finance	5	38	3	55	0	149	94	4	238	20	55	15	31	707	(29)
	b.	Technique	2	12	4	22	0	32	70	2	60	3	19	11	17	254	(10)
No	c.	Marketing	3	24	4	38	1	46	68	2	92	13	37	10	24	362	(15)
	d.	Labor	2	9	9	- 38	5	186	76	3	286	9	8	7	9	647	(26)
	c.	Others	11	20	11	18	0	55	9	3	125	14	31	0	6	303	(12)
	f.	None	2	11	5	18	3	66	16	9	38	2	3	3	8	184	(8)
	<u> </u>		25	114	36	189	9	534	333	23	839	61	153	46	95	2,457	(100)

Table B-11Major Concerns to Introduce Other Crops in Paddy Fields<br/>by Incidence of their Full Utilization

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## Appendix C

Views of Opinion Leaders in Rural Communities

### Feasibility Study on Rationalization and Crop Diversification in Non-granary Irrigated Areas in Malaysia

## Volume 2

## Appendix C

## Socio-economic Survey (2)

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#### Appendix C

#### SOCIO-ECONOMIC SURVEY (2)

#### - Views of Opinion Leaders in Rural Communities -

#### C.1 Socio-economic Sample Survey

The objectives of the Socio-economic Sample Survey are to:

- Determine socio-economic characteristics of farmers by looking into their personal particulars, living circumstances and background of household members;
- Clarify problems and constraints faced by farmers in relation to farming operations;
- Confirm the farmers' preference and behavior towards the rationalization and crop diversification; and
- Provide the key data necessary for categorization of nongranary irrigation schemes.

To ensure the credibility of the sample survey and grasp a changing trend of rural community, the total target numbers of respondents were fixed at 4,700 for paddy farmers and 1,300 for local community opinion leaders through discussions with the Department of Irrigation and Drainage (DID) and the Ministry of Agriculture (MOA).

The above total sampling numbers were allocated according to the planted area of each scheme as below. Respondent opinion leaders were selected in areas where the respective non-granary irrigation schemes were located, while paddy farmers were selected in schemes presently planted with paddy and other crops.

Size of Planted	No. of	No. of Local
<u>Area in 1984 (ha)</u>	<u>Farmers</u>	<b>Opinion Leaders</b>
0	0	1 - 2
1 - 10	2	1 - 2
11 - 100	5	1 - 2
101 - 300	10	1 - 2
301 - 500	21	1 - 2
Over 500	28	1 - 2

In each scheme, farmers and opinions leaders were selected by simple random sampling. Finally, the total numbers of farmers and opinion leaders interviewed in this survey are 4,728 and 1,309, respectively, as shown below.

			the second second			
		Paddy F	armers	_Opinion_	Leaders	
		No. of	No. of	No. of	No. of	Total No.
	State	Schemes	Samples	Schemes	Samples	of Samples
1.	Perlis	22	242	22	40	282
2.	Kedah	61	654	78	115	769
3.	P. Pinang	8	100	- 15	31	131
4.	Perak	44	373	63	91	464
5.	Selangor	8	40	15	20	60
6.	N. Sembilan	103	504	158	200	704
7.	Melaka	54	311	57	116	427
8.	Johor	17	152	23	33	185
9	Pahang	155	631	279	321	952
10.	Trengganu	33	305	38	65	370
11.	Kelantan	72	597	76	125	722
12.	Sabah	41	499	53.	79	578
13.	Sarawak	34	320	38	73	393
	Total	<u>652</u>	<u>4,728</u>	<u>915</u>	<u>1.309</u>	6.037

#### C.2 Profile and Position of Opinion Leaders in Rural Communities

The Socio-economic Sample Survey for 1,309 opinion leaders is carried out to collect the reliable supporting data necessary for the formulation of the future desirable direction of the crop diversification.

Of 1,309 opinion leaders, 85% are more or less engaging in agricultural activities and their living expenses depend partly to fully on the income from agriculture as shown in Table C-1 (1/6) and summarized below:

Living Sources	No. of Respo	nses (%)	
Depending fully on agricultural activities	611	(47)	
Depending mainly on agricultural activities with regular incomes from non-agricultural sectors	234	(18)	
Depending partly on agricultural activities with main income sources from non-agricultural sectors	266	(20)	
Depending fully on non-agricultural activities		(15)	
Total	1,309	(100)	

As to the age distribution of opinion leaders, 80% of them are over 46 years of age as shown in Table C-1 (1/6). Neither their educational level nor land tenure status constitute the conditions to be opinion leaders in the rural communities as shown in Table C-1 (2/6). With regard to the holding size of farm lands, opinion leaders who possess more than 1.2 ha account for 64%, while 21% own no more than 1.2 ha. The holding size of paddy field ranges also widely, but 45% have paddy fields between 0.4 and 1.5 ha as shown in Table C-1 (4/6).

To the question whether the opinion leaders who are more or less engaged in agricultural activities hope for succession of farm operations by their household members, 64% answer "yes", while 36%in the negative as shown in Table C-1 (4/6). This proportion is similar to that of paddy farmers. The same results was obtained for the number of candidate successors and future mode of farm operations as shown in Tables C-1 (5/6) and C-1 (6/6).

Seeing such identical responses, it can be said that opinion leaders represent rightly the views of the paddy farmers in their areas.

To another question whether the opinion leaders think about possibility of changing paddy farmers' behavior in promoting modern farming technology, 58% of them answer "possible", if the following items are assured to motivate the paddy farmers, especially young generation:

- More profit and income,
- Introduction of modern machines and technology, and
- Cultivation of more profitable crops with faster yield and less manpower.

The influence of position of opinion leaders in the rural communities are indicated in Table C-1 (6/6) and summarized below:

Influence	No. of Responses (%)
Possible	755 (58)
Limitedly possible	226 (17)
Impossible	306 (23)
No comment	22 (2)
Total	1,309 (100)

Opinion leaders who reply "limitedly possible" give reasons such as manpower problem, lack of farmers' interest on farming, anxiety about the level of technology to be introduced, and uncertainty to change the farmers' attitude. While, those who answer "impossible" point out reasons such as difficulty to change farmers' attitude because of their special attachment to paddy cultivation, lack of manpower, unsuitability of land for other crops than paddy, and old aging of farmers and loss of courage for farming.

C-3.

#### C.3 Opinion Leaders' Views on the Present Agricultural Development Condition and Crop Diversification

To the question whether opinion leaders know that DID is maintaining its constructed irrigation and drainage facilities in your area. 66% of them say "yes and well known", followed by 27% for "yes but not in detail" and 7% for "no" as shown in Table C-2 (1/14). With regard to the facilities conditions, those who say "well maintained" are only 48% for irrigation and 43% for drainage. As compared to paddy farmers' responses accounting for 70%, this result indicates severe judgement of opinion leaders.

About DID's operation and management works of the facilities, 37% of the opinion leaders say that farmers are satisfied with their works, followed by 34% of "yes, but sometimes not sufficient" as shown in Table C-2 (2/14). While, 30% of them answer "no, quite dissatisfied" due to DID's labor shortage and/or financial limitations.

When asked about the understanding of opinion leaders on the present situation as to how farmers utilize irrigated paddy fields, 67% say that farmers are fully or partly engaging in paddy cultivation, while 33% answer "stopped paddy cultivation and already converted to other crop" or "full abandoned it and left as idle land" as shown in Table C-2 (3/14) and summarized below.

	Items		untry al (%)	States with Higher Incidence (%)
a.	Fully utilizing for paddy cultivation	367	(30)	Sabah (81), Kedah (62), P. Pinang (53), Perak (43), Kelantan (38)
b.	Still utilizing for paddy cultivation, but being faced with increasing trend of abandoned paddy field	383	(32)	Trengganu (64), Kelantan (52), N. Sembilan (43), Perak (36), Melaka (35), Johor (34)
c.	Undertaking paddy cultivation for the main season and cash crop growing for the off-season	65	(5)	Perlis (36), Sarawak (16), Sabah (10), Trengganu (7)
d.	Stopped paddy cultivation and already converted to tree or other cash crop areas	126	(10)	Selangor (55), N. Sembilan (31), Melaka (14), Sabah (14)
e.	Fully abandoned and left as idle land	279	(23)	Pahang (63), P. Pinang (33), Melaka (25), Johor (25)
	Total No. of Respondents	1,220	(100)	

About the incidence of idle paddy fields, 70% of opinion leaders answer "yes, knowing it". Besides, 88% consider that it is not good to increase the idle paddy fields in their areas as shown in Table C-2 (3/14). Those who consider to increase the incidence of idle paddy fields are relatively high in the States of Perlis, Kelantan and Sabah, as shown in Table C-2 (4/14), where paddy farmers attach to paddy cultivation to a large extent. As reasons of existence of the idle paddy fields, 566 opinion leaders give the following 1,174 reasons and the breakdown by State is shown in Table C-2 (4/14).

	Reason	No. of Responses (%)	L
a.	Shortage of manpower	566 (100)	
b.	Low profitability of paddy cultivation/ land is not suitable for growing paddy	77 (13)	
c.	Lack of drainage facilities/flood	109 (20)	
d.	Insufficient water supply/lack of irrigation facilities	278 (50)	
e.	Rats, pests, birds, insects, diseases	66 (11)	
f.	Salty water/water pollution	9 (2)	
g.	Shortage of capital/poor mechanization	19 (4)	
h.	Others	50 (9)	
	Total (No. of respondents: 566)	1,174 (207)	

About the data collected from opinion leaders on the present condition of converted paddy fields, they serve to corroborate the views expressed by farmers as shown in Table C-2 (5/14).

To the question whether opinion leaders have any plan to utilize the idle land, their answers are shown in Table C-2 (5/14) and summarized below. In the future plan to utilize the idle land, those who answer "conversion to tree crop" occupy 35%. However, those who answer "no plan" account for 32%. The decision making system of conversion plan is reported to be different from area to area. Of opinion leaders, 51% say that farmers take initiative or decide themselves in preparation of conversion plan as shown in Table C-2 (6/14).

<u>.</u>	Utilization Plan	Cou Total		States with Higher Incidence (%)
a.	Conversion to tree crop	318	(35)	N. Sembilan (71), P. Pinang (64), Johor (64), Melaka (48)
b.	Conversion to non-farm land	26	(3)	Sarawak (23), Sabah (15), Pahang (4)
c.	Conversion to upland crop	45	(5)	Sarawak (28), Sabah (25), Trengganu (9)
đ.	Conversion to fish culture pond	61	(7)	Pahang (15), Kelantan (9)
e.	Others	199	(22)	Kedah (41), Perak (36), Trengganu (36), Melaka (30)
f.	No pian	291	(32)	Kelantan (69), Perlis (67), Trengganu (55), Sarawak (33)
	Total No. of Responses	940	(103)	
	No. of Respondents	917		

C-5

With regard to farmers' intentions towards irrigated paddy cultivation in the future, opinion leaders consider that 60% of farmers will continue the paddy cultivation and 23% of them will stop it sooner or later as shown in Table C-2 (7/14) and summarized below:

			intry 1 (%)	States with Higher Incidence (%)
a.	Positive continuation of paddy cultivation (95),	787	(60)	Perlis (98), Sabah (97), Kelantan
	×		· · · ·	Kedah (88), Trengganu (83)
b.	Negative continuation of paddy cultivation	295	(23)	Selangor (50), N. Sembilan (45), Pahang (31), Johor (30)
c.	Stop to grow paddy cultivation and leave paddy field abandoned	49	(4)	Johor (12), Sarawak (8), Melaka (7)
. <b>d.</b>	Permanent conversion to crop cultivation	205	(16)	Selangor (35), N. Sembilan (30), Melaka (30), Johor (27)
e.	Permanent conversion to fish culture pond	46	(4)	Sarawak (12), Pahang (9)
f.	Introduction of cash crop cultivation	46	(4)	P. Pinang (10), Sarawak (7), Pahang (6), Sabah (6)
g.	No comment	. 8	(1)	
	Total No. of Responses	1,436	(110)	
	No. of Respondents	1,309		an an tha an

As expected, positive continuation of paddy cultivation is predicted by opinion leaders in the rice growing States such as Perlis, Kedah and Kelantan. On the contrary, the negative prospect of "no continuation of paddy cultivation" is observed in the States of Selangor, Negeri Sembilan, Pahang and Johor. It is supposed that urbanization pressure primarily acts as a cause of its non-continuation in the first two States, while there exist physical constraints such as lack of irrigation water or poor drainage in the latter two States.

The survey data also indicate that 58% of opinion leaders consider that farmers in their areas have no intention towards conversion to other crop fields, while 31% are more or less expecting it as shown in Table C-2 (8/14).

As to the drainage facilities, farm roads and other related facilities, their improvement in general is strongly required in Sabah and Sarawak. In the Peninsula, Melaka and Perlis shows the relatively higher rates of expectations for improvement of drainage facilities as shown in Tables C-2 (9/14) to C-2 (11/14).

On the question of the expected beneficial effects by growing other crops than paddy, opinion leaders give the following answers in order of frequency and as shown in Table C-2 (12/14).

Beneficial Effects	Responses (%)
Income increase	1,010 (77)
Stable revenue	436 (33)
Leveling up of living standard	392 (30)
Creation of employment opportunity	290 (22)
Nothing special	189 (14)
Others	15 (1)
Total No. of Responses	2,332 (178)
No. of Respondent	1,309

To the question what are your concerns to introduce crop diversification in the paddy fields, 58% of opinion leaders indicate "finance", followed by labor chosen by 45%, marketing by 42%, technique by 32% and others by 25% as shown in Table C-2 (13/14) and summarized below. In general, opinion leaders consider the situations more seriously and above all are concerned with labor shortage next to financial constraints.

	Concerns	Country <u>Total (%)</u>	States with Higher Incidence (%)
a.	Finance	755 (58)	Kelantan (78), Melaka (74)
b.	Technique	420 (32)	Melaka (63)
c.	Marketing	554 (42)	P. Pinang (68), Sarawak (67), Trengganu (63)
đ.	Labour	587 (45)	N. Sembilan (67), Mclaka (66) Selangor (65), Pahang (65)
e.	Others	329 (25)	Trengganu (57)
f.	None	147 (11)	Johor (39)
	Total No. of Responses	2,792 (213)	
	No. of Respondents	1,309	
	· · · · · ·	1	

To this final question what are your suggestions/opinions on the rationalization and crop diversification, a number of opinion leaders stress on the importance of Government assistance to realize the crop diversification. In general, their suggestions/opinions were similar to those expressed by farmers and served to corroborate the views expressed by them as shown in Table C-2 (14/14).

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Tables

Ťte	em		PR	кн	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	<u>nber (%</u> Total
		~~~~~			· · ·											
ľ	NCOME SOU	JRCES	(Q.111	0)												
а	. Depending	fully	18	62	18	61	2	55	23	- 24	123	. 17	106	- 49	53	61
	on agriculti activities	ıral	(45)	(53)	(58)	(66)	(10)	(28)	(20)	(73)	(39)	(26)	(85)	(63)	(73)	(4
b	. Depending				0	16	5	42	21	4	75	20	3	16	11	23
	on agricultu activities w regular inco	ith	(25)	(10)	(0)	(18)	(25)	(21)	(18)	(12)	(23)	(31)	(2)	(20)	(15)	(1
	from non-		· .			••		-	·							
	agricultural sectors		· .		1											
с	. Depending		11	11	6	6	7	72	28	3	64	26	15	13	4	20
	on agricultu activities w		(28)	(10)	(19)	(7)	(35)	(35)	(24)	(9)	(20)	(40)	(12)	(16)	(5)	(2
	main incom		•			÷										
	sources from non-agricul			:	·											
d	sectors Depending	fullv	1	31	7	8	6	31	44	2	59	2	1	1	5	1
	on non- agricultural actitvities	•	(2)	(27)	(23)	(9)	(30)	(16)	(38)	(6)	(18)	(3)	(1)	(1)	(7)	(1
'n			40	1.10		01	<b>0</b> 0	,			201		100	70		1.0
	otal No. of Respondents		40 (100)	115	(100)	91 (100)	20 (100)	200	116 (100)	33	321	65 (100)	125 (100)	79 (100)	73 (100)	1,30 (10
	F		()	()	(****)	(200)	()	(200)	(200)	()	(100)	(200)	(200)	(200)	(100)	(10
A	GE DISTRI	BUTION	I OF O	PINIO	N LEA	DERS	(Q.110	01)							-	
a	. 18~25		0	. 1	1	1	0	0	1	. 0	0	0	0	1	0	
h	. 26~35	1. 12 1.	(0) 3	(1)	(3)	(1)	· (0)	(0)	(1) 8	(0) 2	(0)	(0) 5	(0)	(1)	(0) 5	(
U	, 20 ~ 33 ⇒		(7)	6 (5)	0 (0)	(4)	(0)	9 (5)	(7)	(6)	10 (3)	(8)	(8)	16 (20)	(7)	. (
c	. 36 ~ 45		8		2	- 7	Ŭ Û		18	4	31	12	- 38	17	14	1
_			(20)	(21)	(6)	(8)	(0)	(6)	(16)	(12)	(10)	(18)	(30)	(22)	(19)	(1
d	. 46 ~ 55	· · ·	17	54	16	45.	6	52	47	18	146	30	51	29	25	5
~	Above 55	- 1 - F		(47)		(50)	(30)	(26)	(40)	(55)	(45)		(41)	(37)	(34)	. (4
ę	. AUVC 33		12 (30)	30 (26)	12 (39)	34 (37)	14 (70)	128 (63)	42 (36)	9 (27)	134 (42)	18 (28)	26 (21)	16 (20)	29 (40)	5) (3
Т	otal No. of		40	115	31	91	20	200	116	33	321	65	125	79	73	1,3
	Respondents								(100)							(10

Table C-1Profile of Opinion Leaders in Rural Communities<br/>and their Perception on Agricultural Development (1/6)

							·							Uı	it: Nu	mber (%)
]	Item		PR	КĦ	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
3.	EDUCA	TIONAL LE	VEL OI	7 OPIN	ION L	EADE	RS (Q.	1105)	·		· · · · ·				na Na Mila Na Mila	· · ·
	a. No so	chooling	2 (5)	11 (10)	2 (6)	(8)	0 (0)	1 (0)	(3)	3 (9)	14 (5)	21 (32)	36 (29)	20 (25)	23 (32)	144 (11)
	b. Prim	ary	30	75	22	69	20	181	79	26	266	38	75	36	39	956
	c. Form	n 1~3	(74) 6	(65) 6	(71) 4	(76) 5	(100)	(91) 10	(69) 11	(79) 1	(83) 16	(58) 4	(59) 5	(46) 20	(54) 8	(73) 96
	d. Form	4~5	(15)	(5) 7	(13)	(5) 8	(0)	(5)	(9) 15	(3)	(5) 15	(6)	(4) 7	(25)	(11)	(7) 69
			(3)	(6)	(10)	(9)	(0)	(4)	(13)	(3)	(5)	(2)	(6) 1	(4)	(1) 1	(5)
	e. Form		0 (0)	2 (2)	0 (0)	1 (1)	0 (0)	0 (0)	0 (0)	. 0 (0)	(0)	(0)	(1)	(0)	(1)	(1)
. *	f. Colle	ege level	0 (0)	5 (4)	0	1 (1)	0 (0)	(0)	4 (3)	(6)	4 (1)	0 (0)	0 (0)		1 (1)	18 (2)
	g. Voca	ational level	) (0)		) (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (0)	0 (0)	0 (0)	0 (0)	(0)	· · 1
	h. Relig	gious school	1	8	Ó	(0) (0)	0	0	(0) 2 (2)	(0) (0)		(2)	(i) (1)	0	) (0)	17 (1)
	i. Univ	versity	(3) 0 (0)	1	(0) 0 (0)	(0) 0 (0)		Ó	(2) 1 (1)	(0) 0 (0)	(1) 0 (0)	(2) 0 (0)	(1) 0 (0)	Ó	(0) (0)	2 (0)
-	Total N Respon		40 (100)	115 (100)	31 (100)	91 (100)	20 (100)	200 (100)	116 (100)	33 (100)	321 (100)	65 (100)	125 (100)	79 (100)	73 (100)	1,309 (100)
•				1.:												
4.	LAND	TENURE STA	ATUS (	Q.1207	) )				: • .		· · ·		·	н 	· · · ·	·
	a. Own	er operator	30 (75)	62 (54)	15 (48)	68 (75)	13 (65)	94 (47)	66 (57)	29 (88)	227 (71)	54 (83)	103 (82)	70 (89)	63 (86)	894 (68)
	b. Tena	int	2	13	7	( <i>15</i> ) (15)	1	63	5	2	16	5	14	(0)	3	152
	c. Own	er - Tenant	(5) 7	(11)	(23) 2	1	(5)	(32) 12	(4)	(6) 0	(5) 19	(8)	(11)	1	(4) 2	(12)
	d. No a	nswer	(18) 1 (2)	(8) 31 (27)	(6) 7 (23)	(1) 8 (9)	(0) 6 (30)	(6) 31 (15)	(2) 43 (37)	(0) 2 (6)	(6) 59 (18)	(6) 2 (3)	(5) 2 (2)	(1) 1 (1)	(3) 5 (7)	(5) 198 (15)
	Total N		40	115	31	91	20	200	116	33	321	65	125	79	73	1,309
1 e	Respond	lents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)

## Table C-1Profile of Opinion Leaders in Rural Communities<br/>and their Perception on Agricultural Development (2/6)

												Un	it: Nur	nber (%)
Item	PR	КН	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA.	SK	Total
5. SIZE OF TOTAL FA	ARM LA	ND (Q	.1208)							·				
a. Less than 0.4 ha	0 (0)	4 (3)	0 (0)	5 (5)	1 (5)	7	9 (8)	2 (6)	7 (2)	2 (3)	2 (2)		2	41
b. 0.4 ~ 0.7 ha	3	4	6	10	- 5	(4) 12	17	2	10	11	. 9	(0) 3	(3) 0	(3) 92
c. 0.8 ~ 1.1 ha	(7)	(3) 11	(19)	(11) 16	(25) 5	(6) 19	(15)	(6) 5	(3)	(17) 12	(7) 25	(4) 4	(0) 7	(7) 143
	(13)		(19) 2	(17)	(25)	(10)	(13)	(15)		(18)	(20)	(5)	(10)	(11)
d. 1.2 ~ 1.5 ha	6 · (15)	6 (5)	- (6)	(12)	- 0 (0)	26 (13)	(6)	5 (15)	18 (6)	7 (11)	14 (11)	· 7 (9)	(4)	112 (9)
e. 1.6 ~ 20 ha	7 (18)	16 (14)	1 (4)	6 (7)	(5)	24 (12)	· 11 (9)	3 (9)	_35 (11)	· 9 (14)	15 (12)	7 (9)	1 (1)	136 (10)
f. 2.1 ~ 4.0 ha	16	21	7	18	2	61	11	10	87	14	<u>3</u> 9	21	16	323
g. 4.1 ~ 6.0 ha	(40) 2	(18) 15	(23)	(20) 9	(10) 0	(30) 10	(9) 0	(31)	(27) 55	(21)	(30) 12	(27)	(22)	(25) 142
h. More than 6.0 ha	(5) 0	(13) 7	(6) - 0	(10)	(0) 0	(5) 10	(0) 2	(9)	(17) 36	(8)	(10) 6	(18)	(19) 25	(11) 118
	(0)	(6)	(0)	(8)	(0)	(5)	(2)	(3)	(12)	(5)	(5)	(27)	(34)	(9)
i. Don't Know	0 (0)	0 (0)	0 (0)	(1)	.0 (0)	0 (0)	(1)	0 (0)	(0)	0 (0)	1 (1)	0 (0)	0 (0)	4 (0)
j. No Answer	1 (2)	31 (28)	7 (23)	) (9)	6 (30)	31 (15)	43 (37)	2 (6)	59 (18)	2 (3)	2 (2)	(1)	5 (7)	158 (15)
Total No. of	40	115	31	91	20	200	116	33	321	65	125	79	73	1,309
Respondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)

## Table C-1Profile of Opinion Leaders in Rural Communities<br/>and their Perception on Agricultural Development (3/6)

			5. 									Ur	it: Nu	nber (%)
Item	PR	КН	PP	РК	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
6. SIZE OF TOTAL PA	DDY F	IELD (	Q.1209	))						·				
a. Less than 0.4 ha	2 (5)	10 (9)	0 (0)	6 (7)	3 (15)	8 (4)	8 (7)	5 (15)	26 (8)	1 (2)	5 (4)	· 1 (1)	2 (3)	77 (6)
b. 0.4 ~ 0.7 ha	2 (5)	15 (13)	5 (16)	24 (26)	1 (5)	36 (18)	23 (20)	6 (18)		20 (30)	20 (16)	9 (11)	7 (10)	198 (15)
c. 0.8 ~ 1.1 ha	10 (25)	13 (11)	6 (20)	19 (21)	0 (0)		18 (16)	5 (15)	65 (20)	15 (23)		18 (22)	24 (33)	265 (20)
d. 1.2 ~ 1.5 ha	9 (22)	11 (10)	(3)	8 (9)	0 (0)	13 (7)	5 (4)	2 (6)	36 (12)	8 (12)	16 (13) 25	15 (19) 14	9 (12)	133 (10)
<ul> <li>c. 1.6 ~ 2.0 ha</li> <li>f. 2.1 ~ 4.0 ha</li> </ul>	5 (13) 11	12 (10) 11	(6) 5	6 (7) 5	1 (5) 0	11 (6) 2	2 (2) 4	(4) 3	34 (11) 16	(11) 10	(20) 13	(18) 15	8 (11) 8	128 (10) 103
g. $4.1 \sim 6.0$ ha	(28)	(10)	(16)			(1)	(3)	(9)	(5)	(15)	(10)	(19) 2	(11)	(8)
h. More than $6.0$ ha	(0) 0	(4)	(0) 0	(2) 0	(5)	(0)	(1) 0	(9) 0	(1)	(2)	(2) 0	(3)	(4) 3	(2)
i. None	(0) 0	3	(0) 5	(0) 13		(0) 67	(0) 12	(0) - 6	(0) 50	(0) 1	(0) 1	(3)	(4) 4	(1) 172
j. No answer	(0) 1 (2)	(3) 31 (27)	(16) 7 (23)	(14) 8 (9)	(40) 6 (30)	(33) 31 (15)	(10) 43 (37)	(18) 2 (6)	(16) 59 (18)	(2) 2 (3)	(1) 2 (2)	(3) 1 (1)	(5) 5 (7)	(13) 198 (15)
Total No. of Respondents	40 (100)	115 (100)	31 (100)	91 (100)	20 (100)	200 (100)	116 (100)	33 (100)	321 (100)	65 (100)	125 (100)	79 (100)	73 (100)	1,309 (100)
	in in The second	·	• • •	na Na Na		200 1944 -		•						ter 1
7. HOPE FOR SUCCE	SSION	OF FAI	rm op	ERAT	IONS	BY HC	USEH	OLD N	<b>IEMB</b>	ERS (Q	2.1204)	) 1.1		
a. Yes	21 (54)	52 (62)	18 (75)	40 (49)	6 (43)	93 (55)	50 (69)	18 (58)	154 (59)	47 (74)	96 (78)	56 (72)	56 (82)	707 (64)
b. No	18 (46)	32 (38)	6 (25)	41 (49)	(57)	75 (44)	22 (31)	13 (42)	108 (41)	15 (24)	27 (22)	21 (27)	12 (18)	398 (36)
c. No answer	) (0)	) (0)	) (0)	2 (2)	0 (0)	1 (1)	) (0)	0 (0)	) (0)	í (2)	) (0)	) j (1)	0 (0)	5 (0)
No. of Respondents	39 (100)	84 (100)	24 (100)	83 (100)	14 (100)	169 (100)	72 (100)	31 (100)	262 (100)	63 (100)	123 (100)	78 (100)	68 (100)	1,110 (100)

### Table C-1 Profile of Opinion Leaders in Rural Communities and their Perception on Agricultural Development (4/6)

Item	PR	кн	PP	РК	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
NUMBER OF CAND	IDATE	SUCC	ESSO	R(S) ((	2.1205	a)								
a. 1 person	- 9	30	11	20	. 1	40	35	10	72	28	- 59	6	10	33
	(43)	(58)	(61)	(50)	(17)	(43)	(70)	(56)	(47)	(60)	(62)	(11)	(18)	(47
b. 2 persons	7	14	2	14	4	23	12	7	55	12	31	24	15	220
이 말 못 하는 것은 것이다.	(33)	(27)	(11)	(35)	(66)	(25)	(24)	(39)	(36)	(26)	(32)	(42)	(27)	(31)
<li>c. 3 persons</li>	3	5	3	4	. 1	્રઉ	2	. 0	17	. 2	6	8	11	68
	(14)	(10)	(17)	(11)	(17)	(6)	(4)	(0)	(11)	(4)	(6)	(14)	(20)	(10)
d. 4 persons	· 0	3	2	0	0	10	1	0	4	3	0	6	6	35
	(0)	(5)	(11)	(0)	(0)	(11)	(2)	(0)	(3)	(6)	(0)	(11)	(11)	(5)
e. 5 persons	2	0	0	1	. 0	9	0	. 0	2	2	0	6	8.	30
	(10)	(0)	(0)	(2)	(0)	(10)	(0)	(0)	(1)	(4)	(0)	(11)	(14)	(4)
f. 6 persons	0	0	0	1	0	2	. 0	1	2	0	0	4	2	12
	(0)	(0)	(0)	(2)	(0)	(2)	(0)	(5)	(1)	(0)	(0)	(7)	(3)	(2)
g. 7 persons	· • 0	. 0	0	. 0	- O	1	0	· · 0	0	- 0	0	0	1	2
	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)
h. 8 persons	0	0	· · 0	- <b>0</b> -	0	0	( <b>0</b> )	0	0	0	0	0	2	2
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)
<ol> <li>9 persons</li> </ol>	0	0	0	0	0	0	0	0	2	0	0	2	1	5
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(4)	(2)	(1)
j. 10 persons	0	0	0	0	0	1	0	0	0	0	0	0	0	1
,	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
k. Above 10 persons	0	0	0	0	0	1	0	- <b>O</b>	0	0	0	0	0	1
	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
No. of	21	52	18	40	6	93	50	18	154	47	96	56	56	707
Respondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)

Table C-1	Profile of Opinion Leaders in Rural Communities
•	and their Perception on Agricultural Development (5/6)

								<u></u>					u	U	it: Nu	nber (%)
	Item		PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
9.	FUTURE MODE (	)FF	ARM	OPER.	ATION	IS (Q.1	206)	· .					<sup>1</sup>		• • •	
	<ul> <li>a. As full time farmer</li> <li>b. As part time farmer</li> <li>c. As land owner with full time job other than agriculture</li> <li>d. No intention</li> </ul>		4 (19) 17 (81) 0 (0) 0 (0)	19 (36) 31 (60) 2 (4) 0 (0)	5 (28) 11 (61) 2 (11) 0 (0)	22 (55) 18 (45) 0 (0) 0 (0)	0 (0) 5 (83) 0 (0) 1 (17)	24 (26) 49 (53) 18 (19) 2 (2)	10 (20) 32 (64) 8 (16) 0 (0)	7 (39) 5 (28) 6 (33) 0 (0)	78 (51) 68 (44) 5 (3) 3 (2)	15 (32) 32 (68) 0 (0) 0 (0)	42 (44) 44 (46) 9 (9) 1 (1)	47 (84) 15 (27) 0 (0) 0 (0)	50 (89) 9 (16) 0 (0) 2 (4)	323 (46) 336 (48) 50 (7) 9 (1)
	Total No. of Responses*		21 (100)	52 (100)	18 (100)	40 (100)	6 (100)	93 (100)	50 (100)	18 (100)	154 (100)	47 (100)	96 (100)	62 (111)	61 (109)	718 (102)
	No. of Respondents	•	21	52	18	40	6	93	50	18	154	47	96	56	56	707
10.	INFLUENCE OF (	)PII	NION	LEAD	ER TO	CHAN	IGE B	EHAV	IOUR	OF PA	DDY F	ARMI	ERS (Q	.1503(	1))	
:	<ul> <li>a. Possible</li> <li>b. Limitedly possible</li> <li>c. Impossible</li> <li>d. No comment</li> </ul>		29 (73) 5 (13) 6 (14) 0 (0) 40	52 (45) 13 (11) 50 (44) 0 (0)	17 (56) 2 (6) 11 (35) 1 (3) 21	81 (89) 2 (2) 8 (9) 0 (0)	9 (45) 9 (45) 2 (10) 0 (0)	74 (37) 28 (14) 0 (0)	66 (57) 9 (8) 41 (35) 0 (0)	19 (58) 1 (3) 13 (39) 0 (0) (0)	73 (23) 19 (6)	13 (20) 0 (0)	55 (44) 21 (17) 49 (39) 0 (0)	55 (69) 14 (18) 10 (13) 0 (0) 70	58 (79) 11 (15) 2 (3) 2 (3) 2 (3)	755 (58) 226 (17) 306 (23) 22 (2)
	Total No. of Respondents		40 (100)	115 (100)	31 (100)	91 (100)	20 (100)	200 (100)	11 <u>6</u> (100)	33 (100)	.321 (100)	65 (100)	125 (100)	79 (100)	73 (100)	1,309 (100)

## Table C-1Profile of Opinion Leaders in Rural Communitiesand their Perception on Agricultural Development (6/6)

Remarks: PR; Perlis, KH; Kedah, PP; Pulau Pinang, PK; Perak, SR; Selangor, NS; Negeri Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu, KN; Kelantan, SA; Sabah, and SK; Sawarak

\*; Multiple answers are given.

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													Unit	: Num	ber (%)
	Item	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
1.	OPINION LEADERS'	PERCEPTI	ON AE	OUT	DID W	ORKS	(Q.13	01)							
	a. Yes and	34	69	23	63	20	182	51	29	196	29	91	46	36	86
	well known	. (85)	(60)	(74)	(69)	(100)	(90)	(44)	(88)	(61)	(44)	(73)	(58)	(49)	(66
-	b. Yes but not	. 5	42	- 7	23	0	1	55	3	86	27	34		37	35
	in detail	(13)	(37)	(23)	(25)	(0)	(1)	(47)	(9)	(27)	(42)	(27)	(39)	(51)	(2)
	c. No	1	4	1	5	0	17	10	· 1	39	9	0	2	0	8
		(2)	(3)	(3)	(6)	· (0)	(9)	(9)	(3)	(12)	(14)	(0)	(3)	(0)	(7
	Total No. of	40	115	31	91	20	200	116	33	321	65	125	79		1,30
	Respondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(10(
· '	t'		1.5	• •											
2.	CONDITION OF IRRI	GATION F			-					÷_					
	a. Well maintained	- 12	57	18	50	15	92	63	16	130	19	58	- 33	17	58
		(31)	(51)	(60)	(59)	(75)	(50)	(59)	(50)	(47)	(34)	(45)	(43)	(23)	(48
	b. Structures	13	18		16	0	42	23	5	. 47	.7	27	11	27	23
	broken	(33)	(16)	(3)		(0)	(23)	(22)	(16)	(17)	(13)	(22)	(14)	(37)	(19
	c. Canal broken	13	21	5	8	1	21	.7	3	23	9	14	27	15	16
	4 - 64	(33)	(19)	(17)	(9)	(5)	(11)	(7)	(9)	(8)	(15)	(11)	(35)	(21)	(14
	d. Canal deposited	7	17 (15)	5 (17)	9 (10)	0	45 (24)	9	1	32	4	2	-	26	16
	e. Noe enough	(18)	• •	• •		(0)	(24)	(8)	(3)	(11)		(2)	(9) 2	(36)	(1)
	water	(0)	(4)	(0)	-	(0)	(3)	(0)	-	(1)		(16)		(4)	(
	f. Not good/	2	5	0		2	16	3	7	68	4	1	1	0	11
	Unsatisfactory	(5)	(5)	(0)	(2)	(10)	(9)	(3)	(22)	(24)	-	(1)	(1)	(0)	(
	g. Others	- 1	2	1	1	2	2	2	2	1	13	9		1	4
		(3)	(2)	(3)	(1)	(10)	(2)	(2)	(6)	(0)	(24)	(8)	(4)	(1)	· (
	Total No. of	48	124	39	86	20	224	107	34	304	61	131	84	89	1.34
	Responses*	(123)	(112)	(100)	(100)						(109)		(109)	(122)	(11)
. '	No. of	39	111	30	86	20	183	106	32	282	56	125	77	73	1,22
	Responses	· · ·													

Table C-2Opinion Leaders' Views on Present Agricultural<br/>Development Condition and Crop Diversification (1/14)

Remarks: PR; Perlis, KH; Kedah, PP; Pulau Pinang, PK; Perak, SR; Selangor, NS; Negeri Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu, KN; Kelantan, SA; Sabah, and SK; Sawarak

\*; Multiple answers are given.

													Unit	: Num	$\operatorname{ber}(w)$
	Item	PR	КН	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
	CONDITION OF DRA	AINAGE CO	NTRO	L FAC	HILLILLE	ES (Q.1	304)	5 <sup>-</sup> 5				· ·			· ·
	a. Well maintained	13	52	17	51	14	87	61	18	106	28	30	37	16	530
	a, won mannamou	(33)	(47)	(57)	(60)	(70)	(48)	(58)	(56)	(38)	(49)	(24)	(48)	(22)	(44
	b. Canal deposited	11	26	6	22	2	. 66	16	3	39	10	6	27	40	274
	o. Canar deposited	(28)	(22)	(20)	(26)	(10)	(36)	(15)	(9)	(14)	(18)	(5)	(35)	(55)	(23
	c. Stop log/	16	22	5		- 0	14	19	5	53	ેં ઉ	8	12	22	18
		(41)	(20)	ं <u>(</u> 17)	(10)	(0)	(7)	(18)	(16)	(19)	(5)	(6)	(15)	(30)	(15
	gate broken		15	1	2	4	13	9	(10)	82	11	25	2	2	17
	d. Unsatisfactory/	0		-			(7)	(8)	(19)	(29)	(19)	(20)	(2)	(3)	: (14
1	not good	(0)	(14)	(3)	(2)	(20)	2	0	0	(25)	· 2	47	- 0	:0	5
	e. No water in	0	0	1	-	0	_	-	-	-			-	-	-
	the drain/drain is dry	(0)	(0)	(3)	(0)	(0)	(1)	(0)	(0)	(0)	(4)	(38)	(0)	(0)	(4
	f. Others	1	2	1	2	0	3	5	1	15	6	.11	4	1	5
		(3)	(2)	(3)	(2)	(0)	(2)	(5)	(3)	(5)	(12)	(9)	(6)	(1)	(4
	Takal bia af	41	117	31	86	20	185	110	33	295	60	127	82	81	1,26
	Total No. of Responses*	(105)		(103)			(101)			(105)		(102)	(106)	(111)	(104
		(100)	(,		()	()					• •				-
	No. of Respondents	39	111	30	86	20	183	106	32	282	56	125	77	73	1,22
	Respondents														
		* . * .											· ·		
					•			. 7	· ·			. * *	· ·		
	RATING OF DID'S O				GEMI	ENTW	ORKS	OF IR	RIGA	FION	. ·	. *	· ·		-
	RATING OF DID'S O AND DRAINAGE FA				GEMI	ent w	ORKS	OF IR	RIGA'	rion		. *			-
	AND DRAINAGE FA	ACILITIES (	Q.1305	)		•	. **				17	60	23	15	45
		ACILITIES (	Q.1305 47	) 19	52	15	58	35	10	84	17 (30)	60 (48)	23 (29)	15 (21)	
	AND DRAINAGE FA	CILITIES ( 22 (56)	Q.1305 47 (42)	) 19 (63)	52 (60)	15 (75)	58 (32)	35 (33)	10 (31)	84 (30)	(30)	(48)	(29)	(21)	(37
	AND DRAINAGE FA a. Yes, satisfactory b. Yes, but	CILITIES ( 22 (56) 8	Q.1305 47 (42) 43	) 19 (63) 11	52 (60) 25	15 (75) 3	58 (32) 57	35 (33) 50	10 (31) 13	84 (30) 98	(30) 14	(48) 49	(29) 22	(21) 20	(37 41
	<ul> <li>AND DRAINAGE FA</li> <li>a. Yes, satisfactory</li> <li>b. Yes, but sometimes</li> </ul>	CILITIES ( 22 (56)	Q.1305 47 (42)	) 19 (63)	52 (60)	15 (75)	58 (32)	35 (33)	10 (31)	84 (30)	(30)	(48)	(29)	(21)	(37 41
	<ul> <li>AND DRAINAGE FA</li> <li>a. Yes, satisfactory</li> <li>b. Yes, but sometimes not sufficient</li> </ul>	ACILITIES ( 22 (56) 8 (21)	Q.1305 47 (42) 43 (39)	) (63) 11 (37)	52 (60) 25 (30)	15 (75) 3 (15)	58 (32) 57 (31)	35 (33) 50 (47)	10 (31) 13 (41)	84 (30) 98 (35)	(30) 14 (25)	(48) 49 (39)	(29) 22 (29)	(21) 20 (27)	(37 41 (34
	<ul> <li>AND DRAINAGE FA</li> <li>a. Yes, satisfactory</li> <li>b. Yes, but sometimes not sufficient</li> <li>c. No, quite</li> </ul>	ACILITIES ( 22 (56) 8 (21) 5	Q.1305 47 (42) 43 (39) 10	) (63) 11 (37) 0	52 (60) 25 (30) 3	15 (75) 3 (15) 2	58 (32) 57 (31) 26	35 (33) 50 (47) 18	10 (31) 13 (41) 0	84 (30) 98 (35) 24	(30) 14 (25) 7	(48) 49 (39) 14	(29) 22 (29) 22	(21) 20 (27) 27	(37 41 (34 15
	<ul> <li>AND DRAINAGE FA</li> <li>a. Yes, satisfactory</li> <li>b. Yes, but sometimes not sufficient</li> <li>c. No, quite dissatisfied due to</li> </ul>	ACILITIES ( 22 (56) 8 (21)	Q.1305 47 (42) 43 (39) 10	) (63) 11 (37)	52 (60) 25 (30)	15 (75) 3 (15)	58 (32) 57 (31)	35 (33) 50 (47)	10 (31) 13 (41)	84 (30) 98 (35)	(30) 14 (25)	(48) 49 (39)	(29) 22 (29)	(21) 20 (27)	(37 41 (34 15
	<ul> <li>AND DRAINAGE FA</li> <li>a. Yes, satisfactory</li> <li>b. Yes, but sometimes not sufficient</li> <li>c. No, quite dissatisfied due to lack of DID's</li> </ul>	ACILITIES ( 22 (56) 8 (21) 5	Q.1305 47 (42) 43 (39) 10	) (63) 11 (37) 0	52 (60) 25 (30) 3	15 (75) 3 (15) 2	58 (32) 57 (31) 26	35 (33) 50 (47) 18	10 (31) 13 (41) 0	84 (30) 98 (35) 24	(30) 14 (25) 7	(48) 49 (39) 14	(29) 22 (29) 22	(21) 20 (27) 27	(37 41 (34 15
	<ul> <li>AND DRAINAGE FA</li> <li>a. Yes, satisfactory</li> <li>b. Yes, but sometimes not sufficient</li> <li>c. No, quite dissatisfied due to lack of DID's manpower</li> </ul>	ACILITIES ( 22 (56) 8 (21) 5 (13)	Q.1305 47 (42) 43 (39) 10 (9)	) (63) 11 (37) 0 (0)	52 (60) 25 (30) 3 (3)	15 (75) 3 (15) 2 (10)	58 (32) 57 (31) 26 (14)	35 (33) 50 (47) 18 (17)	10 (31) 13 (41) 0 (0)	84 (30) 98 (35) 24 (8)	(30) 14 (25) 7 (13)	(48) 49 (39) 14 (11)	(29) 22 (29) 22 (29) 22 (29)	(21) 20 (27) 27 (37)	(3) 41 (34 15 (1)
	<ul> <li>AND DRAINAGE FA</li> <li>a. Yes, satisfactory</li> <li>b. Yes, but sometimes not sufficient</li> <li>c. No, quite dissatisfied due to lack of DID's manpower</li> <li>d. No, quite</li> </ul>	ACILITIES ( 22 (56) 8 (21) 5 (13) 4	Q.1305 47 (42) 43 (39) 10 (9) 11	) (63) 11 (37) 0 (0) 0	52 (60) 25 (30) 3 (3) 6	15 (75) 3 (15) 2 (10) 0	58 (32) 57 (31) 26 (14) 42	35 (33) 50 (47) 18 (17) 3	10 (31) 13 (41) 0 (0) 9	84 (30) 98 (35) 24 (8) 76	(30) 14 (25) 7 (13) 18	(48) 49 (39) 14 (11) 2	(29) 22 (29) 22 (29) 22 (29)	(21) 20 (27) 27 (37) 11	(3) 41 (34 15 (1) 19
	<ul> <li>AND DRAINAGE FA</li> <li>a. Yes, satisfactory</li> <li>b. Yes, but sometimes not sufficient</li> <li>c. No, quite dissatisfied due to lack of DID's manpower</li> <li>d. No, quite dissatisfied due to</li> </ul>	ACILITIES ( 22 (56) 8 (21) 5 (13)	Q.1305 47 (42) 43 (39) 10 (9)	) (63) 11 (37) 0 (0)	52 (60) 25 (30) 3 (3)	15 (75) 3 (15) 2 (10)	58 (32) 57 (31) 26 (14)	35 (33) 50 (47) 18 (17)	10 (31) 13 (41) 0 (0)	84 (30) 98 (35) 24 (8)	(30) 14 (25) 7 (13)	(48) 49 (39) 14 (11)	(29) 22 (29) 22 (29) 22 (29)	(21) 20 (27) 27 (37)	(3) 41 (34 15 (1) 19
	<ul> <li>AND DRAINAGE FA</li> <li>a. Yes, satisfactory</li> <li>b. Yes, but sometimes not sufficient</li> <li>c. No, quite dissatisfied due to lack of DID's manpower</li> <li>d. No, quite dissatisfied due to lack of DID's</li> </ul>	ACILITIES ( 22 (56) 8 (21) 5 (13) 4	Q.1305 47 (42) 43 (39) 10 (9) 11	) (63) 11 (37) 0 (0) 0	52 (60) 25 (30) 3 (3) 6	15 (75) 3 (15) 2 (10) 0	58 (32) 57 (31) 26 (14) 42	35 (33) 50 (47) 18 (17) 3	10 (31) 13 (41) 0 (0) 9	84 (30) 98 (35) 24 (8) 76	(30) 14 (25) 7 (13) 18	(48) 49 (39) 14 (11) 2	(29) 22 (29) 22 (29) 22 (29)	(21) 20 (27) 27 (37) 11	(3 4) (3 15 (1) 19
	<ul> <li>AND DRAINAGE FA</li> <li>a. Yes, satisfactory</li> <li>b. Yes, but sometimes not sufficient</li> <li>c. No, quite dissatisfied due to lack of DID's manpower</li> <li>d. No, quite dissatisfied due to lack of DID's operation and</li> </ul>	ACILITIES ( 22 (56) 8 (21) 5 (13) 4	Q.1305 47 (42) 43 (39) 10 (9) 11	) (63) 11 (37) 0 (0) 0	52 (60) 25 (30) 3 (3) 6	15 (75) 3 (15) 2 (10) 0	58 (32) 57 (31) 26 (14) 42	35 (33) 50 (47) 18 (17) 3	10 (31) 13 (41) 0 (0) 9	84 (30) 98 (35) 24 (8) 76	(30) 14 (25) 7 (13) 18	(48) 49 (39) 14 (11) 2	(29) 22 (29) 22 (29) 22 (29)	(21) 20 (27) 27 (37) 11	(3) 41 (34 15 (1) 19
	<ul> <li>AND DRAINAGE FA</li> <li>a. Yes, satisfactory</li> <li>b. Yes, but sometimes not sufficient</li> <li>c. No, quite dissatisfied due to lack of DID's manpower</li> <li>d. No, quite dissatisfied due to lack of DID's operation and maintenance</li> </ul>	ACILITIES ( 22 (56) 8 (21) 5 (13) 4	Q.1305 47 (42) 43 (39) 10 (9) 11	) (63) 11 (37) 0 (0) 0	52 (60) 25 (30) 3 (3) 6	15 (75) 3 (15) 2 (10) 0	58 (32) 57 (31) 26 (14) 42	35 (33) 50 (47) 18 (17) 3	10 (31) 13 (41) 0 (0) 9	84 (30) 98 (35) 24 (8) 76	(30) 14 (25) 7 (13) 18	(48) 49 (39) 14 (11) 2	(29) 22 (29) 22 (29) 22 (29)	(21) 20 (27) 27 (37) 11	(3) 41 (34 15 (1) 19
	<ul> <li>AND DRAINAGE FA</li> <li>a. Yes, satisfactory</li> <li>b. Yes, but sometimes not sufficient</li> <li>c. No, quite dissatisfied due to lack of DID's manpower</li> <li>d. No, quite dissatisfied due to lack of DID's operation and</li> </ul>	ACILITIES ( 22 (56) 8 (21) 5 (13) 4	Q.1305 47 (42) 43 (39) 10 (9) 11	) (63) 11 (37) 0 (0) 0	52 (60) 25 (30) 3 (3) 6	15 (75) 3 (15) 2 (10) 0	58 (32) 57 (31) 26 (14) 42	35 (33) 50 (47) 18 (17) 3	10 (31) 13 (41) 0 (0) 9	84 (30) 98 (35) 24 (8) 76	(30) 14 (25) 7 (13) 18	(48) 49 (39) 14 (11) 2	(29) 22 (29) 22 (29) 22 (29)	(21) 20 (27) 27 (37) 11	(37 41 (34 15 (13 19
	<ul> <li>AND DRAINAGE FA</li> <li>a. Yes, satisfactory</li> <li>b. Yes, but sometimes not sufficient</li> <li>c. No, quite dissatisfied due to lack of DID's manpower</li> <li>d. No, quite dissatisfied due to lack of DID's operation and maintenance budgets</li> </ul>	ACILITIES ( 22 (56) 8 (21) 5 (13) 4	Q.1305 47 (42) 43 (39) 10 (9) 11	) (63) 11 (37) 0 (0) 0	52 (60) 25 (30) 3 (3) 6 (7)	15 (75) 3 (15) 2 (10) 0 (0)	58 (32) 57 (31) 26 (14) 42 (23)	35 (33) 50 (47) 18 (17) 3 (3)	10 (31) 13 (41) 0 (0) 9 (28)	84 (30) 98 (35) 24 (8) 76 (27)	(30) 14 (25) 7 (13) 18 (32)	(48) 49 (39) 14 (11) 2 (2)	(29) 22 (29) 22 (29) 10 (13)	(21) 20 (27) 27 (37) 11 (15)	45 (37 41 (34 15 (12 19 (16
•	<ul> <li>AND DRAINAGE FA</li> <li>a. Yes, satisfactory</li> <li>b. Yes, but sometimes not sufficient</li> <li>c. No, quite dissatisfied due to lack of DID's manpower</li> <li>d. No, quite dissatisfied due to lack of DID's operation and maintenance</li> </ul>	ACILITIES ( 22 (56) 8 (21) 5 (13) 4 (10) 39	Q.1305 47 (42) 43 (39) 10 (9) 11 (10)	) 19 (63) 11 (37) 0 (0) 0 (0) 30	52 (60) 25 (30) 3 (3) 6 (7) 86	15 (75) 3 (15) 2 (10) 0 (0) 20	58 (32) 57 (31) 26 (14) 42 (23) 183	35 (33) 50 (47) 18 (17) 3 (3) 106	10 (31) 13 (41) 0 (0) 9 (28)	84 (30) 98 (35) 24 (8) 76 (27) 282	(30) 14 (25) 7 (13) 18 (32) 56	(48) 49 (39) 14 (11) 2 (2) 125	(29) 22 (29) 22 (29) 10 (13) 77	(21) 20 (27) 27 (37) 11 (15) 73	

# Table C-2Opinion Leaders' Views on Present Agricultural<br/>Development Condition and Crop Diversification (2/14)

Remarks: PR; Perlis, KH; Kedah, PP; Pulau Pinang, PK; Perak, SR; Selangor, NS; Negeri Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu, KN; Kelantan, SA; Sabah, and SK; Sawarak

\*; Multiple answers are given.

														Uni	: Num	ber (%)
	Item		PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
5.		STANDING O ARMERS UTII						Q.130	2)		- 	·				
	padd	vutilizing for y cultivation utilizing for	20 (51) 4	69 (61) 32	16 (54) 1	37 (43) 31	2 (10) 6	7 (4) 79	26 (25) 37	(28) 11	28 (10) 56	13 (23) 36	47 (38) 65	62 (81) 5	31 (43) 20	367 (30) 383
	but b	y cultivation, eing faced increasing	(10)	(29)	(3)	(37)	(30)	(43)	(34)	(35)	(20)	(65)	(51)	(6)	(27)	(32)
	aban field	doned paddy	14	4	1	. 3	. 0	-6	2	1	4	4	6	8	12	65
-	cultiv the n	vation for nain season eash crop	(36)	(4)	(3)	(3)	(0)	(3)	(2)	(3)	(1)	(7)	(5)	(10)	(16)	(5)
	grow the o	ing for ff-season bed paddy	1	2	2	7	11	57	15	3	16	0	2	0	10	126
•	cultiv alrea to tre	vation and dy converted e or other	(3)	(2)	(7)	(8)	(55)	(31)	(14)	(9)	(6)	(0)	(2)	(0)	(14)	(10)
	e. Fully	crop areas abandoned eft as idle	0 (0)	4 (4)	10 (33)	8 (9)	1 (5)	34 (19)	26 (25)	8 (25)	178 (63)	3 (5)	5 (4)	2 (3)	0 (0)	279 (23)
	No. of Respond	ents	39 (100)	111 (100)	30 (100)	86 (100)	20 (100)	183 (100)	106 (100)	32 (100)	282 (100)	56 (100)	125 (100)	77 (100)	73 (100)	1,220 (100)
	· · ·		• • •											-		
6.	OCCUR	RENCE OF ID	LE PADD	Y FIEL	.DS (Q	.1401)										
	a. Yes l		6 (15)	44 (38)	14 (45)	. 64 (70)	13 (65)	180 (90)	91 (78)	14 (42)	286 (89)	47 (72)	99 (79)	20 (25)	39 (53)	917 (70)
	b. Not l	mow	34 (85)	71 (62)	17 (55)	27 (30)	7 (35)	20 (10)	25 (22)	19 (58)	35 (11)	18 (28)	26 (21)	59 (75)	34 (47)	392 (30)
•	Total No Respond		40 (100)	115 (100)	31 (100)	91 (100)	20 (100)	200 (100)	116 (100)	33 (100)	321 (100)	65 (100)	125 (100)	79 (100)	73 (100)	1,309 (100)

 
 Table C-2
 Opinion Leaders' Views on Present Agricultural Development Condition and Crop Diversification (3/14)

# Table C-2Opinion Leaders' Views on Present Agricultural<br/>Development Condition and Crop Diversification (4/14)

	<u></u> .						DIZ	60	NS	MA	JR	PH	TR	KN	SA	SK	ber (% Total
	Item			PR	KH	PP	PK	SG	INS	MA	JR	Pri	IK		5A	JA	101a
	INTENT	IONS TO II	VCRE/	ASE FU	RTHE	R THE	IDLE	PADD	Y FIE	LDS (C	2.1407)	•		· · · · :		· .	
								- : : · ·	16		0	20	0	47	7	6	11
	a. Yes			2 (33)	0 (0)	(7)	(17)	(0)	- 16 (9)	(3)	(0)	(7)	(0)	(47)	(35)	(15)	(1)
•.	b. No			- 4	44	13	53	13	164	88	14	266	47	52	13	33	80
		адаран (т. е. с.		(67)	(100)	(93)		(100)	(91)		(100)		(100)	(53)	(65)	(85)	(8
	No, of			6	44	14	64	13	180	91	14	286	47	99	20	39	9
	Respond	ents		(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(10
							· · · ·							· .			
	REASO	NS AS EXIS	STENC	ΈOFΊ	THE ID	LEPA	DDY	FIELD	S (Q.14	102a)	·					•	
	· · ·	Marine 199			n 1997 - A	· ·	-			1947 - 1945 1947 - 1945		000	10			10	5
	a. Shor			1	(100)	(100)	33	· 8	137	76	5	228	19	32 (100)	(101)	(100)	, j (10
		power profitability		(100)		(100)	(100)	0	(100)	15	1	39	4	2	1	0	
	o. Low of pa			(200)		(20)	(18)		(3)	(19)	(20)		(22)		(33)	(0)	. (
	•	vation/land		(200)	(23)	(20)	(10)	(0)	(5)	(17)	. (20)	(1)	(22)	(0)	(35)	. (07	``
		t suitable					:		*	··							
		rowing padd	lv											. 4		÷ 5	
		of drainage		1	1	0	5	0	4	27	1	. 57	6	6	1	· . 0	1
		ities/flood		(100)	(14)	(0)	(16)	(0)	(3)	(36)	(20)	(25)	(31)	(19)	(33)	(0)	
•		ficient water	r.	0	3	1	17	· · 2	71	53	3	82	11	-34	1	0	
		ly/lack of		(0)	(43)	(20)	(51)	(26)	(52)	(70)	(60)	(36)	(58)	(107)	(33)	(0)	(
		ation facilitie									· ~			2			
		pests, birds	,	0	0	- 1	3	0	3	6	0	49	2	2	0	0	
		ts and		(0)	(0)	(20)	(9)	(0)	(2)	(8)	(0)	(22)	(11)	(6)	(0)	(0)	<u>(</u> (
	disea			· ·					in de Ma	•	~		4	·		• • • • •	
	f. Salty			0	0	0	0	0	4	1	0	3	1	. 0	0	0 (0)	
		r polution		(0)	(0)	(0)	(0)	(0)	(3)	(1)	(0)	(1)	(5)	(0)	(0)	• •	
	g. Shor			0	0	2	7	1	0	2	0		1	1	0	2	
	÷	al/poor		(0)	(0)	(40)	(21)	(12)	(0)	(3)	(0)	(1)	(5)	(3)	(0)	(17)	
		anization		0	0	1	:	0	4	7	1	18	5	. 3	1	1	
	h. Othe			(0)	(0)	(20)	(27)	(0)	(3)	(9)	(20)	(8)	(26)		(33)	(8)	
	Total No	∴of		4	13	11	80	11	227	187	11	479	49	80		15	1.1
	Respons				(186)		(242)							(250)			
	No. of	·	· ·	· 1	- 7	5	33	8	137	76	5	228	19	32	3	12	5
	Respond	onte															

Remarks: PR; Perlis, KH; Kedah, PP; Pulau Pinang, PK; Perak, SR; Selangor, NS; Negeri Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu, KN; Kelantan, SA; Sabah, and SK; Sawarak

\*; Multiple answers are given.

C - 20

	m	PR	кн	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Tota
	· · · ·			•				<u></u>		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>					
PF	RESENT CONDITION	OF THE	CONV	ERTE	D PAI	DY FI	ELDS	(Q.140	5)				•••		
a.	No problem	0	3	1	· · 3	7	86	26	3	20	0	3	3	14	1
		(0)	(43)	(25)	(20)		(78)	(76)	(75)	(71)	(0)	(60)	(75)	(62)	(7
b.	Ill drained	0	0	0	3	0	11	3	. 0	5	0	0	0	1	
	condition	. (0)	(0)	(0)	(20)	(0)	(10)	(9)	(0)	(17)	(0)	(0)	(0)	. (4)	. i
с.	Poor access to	0	1	0	3	0	1	1	- 1	- 1	0	0	0	· 3	
	farm lots	(0)	(14)	(0)	(20)	(0)	(1)	(3)	(25)	(4)	(0)	(0)	(0)	(13)	(
d.	Insufficient	1	- 1	0	0	0	6	1	0	0	. 1	· 1	1	. 3	
	irrigation water supply	(100)	(14)	(0)	(0)	(0)	(5)	(3)	(0)	(0)	(100)	(20)	(25)	(13)	· (
e.	Low standard of	0	2	3	3	. 0	6	3	0	0	0	0	0	-1	
	farming practices	(0)	(29)	(75)	(20)	(0)	(5)	(9)	(0)	(0)	(0)	(0)	(0)	(4)	
f.	Pest problem	0	Ó	0	i	Ó	1	0	Ó	1	0	1	Ó	1	
	- ·	(0)	(0)	(0)	(7)	(0)	(1)	(0)	(0)	(4)	(0)	(20)	(0)	(4)	(
g.	Others	0	0	0	2	. 0	0	0	0	1	0	Ó	0	0	
-		(0)	(0)	(0)	(13)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	i
	o. of	1	7	4	15	. 7	111	34	4	28	1	5	4	23	2
Re	espondents	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(1
_ /-															
	TILIZATION PLAN C	OF THE II	DLE LA	NDS	(Q.140	6)	_								
. UI	Conversion to	. 1	7	9	19	8	128	44	9	79	0	4	4	6	
U a.	Conversion to tree crop	1 (17)	7 (16)	9 (64)	19 (30)	8 (62)	(71)	(49)	(65)	(28)	(0)	(4)	(20)	(16)	
U a.	Conversion to tree crop Conversion to	1 (17) 0	7 (16) 1	9 (64) 0	19 (30) 1	8 (62) 0	(71) 0	(49) 1	(65) 0	(28) 11	(0) 0	(4) 0	(20) 3	(16) 9	(
U a. b.	Conversion to tree crop Conversion to non farm land	1 (17) 0 (0)	7 (16) 1 (2)	9 (64) 0 (0)	19 (30) 1 (2)	8 (62) 0 (0)	(71) 0 (0)	(49) 1 (1)	(65) 0 (0)	(28) 11 (4)	(0) 0 (0)	(4) 0 (0)	(20) 3 (15)	(16) 9 (23)	(
U a. b.	Conversion to tree crop Conversion to non farm land Conversion to	1 (17) 0 (0) 0	7 (16) 1 (2) 2	9 (64) 0 (0) 0	19 (30) 1 (2) 3	8 (62) 0 (0) 0	(71) 0 (0) 1	(49) 1 (1) 2	(65) 0 (0) 0	(28) 11 (4) 13	(0) 0 (0) 4	(4) 0 (0) 4	(20) 3 (15) 5	(16) 9 (23) 11	(
U a. b. c.	Conversion to tree crop Conversion to non farm land Conversion to upland crop	1 (17) 0 (0) 0 (0)	7 (16) 1 (2) 2 (5)	9 (64) 0 (0) 0	19 (30) 1 (2) 3 (5)	8 (62) 0 (0) 0 (0)	(71) 0 (0) 1 (1)	(49) 1 (1) 2 (2)	(65) 0 (0) 0 (0)	(28) 11 (4) 13 (5)	(0) 0 (0) 4 (9)	(4) 0 (0) 4 (4)	(20) 3 (15) 5 (25)	(16) 9 (23) 11 (28)	(
UT a. b. c.	Conversion to tree crop Conversion to non farm land Conversion to upland crop Conversion to	1 (17) 0 (0) 0 (0) 0	7 (16) 1 (2) 2 (5) 3	9 (64) 0 (0) 0 (0) 0	19 (30) 1 (2) 3 (5) 0	8 (62) 0 (0) 0 (0) 0	(71) 0 (0) 1 (1) 2	(49) 1 (1) 2 (2) 3	(65) 0 (0) 0 (0) 0	(28) 11 (4) 13 (5) 43	(0) 0 (0) 4 (9) 1	(4) 0 (0) 4 (4) 9	(20) 3 (15) 5 (25) 0	(16) 9 (23) 11 (28) 0	C
UT a. b. c.	Conversion to tree crop Conversion to non farm land Conversion to upland crop Conversion to fish culture pond	1 (17) 0 (0) 0 (0) 0 (0)	7 (16) 1 (2) 2 (5) 3 (7)	9 (64) 0 (0) 0 (0) 0 (0)	19 (30) 1 (2) 3 (5) 0 (0)	8 (62) 0 (0) 0 (0) 0 (0)	(71) 0 (0) 1 (1) 2 (1)	(49) 1 (1) 2 (2) 3 (3)	(65) 0 (0) 0 (0) 0 (0)	(28) 11 (4) 13 (5) 43 (15)	(0) 0 (0) 4 (9) 1 (2)	(4) 0 (0) 4 (4) 9 (9)	(20) 3 (15) 5 (25) 0 (0)	(16) 9 (23) 11 (28) 0 (0)	(
UT a. b. c.	Conversion to tree crop Conversion to non farm land Conversion to upland crop Conversion to	1 (17) 0 (0) 0 (0) 0 (0) 1	7 (16) 1 (2) 2 (5) 3 (7) 18	9 (64) 0 (0) 0 (0) 0 (0) 1	19 (30) 1 (2) 3 (5) 0 (0) 23	8 (62) 0 (0) 0 (0) 0 (0) 2	(71) 0 (0) 1 (1) 2 (1) 2	(49) 1 (1) 2 (2) 3 (3) 27	(65) 0 (0) 0 (0) 0 (0) 2	(28) 11 (4) 13 (5) 43 (15) 64	(0) 0 (0) 4 (9) 1 (2) 17	(4) 0 (0) 4 (4) 9 (9) 14	(20) 3 (15) 5 (25) 0 (0) 4	(16) 9 (23) 11 (28) 0 (0) 3	)
U) a. b. c. d. e.	Conversion to tree crop Conversion to non farm land Conversion to upland crop Conversion to fish culture pond Others	1 (17) 0 (0) 0 (0) 0 (0) 1 (17)	7 (16) 1 (2) 2 (5) 3 (7) 18 (40)	9 (64) 0 (0) 0 (0) 0 (0) 1 (7)	19 (30) 1 (2) 3 (5) 0 (0) 23 (35)	8 (62) 0 (0) 0 (0) 0 (0) 2 (15)	(71) 0 (0) 1 (1) 2 (1) 2 (13)	(49) 1 (1) 2 (2) 3 (3) 27 (30)	(65) 0 (0) 0 (0) 0 (0) 2 (14)	(28) 11 (4) 13 (5) 43 (15) 64 (22)	(0) 0 (0) 4 (9) 1 (2) 17 (36)	(4) 0 (0) 4 (4) 9 (9) 14 (14)	(20) 3 (15) 5 (25) 0 (0)	(16) 9 (23) 11 (28) 0 (0) 3 (8)	) 1 0
U) a. b. c. d. e.	Conversion to tree crop Conversion to non farm land Conversion to upland crop Conversion to fish culture pond	$ \begin{array}{c} 1\\ (17)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 1\\ (17)\\ 4 \end{array} $	7 (16) 1 (2) 2 (5) 3 (7) 18 (40) 14	9 (64) 0 (0) 0 (0) 0 (0) 1 (7) 4	19 (30) 1 (2) 3 (5) 0 (0) 23 (35) 18	8 (62) 0 (0) 0 (0) 0 (0) 2 (15) 3	(71) 0 (0) 1 (1) 2 (1) 2 (13) 26	(49) 1 (1) 2 (2) 3 (3) 27 (30) 14	(65) 0 (0) 0 (0) 0 (0) 2 (14) 3	(28) 11 (4) 13 (5) 43 (15) 64 (22) 94	(0) 0 (0) 4 (9) 1 (2) 17 (36) 26	(4) 0 (0) 4 (4) 9 (9) 14 (14) 68	(20) 3 (15) 5 (25) 0 (0) 4 (20) 4	(16) 9 (23) 11 (28) 0 (0) 3 (8) 13	( 1 ( 2
U) a. b. c. d. e.	Conversion to tree crop Conversion to non farm land Conversion to upland crop Conversion to fish culture pond Others	1 (17) 0 (0) 0 (0) 0 (0) 1 (17)	7 (16) 1 (2) 2 (5) 3 (7) 18 (40)	9 (64) 0 (0) 0 (0) 0 (0) 1 (7)	19 (30) 1 (2) 3 (5) 0 (0) 23 (35)	8 (62) 0 (0) 0 (0) 0 (0) 2 (15)	(71) 0 (0) 1 (1) 2 (1) 2 (13)	(49) 1 (1) 2 (2) 3 (3) 27 (30)	(65) 0 (0) 0 (0) 0 (0) 2 (14)	(28) 11 (4) 13 (5) 43 (15) 64 (22)	(0) 0 (0) 4 (9) 1 (2) 17 (36)	(4) 0 (0) 4 (4) 9 (9) 14 (14)	(20) 3 (15) 5 (25) 0 (0) 4 (20)	(16) 9 (23) 11 (28) 0 (0) 3 (8)	( 1 ( 2
U7 a. b. c. d. e. f. To	Conversion to tree crop Conversion to non farm land Conversion to upland crop Conversion to fish culture pond Others No plan	$ \begin{array}{c} 1\\ (17)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 1\\ (17)\\ 4\\ (66)\\ 6 \end{array} $	7 (16) 1 (2) 2 (5) 3 (7) 18 (40) 14 (32) 45	9 (64) 0 (0) 0 (0) 0 (0) 1 (7) 4 (29) 14	19 (30) 1 (2) 3 (5) 0 (0) 23 (35) 18 (28) 64	8 (62) 0 (0) 0 (0) 0 (0) 2 (15) 3 (23) 13	(71) 0 (0) 1 (1) 2 (13) 26 (14) 180	(49) 1 (1) 2 (2) 3 (3) 27 (30) 14 (15) 91	(65) 0 (0) 0 (0) 2 (14) 3 (21) 14	(28) 11 (4) 13 (5) 43 (15) 64 (22) 94 (32) 304	(0) (0) (0) (9) 1 (2) 17 (36) 26 (55) 48	(4) 0 (0) 4 (4) 9 (9) 14 (14) 68 (69) 99	(20) 3 (15) 5 (25) 0 (0) 4 (20) 4 (20) 20	(16) 9 (23) 11 (28) 0 (0) 3 (8) 13 (33) 42	() 1 () 2 () 2 () 2 () 2 () 2 () 2 () 2
U7 a. b. c. d. e. f. To	Conversion to tree crop Conversion to non farm land Conversion to upland crop Conversion to fish culture pond Others No plan	$ \begin{array}{c} 1\\ (17)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 1\\ (17)\\ 4\\ (66) \end{array} $	7 (16) 1 (2) 2 (5) 3 (7) 18 (40) 14 (32)	9 (64) 0 (0) 0 (0) 0 (0) 1 (7) 4 (29) 14	19 (30) 1 (2) 3 (5) 0 (0) 23 (35) 18 (28) 64	8 (62) 0 (0) 0 (0) 2 (15) 3 (23)	(71) 0 (0) 1 (1) 2 (13) 26 (14) 180	(49) 1 (1) 2 (2) 3 (3) 27 (30) 14 (15) 91	(65) 0 (0) 0 (0) 2 (14) 3 (21) 14	(28) 11 (4) 13 (5) 43 (15) 64 (22) 94 (32) 304	(0) (0) (0) (9) 1 (2) 17 (36) 26 (55) 48	(4) 0 (0) 4 (4) 9 (9) 14 (14) 68 (69) 99	(20) 3 (15) 5 (25) 0 (0) 4 (20) 4 (20)	(16) 9 (23) 11 (28) 0 (0) 3 (8) 13 (33)	( 1 ( 2 (
UT a. b. c. d. f. To Re No	Conversion to tree crop Conversion to non farm land Conversion to upland crop Conversion to fish culture pond Others No plan	$ \begin{array}{c} 1\\ (17)\\ 0\\ (0)\\ 0\\ (0)\\ 0\\ (0)\\ 1\\ (17)\\ 4\\ (66)\\ 6 \end{array} $	7 (16) 1 (2) 2 (5) 3 (7) 18 (40) 14 (32) 45	9 (64) 0 (0) 0 (0) 0 (0) 1 (7) 4 (29) 14	19 (30) 1 (2) 3 (5) 0 (0) 23 (35) 18 (28) 64	8 (62) 0 (0) 0 (0) 0 (0) 2 (15) 3 (23) 13	(71) 0 (0) 1 (1) 2 (13) 26 (14) 180	(49) 1 (1) 2 (2) 3 (3) 27 (30) 14 (15) 91	(65) 0 (0) 0 (0) 2 (14) 3 (21) 14	(28) 11 (4) 13 (5) 43 (15) 64 (22) 94 (32) 304	(0) (0) (0) (9) 1 (2) 17 (36) 26 (55) 48	(4) 0 (0) 4 (4) 9 (9) 14 (14) 68 (69) 99	(20) 3 (15) 5 (25) 0 (0) 4 (20) 4 (20) 20	(16) 9 (23) 11 (28) 0 (0) 3 (8) 13 (33) 42	

Table C-2Opinion Leaders' Views on Present Agricultural<br/>Development Condition and Crop Diversification (5/14)

Remarks: PR; Perlis, KH; Kedah, PP; Pulau Pinang, PK; Perak, SR; Selangor, NS; Negeri Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu, KN; Kelantan, SA; Sabah, and SK; Sawarak

\*; Multiple answers are given.

													Uni	t: Num	ber (%
	Item	PR	КН	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
1.	INITIATIVE TAKEN F	OR PREP.	ARATI	(ON 0)	F CON	VERSI	ON PI	LAN (C	2.1404)	)				2	
	a. Farmers themselves with their own ideas	1 (100)	6 (86)	0 (0)	12 (80)	6 (86)	52 (46)	9 (26)	1 (25)	16 (57)	1 (100)	4 (80)	1 (25)	- 15 (66)	12 (51
	b. Community committee	0 (0)	(0)	2 (50)	2 (13)	. 0 (0)	. 35 (32)	17 (50)	2 (50)	5 (18)	0 (0)	0 (0)	(75)	6 (26)	7: (30
	c. Direction by state government	0 (0)	1 (14)	2 (50)	1 (7)	1 (14)	4 (4)	7 (21)	1 (25)	1 (4)	0 (0)	(20)	0 (0)	1 (4)	2
	d. Incorporation into rural development plans done by	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	20 (18)	0 (0)	0 (0)	6 (21)	0 (0)	0 (0)	0 (0)	1 (4)	2 (11
	agencies concerned other than DID					· .			· · · ·				- 		
•	e. No answer	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	(0
	No. of Respondents	1 (100)	7 (100)	4 (100)	15 (100)	7 (100)	111 (100)	34 (100)	4 (100)	28 (100)	1 (100)	5 (100)	4 (100)	23 (100)	24 (100

Table C-2Opinion Leaders' Views on Present Agricultural<br/>Development Condition and Crop Diversification (6/14)

							· .						Unit	: Num	ber (%)
Iten	n	PR	КН	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
12. FA	ARMERS' INTENTIO	ONS TOW	RDS I	RRIG	ATED	PADD	Y CUL	TIVA	FION (	Q.150	1)	· .			
a.	Possitive continuation of paddy cultivation	39 (98)	101 (87)	19 (61)	64 (70)	3 (15)	(21)	71 (60)	14 (43)	136 (42)	54 (84)	119 (95)	77 (97)	46 (63)	783 (60
b.	Negative continuation of paddy cultivation	2 (5)	10 (9)	4 (13)	9 (10)	10 (50)	90 (44)	31 (27)	10 (30)	100 (31)	10 (15)	6 (5)	2 (3)	11 (15)	29: (23
C.	Stop to grow paddy cultivation and leave paddy field abandoned	0 (0)	1 (1)	0 (0)	2 (2)	0 (0)	9 (5)	8 (7)	4 (12)	16 (5)	2 (3)	0 (0)	1 (1)	6 (9)	49 (4
d.	Permanent conversion to crop cultivation	0 (0)	3 (3)	5 (16)	18 (20)	.7 (35)	59 (30)	32 (28)	9 (27)	50 (16)	0 (0)	0 (0)	11 (14)	11 (15)	20: (16
e.	Permanent conversion to crop cultivation	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (2)	2 (2)	0 (0)	30 (9)	0 (0)	0 (0)	2 (3)	9 (12)	4( (3
f.	Introduction of cash crop cultivation	2 (5)	1 (1)	3 (10)	0 (0)	0 (0)	3 (2)	5 (4)	1 (3)	19 (6)	2 (3)	0 (0)	5 (6)	5 (7)	4( (3
g.	No comment	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (2)	0 (0)	0 (0)	5 (2)	0 (0)	0 (0)	0 (0)	0 (0)	(1
	stal No. of sponses*	43 (108)	116 (101)	31 (100)	93 (102)	20 (100)		149 (128)	38 (115)	356 (111)	68 (105)	125 (100)	.98 (124)	88 (121)	1,43 (110
	o. of spondents	40	115	31	91	20	200	116	33	321	65	125	79	73	1,30

 
 Table C-2
 Opinion Leaders' Views on Present Agricultural Development Condition and Crop Diversification (7/14)

Remarks: PR; Perlis, KH; Kedah, PP; Pulau Pinang, PK; Perak, SR; Selangor, NS; Negeri Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu, KN; Kelantan, SA; Sabah, and SK; Sawarak

\*; Multiple answers are given.

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										·			Unit	. 1900	iber (%)
	Item	PR	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
3.	INTENTIONS TO CONV	ERT OF	FURT	THER	UTILE	ZE THI	PAD	DY FII	ELDS (	Q.1601	<b>)</b>		· ·	· . · . ·	•
	a. No intention to convert paddy fields to other	30 (76)	104 (91)	13 (42)	64 (71)	7 (35)	57 (29)	46 (40)	14 (43)	146 (46)	57 (88)	111 (89)	72 (91)	39 (53)	760 (58)
	crop field b. Expecting to introduce crop diversification on irrigated paddy fields	2 (5)		2 (6)			6 (3)	17 (15)	0 (0)	27 (8)	3 (4)	3 (2)	1 (1)	7 (10)	78 (6)
	c. Expecting to convert paddy fields to tree planting	1 (2)	5 (4)	4 (13)	12 (14)		80 (40)	42 (36)	10 (30)	69 (21)	1 (2)	4 (3)	0 (0)	3 (4)	230 (18
	d. Expecting to introduce crop diversification to some extent	0 (0)	(1)	1 (3)	5 (5)	0 (0)	11 (5)	1 (1)	0 (0)		1 (2)		3 (4)	0 (0)	4 (3
	e. Expecting others	(2)	0 (0)	4 (13)			3 (1)	4 (3)	0 (0)	35 (11)	3 (4)	0 (0)	0 (0)	0 (0)	5: (4
	f. No plan/ no answer	6 (15)	1 (1)	7 (23)	5 (5)	2 (10)	43 (22)	6 (5)	9 (27)	26 (8)	`ó (0)	(6) (6)	3 (4)	24 (33)	139 (11
	Total No. of Respondents	40 (100)	115 (100)	31 (100)	91 (100)	20 (100)	200 (100)	116 (100)	33 (100)	321 (100)	65 (100)	125 (100)	79 (100)	73 (100)	1,309

Table C-2Opinion Leaders' Views on Present AgriculturalDevelopment Condition and Crop Diversification (8/14)

Remarks: PR; Perlis, KH; Kedah, PP; Pulau Pinang, PK; Perak, SR; Selangor, NS; Negeri Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu, KN; Kelantan, SA; Sabah, and SK; Sawarak

										<u>.</u>	<del></del>	Unit	: Num	ber (%)
Item	PR	KH	<b>PP</b>	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
EXPECTATIONS FOR	DRAINA	GE FA	CILITI	ies (Q	.1602)								•	
<ul> <li>a. Construction of a farm level drainage facilities</li> </ul>	18 (45)	16 (14)	-	23 (25)	- 1 (5)	68 (34)			96 (30)	17 (26)	7 (6)	53 (67)	40 (55)	410 (32
<ul> <li>b. Construction of new drainage network</li> </ul>	23 (58)	34 (30)	12 (39)	25 (27)		71 (36)	. 68 (59)		102 (31)	26 (39)	29 (23)	62 (78)	49 (68)	50) (39
<ul> <li>Construction of flood protection works</li> </ul>	18 (45)	51 (43)	9 (29)	35 (38)	6 (30)	72 (36 <u>)</u>	60 (52)	9 (27)	70 (22)	22 (34)	27 (22)	65 (82)	47 (64)	49 (37
<ul> <li>Rehabilitation of existing drainage facilities</li> </ul>	24 (59)	49 (43)	13 (43)	50 (56)	10 (50)	13 (7)	47 (41)	8 (24)	92 (29)	22 (34)	76 (61)	64 (82)	51 (70)	519 (39)
e. Upgrading of existing drainage facilities	10 (25)	11 (10)	6 (19)	22 (24)	4 (20)	13 (6)	. 59 (51)	8 (24)	52 (16)	18 (28)	48 (38)	38 (48)	47 (64)	330 (26
f. None	3 (8)	6 (5)	1 (3)	16 (18)	3 (15)	21 (10)	5 (4)	4 (12)	32 (10)	3 (5)	4 (3)	1 (1)	1 (1)	10( (8
g. Others	3 (8)	1 (1)	(3)	4 (4)	0 (0)	2 (2)	1 (1)	0 (0)	13 (4)	2 (3)	3 (2)	0 (0)	0 (0)	30 (2)
Total No. of Responses*	99 (248)	168 (146)	43 (139)	175 (192)	25 (125)	260 (130)	303 (261)	49 (148)	457 (142)	110 (169)	194 (155)	283 (358)	235 (322)	2,40 (183
No. of Respondents	40	115	31	91	20	200	116	33	321	65	125	79	73	1,30

# Table C-2Opinion Leaders' Views on Present Agricultural<br/>Development Condition and Crop Diversification (9/14)

Remarks: PR; Perlis, KH; Kedah, PP; Pulau Pinang, PK; Perak, SR; Selangor, NS; Negeri Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu, KN; Kelantan, SA; Sabah, and SK; Sawarak

	· · · · ·					· · · · · · · · · · · · · · · · · · ·								Uni	t: Num	iber (%
	Item	P	R	KH	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
15.	EXPECTATIONS FOR	THE F	AR	M RO	ADS (0	Q.1603	)					•••••••••••••••••••••••••••••••••••••••				
	a. Construction of		7	17	11	38	5	.78		16	165	36	18	56		54
	new farm road	(	18)	(15)	(35)	(42)	(25)	(39)	(49)	(49)	(51)	(56)	(14)		(56)	(42
	b. Rehabilitation of		12	45	14	20	5	59	60	4	.37	12	12	55	45	380
	existing farm road		30)	(39)	(45)	(22)	(25)	(29)	(51)	(12)	(12)	(18)	(10)		(62)	(29
	c. Upgrading/	· .	19	34	8	52	- 5	80	54	12	81	16	. 79	56	47	543
•	pavement of existing farm road	(4	48)	(30)	(26)	(57)	(25)	(40)	(47)	(36)	(25)	(25)	(63)	(71)	(64)	(42
	d. Widening of	Ч	12	23	7	23	2	42	29	8	36	4	9	47	-51	293
	existing farm road	(	30)	(20)	(23)	(25)	(10)	(21)	(25)	(24)	(11)	(6)	(7)	(59)	(70)	(22
	e. Others		1	· 1	· 1	0	0	4	1	3	9	2	1	2	Ó	2.
1.1		14 M - 14	(2)	(1)	(3)	(0)	(0)	(2)	(1)	. (9)	(3)	(3)	(1)	(2)	(0)	(2
	f. None		8	14	1	9	7	15	22	2	. 49	10	9	. 0	Ó	140
		· (	20)	(12)	(3)	(10)	(35)	(8)	(19)	(6)	(15)	(15)	(7)	(0)	(0)	(11)
	Total No. of		59	134	42	142	24	278	223	45	377	80	128	216	184	1,93
	Responses*	(1	48)	(117)	(135)	(156)	(120)	(139)	(192)	(136)	(117)	(123)	(102)	(273)	(252)	(148
	No. of		40	115	31	91	20	200	116	33	321	65	125	79	73	1,309
	Respondents				· · ·											

# Table C-2Opinion Leaders' Views on Present Agricultural<br/>Development Condition and Crop Diversification (10/14)

Remarks: PR; Perlis, KH; Kedah, PP; Pulau Pinang, PK; Perak, SR; Selangor, NS; Negeri Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu, KN; Kelantan, SA; Sabah, and SK; Sawarak

												Unit	: Num	ber (%
Item	PR	кн	PP	РК	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
5. EXPECTATIO	ONS FOR OTHER I	RELAT	ED FA	CILIT	ES (Q.	1604)								
a. Processing	10	33	8	51	1	83	78	. 5	136	35	13	77	65	69
facilities	(25)		(26)	(56)	(5)	(41)	(66)	(15)	(43)	(55)	(90)		(90)	(54
b. Storage	10			27	1	82	65	• •	50	12	90	67	60	50
facilities	(25)		(46)	(30)	(5)	(41)		(15)	(16)	(18)	(72)	(85)	(83)	(3
c. Drying	18		8	32	(3)	23	49	4	39	12	23	72	.54	37
C. Drynig	(45)		(26)	(35)	(5)	(12)	(42)	(12)	(12)	(18)	(18)	. (91)	(74)	(2)
d Machinary	(43)	4	20)	23	5	47	2	2	67	21	(10)	23	12	21
d. Machinery	(2)	(3)	_		-				(21)	(32)	· 1	(29)		
a Do not man	(2) 16	50	(6)	(25)	(25)	(24)	(2) 18	(6) 13		17	(1)	(29)	(16)	(1) 34
e. Do not nee			13	29	12	:58			103		8		4	
other facili	·····		(42)	(32)	(60)	(29)	(16)	(40)	(32)	(26)	(6)	(3)	(5)	(2
f. Others	15	14	2	23	3		. 14	. 11	- 24	3	3	2	2	12
	(38)	(13)	(6)	(25)	(15)	(4)	(13)	(33)	(7)	(5)	(3)	(3)	(2)	(
Total No. of	70	155	47	185	23	300	226	40	419	100	238	243	197	2.24
Responses*	(175)	(135)	(152)	(203)	(115)	(150)	(195)	(121)	(131)	(154)	(190)	(308)	(270)	(17
No. of	40	115	31	91	20	200	116	33	321	65	125	79	73	1,3(
Respondents					20	200		20			~~0			-150

Table C-2Opinion Leaders' Views on Present Agricultural<br/>Development Condition and Crop Diversification (11/14)

Remarks: PR; Perlis, KH; Kedah, PP; Pulau Pinang, PK; Perak, SR; Selangor, NS; Negeri Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu, KN; Kelantan, SA; Sabah, and SK; Sawarak

\*; Multiple answers are given.

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······································							· .					Unit	: Num	iber (%
Item	PR	KH	PP	PK	SG	NS	MA	JR	PH	ΊR	KN	SA	SK	Total
EXPECTED BENEFICI	AL EFFEC	CTS BY	g GRO	WING	OTHE	R CR	OPS TH	IAN P	ADDY	(Q.16	05)	t. The	: **	
a. Income increase	32	48	22	77	.9	169	90	14	252	59	107	66	65	1,01
	(80)	(42)	(72)	(84)	(45)	(84)	(77)	(42)	(79)	(90)	(86)	(84)	(89)	(7
b. Stable revenue	11	18	9	40	4	87	50	5	109	19	ġ	47	28	43
	(28)	(16)	(29)	(44)	(20)	(44)	(43)	(15)	(34)	(29)	(7)	(59)	(38)	(3
c. Creation of	11	3	10	36	3	4	67	4	94	25	0	13	20	29
employment opportunity	(28)	(3)	(32)	(40)	(15)	(2)	(58)	(12)	(29)	(38)	(0)	(17)	(28)	(2
d. Leveling up of	10	22	11	47	1	67	47	9	114	14	24	. 14	12	39
living standard	(25)	(19)	(35)	(52)	(5)	(34)	(41)	(27)	(36)	(22)	(19)	(18)	(16)	(3
e. Nothing special	6	56	6	11	7	Ť	12	15	46	<u> </u>	15	÷ 5	2	Ĩ
	(15)	(48)	(20)	(12)	(35)	(4)	(10)	(46)	(14)	(2)	(12)	(6)	(3)	. (1
f. Others	1	1	2	- 3	0	3	1	0	1	1	Ó	1	í	Ì
	(2)	(1)	(6)	(3)	(0)	(1)	(1)	(0)	(0)	(2)	(0)	(1)	(1)	. (
Total No. of	71	148	60	214	24	337	267	47	616	119	155	146	128	2,3
Responses*	(178)	(129)	(194)	(235)	(120)	(169)	(230)	(142)	(192)	(183)	(124)	(185)	(175)	(17
No. of	40	115	31	91	20	200	116	33	321	65	125	-79	73	1,3(
Respondents		• •												

# Table C-2Opinion Leaders' Views on Present Agricultural<br/>Development Condition and Crop Diversification (12/14)

Remarks: PR; Perlis, KH; Kedah, PP; Pulau Pinang, PK; Perak, SR; Selangor, NS; Negeri Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu, KN; Kelantan, SA; Sabah, and SK; Sawarak

													Uni	: Num	ber (%)
. ]	Item	PR	КН	PP	PK	SG	NS	MA	JR	PH	TR	KN	SA	SK	Total
18.	CONCERNS ABOU	JT INTRODU	CING (	OTHE	R CRO	PS TH	AN PA	DDY (	Q.160	5)	÷				
	a. Finance	20	68	14	54	3	92	86	14	194	33	98	36	43	755
		(50)	(59)	(45)	(60)	(15)	(45)	(74)	(43)	(60)	(51)	(79)	(46)	(59)	(58)
	b. Technique	16	. 36	13	35	1	33	73	2	. 88	11	53	- 33	26	420
		(40)	(31)	(42)	(38)	(5)	(17)	(63)	(6)	(27)	(17)	(42)	(41)	(36)	(32)
	c. Marketing	27	54	14	46	5	37	61	- 7	112	41	65	36	- 49	554
		(68)	(47)	(45)	(51)	(25)	(19)	(53)	(21)	(35)	(63)	(52)	(46)	(66)	. (42)
	d. Labor	14	25	11	- 33	13	133	. 76	4	208	9	35	19	- 7	587
	•	(35)	(22)	(35)	(36)	(65)	(66)	(66)	(12)	(65)	(14)	(28)	(24)	(10)	(45)
	e. Others	14	23	13	31	4	61	13	6	79	37	35	6	7	329
		(35)	(20)	(42)	(34)	(20)	(31)	(11)	(18)	(25)	(57)	(28)	(8)	(10)	(25)
	f. None	2	9	6	11	Ó	28	14	13	28	Ó	8	16	12	147
		(5)	(8)	(20)	(12)	(0)	(14)	(11)	(39)	(9)	(0)	(6)	(20)	(16)	(11)
	Total No. of	93	215	71	210	26	384	323	46	709	131	294	146	144	2,792
	Responses*	(233)	(187)	(229)	(231)	(130)	(192)	(278)	(139)	(221)	(202)	(235)	(185)	(197)	(213)
	No. of Respondents	40	115	31	91	20	200	116	33	321	65	125	79	73	1,309

Table C-2Opinion Leaders' Views on Present Agricultural<br/>Development Condition and Crop Diversification (13/14)

Remarks: PR; Perlis, KH; Kedah, PP; Pulau Pinang, PK; Perak, SR; Selangor, NS; Negeri Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu, KN; Kelantan, SA; Sabah, and SK; Sawarak

C - 29

Iten	1	PR	KH	PP	PK.	SG	NS	MA	JR	PH	TR	KN	SA	: Num SK	Tot
			~~~~		-			Lata (							
	GGESTIONS AND OPIN D CROP DIVERSIFICA				TION	ALIZA	TION								
An	D CROI DIVERSITICA		(Q.100	,											
a.	Repair drains/better	1	6	0	7	0	1	8	2	17	1	0	8	4	
	drainage system	(2)	(5)	(0)	(8)	(0)	(1)	(7)	(6)	(5)	(2)	(0)	(10)	(5)	
b.	Improve or	1	0	0	1	0	0	0	0	4	3	2	2	2	
	extend roads	(2)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(1)	(4)	(2)	(3)	(1)	
c.	More mechanization	0	1	1	1	2	1	2	1	24	3	19	4	6	
	and modernized	(0)	(1)	(3)	(1)	(10)	(1)	(2)	(3)	(7)	(4)	(15)	(5)	(8)	
	farming						_	_	_						
d.	More knowledge about	3	7	2	5	1	3	9	0	13	10	42	4	4	
	farming and introduction	(8)	(6)	(6)	(5)	(5)	(2)	(8)	(0)	(4)	(15)	(34)	(5)	(5)	
	of modern technique			_						-	~ ~ ~		-	10	
e.	Increase Govt. help	0	5	7	4	5	19	15	6	79	24	23	7	15	
_	for more crop harvest	(0)	(4)	(23)	(4)	(2.5)	(9)	(13)	(18)	(24)	(37)	(19)	(9)	(21)	(
f.	Supply agricul-	1	3	1	0	1	2	24	5	8	8	47	4	15	
	tural inputs	(2)	(3)	(3)	(0)	(5)	(1) 13	(21)	(15)	(2)	(13) 16	(37) 5	(5)	(21) 9	
g.	Better market for	1	5	3 (10)	1	1		7	1	6 (2)	(25)	(4)	_	(12)	
۲.	their crops	(2) 18	(4) 9	(10)	(1) 15	(5) 1	(6) 44	(6) 18	(3)	35	(23)	9	(1) 18	19	
n.	Promote crop diversification project	(45)	(8)	(23)	(17)	(5)	(22)	(16)	(6)	(11)	(2)	(7)	(22)	(26)	1
i.	Introduce other crops	(4J) 1	11	(25)	8	0	35	13	2	22	4	0	16	7	
1,	which require less	(2)	(10)	(19)	(8)	(0)	(17)	(11)	(6)	(7)	(6)	(0)	(20)	(10)	(
	manpower and care	(2)	(10)	(19)	(0)	(0)	(17)	(11)	(0)	(7)	(0)	(0)	(20)	(10)	
j.	Introduce crops which	3	4	1	10	0	10	14	0	10	2	2	3	12	
٦٠	are more profitable	(8)	(3)	(3)	(11)	(0)	(5)	(12)	(0)	(3)	(3)	(2)	(4)	(16)	
	with better yield	(0)	(3)	(3)	(11)	(0)	(0)	()	(0)	(5)	()	()	(.)	(10)	
k	Conduct surveys and	8	10	3	15	1	42	28	5	63	3	11	10	14	
	plant crops which are	(20)	(9)	(10)		(5)	(21)	(24)	(15)	(20)	(4)	(9)	(13)	(19)	(
	suitable for paddy field	()		()		()		```	<b>(</b> )- <b>/</b>	(				. ,	
1.	Project to be formulated	0	11	3	14	1	21	4	1	24	0	6	10	8	
	to increase income	(0)	(10)	(10)	(16)	(5)	(10)	(3)	(3)	(7)	(0)	(5)	(13)	(11)	
m.	Good irrigation water	17	14	1	16	1	8	7	2	22	17	9	9	6	
	supply/better irrigation	(43)	(12)	(3)	(18)	(5)	(4)	(6)	(6)	(7)	(26)	(7)	(11)	(8)	(
n.	Recommendation on	0	1	0	4	0	4	26	2	16	1	4	1	0	
	group farming	(0)	(1)	(0)	(4)	(0)	(2)	(22)	(6)	(5)	(2)	(3)	(1)	(0)	
о.	Prevention of major	1	1	0	4	0	4	6	0	11	- 9	3	4	1	
	problems like pests and	(2)	(1)	(0)	(4)	(0)	(2)	(5)	(0)	(3)	(14)	(2)	(5)	(2)	
	predator animals	_	_	-		_	_	-	-		-				
р.	Land improvement/	0	1	0	3	0	4	3	2	18	0	1	3	2	
	make the most of it	(0)	(1)	(0)	(3)	(0)	(2)	(3)	(6)	(6)	(0)	(1)	(4)	(3)	
q.	Paddy field not suitable	3	27	4	6	3	4	23	5	25	2	5	10		
	for other crops	(8)	(23)	(13)	(7)	(15)	(2)	(20)	(15)	(8)	(3)	(4)	(13)	(3)	
г.	Paddy steple food -	0	11	2	1	2	9	7	1	20	0	3	10		
0	Cannot change	(0)	(10) 20	(6) 5	(1)	(10)	(5) 41	(6) 2	(3)	(6) 21	(0)	(2) 47	(13)	(2) 2	
5.	No suggestion	5 (13)	(17)	) (16)	(8)	(10)	(20)	(2)	7 (22)	(7)	1 (2)	(37)	2 (3)	(3)	(
•	Others	3	15	8	35	8	43	25	(22)	92	(2)	10	13	18	
۱.	Omers	(8)	(13)	(26)	(39)	(40)	(22)	(21)	(12)	(30)	(9)	(8)	(16)	(23)	I
To	tal No. of	66	162	54	157	29	308	241	48	530	111	248	139	146	2,
Re	sponses*	(165)	(141)	(174)	(173)	(145)	(154)	(208)	(145)			(198)		(200)	(1
No	. of	40	115	31	91	20	200	116	33	321	65	125	79	73	1,
	spondents	0		14	/*	20	~00		55	, 561	05	120	0	15	<b>^</b>

# Table C-2Opinion Leaders' Views on Present Agricultural<br/>Development Condition and Crop Diversification (14/14)

Remarks: PR; Perlis, KH; Kedah, PP; Pulau Pinang, PK; Perak, SR; Selangor, NS; Negeri Sembilan, MA; Melaka, JR; Johor, PH; Pahang, TR; Terengganu, KN; Kelantan, SA; Sabah, and SK; Sawarak

Feasibility Study on Rationalization and Crop Diversification in Non-granary Irrigated Areas in Malaysia

> Vol. 2 Crop Diversification Evaluation Methodology

# Appendix D

Crop Suitability

# Feasibility Study on Rationalization and Crop Diversification in Non-granary Irrigated Areas in Malaysia

### Volume 2

# Appendix D

# Crop Suitability

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## Appendix D

## **CROP SUITABILITY**

#### D.1 Introduction

The agricultural environment comprises two elements: soil and climate. As climate is a major factor in soil formation, these two elements are interrelated, but in effects of the elements on agriculture these are of quite different characters. Soil conditions can be artificially improved to some extent. On the other hand, climate cannot be changed to make it coincide with crop requirements. Further, soils often indicate strong contrasts over short distances, while climate conditions show entirely different patterns of changes being normally different only over relatively large distance with very gradual transitions.

In Peninsular Malaysia, agriculture is in a process of rapid change. Agriculture has been grown under favorable climatic conditions such as few devastating storms, sufficient sunshine, temperatures close to the optimum growth of most cultivated crops, and rate periods of severe droughts. However, traditional experiences are of little assistance to introduce agricultural innovation and to promote crop diversification.

In setting up a criteria to evaluate potential for crop diversification in non-granary irrigated areas, therefore, examination of crop suitability from the soil and climatic viewpoints is one of the most important process. For this purpose, available information on soils and climate of Malaysia are collected from the Ministry of Agriculture (MOA), Malaysian Agricultural Research and Development Institute (MARDI) and Sarawak Department of Agriculture (DOA). Through review of information collected, the criteria is established aiming at evaluation of soil and climatic factors related to identify suitable crops.

The basic concept of criteria is to identify suitable crops firstly taking into account soil conditions and then to screen identified crops from the viewpoint of agro-climatic conditions.

#### D.2 Soil Suitability

#### D.2.1 Factors limiting crop growth

Definitions of suitability subclasses and classes are confined to general statements of conditions only. In practice, however, more specific parameters are needed to guide the allocation of mapping units to the various suitability subclasses and classes. For this purpose, the factors limiting crop growth in Malaysia are separated into the following four groups:

- <u>Very serious limitations</u>: such limitations will not only retard but may even totally inhibit the use of these soils for crop production,

<u>Serious limitations</u>: these are not detrimental to all crops. While some of the more sensitive crops may not survive such conditions, others may even thrive in these soils such as paddy and sago under wet conditions,

<u>Moderate limitations</u>: these affect a limited range of crops which may be very sensitive to some soil conditions. For most crops these limitations can be surmounted by proper management, and

<u>Minor limitations</u>: these affect only a selected number of crops. The effect is more in terms of yields than of crop survival.

The parameters indicated in Table D-1 are based on current knowledge of crop response to soils. With more empirical data on crop performances they may be defined even more precisely.

#### D.2.2 Soil suitability classes

Soils are grouped into suitability classes according to the severity of crop growth limitations. At this level of classification no recommendation can be given regarding choice of crops or management practices.

### Class 1: Soils with no limitation or only minor limitations to crop growth

The soils in Class 1 are suitable for the widest range of crops and can be profitably cultivated under a moderate level of management. These soils occur on flat to rolling terrain with a gradient of 0° to 12°. The soils have good waterholding and nutrient-retaining capacities and are well suited to continuous cropping on a sustained yield basis. The most versatile soils in this class are those found in flat areas where these can be utilized for a very wide range of dryland crops or irrigated for paddy cultivation. These are deep and well structured soils.

#### Class 2: Soils with moderate limitations to crop growth

These soils are suitable for a narrower range of crops than Class 1 soils. Management practices may include erosion control measures, minor drainage and irrigation works, or improvements resulting in better tilth.

Class 3: Soils with one serious limitation to crop growth

As these soils possess one serious limitation besides possibly one or more moderate limitations, they are restricted to an even narrower range of crops. Necessary management practices may include erosion control measures, intensive fertilizer program and/or drainage and irrigation works involving moderate expense.

### Class 4: Soils with more than one serious limitation to crop growth

In having more than one serious limitation these soils are suitable for a very narrow range of crops. Moreover, major conservation or amelioration measures are necessary before these soils can be cultivated on a long term basis.

Class 5: Soils with at least one very serious limitation to crop growth

The soils included within this class, in the present condition, are least suitable for crop growth. Where these are not built over for urban development or excavated for mining and quarrying purposes these soils are best allowed to continue under primary or regenerating forest.

### D.2.3 Soil suitability subclasses

Soil suitability subclasses are subdivisions within suitability classes. These subclasses are formed on the basis of the kinds of limitation affecting crop growth. While suitability classes are broad groupings, the subclasses are more specific. On the basis of subclasses it would be possible to make recommendations on specific crops and management practices. Thus the formation and inclusion of subclasses will give potential users a better guide regarding the choice of crops and the management practices which may be needed for long term cultivation of land.

As there are altogether 10 different types of limitations to crop growth in Malaysia, subdivision of suitability classes into subclasses is accordingly based on these different limitations. These are listed below with respective letter symbols which will indicate the kinds of limitation possessed.

Each soil limitation will therefore be indicated by its respective letter symbol as shown below.

Symbol	<b>Limitation</b>
a	: acid sulphate layer
C	: depth to compacted layer
D or d	: drainage
E or e	: erodibility
Н	: disturbed land
N or n	: nutrient imbalance
0	: organic horizon
R or r	: stoniness
S	: salinity
T or t	: texture and structure

The symbol "D" is used to indicate excessive drainage, while "d" represents poor drainage conditions.

The symbol "E" is used to indicate more erodible soils of which surface textures consist of less than 27% clay and more than 45% sand, while "e" represents less erodible soils.

The symbol "N" indicates the presence of toxic level of plant nutrients, while "n" denotes deficiency level.

The symbol "R" indicates the presence of less than 25 cm of stone-free soils, while "r" shows a less severe limitation to crop growth by the presence of stone.

The symbol "T" indicate moderately coarse-textured and medium-textured soils, while "t" represents moderately fine-textured and fine-textured soils.

Among these, limitations closely related to upland crop cultivation are drainage and acid sulphate layer. The detailed explanation of these two limitations is as below:

(1) Drainage

The drainage status of soils does not affect all plants in the same way. While wetland crops such as paddy and sago palm thrive under very wet conditions all dryland crops may not survive under these conditions. As most crops are inhibited in growth with increasing soil wetness or dryness, the drainage classes of the U.S.D.A. Soil Survey Manual have been adopted in this suitability classification.

Accordingly very poor drainage occurs when water is removed from the soils so slowly that the water table remains at or on the surface the greater part of the time. Poor drainage occurs when water

is removed so slowly that the soils remain wet for a large parts of the time; the water table is commonly at or near the surface during a considerable part of the year. Poorly drained conditions are due to a high water table, to a slowly permeable layer within the profile, to seepage, or to some combination of these conditions. Among the marine coastal clay soils, very poorly drained soils are characterized by a uniform greenish grey colour throughout the profile. Very poorly drained coastal sand and podzolic soils have dark-grey or black surfaces and are light grey, with or without mottling in the deeper parts of the profile. Poorly drained soils of marine clay origin have brownish grey to gravish brown profiles with or without mottles. Among the podzolic soils, poorly drained soils may be light grey from the surface downwards with or without mottlings. Very poorly and poorly drained conditions are serious limitations to the cultivation of all dryland crops, the only crops which can grow under such conditions being wet paddy and the sago palm.

Imperfect drainage has been defined as the condition when "water is removed from the soils slowly enough to keep it wet for significant periods but not all the time. Imperfectly drained soils commonly have a slowly permeable layer within the profile, a high water table, additions of water through seepage, or a combination of these conditions. Soils with imperfect drainage are characterized by the presence of mottles in the A, B and C horizons. This is a moderate limitation to crop growth as it only affects crops which are very sensitive to high moisture conditions.

In a moderately well drained soils, water is removed somewhat slowly so that the profile is wet for a small but significant part of the time. Moderately well drained soils commonly have a slowly permeable layer within or immediately beneath the solum, a relatively high water table, additions of water through seepage or some combination of these conditions. Moderately well drained soils have uniform colours in the A and upper B horizons with mottling in the lower B and C horizons.

On the other hand, excessive and somewhat excessive drainage affect crop growth through the possible lack of moisture supply. Excessive drainage occurs when water is removed from the soils very rapidly. The soils are very porous and usually have a very high sand content. Enough precipitation is commonly lost from these soils to make them unsuitable for ordinary crop production. Excessive drainage would therefore constitute a serious limitation to crop growth on a sustained yield basis.

In somewhat excessively drained soils, water is removed from the soils rapidly. Such soils may be predominantly sandy but would have a small percentage of clay or silt to retain moisture for some time.

#### (2) Acid sulphate layer

A considerable coverage of marine alluvial soils in Malaysia are highly acid due to the presence of excessive quantities of oxidizable sulphur compounds. These sulphur compounds are produced by the microbiological reduction of sulphur derived from sea water. When the soils are drained, oxidation of the sulphur compounds to sulphate takes place. Hydrolysis of the sulphate in water produces an acid condition in the soils. Drainage of a sulphate-containing soils usually results in severe deterioration of the condition of the soils so that very many years of continued aeration and leaching must elapse before the soils can become suitable for general cultivation.

As the acid sulphate condition of soils is influenced by the permanent ground water table, this condition occurs in affected soils as a definite layer within the profile. Utilization of acid sulphate soils involve proper drainage control and application of lime. Both of these are now standard recommendations for crop cultivation on acid sulphate soils; gradual lowering of minor drainage channels will remove excess sulphides and, at the same time, prevent the formation of sulphates; application of lime will neutralize the acidity of the soils.

The presence of the acid sulphate layer within the first 25 cm of the surface constitutes a serious limitation as the soils can only be considered for shallow-rooting crops. At depths between 25 and 50 cm, the cultivation of medium-rooting crops is possible, thus making the limitation a moderate one. When the acid sulphate layer is at 50 to 100 cm depth tree crop cultivation would be feasible so that the limitation can be considered to be minor only.

#### D.2.4 Soil-crop suitability classification

To examine soil-crop suitability classification, a total of 26 crop groups is as shown in Table D-2 and major crops are listed up below. Soil criteria for optimum growth of each crop group is set up as shown in Table D-3.

- Fruit group:	Durian/mango, guava, banana, papaya, citrus, pineapple, watermelon
- Food crop group:	Maize, sorghum, wet paddy, dry paddy
- Fodder group:	Fodder grasses, pasture

- Vegetable group:

- Industrial crop group:

Ginger, groundnut, vegetables

Coconut, oil palm, cocoa, rubber, sago palm, cashewnut, coffee, tea, clove, tobacco, sugarcane, pepper

# D.2.5 Evaluation of soil suitability classes for non-granary irrigation schemes

By referring available soil maps, identification of soil series is made for the purpose of evaluating soil suitability classes and selecting suitable crops. The list of soil series identified in the 924 non-granary irrigated areas is presented in Tables D-4 to D-16 with soil suitability classes. Then, crop suitability is examined based on the matrix as shown in Table D-17.

In the non-granary irrigated area, a total of 23 soil series is identified in Peninsular Malaysia, eight soil associations in Sabah and Sarawak through examination of soil maps. Soil classes and main features of each soil series distributed in Peninsular Malaysia are summarized below.

- Akob soil series with soil class "2dt" is found in Perlis, Kedah, Pulau Pinang, Perak, Selangor, Negeri Sembilan, Melaka, Johor, Pahang and Trengganu. Limitations to crop growth are expressed by imperfect drainage, and weak structure and variable texture.
- Briah soil series with soil classes "2dt" and "3d(t)" extends over Kedah, Johor and Pahang. Limitations to crop growth are expressed by imperfect to poor drainage, and fine texture with strong coarse structures.
- Chempaka soil series with soil class "2d" is identified in Trengganu and Kelantan. Limitation to crop growth is expressed by imperfect drainage. Chengai soil series with soil class "2d" is distributed in Kedah and Pulau Pinang. Limitation to crop growth is expressed by imperfect drainage.
- Holyrood soil series with soil classes "2DnT" and "3n(DT)" spreads in Perlis, Kedah, Negeri Sembilan, Johor and Kelantan. Limitations to crop growth are expressed by somewhat excessive drainage, more erodable on 0° to 6° slopes, acute nutrient deficiencies, moderately coarse to coarse texture, weakly structure, and low nutrient-retaining capacity among coarse-textured members.
- Hutan soil series with soil class "2d" is found in Perlis and Kedah. Limitation to crop growth is expressed by imperfect drainage.
- Kampong Pusu soil series with soil class "2dt" extends over Kedah, Pulau Pinang, Negeri Sembilan, Melaka, Johor and Pahang. Limitations to crop growth are expressed by imperfect drainage, fine texture and weak structure.

Linau soil series with soil classes "4dt(a)" and "4adt" is found in Melaka. Limitations to crop growth are expressed by acid sulphate layer within 30 cm depth, poor drainage, fine texture and structureless.

- Local Alluvium soil series with soil classes "3d(t)" and "3d(T)" is identified in Perlis, Kedah, Pulau Pinang, Perak, Negeri Sembilan, Melaka, Johor, Pahang and Trengganu. Limitations to crop growth are expressed by poor drainage and variable textures with poor structures.
- Lubok Itek soil series with soil classes "3d(t)" and "3d(at)" is distributed in Kelantan. Limitations to crop growth are expressed by acid sulphate at 30 to 100 cm depth, very poor drainage and fine texture with weak coarse structure.
- Lubok Sendong soil series with soil class "3d(t)" spreads in Kelantan. Limitations to crop growth are expressed by very poor drainage and fine texture with weak coarse structure.
- Lunas soil series with soil class "2dt" is found in Perlis, Kedah, Negeri Sembilan, Melaka, Johor, Pahang and Kelantan. Limitations to crop growth are expressed by imperfect drainage, moderately fine texture and weak structure.
- Lundang soil series with soil class "1d" extends over Trengganu and Kelantan. Limitation to crop growth is expressed by moderately well drainage.
- Organic Clay and Muck soil series with soil classes "2dt", "3t(d)" and "4dt" is identified in Perak, Selangor, Melaka, Johor and Pahang. Limitations to crop growth are expressed by imperfect to poor drainage, structureless to weakly structure, and moderate nutrient deficiency.
- Peat soil series with soil classes" 2dn(o)", "2dno", "3D(n)", "3D(no)", "3d(n)", "3d(no)", "3o(dn)", "4Do(n)", "4do(n)" and "5o(d)" is distributed in Negeri Sembilan, Pahang and Trengganu. Limitations to crop growth are expressed by excessive drainage in case of drained peat, imperfect to very poor drainage, variable thickness, and acute nutrient deficiencies.
- Rudua soil series with soil class "4DnT(c)" spreads in Trengganu. Limitations to crop growth are expressed by compact layer below 50 cm depth, excessive drainage, structureless sand, acute nutrient deficiency, and low nutrient-retaining capacity.
- Rusila soil series with soil classes "4dt" and "4dT" is found in Pahang and Trengganu. Limitations to crop growth are expressed by poor drainage, and variable textures and structures.

- Sedu soil series with soil classes "2adt" and "2dt(a)" extends over Melaka. Limitations to crop growth are expressed by acid sulphate layer at 30 to 100 cm depth, imperfect drainage and fine texture with weak structure.

- Sembrin soil series with soil class "2t" is identified in Perlis and Kedah. Limitation to crop growth is expressed by fine texture with weak structure.
- Sitiawan soil series with soil class "1d" is distributed in Perlis. Limitation to crop growth is expressed by moderately well drainage.
- Sogomana soil series with soil class "3c(dt)" spreads in Perlis. Limitations to crop growth are expressed by compact layer at 30 cm depth, imperfect drainage, and fine texture with weak to moderate and medium to coarse structures.
- Sungat Amin soil series with soil classes "2dt" and "3d(t)" is found in Kelantan. Limitations to crop growth are expressed imperfect to poor drainage and fine texture with weak structure.
- Telemong soil series with soil classes "2Dt", "2DT", "3D(t)" and "3D(T)" extends over Kedah, Perak, Selangor, Negeri Sembilan, Melaka, Johor, Pahang, Trengganu and Kelantan. Limitations to crop growth are well to excessive drainage and variable texture with weak structure.
- Tok Yong soil series with soil class "1" is identified in Kelantan. There are no limitations to crop growth on a sustained yield basis in this soil.

Soil classes and main features of the respective soil associations found in non-granary irrigated areas in Sabah are summarized below.

- Weston soil association with soil class "5sa" is identified in tidal swamps. Limitations to crop growth are very poor drainage and salinity.
- Tuaran soil association with soil class "3wi" extends over meander belts adjacent to rivers and streams. There are no limitations to crop growth because soils are formed of alluvium with moderately coarse structure.

Kinabatangan soil association with soil class "4fw" is distributed to flood plains. Limitation to crop growth is very poor to poor drainage.

- Sapi soil association with soil class "3w" is found in freshwater swamps which are formed as small areas of back-swamps in

the low-lying tributary valleys between the floodplains and hills and between tidal swamps and hills. Limitation to crop growth is very poor drainage.

- Karamuak soil association with soil class "4ws" spreads in valley floors and terraces formed along streams and rivers. Limitations to crop growth are poor drainage and shallow soil depth.
- Labau soil association with soil class "3wi" is identified in terraces formed along valley floors. Limitations to crop growth are imperfect drainage and frequent and short inundation.
- Binkor soil association with soil class "3w" extends over alluvial terraces of marine origin. Basically soils are well drained and deep. But soils used as paddy fields are subjected to imperfect drainage due to micro topographic conditions.
- Brantian soil association with soil class "4fm" is distributed in terrace remnants. Limitations to crop growth are low moisture-holding capacity and very low fertility.

Soil classes and main features of each soil series distributed in non-granary irrigation schemes in Sarawak are highlighted below.

- Rajang soil series with soil class "5sa" is mineral soils and has such limitations to crop growth as very serious salinity of groundwater and shallow depth to sulphidic layer.
- Plan soil series with soil class "4fw" is mineral soils derived from riverine alluvium and has such limitations to crop growth as acute deficiency of fertility, low retention of nutrients and low moisture-holding capacity.
- Bijat soil series with soil class "3wi" is mineral soils originated from riverine alluvium and has such limitations to crop growth as imperfect drainage and frequent and short inundation hazard.
- *Mukah soil series* with soil class "04gf" is organic soils and has such limitations to crop growth as very shallow depth to groundwater table and very low fertility.
- Anderson soil series with soil class "05go" is organic soils and has such limitations to crop growth as very shallow depth to groundwater table and very deep organic layer.

### D.3 Agro-climatic Suitability

### D.3.1 Factors influencing crop growth

#### (1) Perennial lowland crops

The main climatic requirements for optimal growth of perennial lowland crops are indicated in Table D-18. The most important factor for these crops is the duration of a dry month. Where this regularly exceeds two months, the cultivation of oil palm, cocoa, banana and pepper without irrigation is practically excluded, but crops such as sugarcane, cashewnut and mango may thrive under these conditions.

Surplus rainfall, often associated with flash floods, is an unfavorable factor to all perennial lowland crops with a different degree of effects. Cassava, pineapple, banana and papaya are most sensitive to this condition.

Strong winds are particularly harmful to rubber and banana trees, though cocoa and various fruit trees also suffer from wind gusts.

Sunshine requirements vary strongly among the perennial lowland crops. Much sunshine is needed by oil palm, coconut, sugarcane, mango, but cocoa needs shading for good performance. Most other perennial crops show a positive reaction to sunshine.

Other climatic factors are only important to some crops. Rainfall maximum during the morning is definite disadvantage to rubber cultivation because it interferes with tapping which is carried out in the morning. A small range of the diurnal temperature is preferred by oil palm and coconut, while larger diurnal temperature differences are favorable to sugarcane, papaya and durian.

(2) Annual lowland crops

The big advantage of these crops is that unfavorable reasons can be avoided by judicious timing of plating. In Peninsular Malaysia, the planting time is usually decided by the water supply situation. Unirrigated annual crops can avoid dry months. These crops have short root systems and therefore can draw moisture from only a shallow layer of soil. No annual lowland crops can survive under such condition for long and need a regular supply of rainfall. Where irrigation is possible, annual crops are normally planted after wet months when water supply is most reliable.

All annual crops except for wet paddy are unfavorably affected by heavy rainfall. Soils saturated with water prevent the efficient intake of nutrients by the roots due to lack of aeration. Flash floods may do irreparable damage to these crops.

Other climatic factors are of minor importance for the optimal growth of annual lowland crops. Because of the freedom in selecting

the most suitable season for cultivation, annual crops are less strictly controlled by climate than perennial crops. Most annual crops can be cultivated successfully almost anywhere in the lowlands of Penninsular Malaysia, provided the right time of planting is chosen.

### D.3.2 Agro-climatic region

Agro-climatic regions set up by MARDI are determined by the following monthly climatic characteristics:

D; dry month, defined by the Agricultural Rainfall Index being below 40 during at least 20% of the last 30 years on record. The Agricultural Rainfall Index is expressed by rainfall in percent of the potential evapotranspiration. A dry season or "agricultural drought" is defined as a period when the Agricultural Rainfall Index is below 40, indicating that less than half of the water requirements of most crops is supplied by rainfall.

d; *irregular rainfall*, causing *short-term droughts*. Even during months with a reasonable total rainfall, much of it may have been received during only a few days. This concentration in time may cause moisture stress in plants with shallow root systems. A daily water-balance model is used to calculate the probability of days with a low moisture content in the topsoil. When this probability exceeds 40% during a certain month over a period of 25 years, the symbol "d" is used. Where "D" is indicated for the same month, "d" is omitted because in that cases it is irrelevant.

m; diurnal rainfall maximum during the morning. In coastal areas the diurnal distribution of rainfall shows a morning maximum when the main monsoonal wind comes from the sea.

F, f; probability of flash floods. These are caused by continuous intensive rainfall. Flash floods occur most frequently when the monthly total rainfall exceeds about 200 mm. The symbol "F" indicates that flash floods happen during 90% of the years on record, while "f" indicates a probability of 80%. However, the occurrence of flash floods is strongly affected by local landforms.

WW, w; probability of strong wind gusts. Strong winds are particularly damaging to tree crops. Since wind records are kept at only a few meteorological stations in the country, the danger cannot be quantified very well. It is assumed here that wind gusts occur most frequently in coastal areas.

r; *heavy cloudiness*, that reduces the amount of solar radiation to levels which are insufficient for some crops. The indicator

is used when the monthly mean number of sunshine hours per day is below 4.6. This value corresponds to about 40% of the maximum possible hours of sunshine.

Using these criteria, MARDI divides the lowlands of Peninsular Malaysia into 26 agro-ecological regions. Monthly characteristics in each region is shown in Table D-19. Climatic advantages and limitations for each particular crop in the respective regions are indicated in Table D-20. The correlation between administrative districts and these 26 agro-ecological regions is shown in Table D-21. Recommendable crops, both suitable and marginal, in each agroecological region are listed up in Table D-22.

Feasibility Study on Rationalization and Crop Diversification in Non-granary Irrigated Areas in Malaysia

> Vol. 2 Crop Diversification Evaluation Methodology

> > Appendix D

Tables

## Table D-1 Soil Limitations to Crop Growth

Symbol	Туре	Very Serious	Serious	Moderate	Minor
a	Depth to acid sulphate layer	-	0-25 cm fro the suerface (0-10 inches)	>25-50 cm from the surface (10-20 inches)	>50-100 cm from the surface (20-40 inches)
C	Depth to compacted layer	0-25 cm from the surface (0-10 inches)	>25-50 cm from the surface (10-20 inches)	>50-75 cm from the surface (20-30 inches)	>75-100 cm from the surface (30-40 inches)
D	Drainage	•	Excessively drained	Somewhat excessively drained	
d	2		Very poorly to poorly drained	Imperfectly drained	Moderately well drained
E	Erodibility	*>20° slopes for more erodable soils	>12'-20' slopes for more erodable soils	>6'-12' slopes for more erodable soils	2'-6' slopes for more erodable soils
e		>35* slopes for less erodable soils	>20°-35° slopes for less erodable soils	>12°-20° slopes for less erodable soils	2°-12° slopes for less erodable soils
	Nutrient imbalance	Toxicity caused by extremely high contents of certain elements	-		
n		-	Low nutrient retaining capacity with or without acute nutrient deficiencies	Acute nutrient deficiencies	-
0	Organic horizon thickness	>125 cm plus other unfavourable properties	>125 cm thick from the survace	>50-125 cm thick from the surface	25-50 cm thick from the surface
R	& stoniness to 100 cm depth	>75% with 0-25 cm stone-free soil	>50-75% with 0-25 cm stone-free soil	>25-50% with 0-25 cm stone-free soil	10-25% with 0-25 cm stone-free soil
r	·		-	>50-75% with 25-50 cm stone-free soil	25-50% with 25-50 cm stonc-free soil
s	Salinity	-	Strongly saline	Moderately saline	Very slightly saline
Т	Texture and structure		Coarse textured and structureless	Coarse textured and weakly structured	~
t			Fine textured and structureless	Fine textured and weakly structured or strongly coarse structured	-
Н	Human	Land disturbed by urbanization (u) and mining (m)	-		-

Remarks: \*; In Sarawak the distinct change in slope occurs at 25° instead of 20°. Source: Federal and Sarawak

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Сгор	Common Malaysian	Other Common
Group	Name	Name
		Transmind
1.	Asam jawa	Tamarind
	Bacang	Dur wit work
	-	Brazil nut
	Berangan	
	Binjai	
	Durian	
	Kuini	
	Kundang	
e a la companya de la	Mangga	Mango
and the second	Mata Kucing	
· · · ·	Nangka	Jackfruit
	Rambai	
	Sentol	
	Sukun	Breadfruit
2.	Kelapa	Coconut
3.	Kelapa Sawit	Oil palm
	Pinang	Arecanut
4.	Asam gelugur	
e de la companya de	Buah keras	Candle nut
	Buah mentega	
	Cempedak	
	Ciku	
	Duku	
	Jambu air	Water rose apple
	Jambu bol	Mountain apple
	Jambu mawar	Rose apple
	Kedondong	
	Kelumpang	
	Koko	Cocoa
	Langsat	00004
	Longan	
	Manggis	Mangosteen
	Meninjau	mangosteen
	Pulasan	
	Rambutan	
	Kambatan	
5.		Avocado
5.	Buah pala	Nutmeg
	Getah	Rubber
	Kapok	
	Jarak	Castor
	JULIK	
6.	Sam	Sago palm
υ.	Sagu	bago pann

# Table D-2 List of Crops Examined on Soil-crop Suitability Classification (1/2)

Source: DOA

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Crop Common Malaysian		Other Common	
Group	Name	Name	
7	Bedara	Chinese dates	
	Belimbing buluh		
	Belimbing manis	Carambola	
	Buah nona	Custard apple	
	Cermai	Country gooseberry	
	Delima During balanda	Pomegranate	
	Durian belanda Jambu batu	Soursop Guava	
	Nona srikaya	Sop	
	Rukam manis	Rokam	
	Rukam masam		
	Salak		
8.	-	Abaca	
0.	. <b>-</b> .	Kenaf	
	Makisa	Passion fruit	
	Pisang	Banana	
9.	Gajus	Cashewnut	
10.	Kopi	Coffee	
· 11.	Teh	Tea	
12.	Cengkih	Clove	
13.	Betik	Рарауа	
14.	Tembakau	Tobacco	
15.	Limau	Citrus	
16.	Halia	Ginger	
17.	Tebu	Sugarcane	
18.	Jagong	Maize	
	Ubi kayu	Tapioca	
19.	Sekoi	Sorghum	
20.	Lada hitam	Pepper	
21.	Nanas	Pineapple	
22.	Kacang tanah	Ground nut	
23.	Sayur-sayur (+ Keledek)	Vegetable (+ sweet potatoes)	
24.	Padi sawah	Wet paddy	
25.	· <b>"</b>	Fodder grasses	
26.		Pasture	

# Table D-2 List of Crops Examined on Soil-crop Suitability Classification (2/2)

Source: DOA

\_\_\_\_\_