

Number of Households in the Whole Kingdom

In estimating household socio-economic data for regions and the Whole Kingdom, weight factors used were based on the following estimates of the number of households as of July 1992, mid-point of the survey period.

Number of households as of July 1992

Regions	Total	Municipal Areas	Sanitary Districts	Villages
Central ^{1/}	2,851,648	342,666	455,988	2,052,994
Northern	3,036,046	278,376	352,525	2,405,145
Northeastern	4,686,167	247,841	374,332	4,063,994
Southern	1,931,921	303,126	144,158	1,484,637
Bangkok Metropolis, Nonthaburi, Pathum Thani and Samut Prakan	2,490,704	2,027,806	156,506	306,392
Whole Kingdom	14,996,486	3,199,815	1,483,509	10,313,162

1/ excluding Bangkok Metropolis, Nonthaburi, Pathum Thani and Samut Prakan.

INPUT FORMAT

RECORD 01

SOCIO - ECONOMIC SURVEY, 1992

IDENTIFICATION				HOUSEHOLD				HOUSEHOLD HEAD				RECORD CONTROL				HOUSEHOLD INCOME AND EXPENDITURE				EST (MTH)
REGION				HOUSEHOLD SIZE				HOUSEHOLD TYPE				RECORD NO.				HOUSEHOLD HEAD				EST (MTH)
CHANGWAT				CHILDREN				SUB-RECORD NO.				HEAD				EST (MTH)				
COMMUNITY TYPE				5-10 YRS.				TYPE				SUB-RECORD NO.				RECIPIENTS				EST (MTH)
BLOCK / VILLAGE				5-10 YRS.				TENURE				SUB-RECORD NO.				EARNERS				
QUARTER				SOCIO-ECONOMIC CLASS				AGE				SUB-RECORD NO.				TYPE OF ENTERPRISE				EST (MTH)
HOUSEHOLD NO.				AGE				SEX				SUB-RECORD NO.				NO. OF SUB-FAMILIES				
RECORD NO.				SEX				EDUCATION				SUB-RECORD NO.				RECORD 01				EST (MTH)
SUB-RECORD NO.				OCCUPATION				OCCUPATION				SUB-RECORD NO.				RECORD 02				
SIZE				RECIPIENTS				RECIPIENTS				SUB-RECORD NO.				RECORD 03				EST (MTH)
CHILDREN				EARNERS				EARNERS				SUB-RECORD NO.				RECORD 04				
TYPE				TYPE OF ENTERPRISE				TYPE OF ENTERPRISE				SUB-RECORD NO.				RECORD 05				EST (MTH)
TENURE				NO. OF SUB-FAMILIES				NO. OF SUB-FAMILIES				SUB-RECORD NO.				RECORD 06				
SOCIO-ECONOMIC CLASS				RECORD 01				RECORD 01				SUB-RECORD NO.				RECORD 07				EST (MTH)
AGE				RECORD 02				RECORD 02				SUB-RECORD NO.				RECORD 08				
SEX				RECORD 03				RECORD 03				SUB-RECORD NO.				RECORD 09				EST (MTH)
EDUCATION				RECORD 04				RECORD 04				SUB-RECORD NO.				NO. OF ALL HHS. IN BLOCK / VIL.				
OCCUPATION				RECORD 05				RECORD 05				SUB-RECORD NO.				NO. OF SAMPLE HHS.				EST (MTH)
RECIPIENTS				RECORD 06				RECORD 06				SUB-RECORD NO.				1/ Page				
EARNERS				RECORD 07				RECORD 07				SUB-RECORD NO.				MONTHLY CURRENT INCOME				EST (MTH)
TYPE OF ENTERPRISE				RECORD 08				RECORD 08				SUB-RECORD NO.				MONTHLY CONSUMPTION EXPENDITURE				
NO. OF SUB-FAMILIES				RECORD 09				RECORD 09				SUB-RECORD NO.				PER CAPITA CURRENT INCOME				EST (MTH)
RECORD 01				RECORD 01				RECORD 01				SUB-RECORD NO.				PER CAPITA CONSUMPTION EXPENDITURE				
RECORD 02				RECORD 02				RECORD 02				SUB-RECORD NO.				GENERATE FROM REC. 08 & 10				EST (MTH)
RECORD 03				RECORD 03				RECORD 03				SUB-RECORD NO.				Weight (MTH)				
RECORD 04				RECORD 04				RECORD 04				SUB-RECORD NO.								
RECORD 05				RECORD 05				RECORD 05				SUB-RECORD NO.								
RECORD 06				RECORD 06				RECORD 06				SUB-RECORD NO.								
RECORD 07				RECORD 07				RECORD 07				SUB-RECORD NO.								
RECORD 08				RECORD 08				RECORD 08				SUB-RECORD NO.								
RECORD 09				RECORD 09				RECORD 09				SUB-RECORD NO.								
NO. OF ALL HHS. IN BLOCK / VIL.				RECORD 01				RECORD 01				SUB-RECORD NO.								
NO. OF SAMPLE HHS.				RECORD 02				RECORD 02				SUB-RECORD NO.								
1/ Page				RECORD 03				RECORD 03				SUB-RECORD NO.								
MONTHLY CURRENT INCOME				RECORD 04				RECORD 04				SUB-RECORD NO.								
MONTHLY CONSUMPTION EXPENDITURE				RECORD 05				RECORD 05				SUB-RECORD NO.								
PER CAPITA CURRENT INCOME				RECORD 06				RECORD 06				SUB-RECORD NO.								
PER CAPITA CONSUMPTION EXPENDITURE				RECORD 07				RECORD 07				SUB-RECORD NO.								
GENERATE FROM REC. 08 & 10				RECORD 08				RECORD 08				SUB-RECORD NO.								
Weight (MTH)				RECORD 09				RECORD 09				SUB-RECORD NO.								

RECORD 02

IDENTIFICATION				HOUSEHOLD				HOUSEHOLD HEAD				RECORD CONTROL				HOUSEHOLD INCOME AND EXPENDITURE				EST (MTH)
(SAME AS RECORD 01)				HOUSEHOLD SIZE				HOUSEHOLD TYPE				RECORD NO.				HOUSEHOLD HEAD				EST (MTH)
RECORD NO.				CHILDREN				SUB-RECORD NO.				HEAD				EST (MTH)				
SUB-RECORD NO.				5-10 YRS.				TYPE				SUB-RECORD NO.				RECIPIENTS				EST (MTH)
MEMBER NUMBER				5-10 YRS.				TENURE				SUB-RECORD NO.				EARNERS				
RELATIONSHIP				SOCIO-ECONOMIC CLASS				AGE				SUB-RECORD NO.				TYPE OF ENTERPRISE				EST (MTH)
SEX				AGE				SEX				SUB-RECORD NO.				NO. OF SUB-FAMILIES				
AGE				AGE				EDUCATION				SUB-RECORD NO.				RECORD 01				EST (MTH)
MARITAL STATUS				EDUCATION				OCCUPATION				SUB-RECORD NO.				RECORD 02				
ATTENDING SCHOOL				OCCUPATION				OCCUPATION				SUB-RECORD NO.				RECORD 03				EST (MTH)
EDUCATION				OCCUPATION				OCCUPATION				SUB-RECORD NO.				RECORD 04				
OCCUPATION				OCCUPATION				OCCUPATION				SUB-RECORD NO.				RECORD 05				EST (MTH)
WORK STATUS				OCCUPATION				OCCUPATION				SUB-RECORD NO.				RECORD 06				
INDUSTRY				OCCUPATION				OCCUPATION				SUB-RECORD NO.				RECORD 07				EST (MTH)
OCCUPATION				OCCUPATION				OCCUPATION				SUB-RECORD NO.				RECORD 08				
WORK STATUS				OCCUPATION				OCCUPATION				SUB-RECORD NO.				RECORD 09				EST (MTH)
INDUSTRY				OCCUPATION				OCCUPATION				SUB-RECORD NO.				NO. OF ALL HHS. IN BLOCK / VIL.				
WAGES AND SALARIES				OCCUPATION				OCCUPATION				SUB-RECORD NO.				NO. OF SAMPLE HHS.				EST (MTH)
PROFIT, NON-FARM				OCCUPATION				OCCUPATION				SUB-RECORD NO.				1/ Page				
PROFIT FROM FARMING				OCCUPATION				OCCUPATION				SUB-RECORD NO.				MONTHLY CURRENT INCOME				EST (MTH)
TRANSFER PAYMENTS				OCCUPATION				OCCUPATION				SUB-RECORD NO.				MONTHLY CONSUMPTION EXPENDITURE				
PROPERTY INCOME				OCCUPATION				OCCUPATION				SUB-RECORD NO.				PER CAPITA CURRENT INCOME				EST (MTH)
OTHER MONEY RECEIPTS				OCCUPATION				OCCUPATION				SUB-RECORD NO.				PER CAPITA CONSUMPTION EXPENDITURE				
TOTAL MONTHLY INCOME				OCCUPATION				OCCUPATION				SUB-RECORD NO.				GENERATE FROM REC. 08 & 10				EST (MTH)
CHECK LAST MEMBER				OCCUPATION				OCCUPATION				SUB-RECORD NO.				Weight (MTH)				

RECORD 03

IDENTIFICATION		RECORD NO.		SUB-RECORD NO.		DATA FIELD 1		DATA FIELD 2		DATA FIELD 3		DATA FIELD 4		DATA FIELD 5		DATA FIELD 6		DATA FIELD 7		DATA FIELD 8		DATA FIELD 9		DATA FIELD 10		DATA FIELD 11		DATA FIELD 12		DATA FIELD 13		DATA FIELD 14																																		
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RECORD 05

IDENTIFICATION		RECORD NO.		SUB-RECORD NO.		TYPE OF DWELLING		DRINKING WATER		WATER SUPPLY FOR USE		TOILET FACILITIES		COOKING FUEL		NO. OF ROOMS		SLEEPING ROOMS		ELECTRICITY		TELEPHONE		CONSTRUCTION		TENURE		WHO PAY FOR RENT?		RENTAL VALUE		ADVANCE PAYMENT ON RENT (BAHT/YR.)		MOBILITY		LIVING ROOM SOFA		BED (WOOD OR METAL)		GAS		ELECTRIC		REFRIGERATOR		ELECTRIC IRON		COOKING POT, ELECTRIC		ELECTRIC FAN		RADIO		BLACK & WHITE		COLOR		WATER BOILER		BICYCLE		MOTORCYCLE		VIDEO		WASHING MACHINE		AIR CONDITIONER		AUTOMOBILE		PICK-UP (MINI-TRUCK)		OTHER MINI-TRUCK		MOTORBOAT		SEWING MACHINE		USE FOR BUSINESS?																			
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

RECORD 06

[illegible]

RECORD 07

IDENTIFICATION	DATA FIELD 1	DATA FIELD 2	DATA FIELD 3	DATA FIELD 4	DATA FIELD 5	DATA FIELD 6	DATA FIELD 7	DATA FIELD 8	DATA FIELD 9	DATA FIELD 10	DATA FIELD 11	DATA FIELD 12	DATA FIELD 13	DATA FIELD 14
(NAME AS RECORD 01)	RECORD NO.													
	SUB-RECORD NO.													
	GROUP	SOURCE	VALUE (BAHT)	GROUP	SOURCE	VALUE (BAHT)	GROUP	SOURCE	VALUE (BAHT)	GROUP	SOURCE	VALUE (BAHT)	GROUP	SOURCE
	GROUP	SOURCE	VALUE (BAHT)	GROUP	SOURCE	VALUE (BAHT)	GROUP	SOURCE	VALUE (BAHT)	GROUP	SOURCE	VALUE (BAHT)	GROUP	SOURCE
ID 01	66	65	01	66	65	01	66	65	01	66	65	01	66	65
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	12	11	03	12	11	03	12	11	03	12	11	03	12	11
	13	12	04	13	12	04	13	12	04	13	12	04	13	12
ID 02	66	65	02	66	65	02	66	65	02	66	65	02	66	65
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	12	11	04	12	11	04	12	11	04	12	11	04	12	11
	13	12	05	13	12	05	13	12	05	13	12	05	13	12
ID 03	66	65	03	66	65	03	66	65	03	66	65	03	66	65
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	12	11	06	12	11	06	12	11	06	12	11	06	12	11
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ID 04	66	65	04	66	65	04	66	65	04	66	65	04	66	65
	7	6	06	7	6	06	7	6	06	7	6	06	7	6
	12	11	07	12	11	07	12	11	07	12	11	07	12	11
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ID 05	66	65	05	66	65	05	66	65	05	66	65	05	66	65
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ID 06	66	65	06	66	65	06	66	65	06	66	65	06	66	65
	7	6	09	7	6	09	7	6	09	7	6	09	7	6
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ID 07	66	65	07	66	65	07	66	65	07	66	65	07	66	65
	7	6	11	7	6	11	7	6	11	7	6	11	7	6
	12	11	12	12	11	12	12	11	12	12	11	12	12	11
	13	12	13	13	12	13	13	12	13	13	12	13	13	12

RECORD OF

IDENTIFICATION	DATA		DATA		DATA		DATA		DATA		DATA		DATA		DATA		DATA	
	FIELD 1	FIELD 2	FIELD 3	FIELD 4	FIELD 5	FIELD 6	FIELD 7	FIELD 8	FIELD 9	FIELD 10	FIELD 11	FIELD 12						
(NAME AND RECORD 01)	CODE		CODE		CODE		CODE		CODE		CODE		CODE		CODE		CODE	
	VALUE (BAHT)		VALUE (BAHT)		VALUE (BAHT)		VALUE (BAHT)		VALUE (BAHT)		VALUE (BAHT)		VALUE (BAHT)		VALUE (BAHT)		VALUE (BAHT)	
RECORD NO.																		
SUB-RECORD NO.																		
ID1-----ID6	HC1	HC2	HC3	HC4	HC5	HC6	HC7	HC8	HC9	HC10	HC11	HC12						
1-----10	15-17	18-23	24-35	36-41	42-53	54-62	63-71	72-77	78-86	87-94	95-103	104-113	114-116	117-122				
08	HOUSEHOLD INCOME																	

09 0000

[illegible]

RECORD 10

IDENTIFICATION		RECORD NO.		SUB-RECORD NO.		DATA FIELD 1		DATA FIELD 2		DATA FIELD 3		DATA FIELD 4		DATA FIELD 5		DATA FIELD 6		DATA FIELD 7		DATA FIELD 8		DATA FIELD 9		DATA FIELD 10		DATA FIELD 11		DATA FIELD 12	
NAME AS RECORD 01)		RECORD NO.		SUB-RECORD NO.		CODE VALUE (CBANT)		CODE VALUE (CBANT)		CODE VALUE (CBANT)		CODE VALUE (CBANT)		CODE VALUE (CBANT)		CODE VALUE (CBANT)		CODE VALUE (CBANT)		CODE VALUE (CBANT)		CODE VALUE (CBANT)		CODE VALUE (CBANT)		CODE VALUE (CBANT)		CODE VALUE (CBANT)	
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THAILAND 1992

Input Data

Record No.	Content	No of sub-records in each household
01	Household characteristics, household head	01
02	Household member characteristics	01 - 20
03	Income from other sources	00 - 02
04	Change of assets and liabilities	00 - 07
05	Housing characteristics	01
06	Consumption on goods and services	01 - 15
07	7 - day food consumption	01 - 06
08	Household income	01 - 03
09	Energy consumption	00 - 02
10	Summary household expenditures (impute from record 06 & 07)	01 - 05

DATA DICTIONARY
SOCIO-ECONOMIC SURVEY, 1992

RECORD 01

HOUSEHOLD CHARACTERISTICS, HOUSEHOLD HEAD

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
<u>IDENTIFICATION</u> REGION	<u>ID1-ID6</u> ID1	1	1	1 - North 2 - Northeast 3 - Central (Excl. 5 & 6) 4 - South 5 - Bangkok Metropolis 6 - Nonthaburi, Pathumthani and Samutprakan	
CHANGWAT	ID2	2	2	(See Changwat, Block & Village Codes Listing)	APPENDIX A
COMMUNITY TYPE	ID3	4	1	1 - Municipal area 2 - Sanitary district 3 - Village	
BLOCK/VILLAGE	ID4	5	3	(See Changwat, Block & Village Codes Listing)	APPENDIX A
QUARTER	ID5	8	1	1 - 1 st QUARTER 2 - 2 nd QUARTER 3 - 3 rd QUARTER 4 - 4 th QUARTER	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
HOUSEHOLD NO.	ID6	9	2	IF ID3 = $\begin{cases} 1 \Rightarrow \text{ID6} = 01 \text{ to } 15 \\ 2 \Rightarrow \text{ID6} = 01 \text{ to } 09 \\ 3 \Rightarrow \text{ID6} = 01 \text{ to } 07 \end{cases}$	
RECORD NO.	ID7	11	2	01	
SUB-RECORD NO.	ID8	13	2	01	
<u>HOUSEHOLD SIZE</u>	<u>A01-A06</u> A01	15	2	01 to 20	
CHILDREN < 5 YRS. OLD	A02	17	1	0 to 9	
CHILDREN 5-10 YRS. OLD	A03	18	1	0 to 9	
TYPE	A04	19	1	1 - One person only 2 - Head and spouse present 3 - One parent with unmarried children 4 - All others	
TENURE	A05	20	1	1 - Owns house and land (included hire-purchased) 2 - Owns house on rented land 3 - Pays rent for house 4 - Receives rent free	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
SOCIO-ECONOMIC CLASS	A06	21	2	<p><u>01-06 : FARM OPERATOR OWNING LAND PRIMARILY</u></p> <p>01 - Less than 2 rai 02 - 2 to 4 rai 03 - 5 to 9 rai 04 - 10 to 19 rai 05 - 20 to 39 rai 06 - 40 rai or more</p> <p><u>11-13,19 : FARM OPERATOR. RENTING LAND PRIMARILY</u></p> <p>11 - Less than 5 rai 12 - 5 to 19 rai 13 - 20 rai or more 19 - Fishing,forestry,etc.</p> <p><u>21-22 : ENTREPRENEURS,TRADE AND INDUSTRY</u></p> <p>21 - With paid workers 22 - Without paid workers</p> <p><u>31-32 : PROFESSIONAL, TECHNICAL & MANAGERIAL</u></p> <p>31 - Working on own account 32 - Employed by others</p> <p><u>41-42 LABOURERS</u></p> <p>41 - Farm workers 42 - General workers</p> <p><u>50,60 : OTHER EMPLOYEES</u></p> <p>50 - Clerical, sales & Services workers</p>	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				60 - Production & construction workers <u>71-72 : ECONOMICALLY</u> <u>INACTIVE HOUSEHOLDS</u> 71 - Receiving assistance or pensions 72 - Receiving property income	
<u>HOUSEHOLD HEAD</u>	<u>A07-A10</u>				
AGE	A07	23	2	13 to 99	
SEX	A08	25	1	1 - Male 2 - Female	
EDUCATION	A09	26	2	01 - No formal education 10 - Kindergarten <u>11-14 : ELEMENTARY-LOWER</u> 11 - Elementary grade 1 12 - Elementary grade 2 13 - Elementary grade 3 14 - Elementary grade 4 <u>15-17 : ELEMENTARY-UPPER</u> 15 - Elementary grade 5 16 - Elementary grade 6 17 - Elementary grade 7 19 - Elementary not specified grade	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				<u>20-23 : SECONDARY-LOWER</u> 20 - Secondary grade 1 21 - Secondary grade 1 22 - Secondary grade 2 23 - Secondary grade 3 <u>24-26 : SECONDARY-UPPER</u> 24 - Secondary grade 4 25 - Secondary grade 5 26 - Secondary grade 6 29 - Secondary not specified grade <u>31-36 : UNIVERSITY</u> 31 - University, 1 st year 32 - University, 2 nd year 33 - University, 3 rd year 34 - University, 4 th year 35 - University, 5 th year 36 - University, 6 th year 37 - Bachelor degree 38 - Higher than Bachelor degree 39 - University not specified level 40 - Lower vocational 50 - Upper vocational 60 - High vocational	(Revise scheme)

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				61 - Teacher training 62 - Technical & advanced vocational 90 - Other education 99 - Unknown or not reported	
OCCUPATION	A10	28	3	(See 3-digit occupation codes)	Appendix B
RECIPIENTS	A11	31	1	1 to 9	
EARNERS	A12	32	1	0 to 9	
TYPE OF ENTERPRISE	A13	33	2	<u>11-17 : AGRICULTURAL</u> 11 - Rice farming 12 - Other crop farms and vegetables 13 - Fruits, permanent crops and shrub crops 14 - Livestock 15 - Poultry 16 - Fishing 17 - Forestry, hunting <u>21-22 : MINING & QUARRYING</u> 21 - Mining & Quarrying 22 - Salt production <u>31-36,39 : MANUFACTURING</u> 31 - Food & beverages	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				32 - Textiles 33 - Wood products 34 - Charcoal 35 - Metal products 36 - Paper products 39 - Other manufacturing <u>40 : ELECTRICITY, GAS & WATER</u> <u>50 : CONSTRUCTION</u> <u>61-67, 69 : TRADES</u> 61 - Wholesale 62 - Retail, general 63 - Food (groceries) 64 - Textiles 65 - Furniture 66 - Drugs 67 - Motor vehicles 69 - Other trades <u>71-77, 79 : SERVICES</u> 71 - Barber & beauty shops 72 - Auto repair 73 - Laundry & cleaning 74 - Entertainment 75 - Education (Schools) 76 - Medical, dental, vet. 77 - Restaurants, coffee shop 79 - Other services <u>81-82 : TRANSPORTATION</u> 81 - Taxi, samlor. 82 - Bus, boat, etc.	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				<u>90 : OTHER ENTERPRISES</u> <u>99 : NO ENTERPRISE</u>	
NO.OF SUB-FAMILIES	A14	35	1	0 to 5	
<u>RECORD CONTROL</u> (NO.OF SUB-RECORD)	<u>A15-A23</u>				
RECORD 01	A15	36	2	01	
RECORD 02	A16	38	2	01 - 20	
RECORD 03	A17	40	2	00 - 02	
RECORD 04	A18	42	2	00 - 07	
RECORD 05	A19	44	2	01	
RECORD 06	A20	46	2	01 - 15	
RECORD 07	A21	48	2	01 - 06	
RECORD 08	A22	50	2	01 - 03	
RECORD 09	A23	52	2	00 - 02	
<u>NO. OF HOUSEHOLDS,</u> N (NO.OF ALL HOUSEHOLDS IN BLOCK/VILLAGE)	A24	54	4	0001 - 9999	(N _{hijk})
n (NO.OF SAMPLE HOUSEHOLDS)	A25	58	2	01 - 15	(n _{hijk})
1/P _{hijk}	A26	60	10	0000000001 - 9999999999	Four dec mal poin

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
<u>HOUSEHOLD INCOME AND EXPENDITURE</u> (BAHT) MONTHLY CURRENT INCOME	<u>A27-A30</u> A27	 70	 6	Generate from record 08 code 911 $A27 = \sum_{i=1}^{12} HV_i \text{ when } HC_i = 911$ for every sub-record of record 08	
MONTHLY CONSUMPTION EXPENDITURES	A28	76	6	Generate from record 10 code 901 $A28 = \sum_{i=1}^{12} JV_i \text{ when } JC_i = 901$ for every sub-record of record 10	
PER CAPITA CURRENT INCOME	A29	82	6	$A29 = A27 \div A01$	Integer (rounded)
PER CAPITA CONSUMPTION EXPENDITURES	A30	88	6	$A30 = A28 \div A01$	Integer (rounded)

RECORD 02

HOUSEHOLD MEMBER CHARACTERISTICS

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANIAG	REMAR
<u>IDENTIFICATION</u>	<u>ID1-ID6</u>	1	10	<i>see first 10 fields of</i> Reproduce from record 01 <i>record 1</i>	
RECORD NO.	ID7	11	2	02	
SUB-RECORD NO.	ID8	13	2	01 - 20	
MEMBER NUMBER	B 01	15	2	01 - 20	
RELATIONSHIP TO HEAD	B 02	17	1	0 - Head 1 - Spouse 2 - Son or daughter 3 - Son or daughter-in-law 4 - Grandchild 5 - Parents 6 - Brother or sister 7 - Other relative 8 - Servant 9 - Non - relative	
SEX	B 03	18	1	1 - Male 2 - Female	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
AGE	B 04	19	2	00 - 99	
MARITAL STATUS	B 05	21	1	1 - Never married 2 - Married 3 - Widowed 4 - Divorced 5 - Separated 6 - Child under 11 yrs. of age.	
ATTENDING SCHOOL	B 06	22	1	1 - Yes 2 - NO 9 - Not reported	
EDUCATION	B 07	23	2	Same as record 01, A 09	
<u>PRIMARY OCCUPA-</u> <u>TION</u> OCCUPATION	<u>B08-B10</u> B 08	25	3	(See 3-digit occupation codes) Blank-Child under 11 yrs. of age and no income from working	Appendix B

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
WORK STATUS	B 09	28	1	1 - Employer 2 - Own-account worker 3 - Employee-private 4 - Employee-government 5 - Unpaid family worker 6 - Unemployed 7 - Economically inactive 9 - No occupation Blank-Child under 11 yrs. of age and no income from working	
INDUSTRY	B 10	29	1	1 - Agriculture, fishing, etc. 2 - Mining & quarrying 3 - Manufacturing 4 - Electricity, gas & water 5 - Construction 6 - Trade and commerce 7 - Transport, storage and communication 8 - Services	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				9 - Economically inactive Blank-Child under 11 yrs. of age and no income from working	
<u>SECONDARY OCCU- PATION</u>	<u>B11-B13</u>	30	5	Same as primary occupation (B08 - B10)	
<u>SOURCE OF INCOME</u> (BAHT)	<u>B14-B19</u>				
WAGES AND SALARIES	B 14	35	6	000001 - 999999, Blank	
PROFIT, NON-FARM	B 15	41	6	000000 - 999999, Blank	
PROFIT FROM FARMING	B 16	47	6	000000 - 999999, Blank	
TRANSFER PAYMENTS	B 17	53	6	000001 - 999999, Blank	
PROPERTY INCOME	B 18	59	6	000001 - 999999, Blank	
OTHER MONEY RECEIPTS	B 19	65	6	000001 - 999999, Blank	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
<u>TOTAL MONTHLY INCOME</u>	<u>B 20</u>	71	6	000000 - 999999, Blank	
CHECK LAST MEMBER	B 21	77	1	1 - Yes 0 - No	

INCOME FROM OTHER SOURCES.

RECORD 03

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
<u>IDENTIFICATION</u>	<u>ID1-ID6</u>	1	10	Reproduce from record 01	
RECORD NO.	ID7	11	2	03	
SUB-RECORD NO.	ID8	13	2	01 - 02	
<u>DATA FIELD 1</u> CODE	CC1	15	2	01 - Pensions, annuities or disability payments 02 - Remittance and contributions from family members living away from home (Not listed in Part 2) 03 - Assistance payments from other persons outside the household. 04 - Assistance payments from government or other agencies 05 - Work compensation or terminal pay 06 - Income from renting agriculture land 07 - Income from renting other properties or from royalties	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				08 - Income from roomers and boarders 09 - Interest from saving accounts in banks 10 - Interest from other financial institutions 11 - Interest from loans (persons) 12 - Interest from bonds 13 - Interest from "shares" 14 - Dividend from stocks and other investments 15 - Scholarships and grants 16 - Inheritances bequeaths, large gifts, etc. 17 - Proceeds from health, accident, or fire insurance 18 - Proceeds from life - insurance 19 - Lottery winnings 20 - The numbers game winnings 21 - Horse racing winnings 22 - Other gambling winnings 23 - Commission 24 - Other income	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				99 - Total income from other sources	
VALUE (BAHT)	CV1	17	6	000001 - 999999	
<u>DATA FIELD 2</u>	CC2-CV2	23	8	} Same as DATA FIELD 1, Blank	Blank for 1st SUB- RECORD only
<u>DATA FIELD 3</u>	CC3-CV3	31	8		
<u>DATA FIELD 4</u>	CC4-CV4	39	8		
<u>DATA FIELD 5</u>	CC5-CV5	47	8		
<u>DATA FIELD 6</u>	CC6-CV6	55	8		
<u>DATA FIELD 7</u>	CC7-CV7	63	8		
<u>DATA FIELD 8</u>	CC8-CV8	71	8		
<u>DATA FIELD 9</u>	CC9-CV9	79	8		
<u>DATA FIELD 10</u>	CC10-CV10	87	8		
<u>DATA FIELD 11</u>	CC11-CV11	95	8		
<u>DATA FIELD 12</u>	CC12-CV12	103	8		
<u>DATA FIELD 13</u>	CC13-CV13	111	8		
<u>DATA FIELD 14</u>	CC14-CV14	119	8		

RECORD 04

CHANGE OF ASSETS AND LIABILITIES

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARKS
<u>IDENTIFICATION</u>	<u>ID1-ID6</u>	1	10	Reproduce from record 01	
RECORD NO.	ID7	11	2	04	
SUB-RECORD NO.	ID8	13	2	01 - 07	
<u>DATA FIELD 1</u> CODE	DC1	15	3	611-626, 631-646, 651-668 671-688, 903, 913	Appendi
VALUE (BAHT)	DV1	18	7	0000001 - 9999999	
<u>DATA FIELD 2</u>	DC2-DV2	25	10	<div> </div>	Blank for last SUB RECORD only
<u>DATA FIELD 3</u>	DC3-DV3	35	10		
<u>DATA FIELD 4</u>	DC4-DV4	45	10		
<u>DATA FIELD 5</u>	DC5-DV5	55	10		
<u>DATA FIELD 6</u>	DC6-DV6	65	10		
<u>DATA FIELD 7</u>	DC7-DV7	75	10		
<u>DATA FIELD 8</u>	DC8-DV8	85	10		
<u>DATA FIELD 9</u>	DC9-DV9	95	10		
<u>DATA FIELD 10</u>	DC10-DV10	105	10		
<u>DATA FIELD 11</u>	DC11-DV11	115	10		

RECORD 05

HOUSING CHARACTERISTICS

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMAI
<u>IDENTIFICATION</u>	<u>ID1-ID6</u>	1	10	Reproduce from record 01	
RECORD NO.	ID7	11	2	05	
SUB-RECORD NO.	ID8	13	2	01	
TYPE OF DWELLING	E01	15	1	1 - Detached house 2 - Twin house 3 - Row house 4 - Flat or apartment 5 - Room or rooms 6 - Improvised quarters 7 - other	
DRINKING WATER	E02	16	1	0 - Water-bottle 1 - Water supply-piped inside-Private 2 - Water supply-piped inside-Shared 3 - Underground water-piped inside-Private 4 - Underground water-piped inside-Shared 5 - Water supply-piped outside 6 - Well 7 - River, stream, etc.	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				8 - Rain water 9 - Other	
WATER SUPPLY FOR USE	E03	17	1	Same as E02 (CODE 1-9)	
TOILET FACILITIES	E04	18	1	1 - Flush or moulded latrine-Private 2 - Flush or moulded latrine-Shared 3 - Bucket latrine 4 - Public latrine 5 - Pit or hole in ground 6 - Flush into river/sea 7 - No facilities nearby	
COOKING FUEL	E05	19	1	1 - Charcoal 2 - Wood 3 - Kerosene 4 - Gas 5 - Bio-gas 6 - Electricity 7 - Other 8 - No cooking done	
NUMBER OF ROOMS	E06	20	1	1 to 9	
SLEEPING ROOMS	E07	21	1	1 to 9	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
ELECTRICITY IN DWELLING	E08	22	1	1 - Yes 2 - No	
TELEPHONE IN STRUCTURE	E09	23	1	1 - Yes 2 - No	
CONSTRUCTION MATERIAL	E10	24	1	1 - Cement or brick 2 - Wood 3 - Wood and cement or brick 4 - Local materials 5 - Re-used materials 6 - Other	
TENURE	E11	25	1	1 - Owns dwelling and land 2 - Owns dwelling on rented land 3 - Owns dwelling on public area 4 - Hire - purchased 5 - Rent dwelling 6 - Rent paid by others 7 - Receives rent free	
WHO PAY FOR RENT ?	E12	26	1	1 - Dweller 2 - Employer 3 - Parents 4 - Relatives 5 - Government	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				6 - Company or private agency 7 - Other Blank - Not applicable	
MONTHLY RENT OR RENTAL VALUE (occupied by household and household busi- ness) (BAHT)	E13	27	5	00001 - 99999	
MONTHLY RENT OR RENTAL VALUE (Excluded area occupied by household business) (BAHT)	E14	32	5	00001 - 99999	
ADVANCED PAYMENT ON NO RENT (BAHT/YR.)	E15	37	6	000001 - 999999, Blank	
MOBILITY	E16	43	1	0 - Always in this dwelling <u>Always lived in Amphoe. in</u> 1 - This dwelling 5 Yrs. or more 2 - This dwelling 1-4 Yrs.	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				<p>3 - This dwelling less than 1 Yr.</p> <p><u>Lived in Amphoe 10 Yrs.</u> <u>or more, in</u></p> <p>4 - This dwelling 5 Yrs. or more</p> <p>5 - This dwelling 1-4 Yrs.</p> <p>6 - This dwelling less than 1 Yr.</p> <p><u>Lived in Amphoe less than</u> <u>10 Yrs., in</u></p> <p>7 - This dwelling 5 Yrs. or more</p> <p>8 - This dwelling 1-4 Yrs.</p> <p>9 - This dwelling less than 1 Yr.</p>	
<u>DOES HOUSEHOLD</u> <u>OWN?</u>	<u>E17-E33</u>				
LIVING ROOMSOFA	E17	44	1	<p>1 - Yes</p> <p>2 - No</p> <p>Blank</p>	
BED (WOOD OR METAL)	E18	45	1 /		
COOK STOVE-GAS	E19	46	1		
COOK STOVE- ELECTRIC	E20	47	1		
REFRIGERATOR	E21	48	1		
ELECTRIC IRON	E22	49	1		

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
COOKING POT, ELECTRIC	E23	50	1	1 - Yes 2 - No Blank	
ELECTRIC FAN	E24	51	1		
RADIO	E25	52	1		
T.V. (BLACK & WHITE)	E26	53	1		
T.V. (COLOR)	E27	54	1		
WATER BOILER	E28	55	1		
BICYCLE	E29	56	1		
MOTORCYCLE	E30	57	1		
VIDEO	E31	58	1		
WASHING MACHINE	E32	59	1		
AIR CONDITIONER	E33	60	1		
<u>DOES HOUSEHOLD</u> <u>OWN..FOR PRIVATE.</u> <u>BUSINESS USE ?</u>	<u>E34-E38</u>			1 - Private use 2 - Business use 3 - Both private & business 4 - Not owned Blank - Not applicable	
AUTOMOBILE	E34	61	1		
PICK UP (MINI- TRUCK)	E35	62	1		
OTHER MINI-TRUCK	E36	63	1		
MOTOR BOAT	E37	64	1		
SEWING MACHINE	E38	65	1		
BUILDING USE FOR BUSINESS ?	E39	66	1	1 - Yes 2 - No	

RECORD 06

CONSUMPTION ON GOODS & SERVICES.

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
<u>IDENTIFICATION</u>	<u>ID1-ID6</u>	1	10	Reproduce from record 01	
RECORD NO.	ID7	11	2	06	
SUB-RECORD NO.	ID8	13	2	01 - 15	
<u>DATA FIELD 1</u> GROUP (Expenditure for....)	<u>FG1-FV1</u> FG1	15	3	201 - 204 : Cloth and Clothing 211 - 214 : Footwear 301 - 302 : Housing and household operations 311 : Textile house furnishings 312 : Minor household equipment 313 : Furniture and equipment 321 : Cleaning supplies 322 : Servants 401 : Medical supplies 402 : Medical services 411 : Personal care items 412 : Personal services 501 - 502 : Transportation 511 - 512 : Operation and	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				<p>maintenance of vehicles</p> <p>520 : Communication Services 570 : Communication Equipment 601 - 603 : Admission tickets, sport and play equipment, recreation equipment</p> <p>610 : Reading materials</p> <p>620 : Religious activities</p> <p>630 : Education expenses</p> <p>701 : Special ceremonies</p> <p>702 : Miscellaneous</p> <p>900 : Direct taxes</p> <p>910 : Gifts and contributions</p> <p>920 : Occupational expenses</p> <p>930 : Insurance premium</p> <p>950 : Other expenses</p>	
ITEM	FI1	18	2	(See group and item codes for goods and services other than food.)	Appendix D
SOURCE	FS1	20	1	<p>1 - Bought in the market, bought on credit</p> <p>2 - Received free</p>	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				3 - Received as pay 4 - Home Produced 5 - Food paid to domestic servant as wage 6 - Clothing paid to domestic servant as wage 7 - Other paid to domestic servant as wage	For group code 322 only
VALUE (BAHT)	FV1	21	6	000001 - 999999	
<u>DATA FIELD 2</u>	FG2-FV2	27	12	Same as DATA FIELD 1, Blank	
<u>DATA FIELD 3</u>	FG3-FV3	39	12		
<u>DATA FIELD 4</u>	FG4-FV4	51	12		
<u>DATA FIELD 5</u>	FG5-FV5	63	12		
<u>DATA FIELD 6</u>	FG6-FV6	75	12		
<u>DATA FIELD 7</u>	FG7-FV7	87	12		
<u>DATA FIELD 8</u>	FG8-FV8	99	12		
<u>DATA FIELD 9</u>	FG9-FV9	111	12		

RECORD 07

7 - DAY FOOD CONSUMPTION

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
<u>IDENTIFICATION</u>	<u>ID1-ID6</u>	1	10	Reproduce from record 01	
RECORD NO.	ID7	11	2	07	
SUB-RECORD NO.	ID8	13	2	01 - 06	
<u>DATA FIELD 1</u> GROUP	<u>GG1-GV1</u> GG1	15	2	10 - Grain and cereal products 11 - Meat and poultry 12 - Fish and seafood 13 - Milk products and eggs 14 - Oils and fats 15 - Fruits 16 - Vegetables 17 - Sugar and sweets 18 - Spices condiments, etc. coffee and tea, etc. 19 - Prepared food eaten at home 20 - Beverages, non-alcoholic 21 - Alcoholic beverages 22 - Alcoholic drunk away from home 23 - Food away from home 24 - Tobacco products	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
SOURCE	GS1	17	1	1 - Bought in the market, bought on credit 2 - Received free 3 - Received as pay 4 - Home produced 9 - All sources	
VALUE (BAHT)	GV1	18	5	00001 - 99999	
<u>DATA FIELD 2</u>	GG2 - GV2	23	8	Same as DATA FIELD 1, Blank	Blank for last SUB- RECORD only
<u>DATA FIELD 3</u>	GG3 - GV3	31	8		
<u>DATA FIELD 4</u>	GG4 - GV4	39	8		
<u>DATA FIELD 5</u>	GG5 - GV5	47	8		
<u>DATA FIELD 6</u>	GG6 - GV6	55	8		
<u>DATA FIELD 7</u>	GG7 - GV7	63	8		
<u>DATA FIELD 8</u>	GG8 - GV8	71	8		
<u>DATA FIELD 9</u>	GG9 - GV9	79	8		
<u>DATA FIELD 10</u>	GG10-GV10	87	8		
<u>DATA FIELD 11</u>	GG11-GV11	95	8		
<u>DATA FIELD 12</u>	GG12-GV12	103	8		
<u>DATA FIELD 13</u>	GG13-GV13	111	8		
<u>DATA FIELD 14</u>	GG14-GV14	119	8		

RECORD 08

HOUSEHOLD INCOME

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
<u>IDENTIFICATION</u>	<u>ID1-ID6</u>	1	10	Reproduce from record 01	
RECORD NO.	ID7	11	2	08	
SUB-RECORD NO.	ID8	13	2	01 - 03	
<u>DATA FIELD 1</u>	<u>HC1-HV1</u>				
CODE	HC1	15	3	301 - Wages and salaries 311 - Entrepreneurial income 312 - Farm income 313 - Roomers and boarders 321 - Land rent 322 - Other rent 323 - Interest and dividends 331 - Assistance and remittance (332) - Pensions and annuities 333 - Scholarships and grants 334 - Terminal pay, etc. 401 - Food as part of pay 402 - Rent received as pay 403 - Other goods received as pay 411 - Home produced food 412 - Owner-occupied home 413 - Other home-produced goods 421 - Crops received as rent 422 - Food received free	WAGE ENRM FARM ENRM PROIN PROIN PROIN TRANS PROIN TRANS WAGE FDAP RRP OGNP HPFD OLHM OHPG CNRM ENRM

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				432 - Rent received free 433 - Other goods received free 501 - Money income 502 - Income-in-kind 511 - Proceeds from casualty insurance 512 - Proceeds from life insurance 513 - Lottery winnings 514 - Inheritance, bequests 515 - Other money receipts 911 - Total current income 912 - Total other money receipts	<i>RNF</i> <i>CONF</i> <i>SUSPENSE</i> <i>SUSPENSE</i> <i>INSLD</i> <i>INSLD</i> <i>INSLD</i> <i>INTER</i> <i>OTHER</i>
VALUE (BAHT)	HV1	18	6	000000 - 999999	
<u>DATA FIELD 2</u>	HC2-HV2	24	9	} Same as DATA FIELD 1, Blank	Blank for last SUB- RECORD only
<u>DATA FIELD 3</u>	HC3-HV3	33	9		
<u>DATA FIELD 4</u>	HC4-HV4	42	9		
<u>DATA FIELD 5</u>	HC5-HV5	51	9		
<u>DATA FIELD 6</u>	HC6-HV6	60	9		
<u>DATA FIELD 7</u>	HC7-HV7	69	9		
<u>DATA FIELD 8</u>	HC8-HV8	78	9		
<u>DATA FIELD 9</u>	HC9-HV9	87	9		
<u>DATA FIELD 10</u>	HC10-HV10	96	9		
<u>DATA FIELD 11</u>	HC11-HV11	105	9		
<u>DATA FIELD 12</u>	HC12-HV12	114	9		

RECORD 09

ENERGY CONSUMPTION

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARKS
<u>IDENTIFICATION</u>	<u>ID1-ID6</u>	1	10	Reproduce from record 01	
RECORD NO.	ID7	11	2	09	
SUB-RECORD NO.	ID8	13	2	01 - 02	
<u>DATA FIELD 1</u> CODE	<u>IC1-IV1</u> IC1	15	2	01 - Regular gasoline 02 - Premium gasoline 03 - Premium gasoline, unleaded 04 - High speed diesel 05 - Low speed diesel 06 - Lubricating oil 07 - Kerosene 08 - L.P.G. - cooking 09 - L.P.G. - vehicles 10 - L.P.G. - others 11 - Charcoal 12 - Wood 13 - Electricity 99 - Summary for checking	
QUANTITY	IQ1	17	5	00001 - 99999	(one , mal p
VALUE (BAHT)	IV1	22	6	000001 - 999999	

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
<u>DATA FIELD 2</u>	IC2-IV2	28	13	} Same as DATA FIELD 1. Blank	Blank for last Sub- Record only
<u>DATA FIELD 3</u>	IC3-IV3	41	13		
<u>DATA FIELD 4</u>	IC4-IV4	54	13		
<u>DATA FIELD 5</u>	IC5-IV5	67	13		
<u>DATA FIELD 6</u>	IC6-IV6	80	13		
<u>DATA FIELD 7</u>	IC7-IV7	93	13		
<u>DATA FIELD 8</u>	IC8-IV8	106	13		

RECORD 10

SUMMARY HOUSEHOLD EXPENDITURE (IMPUTE FROM RECORD 06 & 07)

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
<u>IDENTIFICATION</u>	<u>ID1-ID6</u>	1	10	Reproduce from record 01	
RECORD NO.	ID7	11	2	10	
SUB-RECORD NO.	ID8	13	2	01 - 05	
<u>DATA FIELD 1</u>	<u>JC1-JV1</u>				
CODE	JC1	15	3	010 - Grains and cereal products = (value of group 10 source 9) x 4.3 011 - Meat and Poultry = (value of group 11 source 9) x 4.3 012 - Fish and seafood = (value of group 12 source 9) x 4.3 013 - Milk, cheese and eggs = (value of group 13 source 9) x 4.3 014 - Oils and fats = (value of group 14 source 9) x 4.3 015 - Fruits and nuts = (value of group 15 source 9) x 4.3	Grains Meat Impute from record 07 Fst (rounded to full integer number) Oils Fruit

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				016 - Vegetables = (value of group 16 source 9) x 4.3	VEGET
				017 - Sugar and sweets = (value of group 17 source 9) x 4.3	SUGAR
				018 - Spices, coffee, etc. = (value of group 18 source 9) x 4.3	SPICE
				019 - Prepared meals taken home = (value of group 19 source 9) x 4.3	FOOD
				020 - Non-alcoholic beverages = (value of group 20 source 9) x 4.3	Impute Bever from record
				021 - Alcoholic beverages = (value of group 21 source 9) x 4.3	07 ALCOH
				022 - Alcoholic beverages taken away from home = (value of group 22 source 9) x 4.3	FOOD
				023 - Meals eaten away from home = (value of group 23 source 9 x 4.3) + (Sum value of group 630 item 08, 09 record 06)	FOOD

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				030 - students' lunch = (Sum value of group 630 item 08 & 09)	Impute from record 06
				101 - Tobacco products = (value of group 24 source 9) x 4.3	Impute from record 07
				111 - Cloth and clothing = Sum value of group (201-204) item 99 112 - Footwear = Sum value of group (211-214) item 99	CLOTH FOOT
				121 - Shelter = Value of group 301 item 99	Impute
				122 - Fuel and light = value of group 302 item 99	from record
				123 - Textile house furnishings = value of group 311 item 99	06 FURN
				124 - Minor equipment = value of group 312 item 99	EQUIP
				125 - Major equipment = Value of group 313 item 99	EQUIP
				126 - Cleaning supplies = value of group 321 item 99	EQUIP
				127 - Servants = value of group 322 item 99	EQUIP

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMAR
				131 - Medicines and supplies = value of group 401 item 99	NFDC
				132 - Medical services = value of group 402 item 99	NFDC
				141 - Personal supplies = value of group 411 item 99	NFDC
				142 - Personal services = value of group 412 item 99	NFDC
				151 - Local transportation = value of group 501 item 99	NFDC
				152 - Travel out of area = value of group 502 item 99	NFDC
				153 - Vehicle operation = value of group 511 item 99 + 572 (05...08)	NFDC Input from
				154 - Vehicle purchase = value of group 512 item 99 - 572 (05...08)	VENU recor 06
				155 - Communication services = value of group 520 item 99	NFDC
				156 - Communication equipment = value of group 530 item 99	
				161 - Admissions = value of group 601 item 99	NFDC
				162 - Recreation equipment = (value of group 602 item 99) - (Sum value of group 602 item 05, 06, 07)	NFDC
				163 - Musical equipment = value of group 603 item 99	RE-

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				<p>164 - Reading materials = value of group 610 item 99</p> <p>165 - Religious activities = value of group 620 item 99</p> <p>171 - Education = (value of group 630 item 99) - (Sum value of group 630 item 08, 09 = 030)</p> <p>181 - Ceremonies = value of group 701 item 99</p> <p>182 - Miscellaneous services = value of group 702 item 99</p>	<p>INPDC</p> <p>INPDC</p> <p>EDUCA</p> <p>INPDC</p> <p>INPDC</p>
				<p>211 - Taxes ✓ <i>OTM</i> = value of group 900 item 99</p> <p>212 - Occupational expenses <i>OCCEP</i> = value of group 920 item 99</p> <p>213 - Contributions <i>CONTR</i> = value of group 910 item 99</p> <p>214 - Insurance premiums <i>INPDC</i> = value of group 930 item 99</p> <p>215 - Lottery tickets and other gamblings <i>LOTTLT</i> = Sum value of group 602 item 05, 06 and 07</p> <p>216 - Interest on debts <i>INTDT</i> = value of group 950 item 01</p>	<p>Impute from record 06</p>

Number of Households in the Whole Kingdom

In estimating household socio-economic data for regions and the whole Kingdom, weight factors used were based on the following estimates of the number of households as of July 1992, mid-point of the survey period.

Number of households as of July 1992

Regions	Total	Municipal Areas	Sanitary Districts	Villages
Central ^{1/}	2,851,648	342,666	455,988	2,052,994
Northern	3,036,046	278,376	352,525	2,405,145
Northeastern	4,686,167	247,841	374,332	4,063,994
Southern	1,931,921	303,126	144,158	1,484,637
Bangkok Metropolis, Nonthaburi, Pathum Thani and Samut Prakan	2,490,704	2,027,806	156,506	306,392
Whole Kingdom	14,996,486	3,199,815	1,483,509	10,313,162

1/ excluding Bangkok Metropolis, Nonthaburi, Pathum Thani and Samut Prakan.

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
				217 - Interest on share <i>INSH</i> = value of group 950 item 02 218 - Other expenses <i>MISC</i> = (value of group 950 item 99) - (Sum value of 216, 217)	Impute from record 06
				201 - Expenditure for food and beverages = Sum value of 010-023 202 - Expenditure for tobacco products = value of 101 203 - Expenditure for other goods and services = Sum value of 111-182	Impute from record 10
				901 - Consumption expenditures = Sum value of 201-203 902 - Non - consumption expenditures = Sum value of 211-218	
VALUE (BAHT)	JV1	18	6	000001 - 999999	
DATA FIELD 2	JC2-JV2	24	9	} Same as DATA FIELD 1, Blank	
DATA FIELD 3	JC3-JV3	33	9		
DATA FIELD 4	JC4-JV4	42	9		

FIELD	FIELD NAME	STARTING POSITION	LENGTH OF BYTES	POSSIBLE CODE & MEANING	REMARK
FIELD 5	JC5-JV5	51	9	Same as DATA FIELD 1, Blank	Blank for last SUB- RECORD only
FIELD 6	JC6-JV6	60	9		
FIELD 7	JC7-JV7	69	9		
FIELD 8	JC8-JV8	78	9		
FIELD 9	JC9-JV9	87	9		
FIELD 10	JC10-JV10	96	9		
FIELD 11	JC11-JV11	105	9		
FIELD 12	JC12-JV12	114	9		

APPENDIX A
CHANGWAT. BLOCK & VILLAGE CODES
IN EACH REGION AND COMMUNITY TYPE
(SOCIO - ECONOMIC SURVEY, 1992)

Community Type (ID3)	Region (ID1)	Changwat. (ID2)	Block/Village (ID4)
1	1	02	001 - 012
		03	001
		04	001 - 003
		05	001
		06	001
		07	001 - 006
		09	001 - 002
		10	001 - 003
		11	001 - 002
		12	001 - 002
		13	001 - 003
		14	001
		15	001 - 008
		16	001 - 006
		17	001 - 003
	2	01	001
		02	001 - 003
		04	001 - 002
		06	001
		07	001 - 002
		08	001
		09	001 - 007

Community Type (ID3)	Region (ID1)	Changwat (ID2)	Block/Village (ID4)
1	2	10	001 - 002
		11	001 - 009
		12	001 - 002
		13	001
		14	001 - 003
		15	001 - 004
		16	001
		17	001 - 003
	3	01	001 - 002
		02	001 - 003
		03	001 - 004
		04	001 - 002
		05	001 - 003
		06	001
		07	001 - 003
		08	001 - 004
		09	001 - 004
		10	001
		11	001 - 003
		12	001
		13	001
		14	001
		15	001 - 002
		16	001 - 002
		17	001 - 003
		18	001 - 011
		19	001
		20	001
		21	001

Community Type (ID3)	Region (ID1)	Changwat (ID2)	Block/Vill (ID4)
1	4	01	001
		02	001
		03	001 - 006
		04	001
		05	001 - 004
		07	001 - 007
		08	001
		09	001 - 016
		10	001 - 003
		11	001
		12	001 - 005
		13	001 - 004
		14	001 - 004
2	5	01	001 - 252
	6	01	001 - 009
		02	001
		03	001 - 002
	1	01	001
		02	001 - 015
		03	001 - 004
		04	001 - 008
		05	001 - 002
		06	001 - 004
		07	001 - 009
		08	

community Type (ID3)	Region (ID1)	Changwat (ID2)	Block/Village (ID4)
2	1	09	001 - 004
		10	001 - 004
		11	001 - 004
		12	001 - 004
		13	001 - 002
		14	001 - 002
		15	001 - 006
		16	001 - 003
		17	001 - 007
	2	01	001 - 003
		02	001 - 015
		03	001 - 004
		04	001 - 004
		05	001 - 003
		06	001 - 005
		07	001 - 004
		08	001 - 003
		09	001 - 005
		10	001 - 007
		11	001 - 011
		12	001 - 005
		13	001 - 003
		14	001 - 005
		15	001 - 005
		16	001 - 002

Note:
In original,
A-6 comes
before A-5.

Community type (ID3)	Region (ID1)	Changwat (ID2)	
2	4	10	001 - 004
		11	001
		12	001 - 004
		13	001 - 002
		14	001 - 008
	6	01	001 - 005
		02	001 - 005
		03	001 - 008
3	1	01	001 - 006
		02	001 - 029
		03	001 - 012
		04	001 - 025
		05	001 - 010
		06	001 - 011
		07	001 - 017
		08	001 - 010
		09	001 - 009
		10	001 - 011
		11	001 - 009
		12	001 - 014
		13	001 - 010
		14	001 - 005
		15	001 - 020
		16	001 - 014
		17	001 - 016

Community Type (ID3)	Region (ID1)	Changwat (ID2)	Block/Village (ID4)
2	3	01	001 - 006
		02	001 - 005
		03	001 - 007
		04	001 - 004
		05	001 - 005
		06	001 - 004
		08	001 - 005
		09	001 - 004
		10	001 - 003
		11	001 - 006
		12	001 - 003
		13	001 - 002
		14	001
		15	001
		16	001 - 005
		17	001 - 004
		18	001 - 012
		19	001 - 003
		21	001 - 004
	4	01	001 - 005
		02	001
		03	001 - 012
		04	001 - 003
		05	001 - 005
		06	001 - 003
		07	001 - 012
		08	001 - 002
		09	001 - 010

Community type (ID3)	Region (ID1)	Changwat (ID2)	Block/Village (ID4)
3	2	01	001 - 007
		02	001 - 022
		03	001 - 011
		04	001 - 014
		05	001 - 009
		06	001 - 012
		07	001 - 020
		08	001 - 012
		09	001 - 024
		10	001 - 014
		11	001 - 028
		12	001 - 019
		13	001 - 017
		14	001 - 019
		15	001 - 024
		16	001 - 008
		17	001 - 004
	3	01	001 - 012
		02	001 - 017
		03	001 - 012
		04	001 - 009
		05	001 - 006
		06	001 - 015
		07	001 - 004
		08	001 - 005
		09	001 - 008

Community type (ID3)	Region (ID1)	Changwat (ID2)	Block/Village (ID4)
3	3	10	001 - 015
		11	001 - 012
		12	001 - 006
		13	001 - 003
		14	001 - 003
		15	001 - 003
		16	001 - 010
		17	001 - 008
		18	001 - 007
		19	001 - 019
		20	001 - 006
		21	001 - 012
3	4	01	001 - 011
		02	001 - 003
		03	001 - 017
		04	001 - 004
		05	001 - 004
		06	001 - 007
		07	001 - 031
		08	001 - 011
		09	001 - 022
		10	001 - 011
		11	001 - 005
		12	001 - 011
		13	001 - 007
		14	001 - 012

Community type (ID3)	Region (ID1)	Changwat (ID2)	Block/Village (ID4)
3	6	01 02 03	001 - 007 001 - 009 001 - 020

APPENDIX B

3 DIGIT OCCUPATION CODES

Professional, Technical and Related Workers

01 Physical Scientists and Related Technicians

- 011 Chemists
- 012 Physicists
- 013 Physical Scientists Not Elsewhere Classified
- 014 Physical Science Technicians

02/03 Architects, Engineers and Related Technicians

- 021 Architects and Town Planners
- 022 Civil Engineers
- 023 Electrical and Electronic Engineers
- 024 Mechanical Engineers
- 025 Chemical Engineers
- 026 Metallurgists
- 027 Mining Engineers
- 028 Industrial Engineers
- 029 Engineers Not Elsewhere Classified
- 031 Surveyors
- 032 Draughtsmen
- 033 Civil Engineering Technicians
- 034 Electrical and Electronic Engineering Technicians
- 035 Mechanical Engineering Technicians
- 036 Chemical Engineering Technicians
- 037 Metallurgical Engineering Technicians
- 038 Mining Technicians
- 039 Engineering Technicians Not Elsewhere Classified

04 Aircraft and Ship's Officers

- 041 Aircraft Pilots, Navigators and Flight Engineers
- 042 Ships' Deck Officers and Pilots
- 043 Ships' Engineers

05

Life Scientists and Related Technicians

- 051 Biologists, Zoologists and Related Scientists
- 052 Bacteriologists, Pharmacologists and Related Scientists
- 053 Agronomists and Related Scientists
- 054 Life Science Technicians

06/07

Medical, Dental, Veterinary and Related Workers

- 061 Medical Doctors
- 063 Dentists
- 065 Veterinarians
- 066 Veterinary Assistants
- 067 Pharmacists
- 069 Dieticians and Public Health Nutritionists
- 071 Professional Nurses
- 072 Nursing Personnels Not Elsewhere Classified
- 073 Professional Midwives
- 075 Optometrists and Opticians
- 076 Physio Therapists and Occupational Therapists
- 077 X-Ray Technicians
- 079 Medical, Dental, Veterinary and Related
Workers Not Elsewhere Classified

08

Statisticians, Mathematicians, System Analysts and Related Technicians

- 081 Statisticians
- 083 System Analysts
- 084 Statistical and Mathematical Technicians

09

Economists

- 090 Economists

11

Accountants

- 110 Accountants

12

Jurists

- 121 Lawyers
- 122 Judges
- 129 Jurists Not Elsewhere Classified

- 13 Teachers
- 131 University and Higher Education Teachers
- 132 Secondary Education Teachers
- 133 Primary Education Teachers
- 134 Pre-Primary Education Teachers
- 135 Special Education Teachers
- 139 Teachers Not Elsewhere Classified
- 14 Workers in Religion
- 141 Ministers of Religion and Related Members of Religious Orders
- 149 Workers in Religion Not Elsewhere Classified
- 15 Authors, Journalists and Related Writers
- 151 Authors and Critics
- 159 Journalists and Related Writers Not Elsewhere Classified
- 16 Sculptors, Painters, Photographers and Related Creative Artists
- 161 Sculptors, Painters and Related Artists
- 162 Commercial Artists and Designers
- 163 Photographers and Cameramen
- 17 Composers and Performing Artists
- 171 Composers, Musicians and Singers
- 172 Choreographers and Dancers
- 173 Actors and Stage Directors
- 174 Producers (Performing Arts)
- 179 Composers and Performing Artists Not Elsewhere Classified
- 18 Athletes Sportsmen and Related Workers
- 180 Athletes, Sportsmen and Related Workers
- 19 Professional, Technical and Related Workers Not Elsewhere Classified
- 191 Librarians, Archivists and Curators
- 192 Sociologists, Anthropologists and Related Scientists
- 193 Social Workers
- 194 Personnel and Occupational Specialists

- 195 Philologists, Translators and Interpreters
199 Professional, Technical and Related Workers Not
Elsewhere Classified

Administrative, Executive and Managerial Workers

20 Legislative Officials and Government Administrators

- 201 Legislative Officials
202 Government Administrators

21 Managers

- 211 General Managers
212 Production Managers
219 Managers Not Elsewhere Classified

22 Executive Officials

- 221 Government Executive Officials
222 Non-Government Executive Officials

Clerical and Related Workers

30 Clerical Supervisors

- 300 Clerical Supervisors

32 Stenographers, Typists and Card-and Tape-Punching Machine Operators

- 321 Stenographers, Typists and Teletypists
322 Card-and Tape-Punching Machine Operators

33 Book-keepers, Cashiers and Related Workers

- 331 Book-keepers and Cashiers
339 Book-keepers, Cashiers and Related Workers Not
Elsewhere Classified

34 Computing Machine Operators

- 341 Book-keeping and Calculating Machine Operators
342 Automatic Data Processing

- 35 Transport and Communications Supervisors
- 351 Railway Station Masters
- 352 Postmasters
- 359 Transport and Communications Supervisors Not
Elsewhere Classified
- 36 Transport Conductors
- 360 Transport Conductors
- 37 Mail Distribution Clerks
- 370 Mail Distribution Clerks
- 38 Telephone and Telegraph Operators
- 380 Telephone and Telegraph Operators
- 39 Clerks Not Elsewhere Classified
- 391 Stock Clerks
- 392 Material and Production Planning Clerks
- 393 Correspondence and Reporting Clerks
- 394 Receptionists and Travel Agency Clerks
- 395 Library and Filing Clerks
- 399 Clerks Not Elsewhere Classified
- e.g. - Clerks (Statistical)
- Enumerators
- Clerks (Editing and Coding)
- Proof readers (Printing)
- Copying Machine Operators
- Duplicating Machine Operators
- Addressing Machine Operators
- Collecting rents or hire-purchase payments
- Collecting Tickets in theatres or other
 establishments,
- Recording and reporting readings of
 electric and water meters
- Selling betting tickets at horse-race meets

Sales Workers

- 40 Managers (Wholesale and Retail Trade)
400 Managers (Wholesale and Retail Trade)
- 41 Working Proprietors (Wholesale and Retail Trade)
410 Working Proprietors (Wholesale and Retail Trade)
- 42 Sales Supervisors and Buyers
421 Sales Supervisors
422 Buyers
- 43 Technical Salesmen, Commercial Travellers and Manufacturers' Agents
431 Technical Salesmen and Service Advisors
432 Commercial Travellers and Manufacturers' Agents
- 44 Insurance, Real Estate, Securities and Business Services Salesmen and Auctioneers
441 Insurance, Real Estate and Securities Salesmen
442 Business Services Salesmen
443 Auctioneers
- 45 Salesmen, Shop Assistants and Related Workers
451 Salesmen, Shop Assistants and Demonstrators
452 Street and Waterways Vendors, Canvassers and Newsvendors
- 49 Sales Workers Not Elsewhere Classified
490 Sales Workers Not Elsewhere Classified

Service Workers

- 50 Managers and Supervisors (Catering and Lodging Services)
500 Managers and Supervisors (Catering and Lodging Services)
- 51 Working Proprietors (Service Establishments)
510 Working Proprietors (Service Establishments)
- 52 Housekeeping and Related Service Supervisors
520 Housekeeping and Related Service Supervisors

- 53 Cooks Waiters, Bartenders and Related Workers
- 531 Cooks
- 532 Waiters, Bartenders and Related Workers
- 54 Maids and Related Housekeeping and Service Workers Not Elsewhere Classified
- 540 Maids and Related Housekeeping and Service Workers Not Elsewhere Classified
- 55 Building Caretakers, Charworkers, Cleaners and Related Workers
- 551 Building Caretakers
- 552 Charworkers, Cleaners and Related Workers
- 56 Launderers, Dry-Cleaners and Pressers
- 560 Launderers, Dry-Cleaners and Pressers
- 57 Hairdressers, Barbers, Beauticians and Related Workers
- 570 Hairdressers, Barbers, Beauticians and Related Workers
- 58 Protective Service Workers
- 581 Fire Fighters
- 582 Policemen and Detectives
- 583 Armed Forces (Officers and Men)
- 589 Protective Service Workers Not Elsewhere Classified
- 59 Service Workers Not Elsewhere Classified
- 591 Guides
- 592 Undertakers and Embalmers
- 599 Service Workers Not Elsewhere Classified
- Agricultural, Animal Husbandry and Forest Workers, Fishermen and Hunters
- 60 Farm Managers and Supervisors
- 600 Farm Managers and Supervisors
- 61 Farmers
- 611 Rice Farmers
- 612 Other Farmers

- 62 Agricultural and Animal Husbandry Workers Not Elsewhere Classified
- 621 Rice Farm Workers
- 622 Field Crop and Vegetable Farm Workers
- 623 Orchardists, Viniculturists and Related Tree and Shrub
Crop Workers
- 624 Livestock Workers
- 625 Dairy Farm Workers
- 626 Poultry Farm Workers
- 627 Nurserymen and Gardeners
- 628 Farm Machinery Operators
- 629 Agricultural and Animal Husbandry Workers Not Elsewhere
Classified

- 63 Forest Workers
- 631 Loggers
- 632 Forest Workers (Except Loggers)

- 64 Fishermen, Hunters and Related Workers
- 641 Fishermen and Related Workers
- 642 Hunters, Trappers and Related Workers
- 649 Fishermen, Hunters and Related Workers Not Elsewhere
Classified

Production and Related Workers, Transport Equipment Operators and
Labourers

- 70 Production Supervisors and General Foremen
- 700 Production Supervisors and General Foremen
- 71 Miners, Quarrymen, Well Drillers and Related Workers
- 711 Miners and Quarrymen
- 712 Mineral and Stone Treaters
- 713 Well Drillers, Borers and Related Workers
- 72 Metal Processers
- 721 Metal Smelting, Converting and Refining Furnacemen
- 722 Metal Rolling Mill Workers

- 723 Metal Melters and Reheaters
- 724 Metal Casters
- 725 Metal Moulders and Coremakers
- 726 Metal Annealers, Temperers and Case Hardeners
- 727 Metal Drawers and Extruders
- 728 Metal Platers and Coaters
- 729 Metal Processers Not Elsewhere Classified

73 Wood Preparation Workers and Paper Makers

- 731 Wood Treaters
- 732 Sawyers, Plywood Makers and Related Wood Processing Workers
- 733 Paper Pulp Preparers
- 734 Paper Makers

74 Chemical Processers and Related Workers

- 741 Crushers, Grinders and Mixers
- 742 Cookers, Roasters and Related Heat Treaters
- 743 Filter and Separator Operators
- 744 Still and Reactor Operators
- 745 Petroleum Refining Workers
- 749 Chemical Processers and Related Workers Not Elsewhere Classified

75 Spinners, Weavers, Knitters, Dyers and Related Workers

- 751 Fiber Preparers
- 752 Spinners and Winders
- 753 Weaving and Knitting Machine Setters and Pattern Card Preparers
- 754 Weavers and Related Workers
- 755 Knitters
- 756 Bleachers, Dyers and Textile Product Finishers
- 759 Spinners, Weavers, Knitters, Dyers and Related Workers Not Elsewhere Classified

76 Tanners, Fellmongers and Pelt Dressers

- 761 Tanners and Fellmongers

- 77 Food and Beverage Processers
- 771 Grain Millers and Related Workers
- 772 Sugar Processers and Refiners
- 773 Butchers and Meat Preparers
- 774 Food Preservers
- 775 Dairy Product Processers
- 776 Bakers, Pastry Cooks and Confectionery Makers
- 777 Tea, Coffee and Cocoa Preparers
- 778 Brewers, Wine and Beverage Makers
- 779 Food and Beverage Processers Not Elsewhere Classified
- 78 Tobacco Preparers and Tobacco Product Makers
- 781 Tobacco Preparers
- 782 Cigar Makers
- 783 Cigarette Makers
- 789 Tobacco Preparers and Tobacco Product Makers Not
Elsewhere Classified
- 79 Tailors, Dressmakers, Sewers, Upholsters and Related Makers
- 791 Tailors and Dressmakers
- 793 Milliners and Hatmakers
- 794 Patternmakers and Cutters
- 795 Sewers and Embroiderers
- 796 Upholsterers and Related Workers
- 799 Tailors, Dressmakers, Sewers, Upholsterers and Related
Workers Not Elsewhere Classified
- 80 Shoemakers and Leather Goods Makers
- 801 Shoemakers and Shoe Repairers
- 802 Shoe Cutters, Lasters, Sewers and Related Workers
- 803 Leather Goods Makers
- 81 Cabinetmakers and Related Wood Workers
- 811 Cabinetmakers
- 812 Woodworking Machines Operators
- 819 Cabinet Makers and Related Wood Workers Not Elsewhere
Classified

- 82 Stone Cutters and Carvers
- 820 Stone Cutters and Carvers
- 83 Blacksmiths, Toolmakers and Machine Tool Operators
- 831 Blacksmiths, Hammersmiths and Forging-Press Operators
- 832 Toolmakers, Metal Pattern Makers and Metal Makers
- 833 Machines Tool Setter-Operators
- 835 Metal Grinders, Polishers and Tool Sharpeners
- 839 Blacksmiths, Toolmakers and Machine Tool Operators Not
Elsewhere Classified
- 84 Machinery Fitters, Machine Assemblers, Precision
Instrument Makers and Mechanics Repairmen
- 841 Machinery Fitters and Machine Assemblers
- 842 Watch, Clock and Precision Instrument Repairmen
- 843 Motor Vehicle Mechanics-Repairmen
- 844 Aircraft Engine Mechanics-Repairmen
- 845 Mechanics-Repairmen (Other than Motor Vehicle and Aircraft
- 849 Machinery Fitters, Machine Assemblers, Precision
Instrument Makers and Mechanics-Repairmen (Except
Electrical) Not Elsewhere Classified
- 85 Electrical Fitter and Related Electrical and Electronic Workers
- 851 Electrical Fitters
- 852 Electronics Fitters
- 853 Electrical and Electronic Equipment Assemblers
- 854 Radio and Television Repairmen
- 855 Electricians and Electrical Wiremen
- 856 Telephone and Telegraph Installers
- 857 Electric Linemen and Cable Joiners
- 859 Electrical Fitters and Related Electrical and Electronics
Workers Not Elsewhere Classified
- 86 Broadcasting Station and Sound Equipment Operators and
Cinema Projectionists
- 861 Broadcasting Station Operators
- 862 Sound Equipment Operators and Cinema Projectionists

- 87 Plumbers, Welders, Sheet Metal and Structural Metal
Preparers and Erectors
- 871 Plumbers and Pipe Fitters
- 872 Welders and Flame Cutters
- 873 Sheet Metal Workers
- 874 Structural Metal Preparers and Erectors
- 88 Jewellery and Precious Metal Workers
- 880 Jewellery and Precious Metal Workers
- 89 Glass Formers, Potters and Related Workers
- 891 Glass Formers Cutters, Grinders and Finishers
- 892 Potters and Related Clay and Abrasive Formers
- 893 Glass and Ceramics Kilnmen
- 894 Glass Engravers and Etchers
- 895 Glass and Ceramics Painters and Decorators
- 90 Rubber and Plastics Product Makers
- 901 Rubber and Plastics Product Makers
(Except tyre Makers and tyre Vulcanisers)
- 902 Tyre Makers and Tyre Vulcanisers
- 91 Paper and Paper Board Products Makers
- 910 Paper and Paper Board Products Makers
- 92 Printers and Related Workers
- 921 Compositors, Typesetters and Phototype-Setters
- 922 Printing Pressmen
- 923 Stereotypers
- 925 Photoengravers
- 926 Bookbinders and Related Workers
- 927 Photographic Darkroom Workers
- 929 Printers and Related Workers Not Elsewhere Classified
- 93 Painters
- 931 Painters, Construction
- 939 Painters Not Elsewhere Classified
- 94 Production and Related Workers Not Elsewhere Classified
- 941 Musical Instrument Makers and Tuners

- 942 Basketry Weavers and Brush Makers
- 943 Non-Metallic Mineral Product. Makers
- 949 Production and Related Workers Not Elsewhere Classified
- 95 Bricklayers, Carpenters and Other Construction Workers
 - 951 Bricklayers, Stonemasons and Tile Setters
 - 952 Re-Inforced Concreters, Cement Finishers and
Terazzo Workers
 - 953 Roofers
 - 954 Carpenters, Joiners and Parquetry Workers
 - 955 Plasterers
 - 956 Insulators
 - 957 Glaziers
 - 959 Construction Workers Not Elsewhere Classified
- 96 Stationary Engines and Related Equipment Operators
 - 961 Power Generating Machinery Operators
 - 969 Stationary Engine and Related Equipment Operators
Not Elsewhere Classified
- 97 Material-Handling and Related Equipment Operators, Dockers
and Freight Handlers
 - 971 Dockers and Freight Handlers
 - 972 Riggers and Cable Splicers
 - 973 Crane and Hoist Operators
 - 974 Earth-Moving and Related Machinery Operators
 - 979 Material Handling Equipment Operators Not Elsewhere
Classified
- 98 Transport Equipment Operators
 - 981 Ship's Deck Ratings, Barge Crews and Boatmen
 - 982 Ship's Engine Room Ratings
 - 983 Railway Engine Drivers and Firemen
 - 984 Railway Brakemen, Signalmen and Shunters
 - 985 Motor Vehicle Drivers
 - 986 Animal and Animal Drawn Vehicle Drivers
 - 989 transport Equipment Operators Not Elsewhere Classified

Labourers Not Elsewhere Classified and Not Economically Occupatic

990	Common Labourers. Unskilled Workers
991	Houseworks
992	Students
993	Retired Workers
994	Disabled Workers
995	Unemployed Workers
996	Beggars
999	Not reported and no secondary Occupation

APPENDIX C

CODES FOR CHANGE IN ASSETS AND LIABILITIES.

(SOCIO - ECONOMIC SURVEY, 1992)

1. CHANGE IN LIABILITIES

<u>SOURCE</u>	<u>BORROWED</u>	<u>PAID BACK</u>
1.1 Commercial banks	631	611
1.2 Saving banks	632	612
1.3 Bank for Agriculture & Agri. Co-operative	633	613
1.4 Government housing banks	634	614
1.5 Finance companies	635	615
1.6 Credit foncier	636	616
1.7 Saving Co-operatives	637	617
1.8 Persons outside the household	638	618
1.9 Provident funds	639	619
1.10 Other sources.	640	620

2. GOODS PURCHASED ON CREDIT

	<u>PURCHASED</u>	<u>PAID</u>
2.1 Food, beverages and tobacco	621	641
2.2 Clothing	622	642
2.3 Medical care, personal care and other services	623	643
2.4 House and land	624	644
2.5 Other goods	625	645
2.6 Other expenditures.	626	646

3. LAND, PROPERTY, GOLD AND ETC.

	<u>SOLD OR PAWNEED</u>	<u>BOUGHT.</u> <u>REDEEMED</u>
3.1 Land	651	671
3.2 House or other real estate	652	672
3.3 Gold, jewelry and other valuables	653	673
3.4 Commission	654	674

4. CHANGE IN ASSETS

<u>SOURCE</u>	<u>WITHDRAWN</u>	<u>DEPOSITED</u>
4.1 Commercial banks	655	675
4.2 Saving banks	656	676
4.3 Bank for Agricultures & Agri. Co-operative	657	677
4.4 Government housing banks	658	678
4.5 Finance companies	659	679
4.6 Credit foncier	660	680
4.7 Saving Co-operatives	661	681
4.8 Government savings provident fund, etc.	662	682
4.9 Stocks, bonds, business investment	✓ 663	683
4.10 Household business investment	664	684 ✓
4.11 Government bonds	665	685
4.12 Loans made to persons outside the household	666	686
4.13 Cash holdings	667	687
4.14 Other sources.	668	688
<u>Total</u> (Decreasing in liability & increasing in assets)		<u>903</u>
<u>Total</u> (Increasing in liability & decreasing in assets)	<u>913</u>	

APPENDIX D
GROUP AND ITEM CODES
FOR GOODS AND SERVICES OTHER THAN FOOD
 (RECORD NO.06)
 (SOCIO-ECONOMIC SURVEY, 1992)

GROUP

Item

201 Men's and boy's clothing

01 Cloth, cotton
 02 " nylon
 03 " other
 04 Uniforms, school
 05 " other
 06 Suits
 07 Raincoats
 08 Jackets
 09 Sweaters
 10 Trousers
 11 Shirts
 12 " polo
 13 " sport
 14 T-shirt
 15 Singlet
 16 Shirts, others
 17 Chinese trousers
 18 Pajamas
 19 Robes
 24 Panung, Sarong
 27 Briefs
 28 Socks
 31 Ties

GROUP

Item

201 (continued)

32 Handkerchiefs
 33 Hats
 34 Umbrellas
 35 Handbags
 36 Wallets, purses
 37 School bags
 38 Belts
 39 Swimming suits
 40 Other accessories
 41 Ring
 42 Tiepin
 43 Cuff links
 44 Uniform accessories
 45 Wristwatch
 46 Sunglasses
 47 Other men's and boy's
 99 All items

202 Women's and girl's clothing

01 Cloth, cotton
 02 " nylon
 03 " other
 04 Uniforms, school
 05 " other

GROUP

Item

202 (continued)

06 Suits

07 Raincoats

08 Jackets

09 Sweaters

10 Slacks

11 Shirts, dress

12 " polo

13 " sport

14 T-shirt

15 Undershirt

16 Shirts others

17 Chinese trousers

18 Païamas

19 Robes

21 Dresses

22 Blouses

23 Skirts

24 Panung, Sarong

25 Petticoat

26 Brassieres

27 Panties

28 Socks

29 Stockings

30 Pants

32 Handkerchiefs

33 Hats

34 Umbrellas

35 Handbags

36 Wallets, purses

GROUP

Item

202 (continued)

37 School bags

38 Belts

39 Swimming suits

41 Ornament, ring, earring

42 Pin

44 Uniform accessories

45 Wristwatch

46 Sunglasses

47 Other women's and girl's

99 All items

203 Clothing for children under 2 yrs.

01 Cloth, cotton

02 " nylon

03 " other

09 Sweaters

10 Shorts

11 Shirts

12 Shirts-polo

14 T-shirts

15 Singlet

16 Shirts, others

17 Chinese trousers

18 Païamas

20 Baby's suit

21 Dresses

22 Blouses

23 Skirts

27 Briefs of panties

28 Socks

GROUPItem

203 (continued)

30 Pants

32 Handkerchiefs

33 Hats

35 Bags

38 Belts

39 Swimming suits

47 Other children's clothing

99 All items

204 Sewing services

01 For men and boys

02 For women and girls

03 For children less than 2 yrs.

04 Accessories

05 Other sewing services

99 All items

211 Men and boys footwear

01 Shoes. leather

02 " other

03 " sport

04 Sneakers

05 Slippers. leather

06 " rubber

07 Other men's and boy's

99 All items

212 Women's and girl's footwear

01 Shoes. leather

02 " other

03 " sport

04 Sneakers

GROUPItem

212 (continued)

05 Slippers leather

06 " rubber

07 Other women's and girl's

99 All items

213 Children's footwear

01 Shoes. leather

02 " other

04 Sneakers

05 Slippers. leather

06 " other

07 Other children's footwear

99 All items

214 Shoe repair, etc.

01 For men and boys

02 For women and girls

03 For children less than 2 yrs.

04 Polish. etc.

99 All items

301 Housing (shelter)

01 House rent

02 Land rent

03 Land tax

04 Lumber

05 Cement

06 Bricks

07 Tiles

08 Other materials for repair

09 Painting

GROUPItem

- 301 (continued)
- 10 Plumbing
 - 11 Electrical work
 - 12 Other material or service
 - 21 Rent including electricity
 - 22 Rent including water
 - 23 Rent inc. elect. and water
 - 24 Rent and other utilities
 - 25 Rent inc. elect. water and
other utilities
 - 99 All items
- 302 Fuel and light
- 01 Electricity
 - 02 Gas for cooking
 - 03 Gas for other purposes
 - 04 Charcoal
 - 05 Wood
 - 06 Kerosene
 - 07 Batteries
 - 08 Matches
 - 09 Candles
 - 10 Light bulbs
 - 11 Lamps
 - 12 Water rates
 - 13 Underground water
 - 14 Other fuel and light
 - 99 All items
- 311 Textile housefurnishings
- 01 Mosquito net
 - 02 Sheets

GROUPItem

- 311 (continued)
- 03 Pillow cases
 - 04 Blankets
 - 05 Bed spreads
 - 06 Curtains
 - 07 Table covers
 - 08 Table mats
 - 09 Towels
 - 10 Wash cloths
 - 11 Floor mats
 - 12 Door mats
 - 13 Other textiles
 - 99 All items
- 312 Minor equipment
- 01 Glassware
 - 02 Pottery
 - 03 Cutlery
 - 04 Pots and pans
 - 05 Dishes
 - 06 Small equipment
 - 07 Basins
 - 08 Buckets & Jars
 - 09 Vacuum flasks
 - 10 Charcoal stove
 - 11 Other minor equipments
 - 99 All items
- 313 Major equipment
- 01 Beds
 - 02 Chairs
 - 03 Tables

GROUP

Item

313 (continued)

04 Sofas
05 Other furnitures
06 Carpets
07 Mattress
08 Cook stove
09 Refrigerator
10 Toaster
11 Electric iron
12 Electric fan
13 Sewing machine
14 Vacuum cleanner
15 Baggage
16 Lawn mower
17 Typewriter
18 Washing machine
19 Mixer
20 Electric pot
21 Air conditioner
22 Maintenance and repair
23 Other major equipments
99 All items

321 Cleaning supplies

01 Soap
02 Flake
03 Detergent
04 Liquid detergent
05 Starch
06 Polish
07 Mops and brooms

GROUP

Item

321 (continued)

08 Deodorizer
09 Insecticides
10 Disinfectants
11 Laundry
12 Dry cleaning
13 Rubbish service
14 Other cleaning supplies and services
99 All items

322 Domestic servants

01 Maids
02 Cooks
03 Guards
04 Gardeners
05 Drivers
06 Laundress
07 Nurse maids
08 Other servants
99 All items

401 Medical supplies

01 Cough medicine
02 Antivenim
03 Carminative
04 Digestive
05 Indigestion pills
06 Antibiotics
07 Cold syndrome
08 Laxative
09 Pain Killer
10 Fungicide

GROUPItem

- 401 (continued)
- 11 Inhalant
 - 12 Other drugs
 - 13 Vitamins
 - 14 Bandage
 - 15 1st aid kit
 - 16 Thermometer
 - 17 Other supplies
 - 18 Other equipments
 - 19 Local medicines
 - 20 Other medicines and supplies
 - 99 All items
- 402 Medical services
- 01 Hospital. clinic-private
 - 02 Hospital. clinic-Government.
 - 03 Doctor fees
 - 04 Nursing fees
 - 05 Eye examination and eye glasses
 - 06 Dentist fees
 - 07 X-ray. Lab fees
 - 08 Midwife fees
 - 09 Local doctor
 - 10 Other medical services
 - 99 All items
- 411 Personal care supplies
- 01 Toilet soap
 - 02 Tooth paste
 - 03 Tooth brush
 - 04 Shampoo
 - 05 Hair cream

GROUPItem

- 411 (continued)
- 06 Perfume and cologne
 - 07 Face powder and powder
 - 08 Lipstick
 - 09 Other cosmetics
 - 10 Brushes
 - 11 Razor and blades
 - 12 Manicure set
 - 13 Toilet paper
 - 14 Cleaning tissue
 - 15 Sanitary napkins
 - 16 Other supplies
 - 99 All items
- 412 Personal services
- 01 Haircut.
 - 02 Haircurl
 - 03 Hairset
 - 04 Massage
 - 05 Manicure
 - 06 Turkish bath
 - 07 Other personal services
 - 99 All items
- 501 Local transportation
- 01 Bus
 - 02 taxi
 - 03 Samlor
 - 04 Motorcycle
 - 05 Mini bus
 - 06 School bus
 - 07 Bus for clerks only

GROUP

Item

- 501 (continued)
- 08 Boat and ferry
 - 09 Other local transport
 - 99 All items
- 502 Travel out of area
- 01 Train fare
 - 02 Air fare
 - 03 Bus fare
 - 04 Ship fare
 - 05 Other fares
 - 06 Hotel rate
 - 07 Tours (Domestic)
 - 08 Tours (Abroad)
 - 09 Other Transport
 - 99 All items
- 511 Vehicle operation
- 01 Regular gasoline
 - 02 Premium gasoline
 - 03 Premium gasoline, unleaded
 - 04 High speed diesel
 - 05 Low speed diesel
 - 06 Liquefied petroleum gas
 - 07 Grease & lubricating oil
 - 08 Lubrication
 - 09 Washing
 - 10 Tyre repair
 - 11 Overhaul
 - 12 Repairs
 - 13 Driving lessons
 - 14 Parking rate

GROUP

Item

- 511 (continued)
- 15 Other operating costs
 - 99 All items
- 512 Vehicle purchase
- 01 Automobile
 - 02 Motorcycle
 - 03 Bicycle
 - 04 Other vehicles
 - 05 Tyres
 - 06 Batteries
 - 07 License
 - 08 Registration
 - 09 Other purchases
 - 99 All items
- 520 Communications services
- 01 Telephone
 - 02 Packlink Phonelink (service rate)
 - 03 Telegraph
 - 04 Postage
 - 05 Writing pad and envelope
 - 06 Ink, pens and other stationery
 - 07 Other communications
 - 99 All items
- 530 Communication equipment
- 01 Telephone handset
 - 02 mobile phone
 - 03 Packlink, phonelink etc.
 - 04 Installation fee
 - 05 Other equipments
 - 99 All items

GROUP

- Item
- 601 Admissions
- 01 Cinema
 - 02 Theatre
 - 03 Boxing
 - 04 Stadium
 - 05 Fairs
 - 06 Children's rides
 - 07 Museums
 - 08 Gardens
 - 09 Sightseeing
 - 10 Golf fee
 - 11 Tennis fee
 - 12 Bowling rate
 - 13 Horse racing rate
 - 14 Swimming rate
 - 15 Memberships
 - 16 Other admissions
 - 99 All items
- 602 Recreation equipment
- 01 Toys
 - 02 Tricycles. etc.
 - 03 Tennis, Golf, sport equipments
 - 04 Other equipments
 - 05 Lottery ticket
 - 06 Numbers game
 - 07 Other gamblings
 - 08 Film, developed and contact.
printing
 - 09 Records, disk
 - 10 Tapes, VDO tape/game

GROUP

- Item
- 602 (continued)
- 11 Pets
 - 12 Pet equipments
 - 13 Pet food
 - 14 Veterinary services
 - 15 Trees, shrubs, etc.
 - 16 Fertilizer, sprays, etc.
 - 17 Garden equipments
 - 18 Other equipments
 - 99 All items
- 603 Musical equipment
- 01 Radio
 - 02 TV, Black and white
 - 03 TV, Color
 - 04 Record player
 - 05 Tape recorder
 - 06 Hi-Fi
 - 07 Piano
 - 08 Other musical instruments
 - 09 Cameras
 - 10 Movie slide projector
 - 11 Radio with built in tape recorder
 - 12 Stereo
 - 13 Video
 - 14 Maintenance and repair
 - 15 Other equipments
 - 99 All items
- 610 Reading materials
- 01 Newspapers
 - 02 Magazines

GROUP

	<u>Item</u>
610	(continued)
	03 Books
	04 Library fees
	05 Other reading materials
	09 All items
620	<u>Religious activities</u>
	01 Flowers
	02 Joss sticks
	03 Gift to wats
	04 Other religious expenses
	99 All items
630	<u>Education expenses</u>
	01 School fees - Private school
	02 School fees - Government school
	03 Tuition - Private academy
	04 Tuition - Government academy
	05 Text books
	06 School equipment
	07 Special lessons
	08 Students' lunch (Semester or month)
	09 Pocket money for children to school
	10 Other education expenses
	99 All items
701	<u>Ceremonies</u>
	01 Weddings
	02 Monkhood
	03 Cremations
	04 Birthdays

GROUP

	<u>Item</u>
701	(continued)
	05 Other ceremonies
	99 All items
702	<u>Miscellaneous expenses</u>
	01 Legal fees
	02 Lawyer fees
	03 Financial services
	04 Advertising rate
	05 Copy printing rate
	06 Pay to nurse maid (outside dwell
	07 Other miscellaneous
	99 All items
900	<u>Taxes</u>
	01 Income tax
	02 House and land tax
	03 Fine rate
	04 Other taxes
	99 All items
910	<u>Contributions</u>
	01 Religious institutions
	02 Educational "
	03 Charitable "
	04 Political "
	05 To persons
	06 Other contributions
	99 All items
920	<u>Occupational expenses</u>
	01 Labour union dues
	02 Agricultural associations
	03 Merchant associations

GROUPItem

920 (continued)
01 Other occupational expenses
99 All items
930 Insurance premiums
01 Theft insurance
02 Fire insurance
03 Damage insurance
04 Life insurance
05 Cremation
06 Collision insurance
07 Auto theft insurance
08 third party insurance
09 Other insurance
99 All items

GROUPItem

950 Non-consumption expenditures
01 Interest
02 Shares
03 Lost money
04 Compensation
05 Money to servants
06 Packing, grating moving services
07 Commission to domestic servant
services
08 Other expenses
99 All items

สูตรการประมาณค่ายอดรวม โดยปกติจากการเลือกตัวอย่าง 2 ชั้น คือ

$$i) \quad Y'_{h1} = \frac{1}{m_{h1}} \sum_{j=1}^{m_{h1}} \frac{1}{P_{h1j}} \cdot \frac{N_{h1j}}{n_{h1j}} \cdot Y_{h1j} \quad \dots \dots \dots (1)$$

- โดยที่ Y_{h1j} คือ ค่าของลักษณะที่ต้องการศึกษา Y ที่เจงนับได้ของทุกครัวเรือนตัวอย่างในชุมชนอาคาร/หมู่บ้านตัวอย่าง j เขตการปกครอง i ภาค h
- N_{h1j} คือ จำนวนครัวเรือนส่วนบุคคลที่นับจดได้ทั้งสิ้นในชุมชนอาคาร/หมู่บ้านตัวอย่าง j เขตการปกครอง i ภาค h
- n_{h1j} คือ จำนวนครัวเรือนส่วนบุคคลตัวอย่างทั้งสิ้นในชุมชนอาคาร/หมู่บ้านตัวอย่าง j เขตการปกครอง i ภาค h
- P_{h1j} คือ โอกาสในการเลือกชุมชนอาคาร/หมู่บ้านตัวอย่าง j เขตการปกครอง i ภาค h
- m_{h1} คือ จำนวนชุมชนอาคาร/หมู่บ้านตัวอย่างทั้งสิ้นของเขตการปกครอง i ภาค h

$$ii) \quad H'_{h1} = \frac{1}{m_{h1}} \sum_{j=1}^{m_{h1}} \frac{1}{P_{h1j}} \cdot \frac{N_{h1j}}{n_{h1j}} \cdot n'_{h1j} \quad \dots \dots \dots (3)$$

- โดยที่ n'_{h1j} คือ จำนวนครัวเรือนส่วนบุคคลตัวอย่างทั้งสิ้นที่เจงนับได้ของชุมชนอาคาร/หมู่บ้านตัวอย่าง j เขตการปกครอง i ภาค h

(1.2) สูตรการประมาณค่า ยอดรวมที่ปรับแล้วของลักษณะที่ต้องการศึกษา Y ของครัวเรือนประเภท h คือ

$$Y''_{h1} = \sum_{i=1}^3 Y_{h1i} \quad \dots \dots \dots (4)$$

(1.3) สูตรการประมาณค่า ยอดรวมที่ปรับแล้วของลักษณะที่ต้องการศึกษา Y ของครัวเรือนทั่วราชอาณาจักร คือ

$$Y'' = \sum_{h=1}^5 Y''_{h1} \quad \dots \dots \dots (5)$$

(2) การประมาณค่าความแปรปรวนของค่าประมาณขอดรวม

(2.1) สูตรการประมาณค่าความแปรปรวนของ Y''_{h1} คือ

$$\hat{V}(Y''_{h1}) = \left[\frac{H''_{h1}}{H'_{h1}} \right]^2 \cdot \frac{1}{m_{h1}(m_{h1}-1)} \sum_{j=1}^{m_{h1}} Z^2_{h1j} \dots \dots \dots (6)$$

โดยที่ $Z_{h1j} = Y'_{h1j} - r_{h1} \cdot H'_{h1j}$

$$Y'_{h1j} = \frac{1}{P_{h1j}} \cdot \frac{N_{h1j}}{n_{h1j}} \cdot Y_{h1j}$$

$$H'_{h1j} = \frac{1}{P_{h1j}} \cdot \frac{N_{h1j}}{n_{h1j}} \cdot n'_{h1j}$$

(2.2) สูตรการประมาณค่าความแปรปรวนของ Y''_h คือ

$$\hat{V}(Y''_h) = \sum_{i=1}^3 \hat{V}(Y''_{h1}) \dots \dots \dots (7)$$

(2.3) สูตรการประมาณค่าความแปรปรวนของ Y'' คือ

$$\hat{V}(Y'') = \sum_{h=1}^5 \hat{V}(Y''_h) \dots \dots \dots (8)$$

(3) การประมาณค่าสัมประสิทธิ์ของความแปรผันของค่าประมาณขอดรวม

(3.1) สูตรการประมาณค่าสัมประสิทธิ์ของความแปรผันของ Y''_{h1} คือ

$$CV(Y''_{h1}) = \frac{\sqrt{\hat{V}(Y''_{h1})}}{Y''_{h1}} \times 100 \% \dots \dots \dots (9)$$

(1.3) สูตรการประมาณค่าเฉลี่ยของลักษณะที่ต้องการศึกษา Y ต่อครัวเรือนของ
ที่วราชอาณาจักร คือ

$$\bar{Y} = \frac{\sum_{h=1}^5 Y_h''}{\sum_{h=1}^5 H_h''} = \frac{Y''}{H''} = r \quad \dots\dots\dots (14)$$

(2) การประมาณค่าความแปรปรวนของค่าเฉลี่ย

(2.1) สูตรการประมาณค่าความแปรปรวนของค่าเฉลี่ย \bar{Y}_{h1} คือ

$$\hat{V}(\bar{Y}_{h1}) = \left[\frac{1}{H_{h1}'} \right]^2 \cdot \frac{1}{m_{h1} (m_{h1} - 1)} \sum_{j=1}^{m_{h1}} Z_{h1j}^2 \dots\dots\dots (15)$$

โดยที่ $Z_{h1j} = Y_{h1j}' - r_{h1} \cdot H_{h1j}'$

$$Y_{h1j}' = \frac{1}{P_{h1j}} \cdot \frac{N_{h1j}}{n_{h1j}} \cdot Y_{h1j}$$

$$H_{h1j}' = \frac{1}{P_{h1j}} \cdot \frac{N_{h1j}}{n_{h1j}} \cdot H_{h1j}'$$

(2.2) สูตรการประมาณค่าความแปรปรวนของค่าเฉลี่ย \bar{Y}_h คือ

$$\hat{V}(\bar{Y}_h) = \left[\frac{1}{H_h'} \right]^2 \sum_{i=1}^3 \frac{1}{m_{hi} (m_{hi} - 1)} \left[\sum_{j=1}^{m_{hi}} (Z_{hij}')^2 - m_{hi} \cdot Z_{hi}^2 \right] \dots\dots\dots$$

(3.2) สูตรการประมาณค่าสัมประสิทธิ์ของความแปรผันของ Y_h'' คือ

$$CV(Y_h'') = \frac{\sqrt{\hat{V}(Y_h'')}}{Y_h''} \times 100 \% \quad \dots\dots\dots (10)$$

(3.3) สูตรการประมาณค่าสัมประสิทธิ์ของความแปรผันของ Y'' คือ

$$CV(Y'') = \frac{\sqrt{\hat{V}(Y'')}}{Y''} \times 100 \% \quad \dots\dots\dots (11)$$

2) ค่าเฉลี่ย

(1) การประมาณค่าเฉลี่ย

(1.1) สูตรการประมาณค่าเฉลี่ยของลักษณะที่ต้องการศึกษา Y ต่อครัวเรือนของเขตการปกครอง i ภาค h คือ

$$\bar{Y}_{h1} = \frac{Y_{h1}''}{H_{h1}''} = r_{h1} \quad \dots\dots\dots (12)$$

(1.2) สูตรการประมาณค่าเฉลี่ยของลักษณะที่ต้องการศึกษา Y ต่อครัวเรือนของภาค h คือ

$$\bar{Y}_h = \frac{\sum_{i=1}^3 Y_{hi}''}{\sum_{i=1}^3 H_{hi}''} = \frac{Y_h''}{H_h''} = r_h \quad \dots\dots\dots (13)$$

$$\text{โดยที่ } Z'_{h1j} = Y'_{h1j} - r_h \cdot H'_{h1j}$$

$$Z'_{h1} = Y'_{h1} - r_h \cdot H'_{h1}$$

(2.3) สูตรการประมาณค่าความแปรปรวนของค่าเฉลี่ย \bar{Y} คือ

$$\hat{V}(\bar{Y}) = \left(\frac{1}{H} \right)^2 \sum_{h=1}^5 \sum_{i=1}^3 \frac{1}{m_{h1}(m_{h1}-1)} \left[\sum_{j=1}^{m_{h1}} (Z''_{h1j})^2 - m_{h1} \cdot Z'^2_{h1} \right] \dots (17)$$

$$\text{โดยที่ } Z''_{h1j} = Y'_{h1j} - r \cdot H'_{h1j}$$

$$Z'_{h1} = Y'_{h1} - r \cdot H'_{h1}$$

(3) การประมาณค่าสัมประสิทธิ์ของความแปรผันของค่าเฉลี่ย

(3.1) สูตรการประมาณค่าสัมประสิทธิ์ของความแปรผันของค่าเฉลี่ย \bar{Y}_{h1} คือ

$$CV(\bar{Y}_{h1}) = \frac{\sqrt{\hat{V}(\bar{Y}_{h1})}}{\bar{Y}_{h1}} \times 100 \% \dots (18)$$

(3.2) สูตรการประมาณค่าสัมประสิทธิ์ของความแปรผันของค่าเฉลี่ย \bar{Y}_h คือ

$$CV(\bar{Y}_h) = \frac{\sqrt{\hat{V}(\bar{Y}_h)}}{\bar{Y}_h} \times 100 \% \dots (19)$$

(3.3) สูตรการประมาณค่าสัมประสิทธิ์ของความแปรผันของค่าเฉลี่ย \bar{Y} คือ

$$CV(\bar{Y}) = \frac{\sqrt{\hat{V}(\bar{Y})}}{\bar{Y}} \times 100 \% \dots (20)$$

[illegible]

[illegible]