



THE METHODOLOGY OF SUSENAS BPS-Statistics Indonesia



SURVEY SIZE



34 Provinces, 514 District

300.000 households-District level of Estimation

75.000 households-Provincial level of estimation

Urban & Rural Area

Ordinary Census Block

10 households/CB

SAMPLING METHODE

Sampling Frame of Susenas :



Sampling frame of the first stage is the list of ordinary census block of SP2010 (720.000 CBs)



Sampling frame of the second stage is the list of 25% census blocks (180.000 CBs) equipped with the information of its stratum. This list is called as the master sampling frame.



Sampling frame of the third stage is the list of households in each census block resulted from the updating process.

SAMPLING METHODE (2)

The sample selected by **Two stage one phase stratified sampling method**

❑ **Census Block** was stratified into 3 strata by wealth index

- Data Source: 2010 Population Census using variables (Primary floor material; Primary source of lighting; Main source of energy for cooking; Main source of drinking water; Type of toilet facility; Type of excreta disposal; Telephone mastery; Connection to internet; Household's head educational level)
- Calculate household wealth index using Polychoric Principal Component Analysis of nine operational variables.
- Determine cut off of the index using deciles as the proxy, then classify a household into one of three categories:
 - Low wealth index: < 3rd decile
 - Moderate wealth index: 3rd decile to 7th decile
 - High wealth index: > 7th decile

❑ **Households**

Implicit stratification by household's head educational level based on updating results

PROCEDURE TO SELECT SAMPLE – DISTRICT LEVEL ESTIMATION

1st

- Select 25% out of the census blocks population by PPS systematically
- size = number of SP2010 household (hh) in each U/R stratum

2nd

- Select a number of census block systematically by strata in each district
- using implicit CB stratification by wealth index

3rd

- Select ten (10) households systematically out of the updated household list
- using implicit stratification by hh's head educational level

PROCEDURE TO SELECT SAMPLE – PROVINCIAL LEVEL ESTIMATION

1st

- Sub Sample of District level of Estimation

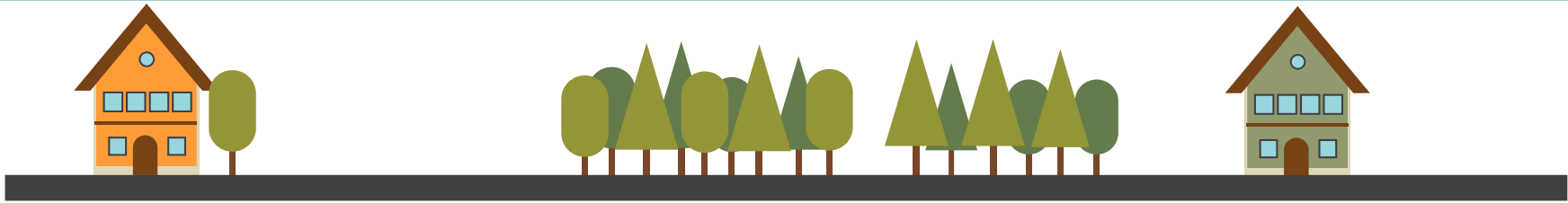
2nd

- Select 7.500 census blocks systematically out of the 30.000 census blocks of the district level.
- Previously the samples were allocated proportionally in each stratum of the districts

3rd

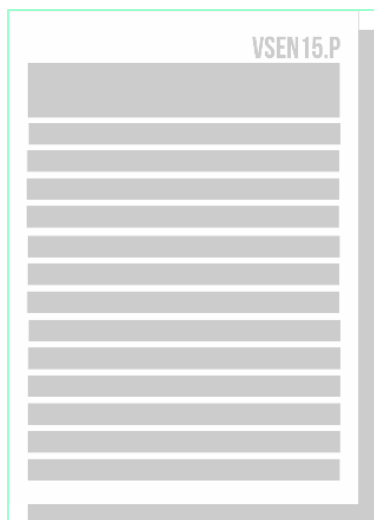
- Select ten (10) households systematically out of the updated household list
- using implicit stratification by hh's head educational level

HOUSEHOLD UPDATING



- Enumerator identify his/her working area (census blocks), and go to meet person in charge in the area to inform about the survey.
- Using the sketch map of the census block, the enumerator recognizes the territorial boundaries.
- He/she have to update the entire household/buildings in the census blocks Using the VSEN.P document which contains results of the 2010 Population Census or the last update in preprinted form. The officers should check the presence of households in the preprinted list according to field conditions and add households that isn't on the preprinted list yet.
- This updating is important to determine the population of households in the census block as well as update the information in the sketch map of census blocks.

HOUSEHOLD UPDATING INSTRUMENT

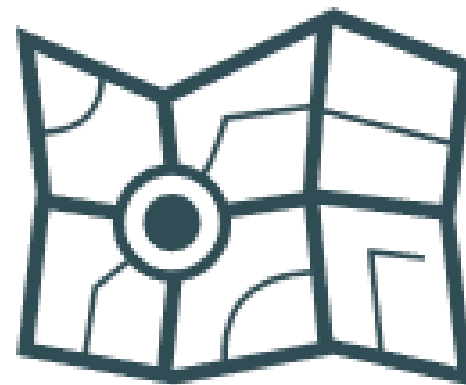


VSEN.P LIST

VSEN.P is a list that contains all names of the household head including their address (SLS, street name, etc) in one census block.

SP2010-WB/ST2013-WB *Print-out Map*

This map is used as a basis for identifying the working area and a guidelines for Susenas enumeration. The map has been listed on the legends, landmarks, and physical / census building positions used by officers to track / identify selected household locations.



SP2010-WB MAP



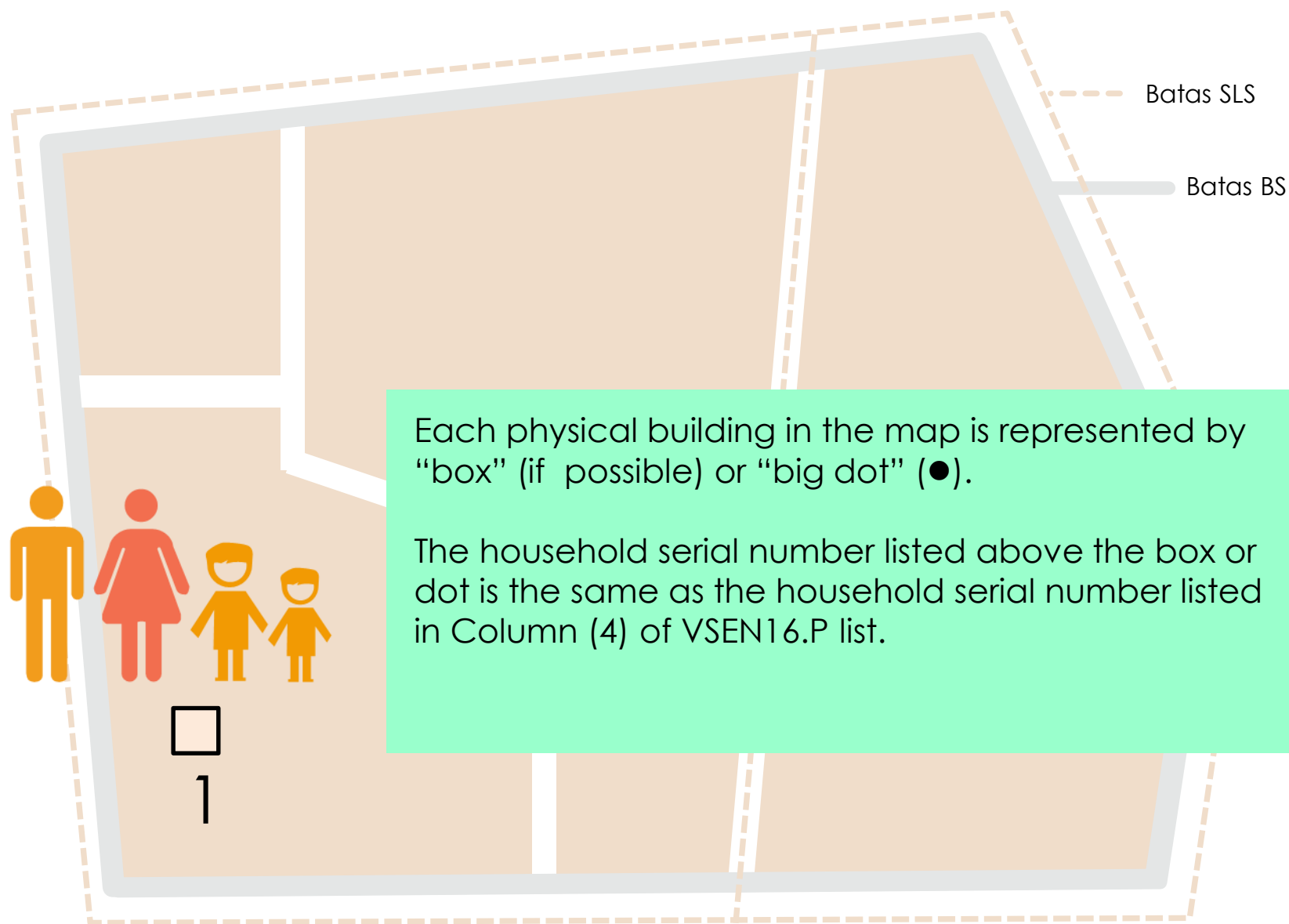
If there are legends and landmarks not listed on the map yet, the officer must add it.



Using the SP2010-WB Map that became his/her working area, the officer accompanied by a roadmap from the BPS in Regency/City surrounded the outer boundaries of the census block and SLS boundary within the census block and identified the legends and landmarks contained in the census block.



SP2010-WB MAP SKETCH



HOUSEHOLD UPDATING

● This household updating activity will find out these events:

1. Non mover households,
2. In mover and out mover households,
3. Spread out households.



This findings were developed to be:

1. Found
 2. Change the head of household
 3. Move in the census block
 4. New household
 5. Move out the census block
 6. Join another household
 7. Not found
- } New Comers

HOUSEHOLD UPDATING



1. **Found** is the condition where the name of household head and the address at the updating time is the same as the name and address at the time of SP2010/ST2013 enumeration. Included in this category when the name of the household head is different because the name listed is a nick or an 'alias' name, as well as an error in writing the name and the difference of address due to a writing error during the previous household update or a change of street name. (Write down the actual name or address)
2. **Change the head of household** is a condition in which the address at the household updating time is the same as the address at the time of SP2010/ST2013 enumeration, but there is a change of the household head because the head of household listed before has moved, died, divorced, or otherwise. Included in this condition is the occurrence of error in determining the head of household conducted by SP2010/ST2013 officer. Scratch the column (5), which is the name of household head and write the new name. Then the officer wrote the code "2" in column (7).
3. **Move in the census block**, is a condition where the address at the household updating time differs from the address at the time of SP2010/ST2013 enumeration while the name of household head remains the same. Excludes differences in household address due to address error, change of street name, or administration area expansion at SP2010/ST2013 enumeration. Error writing address means the existence of the household position is correct already.

HOUSEHOLD UPDATING



4. **New Household**, are household found at the updating time but not listed in VSEN16.P list yet. A household is referred to as a new household if all ART in the household has not been recorded as a household in the census block. Included in this condition are the households that were missed during the previous update and also the new households found on the census block which are household fragments recorded at the time of SP2010 / ST2013 enumeration.
5. **Moved Out Census Block** is a condition in which the household recorded on the VSEN16.P list is not found at the updating time, and after confirmation with neighbor or neighborhood chief, there is information that the household has moved to a residence outside the census block. It must be ensured that the household has moved the residence out of the census block and not on suspicion. Including single households who have died at the updating time.
6. **Join another household** is a condition in which household join other household within the selected census block. If there is no information that a household joins another household outside the census block, the household is said to moved out the census block (5).
7. **Not found is** a condition in which the household at the updating time can not be found (after being confirmed with their neighborhoods as unknown). This condition includes households that are not covered by the census block due to misidentification at the time of previous update. Cases are not found when the household generally contracts/ leases in 2010 and after so many years the house has alternated its inhabitants, it is likely to be recorded as household not found.

VSEN.P LIST STRUCTURE

001 029B Halaman 1 dari 9 halaman

BLOK V. KETERANGAN RUMAH TANGGA

Jika Kolom(7) Berkode 1 - 4

SLS	Bangunan Fisik	Sen sus	Ruta	Nama Kepala Rumah Tangga (KRT)	Alamat	Keber- daan Rumah Tangga (*)	Pendidikan Tertinggi yang Ditamatkan Kepala Rumah Tangga					Jum- lah ART
							< SMP	SMP	SMA	PT		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
001	001	001	001	001	BLOK H 1 PINTU 01 RT 17 RW 15	<input type="checkbox"/>						
001	001	001	001	001	BLOK H 1 PINTU 02 RT 17 RW 15	<input type="checkbox"/>						
001	001	001	001	001	BLOK H 1 PINTU 03 RT 17 RW 15	<input type="checkbox"/>						
001	001	001	001	001	BLOK H 1 PINTU 04 RT 17 RW 15	<input type="checkbox"/>						
001	001	001	001	001	BLOK H 1 PINTU 05 RT 17 RW 15	<input type="checkbox"/>						

Block I. Place Description

Block II. Household Recapitulation

Block III. Enumeration Description

Block IV

Block V. Household Information
Consists of 13 columns:

- Column (1):** SLS serial number;
- Column (2):** Physical building serial number;
- Column (3):** Census building serial number;
- Column (4):** Household serial number;
- Column (5):** Head of household name;
- Column (6):** Address;
- Column (7):** Household existence;
- Column (8):** Household serial number after updating;
- Column (9)-(12) :** Head of household's highest education;
- Column (13):** Number of household members.

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SURVEI SOSIAL EKONOMI NASIONAL
DAFTAR PEMUTAKHIRAN RUMAH TANGGA

RAHASIA MARET

BLOK I. KETERANGAN TEMPAT

1. Provinsi	RIAU	
2. Kabupaten/Kota *)	INDRAGIRI HILIR	
3. Kecamatan	PULAU BURUNG	
4. Desa/Kelurahan *)	PULAU BURUNG	
5. Klasifikasi Desa/Kelurahan	Perkotaan -1	Perdesaan
8. Nomor Blok Sensus		
9. Nama SLS	RW 15 RT 17	
10. Nomor Kode Sampel (NKS) **)		

BLOK II. REKAPITULASI RUMAH TANGGA

Banyaknya Rumah Tangga Eligible Hasil Pemutakhiran	
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BLOK III. KETERANGAN PETUGAS

URAIAN	PENCACAH
1. Nama Petugas	
2. Tanggal	
3. Tanda Tangan	

BLOK IV. CATATAN

7 Maret yang akan pend...
7 Maret yang akan pend...
kode 2 dicacah Maret

VSEN.P

Serial Number				Head of household name	Address	Hous ehol d Exist enc e*)	If column (7) is coded 1-4					
SLS	Building		Hou seho ld				Househol d serial number after updating	Head of household Highest Education				Num ber of hous ehol d mem bers
	Physi cal	Censu s						<Ju nior high Sch ool	Junio r High Scho ol	Senio r High Scho ol	Coll ege	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)

001	003	003	001	LENI FITRI YANTI	RT 001 RW 001	1	1	√				5
001	004	004	002	HENDRIK JAMIL	RT 001 RW 001							
001	004	006	003	SUPRIADI	RT 001 RW 001							
001	005	000										
001	006	000										
001	007	000										

This block consist of 13 columns. Column (1)-(6) already filled; Column (7) is filled according to the household existence at the updating time; Column (8)-(13) are filled according to the result of household updating, Column (9)-(12) is given a checklist "√" on the column that corresponding to the household head education level.

The household existence*) code is on *footer*:

1. Found
2. Change the head of household
3. Move in census block
4. New household
5. Move out census block
6. Join another household
7. Not found

VSEN.P FULFILLMENT PROCEDURE (12)

BLOK V. KETERANGAN RUMAH TANGGA

- **ART** is everyone who usually inhabits in a household (head of household, husband/wife, child, son-in-law, grandchild, parent/in laws, other relatives, housemaids or other household members).
- **Including:**
 - Newborn baby
 - Guests who have lived 6 months or more, although not yet intend to settle (moved to come). Includes a guest who has not lived 6 months but has left his/her home 6 months or more.
 - People who live <6 months but intend to stay (moved to come).
 - The maid /chauffeur who lives and joins to eat together with her/his boss's household.
 - People who lodge with meals (indekos) amount to <10 people
 - Head of household who works elsewhere (excluding the census block), do not go home everyday (<6 months) such as sailors, pilots, inter-island traders.

e 1 - 4

Jum
lah
ART

A

PT

(12)

(13)

VSEN.P FULFILLMENT PROCEDURE (12)

BLOK V. KETERANGAN RUMAH TANGGA

Note:

- If it is known that a husband has more than one wife, then he should be recorded in one of the wife's household that has been living with longer. If known to live with his wives the same time, then he was recorded in the house of the wife of the longest married.

Not including:

- Children who lives elsewhere (outside of census block) for schooling/working, although return to their parents house once a week or during holiday, are considered to have established their own household or joined another household in their daily residence.
- Some one who has been traveling for 6 months or more, although has not moved yet.
- People who have gone less than 6 months but intend to move.
- Domestic servants who do not live in their boss's household.
- People who lodge without meals.
- People who lodge with meals as more than 10 people.

e 1 - 4

Jum
lah
ART

A PT

(12) (13)

FINDING THE SELECTED HOUSEHOLD

1. After households in census block was updated. The officer will input in application programs.
2. Using implicit stratification by hh's head educational level, The programs will automatically select 10 households.
3. The list of selected households and names of household heads to be interviewed are listed in VSEN.DSRT List.



VSEN15.DSRT

VSEN.DSRT is a list of 10 selected households as a sample selection result from VSEN.P list, which must be approached for interview with VSEN.K and VSEN.KP list by officers.

VSEN16.DSRT Structure

X



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DAFTAR SAMPEL RUMAH TANGGA

VSEN16.DSRT

BLOK I. KETERANGAN TEMPAT				
1. Provinsi	RIAU		1	4
2. Kabupaten/Kota *)	INDRAGIRI HILIR		0	3
3. Kecamatan	PULAU BURUNG		1	2 3
4. Desa/Kelurahan *)	PULAU BURUNG		0	0 1
5. Klasifikasi Desa/Kelurahan	Perkotaan -1 Perdesaan (-2)			2
6. Nomor Blok Sensus			0	2 9 B
7. Nomor Kode Sampel (NKS) **)			2	1 6 2 1

BLOK III. KETERANGAN PENCACAHAN		
URAIAN	PENCACAH	
1. Nama Petugas	ZULFAN	
2. Tanggal		
3. Tanda Tangan		

*) Coret yang tidak sesuai

Block I. Place Description

- Consisting the name of the province district / city, sub-district, village / urban village, village / urban village classification, census block number, and sample code number (NKS);

VSEN16.DSRT Structure (2)

X



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DAFTAR SAMPEL RUMAH TANGGA

VSEN16.DSRT

RAHASIA

MARET

BLOK III. KETERANGAN PENCACAH

BLOK IV. CATATAN

URAIAN

PENCACAH

1. Nama Petugas

2. Tanggal

3. Tanda Tangan

*) Coret yang tidak sesuai

Block IV. NOTE

Contains all necessary information
related to household samples

URAIAN

PENCACAH

PENGAWAS

1. Nama Petugas

ZULFAN

ADI

2. Tanggal

3. Tanda Tangan

*) Coret yang tidak sesuai

**) NKS Digit-1 kode 1 dicacah Maret dan September
kode 2 dicacah Maret

VSEN16.DSRT Structure (2)

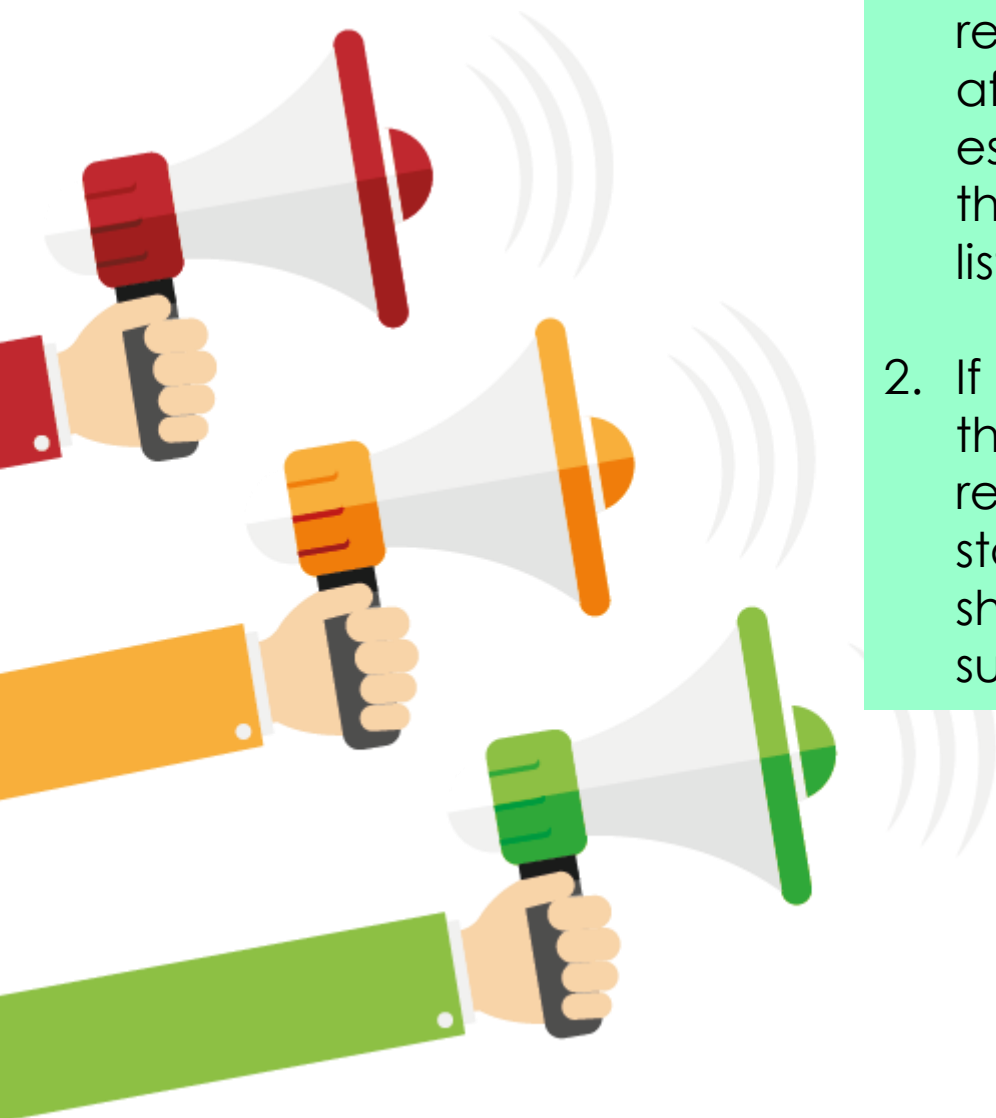
Identitas Blok Sensus : 1403123001 029B

BLOK V. KETERANGAN RUMAH TANGGA TERPILIH											
No. Urut					Nama Kepala Rumah Tangga	Alamat	Pendidikan tertinggi yang dita- matkan KRT 1 = < SMP 2 = SMP 3 = SMA 4 = PT	Jumlah ART Hasil Pemu- tahiran	Status Pencacahan 1=Terisi Lengkap 2=Terisi Tdk Lengkap 3=Tidak ada ART/ responden yang dapat memberi jawaban 4=Responden Menolak 5=Ruta pindah /bangunan sensus sudah tidak ada	Jumlah ART Hasil Penca- cahan	
Sam pel	SLS	Bangunan		Ruta							
		Fisik	Sen sus								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
1	041	002	010	010	RUSLAN	BLOK H 2 PINTU 04 RT 17 RW 15	2	4			
2	041	004	024	023	HERMAN S	BLOK H 4 PINTU 06 RT 17 RW 15	3	3			
3	041	008	046	045	KHAIRIL AMRI	BLOK H 8 PINTU 04 RT 17 RW 15	3	3			
4	041	012	067	063	SUMARNO	BLOK H 12 PINTU 01 RT 17 RW 15	2	2			
5	041	013	073	069	A DARWIN PANE	BLOK X KOPERASI RT 17 RW 15	3	4			
6	041	017	096	092	SUMARDI	BLOK H 21 PINTU 06 RT 17 RW 15	4	3			
7	041	018									
8	041	021									
9	041	024									
10	041	025									

For sampling conducted using computer application, the entries for column (1) till column (9) has already been printed on Block V. As for columns (10) and (11) are filled based on the results of enumeration and copied from

For sampling conducted using computer application, the entries for column (1) till column (9) has already been printed on Block V. As for columns (10) and (11) are filled based on the results of enumeration and copied from Block II and III VSEN.K.

NOTE



1. Enumerators are not allowed to replace sample of households, as they affect the quality of population estimates. Only households listed in the DSRT are enumerated with VSEN.K list.
2. If the enumerator can not meet with the selected household, or the respondents refuses, the enumeration status in column (1) of VSEN.DSRT and shall report to the supervisor and supervisor make a note in BLOCK IV.



THANK YOU

