

Survey on Equipment and Use of Information and Communication Technologies in Households (ICT-H. 2006)

Methodological report

INSTITUTO NACIONAL DE ESTADÍSTICA



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1 Presentation of the survey

The general objective of the Survey on the Equipment and Use of Information and Communication Technologies in Households (ICT-H) is to obtain data on the development of what is known as the *Information Society*.

The survey has the following specific objectives:

1. To ascertain the information and communication technologies equipment in Spanish households (ICT products, television, landline and mobile phone, computer equipment...).
2. To ascertain the use that the Spanish population makes of computers, Internet and e-commerce.
3. To serve as a base to establish comparisons between Spain and other countries and meet the requirements set by international institutions.
4. To obtain information that is comparable between Autonomous Communities.

1.1 General description of the survey

In 2004 the survey started to be conducted continuously, as a 'Rotating Panel.' This means that the same dwellings (panel) are investigated over various years, with a quarter of the sample being renewed (i.e. rotating) every year.

The sample was obtained from the continuous register of inhabitants. It comprised 2,578 census sections distributed by autonomous community. Eight main dwellings were selected within each section, and 6 reserve dwellings were also selected in case incidents were to arise regarding the main dwellings.

In the first wave of 2005 the corresponding quarter of the sample of dwellings was renewed. As regards the rest of the sections, the main and reserve dwellings that filled in the 2004 questionnaire are maintained (they are all considered main dwellings in 2005), as are the reserves that were not used before to replace main dwellings (they are still considered reserves in 2005).

The sample for the ICT-H 2005 survey was made up of 28,224 dwellings, 23,682 of which were main dwellings and the rest reserve dwellings that were to be used if something happened to the main dwelling.

The same procedure was used for the second wave of 2005 and for the first wave of 2006. In this latest survey, the sample was made up of 35,742 dwellings, of which 27,422 were main dwellings and the rest reserve dwellings.

SAMPLE OF MAIN AND RESERVE DWELLINGS BY METHOD OF COLLECTION

	Reserves		
	Main CAPI	Main CATI	
01 ALAVA	50	32	142
02 ALBACETE	65	40	175
03 ALICANTE/ALACANT	189	120	413
04 ALMERIA	411	352	140
05 AVILA	42	16	61
06 BADAJOZ	247	120	375
07 BALEARS (ILLES)	298	184	563
08 BARCELONA	619	392	1201
09 BURGOS	74	48	151
10 CACERES	183	104	215
11 CADIZ	503	440	248
12 CASTELLON/CASTELLO	91	48	125
13 CIUDAD REAL	129	72	197
14 CORDOBA	365	328	186
15 CORUÑA (A)	202	120	395
16 CUENCA	41	24	87
17 GIRONA	82	48	141
18 GRANADA	376	320	177
19 GUADALAJARA	59	32	52
20 GUIPUZCOA	126	96	299
21 HUELVA	338	288	103
22 HUESCA	57	32	155
23 JAEN	396	368	140
24 LEON	92	64	218
25 LLEIDA	41	24	84
26 RIOJA (LA)	234	144	433
27 LUGO	72	40	118
28 MADRID	773	408	1086
29 MALAGA	499	408	314
30 MURCIA	273	200	630
31 NAVARRA	1088	960	1008
32 OURENSE	72	48	105
33 ASTURIAS	666	456	1369
34 PALENCIA	31	16	82
35 PALMAS (LAS)	181	120	406
36 PONTEVEDRA	147	104	296
37 SALAMANCA	102	56	122
38 S. C. TENERIFE	206	120	274
39 CANTABRIA	229	160	489
40 SEGOVIA	26	16	61
41 SEVILLA	526	400	365
42 SORIA	27	16	34
43 TARRAGONA	98	64	125
44 TERUEL	55	40	83
45 TOLEDO	143	96	237
46 VALENCIA	367	224	606
47 VALLADOLID	109	72	205
48 VIZCAYA	243	160	473
49 ZAMORA	52	40	68
50 ZARAGOZA	277	184	568
51 CEUTA	52	24	80
52 MELILLA	46	32	72
TOTAL	11670	8320	15752

The dwellings in sections undertaking the first interview and dwellings without a telephone were interviewed via personal interview with tablet (CAPI).

All other dwellings were interviewed by telephone, recording the survey on an electronic questionnaire from CATI centres.

The fieldwork was conducted all over Spain from the 6th March until the 23rd June 2006.

The population object under investigation (objective population) was made up of persons who live in main family dwellings. Yet, although persons from all ages compose the objective population, not all persons are investigated exhaustively, as only persons aged 15 and over at the time of the interview eligible for an exhaustive investigation. One person is selected out of all the persons that fulfil this requirement.

When completing the questionnaire, the table "Household members" is filled in first of all to decide which persons are household members and which are surveyable (household members aged 15 and over). This data must be provided by an informant who is a member of the household and is aged 18 or over.

The selection of the person to survey is made electronically by means of a random procedure.

Blocks II and III deal with the equipment of the household as to ICT products: television, computer, telephone, etc and whether or not the household has Internet access.

Block IV is filled in if there are children aged 10-14 in the household. There is a series of questions for all of them related to the use of computers, the Internet and mobile phones.

Blocks II to IV may be filled in by the initial informant or the selected person.

Blocks V to VIII deal with the use of computers, the Internet and e-commerce and include some socio-economic data on the selected persons. Only the selected person may respond.

1.2 Organisation of fieldwork

Data was collated in two ways:

- Personal interview with laptop computer or tablet (CAPI): The interviewer does not use paper questionnaires, rather s/he has a laptop computer onto which the questionnaire has been uploaded, so that interviews may be carried out with this laptop computer.

This method is used to interview households from sections with a new sample and households already included in the 2005 sample for whom there is no contact telephone.

- Telephone interview in a CATI centre: households from the 2005 sample are interviewed by phone from a CATI centre as long as they have a telephone number. The interviewer does not use paper questionnaires but rather records responses from the informant directly on the electronic questionnaire.

The CATI centres are located in the Delegations of Albacete, Guipúzcoa, Orense and Tarragona and each one of them calls the following provinces:

Province where the CATI centre is located	Provinces from where information is collated
Albacete	Albacete, Madrid, Murcia and Soria
Orense	Almería, Badajoz, Cáceres, Cádiz, Ciudad Real, Córdoba, Coruña, Cuenca, Granada, León, Lugo, Orense, Asturias and Pontevedra
Guipúzcoa	Avila, Burgos, Guadalajara, Huelva, Jaén, La Rioja, Málaga, Navarra, Palencia, Las Palmas, Salamanca, Cantabria, Segovia, Valladolid and Zamora
Tarragona	Alicante, Baleares, Barcelona, Castellón, Gerona, Huesca, Lérida, Santa Cruz de Tenerife, Sevilla, Tarragona, Teruel, Toledo, Valencia, Zaragoza, Ceuta and Melilla

In CATI centres, personnel worked in two shifts from Monday to Friday. The first shift covered the interval from 9 am to 3 pm and the second from 3 pm to 9 pm.

Each sample section is allocated a week of initial work, plus 3 weeks more in order to make up any absent or inaccessible dwellings. The survey letters of introduction are sent the week prior to the first week of section work.

As regards personnel contracted for the survey, it is worth noting that there were 8 Interviewer Inspectors and 44 Interviewers for 15,752 CATI main households, and 26 Interviewer Inspectors and 126 Interviewers for 11,670 CAPI main households.

1.3 Incidents concerning dwellings and groups and their treatment

The **dwelling keys** considered are:

- Unlocatable dwelling (UD)

In CAPI this incidence occurs when the dwelling is not located by an error in the entry address. The dwelling may not be located on the address that appears on the list of dwellings selected either because the address is incorrect, is duplicated with another dwelling included in the sample or because the dwelling does not currently exist.

This incident does not exist in CATI.

- Dwelling used for other purposes (OP)

The household selected is dedicated entirely to purposes other than the family residence. For example: convent, old people's home, garage, office, etc.

- Inaccessible dwelling (IN)

In CAPI this refers to a dwelling that cannot be accessed to carry out the interview due to geographical or climatological (floods, snowfall, etc.) changes (when there are no routes to arrive there) or to any other type of changes.

In CATI this incident is automatically assigned when the telephone recorded for a dwelling does not correspond to the address in which the interview may be conducted and it is not possible to locate a correct telephone.

- Empty dwelling (E)

The dwelling selected is not a main dwelling, it may be a temporary dwelling (inhabited or uninhabited at the time of the interview) or inhabited for any reason, such as death or change of residence of persons who live there.

- Surveyable dwelling (S)

The **group keys** considered are:

- Total refusal (TR)

This is considered when it has not been possible to conduct the interview, either via an outright refusal or a subsequent refusal after initially having started to collaborate.

- Refusal of the selected person (RS)

This case is considered when the initial informant answers the general household questions but **the selected person refuses to give information**, either via an outright refusal or a subsequent refusal after initially having started to collaborate.

- Total absence (TA)

In CAPI this is used after successive visits to the dwellings have not resulted in interview because all household members are absent and cannot be contacted.

This incident is used in CATI when it is not possible to contact anybody in the dwelling after calls made or when it is possible to contact somebody who does not live in the dwelling and who gives information that its occupants are absent.

- Absence of the selected person (AS)

This is used after successive visits to the dwelling have not resulted in interview because the person selected is absent and cannot be contacted.

- Incapacity to respond (IR)

This incidence occurs when it is not possible to carry out the interview due to incapacity to respond whether due to age, disability, illness, lack of knowledge of the language or any other circumstances either concerning the household members as a whole (preventing initial contact) or of just the selected person.

In the case of the selected person's incapacity to respond it is admissible for the interviewer to use a third person as an intermediary to obtain the information.

- Surveyed group (S)

When none of the previous incidents occurs and the completed questionnaire fulfils the requirements to be considered *complete*.

A questionnaire is **complete** if all the corresponding questions required by the electronic questionnaire have been answered.

Moreover, for dwellings surveyed by means of telephone interview in CATI centres, the results of each and every call made are also collected.

The possible **call results** are:

- Not contacted (NC): when nobody answers the telephone or the call is answered by an answer phone.

- Without a telephone (WT): the telephone does not exist or is a fax or the interviewer verifies that the address to which this telephone corresponds is not the address that appears on the screen.

- Engaged (EN): the engaged tone.

- Contact postponed (CP): contact is made with the dwelling, but before the interview starts, the informant requests that they be called at another time or there is no valid informant at the dwelling at this time and the call is postponed.

- Partial interview because a new appointment is established (EPC): these are calls in which the questionnaires have been started to be filled in but the informant requests that the interview continue at another time.
- - Partial interview interrupted for other reasons (EPO): these are calls in which the questionnaires have started to be filled in but the interview is interrupted due to the line being cut, problems with the system, etc.
- - Interview completed (IC): the interviewer records the dwelling key OP or E or the dwelling key S, and the group keys S, TR, RS, TA, AS or IR on the Work Sheet.

2. Design of the sample

2.1 Type of sampling

The sample has been designed considering in the whole country by means of a stratified tri-stage sample.

First stage units are census sections. Second stage units are main family dwellings. During the third stage, **a person** is selected in each dwelling who is aged over 14 years old. Furthermore, **all minors** aged between 10 and 14 are also investigated in each dwelling.

The framework used to select the sample is an area framework made up of the list of existing census sections referring to 1 January 2001. The selection of second stage units uses the most updated available list of main family dwellings in each of the sections selected for the sample obtained from the most updated continuous inhabitants register.

The stratification criteria used was the size of the municipality to which the section belongs. In the case of Navarra, by agreement with this community, other substrata have been defined based on the rural or urban type of municipality and on the geographical location within the country (Urban Pamplona, Rural Pamplona, Urban North, Rural North, Urban Middle, Rural Middle, Urban South and Rural South). As regards Asturias, other substrata have been defined, for the same reason, based on the regions to which the municipality belongs (Navia, Narcea, Avilés, Oviedo, Gijón, Caudal, Nalón and Oriente).

An independent sample is designed to represent each autonomous community, since one of the objectives of the survey is to facilitate data with this level of breakdown. Conversely, the survey is not representative at a provincial level. Micro-data files provide the province code solely to ensure the user can obtain the autonomous community of residence.

2.2 Size of the sample. Allocation.

In order to fulfil the goals of the survey, i.e. to provide estimates with a specific degree of reliability on a national level and by Autonomous Community, a sample of 3,060 census sections has been selected, with 8 dwellings selected in each census section.

In order to obtain a minimum sample size that allows reliable estimates on an autonomous community level, the sample is distributed among them by using a commitment allocation, either uniform or proportional to the size of the community. Similarly, information from the ICT-H-2005 survey has also been taken into account.

The sample is also distributed by strata:

Stratum0= population equal or over 500,000 inhabitants.

Stratum1= population under 500,000 and APS stratum =1 (province capital)

Stratum2= population equal or over 100,000 and under 500,000

Stratum3= population equal or over 50,000 and under 100,000

Stratum4= population equal or over 20,000 and under 50,000

Stratum5= population equal or over 10,000 and under 20,000

Stratum6= population under 10,000

Between strata, allocation is proportional to size. Furthermore, the number of sections by strata in each autonomous community is always a multiple of four.

The sample was increased in the Autonomous Community of Andalucía and in the Comunidad Foral de Navarra based on the agreements subscribed with the Statistics Institutes in these communities and with the objective of being able to provide a higher level of data breakdown. The same has occurred with the Principado de Asturias as a result of the agreement subscribed by the INE and the Fundación Centro Tecnológico de la Información y Comunicación [Information and Communication Technological Centre Foundation] of said region.

The number of dwellings selected in each census section is 14, of which 8 are main and 6 reserves.

The distribution of the number of sections selected by autonomous community is:

Autonomous Community	Number of census sections
Andalucía	588
Aragón	128
Asturias (Principado de)	232
Baleares (Islas)	92
Canarias	120
Cantabria	80
Castilla y León	172
Castilla - La Mancha	132
Cataluña	264
Comunidad Valenciana	196
Extremadura	112
Galicia	156
Madrid (Comunidad de)	204
Murcia (Región de)	100
Navarra (Comunidad Foral de)	240
País Vasco	144
Rioja (La)	72
Ceuta y Melilla (Aut cities.)	28
TOTAL	3,060

2.3. Sample selection

In order to conduct the ICT-H-2006, the selection of first stage units in each stratum has been carried out with probability proportional to the size of each section. In the second stage, dwellings have been selected by means of a systematic sample with random start and equal probabilities of selection for each dwelling in the section. This procedure provides self-weighted samples of dwellings in each stratum.

During a third stage and within each dwelling, a person is chosen with equal probability among those 15 and over.

2.4. Renewal of the sample

As of 2005, the survey will be performed every six months. Previously, it was carried out annually. In order to avoid tiring out respondent families, and to give other new families the chance of being selected, the sample is renewed partially using the rotation shifts scheme.

Therefore, the survey is a rotating panel with four rotation shifts organised in such a way that every six months dwellings are renewed from one shift. For this reason, the number of sections by autonomous community in the sample is a multiple of four, as this facilitates the appropriate distribution of sections among the four rotation shifts.

The sample of first units remains fixed although variations in the sectioning have been incorporated by using probability procedures consistent with the design of the sample.

The dwellings from the sections in rotation shift 4 were renewed during the first semester of 2006.

2.5. Estimators

The following types of estimators have been considered to estimate the survey characteristics:

- Estimator for data on households
- Estimator for data on persons aged 15 and over.
- Estimator for data on persons aged 10 to 14.

Ratio estimators will be used in all cases, balanced according to information from external sources.

(see Annex for possible explanations)

A). Estimator for data on households

So as to obtain characteristics regarding households, the survey uses an estimator obtained by means of the following steps:

A1) Expansion estimator based on the design factor with correction for non-response on a stratum level.

In each stratum h , the estimator for the total of a characteristic X is obtained by means of the following expression:

$$\hat{X}_h = \sum_{i=1}^{n_h} \sum_{j=1}^{v_{ih(e)}} c_i \frac{V_h}{v_{h(e)}} x_{hij}$$

where:

V_h : Dwellings from stratum h .

$v_{h(e)}$: Size of effective sample of dwellings in stratum h

n_h : Number of sample sections in stratum h .

c_i : Update coefficient. Value that depends on section i , representing for the sections from rotation shifts 1 and 2 the growth of the same from the selection of the sample of primary units. For the rest of the sections, including those in the País Vasco rotation shift 1, said coefficient takes the value of 1.

x_{hij} : value of the of study in dwelling j , section i .

A2) Separate ratio estimator, to adjust to the population projection in each stratum h .

$$\hat{X}_h^R = \frac{\sum_{i=1}^{n_h} \sum_{j=1}^{v_{ih(e)}} c_i x_{hij}}{\sum_{i=1}^{n_h} \sum_{j=1}^{v_{ih(e)}} c_i p_{hij}} P_h$$

where:

p_{hij} : Total sample persons (aged 15 and over) from dwelling j , section i .

P_h : Population projection in stratum h .

A3) The final estimator is obtained by applying reweighting techniques to the previous estimator, using CALMAR software.

The external source used was the information from the Economically Active Population Survey, relating to the size of the dwelling in each autonomous community (5 sizes).

B). Estimator for data on persons aged 15 and over

This estimator is obtained from information from the individual questionnaire, whose responses come from a person selected among household members aged 15 and over. The estimator is similar to that used in the case of the household but bearing in mind the existence of a factor that incorporates the probability of selection corresponding to this person.

B1) Estimator based on the design factor with correction for non-response.

$$\hat{X}_h = \sum_{i=1}^{n_h} \sum_{j=1}^{v_{h(e)}} \frac{V_h c_i p_{hij}}{v_{h(e)}} x_{hij}$$

B2) Ratio estimator to adjust the stratum population.

$$\hat{X}_h^R = \frac{\sum_{i=1}^{n_h} \sum_{j=1}^{v_{ih(e)}} c_i p_{hij} x_{hij}}{\sum_{i=1}^{n_h} \sum_{j=1}^{v_{ih(e)}} c_i p_{hij}} P_h$$

B3) Implementation of reweighting techniques by age groups and sex on an autonomous community level (CALMAR) with populations referring to 15 May 2006 obtained from the 2001 Census.

C). Estimator for data on persons aged 10 to 14

The sample information relating to all household members who are aged 10-14 is provided by the person aged 15 and or over selected in each dwelling. Therefore, the raising factors of the expansion estimator based on the design

factor coincide with those used in the estimators corresponding to household data. These are also adjusted using ratio estimators but, in this case, adjustment is made to population projections of persons aged 10-14 year old by sex in each autonomous community obtained from the 2001 census.

2.6. Sampling errors

The indirect Jackknife method is used for the calculation of sample errors of the main characteristics investigated. (*).¹

This method is based on the formation of subsamples in which each one of them is obtained by eliminating a primary unit from the total sample. The estimate of the variance of the estimator has the following expression:

$$\widehat{\text{Var}}(\hat{X}) = \sum_h \frac{(n_h - 1)}{n_h} \sum_{j \in h} (\hat{X}_{(hj)} - \hat{X})^2$$

where:

$\hat{X}_{(hj)}$ is the estimate of X when primary unit j from stratum h is removed from the sample.

\hat{X} is the estimate of X obtained with the whole sample.

n_h is the number of primary units in stratum h .

¹ (*) Using CALJACK software created by P. Lavallé from Statistics Canada

ICT-H 2006 1st WAVE. TOTAL SAMPLE ERRORS (standard errors)

Variables relating to households

Dwellings with a desktop computer	62,978.24
Dwellings with Internet access	64,455.44
Dwellings Internet access (broad band)	58,761.45

Variables relating to persons aged from 16 to 74

Have used a computer (in the last three months)	160,613.07
Frequent Internet users	164,062.08
Have purchased articles using the Internet (last 3 months)	106,624.14

Variables relating to children aged from 10 to 14

Have used a computer (in the last three months)	25,099.77
Have used the Internet (in the last three months)	24,356.76

ICTH-06 (1st WAVE)

Sample errors

Variables concerning households

Standard errors

	Households with desktop computer ICTH-06 (1st WAVE)	Households with Internet access ICTH-06 (1st WAVE)	Households with broadband Internet access ICTH06 (1st WAVE)	
	NATIONAL TOTAL	62,978.24	64,455.44	58,761.45
01	ANDALUCÍA	23,206.59	23,768.44	22,380.09
02	ARAGÓN	7,159.15	6,787.12	6,601.57
03	ASTURIAS	4,909.49	5,038.57	5,035.41
04	BALEARES	6,202.92	6,420.42	6,041.95
05	CANARIAS	14,214.06	14,503.04	13,050.01
06	CANTABRIA	3,956.86	4,051.89	3,950.52
07	CASTILLA-LEÓN	12,571.37	13,142.02	11,348.34
08	CASTILLA-LA MANCHA	11,462.13	10,963.57	9,877.70
09	CATALUÑA	29,398.18	28,891.01	27,393.02
10	COM.VALENCIANA	22,717.59	23,935.29	21,440.83
11	EXTREMADURA	6,994.19	5,565.36	4,844.92
12	GALICIA	14,274.04	15,009.66	11,908.53
13	MADRID	29,995.10	32,126.79	29,173.79
14	MURCIA	9,052.74	8,439.01	8,177.34
15	NAVARRA	3,049.20	3,082.84	2,965.24
16	PAÍS VASCO	13,159.03	13,068.43	11,122.96
17	LA RIOJA	2,369.92	2,485.09	2,206.93
18	CEUTA Y MELILLA	2,011.07	1,886.67	1,897.46

Variables concerning persons aged from 16 to 74
Standard errors

	Have used a computer (in the last three months) 2006 (1st wave)	Frequent Internet users 2006 (1st wave)	Have purchased articles using the Internet (last 3 months) 2006 (1st wave)
NATIONAL TOTAL	160,613.07	164,062.08	106,624.14
ANDALUCÍA	67,837.40	63,562.60	33,637.50
ARAGÓN	16,117.36	16,096.44	9,190.88
ASTURIAS	11,083.10	10,905.05	8,600.24
BALEARES	15,729.17	19,144.15	13,854.64
CANARIAS	44,627.12	41,340.27	20,142.59
CANTABRIA	9,631.47	10,272.88	7,071.95
CASTILLA-LEÓN	29,085.92	31,940.00	18,107.11
CASTILLA-LA MANCHA	27,601.61	24,703.47	16,416.84
CATALUÑA	69,262.02	75,818.37	53,383.79
COM.VALENCIANA	53,939.89	59,754.18	37,838.20
EXTREMADURA	18,872.91	18,673.66	8,030.70
GALICIA	36,298.87	37,566.84	19,664.42
MADRID	78,206.11	76,686.34	58,261.00
MURCIA	23,777.90	25,353.60	17,172.48
NAVARRA	7,750.46	8,248.82	5,990.84
PAÍS VASCO	26,446.95	30,823.28	18,707.71
LA RIOJA	6,021.81	6,703.97	4,599.49
CEUTA AND MELILLA	3,815.85	4,588.30	2,172.68

ICTH-06 (1ST WAVE)

Sampling errors

Variables concerning children aged between 10 and 14 years old

Standard errors

	Have used a computer (in the last three months) 2006 (1 st wave)	Have used the Internet (in the last three months) 2006 (1 st wave)
NATIONAL TOTAL	25,099.77	24,356.76
ANDALUCÍA	14,580.46	13,956.79
ARAGÓN	1,869.61	2,230.45
ASTURIAS	1,274.23	1,454.83
BALEARES	2,704.95	2,439.80
CANARIAS	6,259.59	5,547.44
CANTABRIA	1,822.05	1,880.13
CASTILLA-LEÓN	4,741.19	4,729.65
CASTILLA-LA MANCHA	4,047.74	4,620.65
CATALUÑA	9,183.14	8,080.22
COM.VALENCIANA	9,669.93	8,860.18
EXTREMADURA	2,796.40	2,902.65
GALICIA	5,971.80	4,952.17
MADRID	8,602.17	10,360.09
MURCIA	3,679.60	3,150.34
NAVARRA	884.45	983.54
PAÍS VASCO	3,425.49	3,395.02
LA RIOJA	812.69	733.86
CEUTA Y MELILLA	1,254.66	596.87

ANNEX.-

PROBABILITY OF A DWELLING BEING SELECTED

K_h = no. of sample sections in stratum h.

m =no. of dwellings in the sample in each section=8

V_h =dwellings in stratum h.

V_s =dwellings in section s.

$$P(V_{ish}) = K_{h*} \frac{V_s}{V_h} \cdot \frac{m}{V_s} = K_h \cdot \frac{m}{V_h} \text{ are self-weighted samples.}$$

When it is time to renew the corresponding rotation shift, only dwellings are renewed, not sections. As this would affect the probability of the dwelling.

In this case, the new dwelling should have the same probability as the other dwellings in the sample. To ensure this occurs, it is necessary to multiply by a coefficient that is known as a "growth coefficient."

V'_s = number of dwellings in updated section.

$$P(V_{ish}) = K_{h*} \frac{V_s}{V_h} \cdot \frac{m}{V'_s} = K_h \cdot \frac{V_s}{V_h} \cdot \frac{m \cdot V'_s / V_s}{V'_s} = K_h \cdot \frac{m}{V_h}$$

$$\text{growth coefficient} = c_i = \frac{V'_s}{V_s}$$

3. Fieldwork results

INCIDENT SUMMARY final

	Incidents concerning main dwellings											Reserves surveyed	Total surveyed	
	Total main d.S	TR	RS	TA	AS	IR	Surveyable	IN	E	OP	UD			
Albacete	2,559	2,032	132	17	124	88	43	2,436	97	22	4			2,032
		83.4%	5.4%	0.7%	5.1%	3.6%	1.8%	95.2%	3.8%	0.9%	0.2%			79.4%
Guipúzcoa	4,155	3,601	172	232	173	39	5	4,022	99	27	7			3,601
		89.5%	4.3%	0.8%	4.3%	1.0%	0.1%	96.8%	2.4%	0.6%	0.2%			86.7%
Orense	4,548	3,978	122	22	77	119	6	4,324	183	40	1			3,978
		92.0%	2.8%	0.5%	1.8%	2.8%	0.1%	95.1%	4.0%	0.9%	0.0%			87.5%
Tarragona	4,490	3,888	100	34	166	98	6	4,292	148	43	7			3,888
		90.6%	2.3%	0.8%	3.9%	2.3%	0.1%	95.6%	3.3%	1.0%	0.2%			86.6%
Total CATI	15,752	13,499	526	105	540	344	60	15,074	527	132	19			13,499
		89.6%	3.5%	0.7%	3.6%	2.3%	0.4%	95.7%	3.3%	0.8%	0.1%			85.7%
Total CAPI	11,670	7,456	1,267	47	1,002	90	56	9,918	50	1,414	102	185	2,416	9,872
		75.2%	12.8%	0.5%	10.1%	0.9%	0.6%	85.0%	0.4%	12.1%	0.9%	1.6%		84.6%
TOTAL (1)	27,422	20,955	1,793	152	1,542	434	116	24,992	577	1,546	121	185	2,416	23,371
		83.8%	7.2%	0.6%	6.2%	1.7%	0.5%	91.1%	2.1%	5.6%	0.4%	0.7%		85.2%

(1) In the total main dwellings, there are 640 dwellings added to the Navarra sample, which means a total of 631 dwellings surveyed.

These dwellings are only used by the Navarra Statistics Institute for their analysis.

Dwellings with a temporary result of NC and EI in CATI are finally considered CG=TA (total absence)

Surveyable=S+TR+RS+TA+AS+IR

As regards S, TR, RS, TA, AS and IR incidents, percentages are calculated considering the total number of surveyable dwellings. For the rest, the percentages are calculated considering the total number of dwellings with definitive incidents

For the total surveyed (main+reserves), the percentage is calculated considering the total number of initial main dwellings

4. Dissemination of the results

The statistic tables of the commented results of the survey and the methodological report will be published on the INE web site (www.ine.es) and, if applicable, in the corresponding electronic publication.

With the aim of achieving greater comparability with the data published by Eurostat, the statistical tables of the final ICT-H 2006 results refer to dwellings inhabited by at least one person aged from 16 to 74 years and to people in this same age group. In previous years, the results referred to the total number of dwellings and people aged 15 years old and above.

In tables relating to dwellings, the main magnitudes will refer to ICT equipment in the dwelling (television, computer, telephone, radio, video, etc.), as well as access and way of connecting to the Internet. As regards household members, among others, tables will be created for the use of computers, the Internet and e-mail.

These statistical variables inherent to the survey will be cross-referenced with the socio-demographic variables obtained in the same, such as the size of the household and of the municipality where it is located, sex, level of training of the persons and employment situation.