

INSTITUTO NACIONAL DE ESTADISTICA



## **Holiday Dwellings Occupancy Survey 2013**

Methodology

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## **1. Presentation**

This publication presents the results corresponding to the holiday dwellings occupancy survey.

The most important information from the survey is offered monthly, in accordance with the dissemination regulations of the Institute.

The data provided give notice of the two aspects considered when analysing tourist trends: from the demand point of view, information is offered on travellers, overnight stays and average stay distributed by country of residence in the case of travellers not resident in Spain and by Autonomous Community in the case of Spanish travellers. From the point of view of supply, data is provided on the number of tourist companies and estimated open establishments, estimated bedplaces and apartments, degrees of occupancy, as well information on employment in the sector.

This information is presented monthly on a national basis and in the autonomous communities and provinces with the highest number of overnight stays, as well as the most important tourist areas and sites.

The National Statistics Institute thanks all professionals, businesspersons and institutions related to the tourist sector, for the collaboration provided that has been essential when carrying out this survey.

## **2. Objectives**

The Holiday Dwellings Occupancy Survey's aims primarily to obtain the behaviour of a series of variables that describe the segment, which this type of accommodation occupies in the tourist sector, both from the supply as well as the demand viewpoints

### **3. Statistical unit**

This is a monthly survey, and the data refers to the activity carried out by the establishments / companies that operate holiday dwellings located in Spain.

The target population of study are all of the holiday dwelling establishments and operating companies, registered as such in the corresponding tourist councils from each Autonomous Community in agreement with the definitions of the said accommodation that feature in the different Autonomous regulations.

A tourist dwelling establishment is understood to be any productive unit whose exclusive or productive activity is to accommodate tourists, distributed in furnished units (apartments, chalets, villas, bungalows...).

A tourist dwelling (unit) is considered to be a property that is habitually rented for occasional guests.

A set of units, in turn, forms a tourist dwelling establishment. The establishment may be constituted by various blocks.

In some Autonomous Communities the analysis units are holiday dwellings operating companies. These are defined as physical or legal persons who usually deal with the letting of such apartments, whether or not they are owners of the accommodation.

#### **4. Survey scope**

All establishments and/or companies operating in the country are researched.  
With the exception of Ceuta and Melilla where there are no establishments of this type.

## **5. Definition of variables**

### **5.1 Establishments / companies of estimated open holiday dwellings**

An establishment open for the season is that establishment in which the reference month is included within its opening period.

### **5.2 Estimated number of dwellings in an establishment or company operating tourist apartments**

The estimated number of dwellings belonging to establishments or companies open during the season.

### **5.3 Estimated number of bedplaces in an establishment or company providing tourist dwellings**

The number of bedplaces estimated by the survey in establishments or companies operating dwellings open for the season.

The number of bedplaces is equal to the number of fixed beds; extra beds therefore are not included and double beds will give rise to two bedplaces.

### **5.4 Travellers checked in**

All those persons who stay one or more consecutive nights in the same accommodation.

Travellers are classified by their place of residence. In the case of Spaniards, information is requested on the Autonomous Community of origin.

### **5.5 Overnight stays or occupied bedplaces**

An overnight stay is understood to be every night that a traveller stays in the establishment. As occurs with the checking in of travellers, occupied bedplaces are broken down according to place of residence.

### **5.6 Average Stay**

This variable is an approximation of the number of days which, travellers stay on average at the holiday dwellings and is calculated as the quotient between overnight stays and the number of travellers.

### **5.7 Occupancy rate by bedplaces**

Percentage-based relation between the number of overnight stays and the number of bedplaces by the days the overnight stays refer to plus the number of supplementary beds used.

Supplementary beds are those that do not have a fixed nature and are not included in the bedplaces declared officially by the establishment but do appear in the directory.

Furniture that is fixed in the dwelling (sofa-bed, wall-bed, etc.) is only considered a supplementary bed when used as such.

Cots will also be considered supplementary beds

It can be deduced from this definition that an establishment and/or company may have a degree of occupation of less than 100% and however not have any vacancies, as an dwelling may be occupied only by a person giving rise to only one overnight stay. However, the dwelling may have a greater capacity.

### **5.8 Degree of occupation by dwelling**

Percentage-based relation between the total of occupied dwellings and the result of available dwellings times the days, which the survey refers to.

### **5.9 Level of occupation by weekend capacity**

Relationship, as a percentage, between overnight stays on Friday and Saturday that are in the reference week and the product of the bed places, including extra beds for those two days, by the days the overnight stays refer to.

#### **Level of occupancy of dwellings on weekends**

This is the relationship, as a percentage, between occupied dwellings on Friday and Saturday that are in the reference week and the product of the available holiday dwellings on the days which the occupied holiday dwellings refers to.

### **5.11 Occupied personnel**

Defined as the group of people, remunerated and not remunerated, who contribute with their work to the production of goods and services during the reference period of the survey, even when they work outside the premises.

### **5.12 Tourist site**

Municipality where the concentration of tourist amenities is significant.

### **5.13 Tourist area**

Group of municipalities where tourist inflow is specifically located. Information is presented on the areas that attract the greatest amount of tourists.

#### **Costa de Almería**

Adra, El Ejido, Roquetas de Mar, Níjar, Carboneras, Mojácar, Vera, Cuevas del Almanzora, Pulpí, Almería, Garrucha.

#### **Costa de la Luz de Cádiz**

Barbate, Conil de la Frontera, Chiclana de la Frontera, Chipiona, El Puerto Sta María, Puerto Real, Rota, San Fernando, Sanlúcar de Barrameda, Tarifa, Veger de la Frontera, Algeciras, Línea de la Concepción, San Roque, Cádiz.

#### **Costa Tropical (Granada)**



Almuñecar, Itrabo, Salobreña, Motril, Sorvilán, Gualchos, Lújar, Polopos, Albuñol.

### **Costa de la Luz de Huelva**

Ayamonte, Isla Cristina, Lepe, Punta Umbría, Palos de la Frontera, Moguer, Almonte, Cartaya.

### **Costa del Sol (Málaga)**

Manilva, Estepona, Marbella, Mijas, Fuengirola, Benalmádena, Torremolinos, Rincón de la Victoria, Vélez-Málaga, Algarrobo, Torrox, Nerja, Málaga.

### **Costa Verde (Principado de Asturias)**

Avilés, Caravia, Carreño, Castrillón, Castropol, Coaña, Colunga, Cudillero, El Franco, Gijón, Gozón, Valdés, Llanes, Muros de Nalón, Navia, Ribadedeva, Ribadesella, Soto del Barco, Tapia de Casariego, Villaviciosa

### **Mallorca**

All the municipalities in the Balearic Islands not included in Menorca or Ibiza-Formentera.

### **Menorca**

Alaior, Es Castell, Ciutadella de Menorca, Ferreries, Mahon, Es Mercadal, Es Migjorn Gran, Sant Lluís.

### **Ibiza-Formentera**

Eivissa, Formentera, San Jose, Sant Antoni de Portmany, San Joan de Labritja, Santa Eulalia del Río.

### **Gran Canaria**

Agete, Agüimes, Artenara, Arucas, Firgas, Gáldar, Ingenio, Mogán, Moya, Las Palmas de G. Canaria, San Bartolomé de Tirajana, San Nicolás de Tolentino, Santa Brígida, Santa Lucía, Santa M<sup>a</sup> de Guía de G.C., Tejada, Telde, Teror, Valsequillo de G.C., Valleseco, Vega de San Mateo.

### **Lanzarote**

Arrecife, Haría, San Bartolomé, Teguise, Tías, Tinajo, Yaiza.

## **Fuerteventura**

Antigua, Betancuria, La Oliva, Pajara, Puerto del Rosario, Tuineje.

## **Tenerife**

Adeje, Arafo, Arico, Arona, Buenavista del Norte, Candelaria, Fasnia, Garachico, Granadilla de Abona, La Guancha, Guía de Isora, Güimar, Icod de los Vinos, La Laguna, La Matanza de Acentejo, La Orotava, Puerto de la Cruz, Los Realejos, El Rosario, San Juan de la Rambla, San Miguel, Santa Cruz de Tenerife, Santa Ursula, Santiago del Teide, Sauzal, Los Silos, Tacoronte, Tanque, Tegueste, Victoria de Acentejo, Vilaflor.

## **La Gomera**

Agulo, Alajeró, Hermigua, S. Sebastián de la Gomera, Valle Gran Rey, Vallehermoso.

## **La Palma**

Barlovento, Breña Alta, Breña Baja, Fuencaliente de la Palma, Garafía, Los Llanos de Aridane, El Paso, Punta Gorda, Puntallana, San Andrés y Sauces, Santa Cruz de la Palma, Tazacorte, Tijarafe, Villa de Mazo.

## **Hierro**

Frontera, Valverde.

## **Costa Esmeralda**

Laredo

## **Barcelona (Barcelona)**

Badalona, Barcelona, Hospitalet de Llobregat, Sant Adrià de Besós, Santa Coloma de Gremenet.

## **Costa Barcelona (Barcelona)**

Alella, Arenys de Mar, Arenys de Munt, Argentona, Cabrera de Mar, Cabrils, Caldes d' Estrac, Calella, Canet de Mar, Dosrius, Malgrat de Mar, El Masnou, Mataró, Montgat, Orrius, Palafolls, Pineda de Mar, Premià de Mar, Sant Iscle de Vallalta, Sant Andreu de Llavaneres, Sant Cebrià de Vallalta, Vilassar de Dalt, Vilassar de Mar, Premià de Dalt, Sant Pol de Mar, Santa Susanna, Sant Vicenç de Montalt, Teià, Tiana, Tordera, Abrera, Avinyonet del Penedés, Begues, Les Cabanyes, Canyelles, Castelldefels, Castellet i la Gornal, Castellví de la Marca, Castellví de la Rosanes, Cervelló, Collbató, Corbera de Llobregat, Cornellá de Llobregat, Cubelles, Esparreguera, Esplugues de Llobregat, Font-rubí, Gavá,

Gelida, La Granada, Martorell, Mediona, Molins de Rei, Olérodola, Olesa de Bonesvalls, Olesa de Montserrat, Olivella, Pacs del Penedés, Pallejá, El Papiol, El Pla del Penedés, Pontons, El Prat del Llobregat, Puigdàlber, Sant Andreu de la Barca, Sant Boi de Llobregat, Sant Climent de Llobregat, Sant Cugat Sesgarrigues, Sant Esteve Sesrovires, Sant Feliú de Llobregat, Sant Joan Despí, Sant Just Desvern, Sant Llorenç d'Hortons, Sant Martí Sarroca, Sant Pere de Ribes, Sant Pere de Riudebitlles, Sant Quintí de Mediona, Sant Sadurní d' Anoia, Santa Coloma de Cervelló, Santa Fe del Penedés, Santa Margarida, Sant Vicenç dels Horts, Sitges, Subirats, Torrelavit, Torrelles de Foix, Torrelles de Llobregat, Vallirana, Viladecans, Vilobí del Penedés, Villafranca del Penedés, Vilanova i la Geltrú, La Palma de Cervelló.

### **Costa Brava (Girona)**

Agullana, Aiguaviva, Albanyá, Albons, El Far d'Empordà, Amer, Anglès, Arbúcies, L' Armentera, Avinyonet de Puigventós, Begur, La Vajol, Banyoles, Bescara, Belcaire d'Empordà, Bescanó, La Bisbal d'Empordà, Blanes, Bordils, Borrassá, Breda, Brunyola, Boadella d'Empordà, Cabanes, Cabanelles, Cadaqués, Caldes de Malavella, Calonge, Camós, Campllong, Canet d'Adri, Cantallops, Capmany, Cassá de la Selva, Castelló d'Empúries, Castell-Platja d'Aro, Celrà, Cervià de Ter, Cistella, Siurana, Colera, Colomers, Cornellà del Terri, Gorchá, Crespià, Darnius, L' Escala, Espolla, Esponella, Figueres, Foixá, Fontanilles, Fontcorbeta, Fornells de la Selva, Fortià, Garrigás, Garrigoles, Garriguella, Flaca, Girona, Gualta, Hostalric, Jafre, La Jonquera, Juiá, Lladó, Llagostera, Llambilles, Llancá, Llers, Lloret de Mar, Madremanya, Masarac, Massanes, Macanet de Cabrenys, Macanet de la Selva, Mollet de Peralada, Mont-Ras, Navata, Ordís, Osor, Palafrugell, Palamós, Palau de Santa Eulàlia, Palau-Saverdera, Palau-Sator, Palol de Revardit, Pals, Parlavá, Pau, Pedret i Marzá, La Pera, Peralada, Pont de Molins, Pontós, Porqueres, Portbou, El Port de la Selva, Quart, Rabós, Regencós, Riels i Viabrea, Riudarenes, Riudellots de la Selva, Riumors, Roses, Rupiá, Salt, Sant Andreu Salou, Sant Climent Sescebes, Sant Feliu de Buixalleu, Sant Feliu de Guixols, Sant Gregori, Sant Hilari Sacalm, Sant Jordi Desvalls, Sant Joan de Mollet, Sant Julià de Ramis, Sant Llorenç de la Muga, Sant Martí de Llémena, Sant Martí Vell, Sant Miquel de Campmajor, Sant Miquel de Fluvià, Sant Mori, Sant Pere Pescador, Santa Coloma de Farners, Santa Cristina d'Aro, Santa Llogaia d'Alguema, Sarrià de Ter, Saus, La Selva de Mar, La Celleria de Ter, Serinyà, Serra de Daró, Sils, Susqueda, La Tallada d'Empordà, Terrades, Torrent, Torroella de Fluvià, Torroella de Montgrí, Tossa de Mar, Ultramort, Ullà, Ullastret, Vall-Llobrega, Ventalló, Verges, Vidreres, Vilabertran, Vilablareix, Viladasens, Viladamat, Vilademuls, Vilafant, Vilaur, Vilajuiga, Vilamacolum, Vilamalla, Vilamaniscle, Vilanant, Vila-Sacra, Vilopriu, Vilobí d'Onyar, Biure, Cruilles, Forallac, Sant Julià del Llor.

### **Costa Daurada (Tarragona)**

Aiguamúrcia, Albinyana, L'Albiol, Alcover, L'Aleixar, Alforja, Alió, Almoher, Altafulla, Arbolí, L'Arboç, L'Argentera, Banyeres del Penedés, Barberá de la Conca, Bellmunt del Priorat, Bellvei, La Bisbal de Falset, La Bisbal del Penedés, Blancafort, Bonastre, Les Borges del Camp, Botarell, Bràfim, Cabacés, Cabra del Camp, Calafell, Cambrils, Capafonts, Capçanes, Castellvell del Camp, El Catllar,

Colldejou, Conesa, Constantí, Cornudella de Montsant, Creixell, Cunit, Duesaigües, L'Espluga de Francolí, Falset, La Febró, La Figuera, Figuerola del Camp, Forés, Els Garidells, Gratallops, Els Guiamets, El Lloar, Llorac, Llorenç del Penedés, Margalef, Marça, Masllorenç, La Masó, Maspujols, El Masroig, El Milá, El Molar, Montblanc, Montbrió del Camp, Montferri, El Montmell, Mont-ral, Mont-roig del Camp, El Morell, La Morera de Montsant, La Nou de Gaià, Nulles, Els Pallaresos, Passanant i Belltall, Perafort, Les Piles, Pira, El Pla de Santa Maria, La Pobla de Mafumet, La Pobla de Montornés, Poboleda, El Pont d'Armentera, Porrera, Pradell de la Teixeta, Prades, Pratdip, Puigpelat, Querol, Renal, Reus, La Riba, La Riera de Gaià, Riudecanyes, Riudecols, Riudoms, Rocafort de Queralt, Roda de Barà, Rodonyà, El Rourell, Salomó, Sant Jaume dels Domenys, Santa Coloma de Queralt, Santa Oliva, Pontils, Sarra, Savallà del Comtat, La Secuita, La Selva del Camp, Senan, Solivella, Tarragona, La Torre de Fontaubella, Torredembarra, Torroja del Priorat, Ulldemolins, Vallclara, Vallfogona de Riucorb, Vallmoll, Valls, Vandellòs i L'Hospitalet de L'Infant, El Vendrell, Vespella de Gaià, Vilabella, Vilallonga del Camp, Vilanova d'Escornabou, Vilanova de Prades, Vilaplana, Vila-rodona, Vila-seca, Vilaverd, La Viella Alta, La Viella Baixa, Vimbodí i Poblet, Vinilos i els Arcs, Salou, La Canonja.

### **Terres de l'Ebre (Tarragona)**

Alcanar, Aldover, Alfara de Carles, l'Ametlla de Mar, Amposta, Arnes, Ascó, Batea, Benifallet, Benissanet, Bot, Caseres, La Sénia, Corbera d'Ebre, Xerta, La Fatarella, Flix, Freginals, La Galera, Gandesa, Garcia, Ginestar, Godall, Horta de Sant Joan, Mas de Barberans, Masdenverge, Miravet, Móra d'Ebre, Móra la Nova, La Palma d'Ebre, Paüls, El Perelló, El Pinell de Brai, La Pobla de Massaluca, Prat de Comte, Rasquera, Riba-roja d'Ebre, Roquetes, Sant Carles de la Ràpita, Santa Bàrbara, Tivenys, Tivissa, La Torre de l'Espanyol, Tortosa, Uldecona, Vilalba dels Arcs, Vinebre, Deltebre, Sant Jaume d'Enveja, Camarles, L'Aldea, L'Ampolla.

### **Terres de Lleida (Lleida)**

Àger, Agramunt, Els Alamús, L'Albagés, Albatarrac, Albesa, L'Albi, Alcanó, Alcarràs, Alcoletge, Alfarràs, Alfés, Algerri, Alguair, Almacelles, Almatret, Almenar, Alós de Balaguer, Alpícat, Anglesola, Arbeka, Artesa de Lleida, Artesa de Segre, La Sentiu de Sió, Aspa, Les Avellanès i Santa Linya, Aitona, Balaguer, Barbens, La Baronia de Rialb, Belianes, Bellcaire d'Urgel, Bell-lloc d'Urgel, Bellmunt d'Urgel, Bellpuig, Bellví, Benavent de Segrià, Biosca, Bovera, Les Borges Blanques, Cabanabona, Camarasa, Castelldans, Castellnou de Seana, Castelló de Farfanya, Castellserà, Cervera, Cervià de les Garrigues, Ciutadilla, El Cogul, Corbins, Cubells, L'Espluga Calba, Estaràs, La Floresta, Fondarella, Foradada, La Fuliola, Fullea, Golmés, La Granadella, La Granja d'Escarp, Granyanella, Grayena de Segarra, Grayena de les Garrigues, Quimera, Guissona, Ivars de Noguera, Ivars d'Urgell, Ivorra, Juncosa, Juneda, Lleida, Linyola, Llardecans, Maldà, Massalcoreig, Massoteres, Maials, Menàrguens, Miralcamp, Mollerussa, Montgai, Montoliu de Segarra, Montoliu de Lleida, Montornés de Segarra, Nalec, Oliola, Les Oluges, Els Omellons, Els Omells de na Gaia, Os de Balaguer, Ossó de Sió, El Palau de Anglesola, Penelles, El Poal, La Pobla de Cérvoles, Bellaguarda, Ponts, La Portella, Preixana, Preixens, Puiggrós, Puigverd d'Agramunt, Puigverd de Lleida, Roselló, Sanaüja, Sant Guim de Freixenet, Sant Ramon, Sant Guim de la Plana, Sarroca de Lleida, Serós, Sidamon, El Soleràs, Soses, Sudanell, Sunyer, Talavera, Tàrraga, Tarrés, Tarroja de Segarra, Térmens, Tiurana, Torà, Els Torms, Tornabous, Torrebesses, Torrefarrera, Torregrossa,

Torrelameu, Torres de Segre, Torre-serona, Vallbona de les Monges, Vallfogona de Balaguer, Verdú, Vilagrassa, Vilanova de Bellpuig, Vilanova de l'Aguda, Vilanova de Meià, Vilanova de Segrià, Vila-sana, El Vilosell, Vilanova de la Barca, Vinaixa, Sant Martí de Riucorb, Ribera d'Ondara, Torrefeta i Florejacs, Els Plans de Sió, Gimènells i el Pla de la Font.

### **Catalunya Central**

Aguilar de Segarra, Alpens, L'Ametlla del Vallés, Argençola, Artés, Avinyó, Aiguafreda, Balenyà, Balsareny, Bellprat, Bigues i Riells, El Bruc, El Brull, Cabrera d'Anoia, Calaf, Caldes de Montbui, Calders, Calonge de Segarra, Calldetenes, Callús, Campins, Canovelles, Cànoves i Samalús, Capellades, Cardedeu, Cardona, Carme, Castellar del Vallés, Castellbell i el Vila, Castellbisbal, Castellcir, Castellfollit del Boix, Castellfollit de Riubregós, Castellgali, Castelnou de Bages, Castellolí, Castellterçó, Centelles, Collsuspina, Copons, L'Estany, Fogars de Montclús, Folgueroles, Fonollosa, Les Franqueses del Vallés, Gallifa, La Garriga, Gaià, Granera, Granollers, Gualba, Sant Salvador de Guardiola, Gurb, Igualada, Jorba, La Llacuna, La Llagosta, Llinars del Vallés, Lliçà d'Amunt, Lliçà de Val, Yuca, Malla, Manlleu, Manresa, Martorelles, Les Masies de Roda, Les Masies de Voltregà, Masquefa, Matadepera, Mollet del Vallés, Montcada i Reixac, Monistrol de Montserrat, Monistrol de Calders, Muntanyola, Montesquiu, Montmaneu, Figaró-Montmany, Montmeló, Montornés del Vallés, Montseny, Moià, Mura, Navarces, Navàs, Ódena, Olost, Orís, Oristà, Orpí, Palau-Solità i Plegamans, Paret del Vallés, Perafita, Piera, Els Hospitalets de Pierola, La Pobla de Claramunt, Polinyà, Els Prats de Rei, Prats de Lluçanès, Pujalt, Rajadell, Rellinars, Ripollet, La Roca del Vallés, El Pont de Vilomara i Rocafort, Roda de Ter, Rubí, Rubió, Sabadell, Sant Pere Sallavinera, Sallent, Santpedor, Sant Agustí de Lluçanès, Sant Antoni de Vilamajor, Sant Bartomeu del Grau, Sant Boi de Lluçanès, Sant Celon, Sant Cugat del Vallés, Sant Esteve de Palautordera, Sant Fost de Campsentelles, Sant Feliu de Codines, Sant Feliu Sasserra, Sant Fruitós de Bages, Sant Hipòlit de Voltregà, Sant Joan de Vilatorrada, Sant Julià de Vilatorrada, Sant Llorenç Savall, Sant Martí de Centelles, Sant Martí d'Albars, Sant Martí de Tous, Sant Martí Sesgueioles, Sant Mateu de Bages, Sant Pere de Torello, Sant Pere de Vilamajo, Sant Quirze de Besora, Sant Quirze del Vallés, Sant Quirze Safaja, Sant Sadurn d'Osormor, Marganel, Santa Cecília de Voltrega, Santa Eugènia, de Berga, Santa Eulàlia de Riuprime, Santa Eulàlia de Ronçana, Santa Margarida de Montbui, Barberà del Vallés, Santa Maria de Besora, Santa Maria de Corco, Santa Maria demartorelles, Santa Maria de Miralles, Santa Maria d'Olot, Santa Maria de Palautordera, Santa Perpètua de Mogoda, Sant Vicenç de Castelle, Sant Vicenç de Torelló, Cerdanyola del Vallés, Sentmenat, Seva, Sobremunt, Sora, Súria, Tavérnoles, Tagamanent, talamanca, Taradell, Terrassa, Tàrrad, Tona, Torelló, La Torre de Claramunt, Ullastrell, Vacarisses, Vallbona d'Anoia, Vallgorguina, Vallromanes, Veciana, Vic, Viladecavalls, Vilanova del Cam, Vilanova de Sau, Vilalba Sasserra, Rupit i Pruit, Vilanova del Vallés, Badia del Vallés, Espinelves, Vidrà, Viladrau.

### **Costa Blanca (Alicante)**

Benissa, Benidorm, Alfaz del Pí, Altea, Calpe, El Campello, Denia, Elche, Finestrat, Guardamar del Segura, Orihuela, Pilar de la Horadada, Poble Nou de Benitatxel, Poblets els, Santa Pola, Teulada, Torrevieja, Villajoyosa, Javea, Alicante.

### **Costa de Castellón (Castellón)**

Vinaroz, Benicarló, Peñíscola, Alcalá de Chivert, Torreblanca, Oropesa del Mar, Benicàssim, Castellón de la Plana, Almassora, Burriana, Nules, Moncófa, Chilches, Almenara, Cabanes y La Llosa.

### **Costa Valencia (Valencia)**

Albalat dels Sorells, Alboraya, Albuixech, Bellreguard, Canet d'En Berenguer, Daimús, Guardamar, Massalfassar, Massamagrell, Meliana, Miramar, Puçol, Puig, Sagunto, Sueca La Pobla de Farnals, Cullera, Tavernes de la Valldigna, Gandía, Piles, Oliva, Xeraco.

### **Rías Altas (A Coruña)**

Mañón, Ortigueira, Cariño, Cedeira, Valdoviño, Ferrol, Mugargos, Ares, Cabanas, Pontedeume, Miño, Bergondo, Sada, Oleiros, A Coruña

### **Costa A Mariña Lucense (Lugo)**

O Vicedo, Viveiro, Xove, Cervo, Burela, Foz, Barreiros, Ribadeo.

### **Rías Baixas (Pontevedra y A Coruña)**

Muros, Outes, Noia, Porto do Son, Ribeira, Pobra do Caramiñal, Boiro, Rianxo, Vilagarcía de Arousa, Vilanova de Arousa, Cambados, Ribadumia, Meaño, O Grove, Sanxenxo, Poio, Pontevedra, Marín, Bueu, Cangas, Moaña, Vilaboa, Soutomaior, Redondela, Vigo, Migran, Baiona, Oia, O Rosal, A Guarda.

### **Costa Cálida (Murcia)**

Águilas, Los Alcázares, Cartagena, Mazarrón, San Javier, San Pedro del Pinatar, La Unión.

### **Aragón Pyrenees**

Abiego, Abizanda, Adahuesca, Agüero, Aisa, Alquézar, Ansó, Aragüés del Puerto, Arén, Arguis, Azanuy-Alins, Baélls, Bailo, Baldellou, Bárcabo, Benabarre, Benasque, Bielsa, Bierge, Biescas, Bisaurri, Boltaña, Bonansa, Borau, Broto, Caldearenas, Campo, Camporrélls, Canal de Berdún, Canfranc, Capella, Casbas de Huesca, Castejón de Sos, Castiello de Jaca, Castigaleu, Castillonroy, Colungo, Chía, Estopiñán del Castillo, Fago, Fanlo, Fiscal, Foradada del Toscar, La Fueva, Gistaín, El Grado, Graus, Hoz de Jaca, Isábena, Jaca, Jasa, Labuerda, Lascuarre, Laspaúles, Laspuña, Monesma y Cajigar, Montanuy, Naval, Nueno, Olvena, Palo, Panticosa, Las Peñas de Riglos, Peralta de Calasanz, Perarrúa, Plan, La Puebla de Castro, Puente de Montañana, Puértolas, El Pueyo de Araguás, Sabiñánigo, Sahún, Salas Altas, Sallent de Gállego, San Juan de Plan, Santa Cilia de Jaca, Santa Cruz de la Serós, Santaliestra y San Quílez, Secastilla, Seira, Sesué,

Sopeira, Tella-Sin, Tolva, Torla, Torre la Ribera, Valle de Bardají, Valle de Lierp, Veracruz, Viacamp y Litera, Villanova, Villanúa, Yebra de Basa, Yésero, Valle de Hecho, Puente la Reina de Jaca, Santa María de Dulcis, Aínsa-Sobrarbe, Hoz y Costean, Artieda, Asín, Bagüés, El Frago, Isuerre, Lobera de Onsella, Longás, Luesia, Mianos, Murillo de Gállego, Navardún, Orés, Los Pintanos, Salvatierra de Esca, Santa Eulalia de Gállego, Sigüés, Sos del Rey Católico, Uncastillo, Undués de Lerda, Urriés, Biel-Fuencalderas.

## **Pirineus**

Avià, Bagà, Berga, Borredà, Capolat, Caserres, Castellar del Riu, Castellar de n'Hug, Castell de l'Areny, L' Espunyola, Fígols, Gironella, Gisclareny, Guardiola de Berguedà, Montclar, Montmajor, La Nou de Berguedà, Olvan, La Pobla de Lillet, Puig-reig, La Quar, Sagàs, Saldes, Sant Jaume de Frontanyà, Santa Maria de Merlès, Cercs, Vallcebre, Vilada, Viver i Serrateix, Sant Julià de Cerdanyola, Alp, Argelaguer, Besalú, Beuda, Bolvir, Campdevàdol, Campelles, Camprodon, Queralbs, Castellfollit de la Roca, Das, Fontanals de Cerdanya, Ger, Gombrèn, Guils de Cerdanya, Isòvol, Llanars, Llivia, Les Llosses, Maià de Montcal, Meranges, Mieres, Molló, Montagut i Oix, Ogassa, Olot, Pardines, Les Planes d'Hostoles, Planoles, Les Preses, Puigcerdà, Ribes de Freser, Ripoll, Riudaura, Sales de Llierca, Sant Feliu de Pallerols, Sant Ferriol, Sant Jaume de Llierca, Sant Joan de les Abadesses, Vallfogona de Ripollès, Sant Pau de Segúries, Sant Aniol de Finestres, Santa Pau, Sant Joan les Fonts, Setcases, Tortellà, Toses, Urús, La Vall d'en Bas, La Vall de Bianya, Vilallonga de Ter, Abella de la Conca, Ager, Alàs i Cerc, Alins, Alt Aneu, El Pont de Bar, Arsèguel, Baix Pallars, La Vall de Boí, Bassella, Bellver de Cerdanya, Cabó, Castellar de la Ribera, Cava, Clariana de Cardener, Coll de Nargó, Espot, Esterri d'Aneu, Esterri de Cardós, Estamariu, Farrera, Gavet de la Conca, Gósol, Guixers, Isona i Conca Dellà, Lladorre, Lladurs, Llavorsí, Lles de Cerdanya, Llimiana, Llobera, La Molsosa, Montellà i Martinet, Montferrer i Castellbò, Navès, Odèn, Oliana, Oliu, Organyà, Conca de Dalt, La Coma i la Pedra, Peramola, Pinell de Solsonès, Pinós, La Pobla de Segur, El Pont de Suert, Prats i Sansor, Prullans, Rialp, Ribera d'Urgellet, Riner, Salàs de Pallars, Sant Llorenç de Morunys, Sant Esteve de la Sarga, Sarroca de Bellera, Senterada, La Seu d'Urgell, Solsona, Soriguera, Sort, Talarn, Tírvia, La Torre de Cabdella, Tremp, Les Valls de Valira, Vilaller, Vall de Cardós, La Guingueta i Jou, Castell de Mur, Les Valls d'Aguilar, Fígols i Alinyà, La Vansa i Fórnols, Josa i Tuixén, Riu de Cerdanya.

## **Val d'Aran**

Naut Aran, Arres, Arsguel, Bausen, Es Bòrdes, Bossòst, Canejan, Les, Vielha e Mijaran, Vilamòs.

## **Pirineo Navarro**

Abárzuza, Abaurregaina/Abaurrea Alta, Abaurrepea/Abaurrea Baja, Adiós, Aibar, Altsasu/Alsasua, Allín, Améscoa Baja, Anue, Añorbe, Aoiz/Agoitz, Araitx, Aranarache, Arantza, Arano, Arakil, Arbizu, Arce, Areso, Aria, Aribes, Arruazu, Artazu, Atez, Bakaiku, Barásoain, Basaburua, Baztan, Belascoáin, Bertizarana, Betelu, Biurrún-Olcoz, Auritz/Burguete, Burgui, Cáseda, Castillonuevo, Ziordia, Cirauqui, Ciriza, Donamaria, Etxalar, Echarri, Etxarri-Aranatz, Elgorriaga, Enériz, Eratsun, Ergoiena, Erro, Ezcároz, Eslava, Esparza de Salazar, Esteribar, Eulate, Ezkurra, Ezprogui, Gallipienzo, Gallués, Garaioa, Garde, Garinoain, Garralda,

Goizueta, Goñi, Güesa, Guesálaz, Guirguillano, Uharte-Arakil, Ibargoiti, Imotz, Irañeta, Isaba, Ituren, Iturmendi, Izagaondoa, Izalzu, Jaurrieta, Javier, Juslapeña, Beintza-Labaien, Lakuntza, Lana, Lantz, Larraona, Larraun, Leache, Legarda, Leitza, Leoz, Lerga, Lesaka, Lezáun, Liédena, Lizoáin, Lónguida, Lumbier, Mañeru, Metauten, Monreal, Muruzábal, Navascués, Obanos, Ochagavía, Odieta, Oitz, Olazti/Olazagutía, Olóriz, Olo, Orbaitzeta, Orbara, Orísoain, Oronz, Oroz-Betelu, Petilla de Aragón, Puente la Reina/Gares, Pueyo, Romanzado, Roncal, Orreaga/Roncesvalles, Sada, Saldías, Salinas de Oro, Sangüesa, San Martín de Unx, Doneztebe/Santesteban, Sarriés, Sunbilla, Tiebas-Muruarte de Reta, Tirapu, Ucar, Ujué, Ultzama, Unciti, Unzué, Urdazubi/Urdaiz, Urdiain, Urraul Alto, Urraul Bajo, Urroz, Urrotz, Urzainqui, Uterga, Uztároz, Luzaide/Valcarlos, Bera/Vera de Bidasoa, Vidángoz, Vidaurreta, Hiriberri/Villanueva de Aezkoa, Igantzi, Yerri, Yesa, Zabalza, Zubieta, Zugarramurdi, Urbasa-Andía, Lekunberri.



## 6. Survey framework and sample design

As the framework for the selection of the informant units, the survey uses the directories of the Tourist Offices of the Autonomous Communities, which include, among other data, the following information: name, address, normal opening period, number of bedplaces, number of holiday dwellings and category in some cases.

The sample is stratified by province-size, except in Canarias and Baleares where sample is performed considering island-size.

In Illes Balears, Alicante, Castellón, Girona, Murcia, Tarragona and Valencia two samples are selected throughout the year: one for the period between April and October (both inclusive) and another exhaustive sample for the rest.

The survey is exhaustive, except for some sizes, for the following provinces:

### 1.- Selection by Province-Size:

Provinces	1 (1-25)	2 (26-99)	3 (100 and over)
Albacete (02)	S	S	S
Alicante/Alacant (03)	1/5(sum); 3/10 (wint)	2/5	S
Almería (04)	1/2	S	S
Ávila (05)	2/3	S	S
Barcelona (08)	1/2	S	S
Cáceres (10)	1/2	S	S
Cádiz (11)	1/2	S	S
Castellón/Castelló (12)	1/3 (sum); 2/3 (wint)	2/3; E (wint)	S
Cuenca (16)	2/5	S	S
Girona (17)	1/5 (sum); 2/5 (inv)	1/2 (sum); E (wint)	S
Granada (18)	2/5	S	S
Guadalajara (19)	1/2	S	S
Huesca (22)	1/3	S	S
Jaén (23)	2/3	S	S
Lleida (25)	2/3	S	S
Rioja, La (26)	2/3	S	S
Madrid, Comunidad de(28)	1/2	S	S
Málaga (29)	1/4	1/2	S
Murcia, Región de (30)	1/2 (sum); 2/3 (wint)	S	S
Navarra, Comunidad Foral de (31)	1/3	S	S
Asturias, Principado de (33)	3/10	S	S
Pontevedra (36)	2/3	S	S
Cantabria (39)	2/5	S	S
Segovia (40)	1/2	S	S

Sevilla(41)	2/3	S	S
Tarragona (43)	1/3 (sum); 2/3	2/3(sum); S	S
Teruel (44)	(wint)	S	S
Valencia/València (46)	1/2	S	S
	1/3 (sum); 1/2		
	(wint)		

## 2.- Selection by Province-Island-Size:

Provinces	Islands	Size			
		1	2	3	
Tenerife (38)	Santa Cruz de Tenerife (1)	1/2	1/2	S	
	La Palma (2)	2/3	S	S	
	La Gomera (3)	1/2	S	-	
	El Hierro (4)	S	-	-	
Las Palmas de Gran Canarias (35)	Gran Canaria (1)	1/5	1/3	S	
	Lanzarote (2)	1/4	1/2	S	
	Fuerteventura (3)	1/2	2/3	S	
Illes Balears* (07)	Mallorca (1)	1/5	S	1/2	S
	Menorca (2)	1/4	S	1/2	S
	Ibiza-Formentera (3)	1/5	S	1/2	S

\*(The first column refers to summer months and the second to winter months)

## 7. Estimators

The formulas of the estimators are described taking into account the information that will be received with XML files. The number of establishments that send each month the information requested in the survey questionnaire through this pathway is, in principle, indeterminate, so if you do not receive an XML file, the formulas match the originals.

XML files are generated directly in the systems management establishment and validation following a scheme published by the INE. This file provides detailed information of visitors and nights spent every day of the reference month, broken down by the traveler's residence (NUTS III, in the case of travelers resident in Spain, and country, in the case of non-residents).

### VARIABLES USED

E= number of establishments and/or companies open during the month that exist in the directory

e= no. of establishments and/or companies answering the survey via the usual method

e''= no. of establishments and/or companies answering the survey by sending the XML file

c= no. of establishments and/or companies that are closed the whole month

dm = number of days the establishment has been open during the reference month (only for those sending the XML file)

D = number of days of the reference month (28, 29, 30 or 31)

D<sup>fs</sup> = no. of Fridays and Saturdays in the reference month

P= number of bedplaces according to directory

P'= number of bedplaces according to the survey

V = number of travellers checked in

d= no. of days in the reference fortnight (14, 15 or 16). Only for those responding to the survey via the usual method

d<sup>fs</sup> = no. of Fridays and Saturdays in the reference fortnight. Only for those responding to the survey via the usual method

N = number of occupied bedplaces or overnight stays

N'= no. of overnight stays in supplementary beds

EM= average stay

T = occupied personnel

A= number of holiday dwellings according to the directory

A'= no. of holiday dwellings according to the survey

B= number of holiday dwellings occupied

GP = occupancy rate by bedplace

GA= occupancy rate by holiday dwelling

#### SUBINDICES USED

i= operating establishment/company

j:= Geographical region Zone, Province)

k= size (1, 2 and 3)

m = modality (place of residence, professional situation,...)

a= dwelling modality

#### A. Estimate of the no. of establishments open in the reference month

$$\hat{E}_{jk} = E_{jk} \cdot \frac{\left( e_{jk} + \sum_{i=1}^{e_{jk}''} \frac{dm_{ijk}}{D} \right)}{\left( e_{jk} + e_{jk}'' \right) + c_{jk}}$$

#### B. Estimate of the no. of bedplaces in establishments and/or companies open during the month

$$\hat{P}_{jk} = \sum_{i=1}^{E_{jk}} P_{ijk} \cdot \frac{\sum_{i=1}^{e_{jk}} P'_{ijk} + \sum_{i=1}^{e_{jk}''} P'_{ijk} \cdot \frac{dm_{ijk}}{D}}{\left( \sum_{i=1}^{e_{jk}} P_{ijk} + \sum_{i=1}^{e_{jk}''} P_{ijk} \right) + \sum_{i=1}^{c_{jk}} P_{ijk}}$$

#### 1. Estimate of No. of travellers checked in during the month

$$\hat{V}_{jkm} = \left[ \sum_{i=1}^{e_{jk}} V_{ijkm} \cdot \frac{D}{d_{ijk}} + \sum_{i=1}^{e_{jk}''} V_{ijkm} \right] \cdot \left[ \frac{\hat{P}_{jk}}{\sum_{i=1}^{e_{jk}} P'_{ijk} + \sum_{i=1}^{e_{jk}''} P'_{ijk} \cdot \frac{dm_{ijk}}{D}} \right] = \left[ \sum_{i=1}^{e_{jk}} V_{ijkm} \cdot \frac{D}{d_{ijk}} + \sum_{i=1}^{e_{jk}''} V_{ijkm} \right] \cdot \rho_{jk}$$

where m = place of residence

Estimate of occupied bedplaces or overnight stays

$$\hat{N}_{jkm} = \left[ \sum_{i=1}^{e_{jk}} N_{ijkm} \cdot \frac{D}{d_{ijk}} + \sum_{i=1}^{e_{jk}''} N_{ijkm} \right] \cdot \left[ \frac{\hat{P}_{jk}}{\sum_{i=1}^{e_{jk}} P'_{ijk} + \sum_{i=1}^{e_{jk}''} P'_{ijk} \cdot \frac{dm_{ijk}}{D}} \right] = \left[ \sum_{i=1}^{e_{jk}} N_{ijkm} \cdot \frac{D}{d_{ijk}} + \sum_{i=1}^{e_{jk}''} N_{ijkm} \right] \cdot \rho_{jk}$$

where m = place of residence

#### C. Estimate of occupied bed places

$$\hat{N}'_{jk} = \left[ \sum_{i=1}^{e_{jk}} N'_{ijk} \cdot \frac{D}{d_{ijk}} + \sum_{i=1}^{e''_{jk}} N'_{ijk} \right] \cdot \left[ \frac{\hat{P}_{jk}}{\sum_{i=1}^{e_{jk}} P'_{ijk} + \sum_{i=1}^{e''_{jk}} P'_{ijk} \cdot \frac{dm_{ijk}}{D}} \right] = \left[ \sum_{i=1}^{e_{jk}} N'_{ijk} \cdot \frac{D}{d_{ijk}} + \sum_{i=1}^{e''_{jk}} N'_{ijk} \right] \cdot \rho_{jk}$$

#### D. Estimate of the average stay

$$\text{- by size: } \widehat{EM}_{jk} = \frac{\sum_m \hat{N}_{jkm}}{\sum_m \hat{V}_{jkm}}$$

$$\text{- Country of residence: } \widehat{EM}_{jm} = \frac{\sum_k \hat{N}_{jkm}}{\sum_k \hat{V}_{jkm}}$$

Estimate of the no. of bedplaces occupied at the weekend

$$\hat{N}^{fs}_{jk} = \sum_m \left( \sum_{i=1}^{e_{jk}} N^{fs}_{ijkm} \cdot \frac{D^{fs}}{d^{fs}_{ijk}} + \sum_{i=1}^{e''_{jk}} N^{fs}_{ijkm} \right) \cdot \rho_{jk}$$

Estimate of the no. of supplementary beds occupied at the weekend

$$\hat{N}'^{fs}_{jk} = \sum_m \left( \sum_{i=1}^{e_{jk}} N'^{fs}_{ijkm} \cdot \frac{D^{fs}}{d^{fs}_{ijk}} + \sum_{i=1}^{e''_{jk}} N'^{fs}_{ijkm} \right) \cdot \rho_{jk}$$

Estimate of employed personnel

$$\hat{T}_{jkm} = \left( \sum_{i=1}^{e_{jk}} T_{ijkm} + \sum_{i=1}^{e''_{jk}} T_{ijkm} \right) \cdot \rho_{jk}$$

where m = professional status

#### E. Estimate of the no. of holiday dwellings existing in open establishments/companies

$$\hat{A}_{jk} = \sum_{i=1}^{E_{jk}} A_{ijk} \cdot \frac{\sum_{i=1}^{e_{jk}} A'_{ijk} + \sum_{i=1}^{e''_{jk}} A'_{ijk} \cdot \frac{dm_{ijk}}{D}}{\left( \sum_{i=1}^{e_{jk}} A_{ijk} + \sum_{i=1}^{e''_{jk}} A_{ijk} \right) + \sum_{i=1}^{c_{jk}} A_{ijk}}$$

F. Estimate of the no. of holiday dwellings occupied

$$\hat{B}_{jka} = \left[ \sum_{i=1}^{e_{jk}} B_{ijka} \cdot \frac{D}{d_{ijk}} + \sum_{i=1}^{e''_{jk}} B_{ijka} \right] \cdot \frac{\hat{A}_{jk}}{\sum_{i=1}^{e_{jk}} A'_{ijk} + \sum_{i=1}^{e''_{jk}} A'_{ijk} \cdot \frac{dm_{ijk}}{D}}$$

$$\hat{B}_{jk} = \sum_{a=1}^4 \hat{B}_{jka} \quad \hat{B}_j = \sum_{k=1}^3 \hat{B}_{jk}$$

Estimate of the no. of holiday dwellings occupied at the weekend

$$\hat{B}_{jka}^{fs} = \left[ \sum_{i=1}^{e_{jk}^{fs}} B_{ijka}^{fs} \cdot \frac{D^{fs}}{d_{ijk}^{fs}} + \sum_{i=1}^{e''_{jk}^{fs}} B_{ijka}^{fs} \right] \cdot \frac{\hat{A}_{jk}}{\sum_{i=1}^{e_{jk}^{fs}} A'_{ijk} + \sum_{i=1}^{e''_{jk}^{fs}} A'_{ijk} \cdot \frac{dm_{ijk}}{D}}$$

Estimate of the occupancy rate by bedplaces

$$G\hat{P}_{jk} = \frac{\hat{N}_{jk}}{D \cdot \hat{P}_{jk} + \hat{N}'_{jk}} \cdot 100 \quad G\hat{P}_j = \frac{\sum_k G\hat{P}_{jk} \cdot \hat{P}_{jk}}{\sum_k \hat{P}_{jk}}$$

Estimate of the occupancy rate by holiday dwelling

$$G\hat{A}_{jk} = \frac{\hat{B}_{jk}}{D \cdot \hat{A}_{jk}} \cdot 100 \quad G\hat{A}_j = \frac{\sum_k G\hat{A}_{jk} \cdot \hat{A}_{jk}}{\sum_k \hat{A}_{jk}}$$

Estimate of the occupancy rate by bedplaces at weekends

$$G\hat{P}_{jk}^{fs} = \frac{\hat{N}_{jk}^{fs}}{D^{fs} \cdot \hat{P}_{jk} + \hat{N}'_{jk}^{fs}} \cdot 100 \quad G\hat{P}_j^{fs} = \frac{\sum_k G\hat{P}_{jk}^{fs} \cdot \hat{P}_{jk}}{\sum_k \hat{P}_{jk}}$$

Level of occupancy of holiday dwellings at weekends

$$G\hat{A}_{jk}^{fs} = \frac{\hat{B}_{jk}^{fs}}{D^{fs} \cdot \hat{A}_{jk}} \cdot 100 \quad G\hat{A}_j^{fs} = \frac{\sum_k G\hat{A}_{jk}^{fs} \cdot \hat{A}_{jk}}{\sum_k \hat{A}_{jk}}$$

## **8. Information collection**

The query for basic data refers to a fortnight a month, chosen randomly, in such a way that the whole month is covered between all establishments and/or companies.

Information is provided monthly by holiday dwelling establishments or operating companies, using a questionnaire, to the National Statistics Institute. Likewise, it is possible to submit the information telematically or by uploading an XML file or over an Internet connection by means of the ARCE system, by completing the questionnaire directly on-screen.

## **9. Dissemination of the information**

The information is presented on different levels of geographical breakdown: national, Autonomous Community, provincial, tourist area and tourist site. The areas (groups of municipalities) have been considered, as well as the municipalities in which tourist affluence is specifically located.



## 10. Variation coefficients

Computation of the sampling errors of the following monthly variables:

$$\hat{V}_{jk} \quad ; \quad \hat{N}_{jk} \quad .$$

Where:

- a) Travellers checked in (V for the fortnight questionnaire and XML)
- b) Occupied bedplaces (Overnight stays) (N for the fortnightly questionnaire and XML)

Where  $\hat{Y}_{jkm}$  is the estimator of any of these variables (see Stimulation file). Estimate of the relative sampling error (%) will be computed every month as follows:

$$\hat{E}(\hat{Y}) = \frac{\sqrt{\hat{V}_{ar}(\hat{Y})}}{\hat{Y}} \cdot 100; \quad \hat{E}(\hat{Y}_j) = \frac{\sqrt{\hat{V}_{ar}(\hat{Y}_j)}}{\hat{Y}_j} \cdot 100; \quad \hat{E}(\hat{Y}_{jk}) = \frac{\sqrt{\hat{V}_{ar}(\hat{Y}_{jk})}}{\hat{Y}_{jk}} \cdot 100$$

To estimate the travellers' variation coefficients and total overnight stays. To compute the residents and non-residents coefficients it will be used:

$$\hat{E}(\hat{Y}_m) = \frac{\sqrt{\hat{V}_{ar}(\hat{Y}_m)}}{\hat{Y}_m} \cdot 100 \quad \text{being } m=\text{modality (residents or non-residents)}$$

**where:**

$$\hat{V}_{ar}(\hat{Y}) = \sum_j \hat{V}_{ar}(\hat{Y}_j); \quad \hat{V}_{ar}(\hat{Y}_j) = \sum_k \hat{V}_{ar}(\hat{Y}_{jk}); \quad \hat{V}_{ar}(\hat{Y}_{jk}) = \sum_m \hat{V}_{ar}(\hat{Y}_{jkm})$$

$$\hat{V}_{ar}(\hat{Y}_m) = \sum_j \sum_k \hat{V}_{ar}(\hat{Y}_{jkm})$$

**and  $\hat{V}_{ar}(\hat{Y}_{jkm})$  will be computed as follows:**

## Estimators with fortnightly information and XML

**For Y = V (travellers) or N (overnight stays)**

$$\hat{V}_{ar} \left( \hat{Y}_{jkm} \right) = (1 - f_{jk}) \cdot \frac{e_{jk} + e_{jk}''}{(e_{jk} + e_{jk}'') - 1} \cdot \frac{\hat{P}_{jk}^2}{\left( \sum_{i=1}^{e_{jk}} P_{ijk} + \sum_{i=1}^{e_{jk}''} P_{ijk} \cdot \frac{dm}{D} \right)^2} \cdot \sum_s \left( Y_{ijkm} - \hat{R}_{jkm} P_{ijk} \right)^2$$

where

$$f_{jk} = \frac{e_{jk} + e_{jk}'' + c_{jk}}{E_{jk}}$$

and  $s = e + e''$ , so:

$$Y_{ijkm} = \begin{cases} Y_{ijkm} & \text{if } i \in e'' \\ Y_{ijkm} \cdot \frac{D}{d} & \text{if } i \in e \end{cases}$$

$$\hat{R}_{jkm} = \frac{\sum_{i=1}^{e_{jk}} Y_{ijkm} \cdot \frac{D}{d} + \sum_{i=1}^{e_{jk}''} Y_{ijkm}}{\sum_{i=1}^{e_{jk}} P_{ijk} + \sum_{i=1}^{e_{jk}''} P_{ijk}}$$

## **11. Secrecy and statistical significance**

### **STATISTICAL SECRECY REGULATIONS**

It may be provided information related to all those strata (or data geographical groups) where the number of establishments with incidence 1 (open with movement) is equal to or greater than 3.

### **RECOMMENDATIONS OF STATISTICAL SIGNIFICANCE**

Results of the main estimated variables by the surveys are statistically significant if the following conditions are fulfilled within the domain of which the information is provided:

There must be, at least, 4 establishments in the sample with incidences 1 (with data) or 2 (without movement), of which 3 of them have incidence 1.

## 12. Linking coefficients

The methodological changes or extraordinary updates of the directories used in the framework of the survey imply that the data published introducing said changes is not directly comparable with the previously published data.

In order to avoid this break in the series, and allow for comparability, linking coefficients are calculated to be applied to the published data before introducing the improvements.

### Linking coefficients

Given the strong seasonal nature of these series, we have decided to obtain different linking coefficients for each month, thus maintaining the interannual variation rates of the series, although the same does not apply to the inter-monthly rates.

For each month, the linking coefficient for a variable  $X$  is obtained as the quotient between the estimated value of said variable in said month of year T, considering all of the available information (methodological changes and/or improvements in the directory) and the estimated value in the same month without considering the innovations.

$$CX_{i,T} = \frac{X_{i,T}^{conmejoras}}{X_{i,T}^{sin mejoras}}$$

where:

$i = 1 \dots 12$  months

$X_{i,T}^{conmejoras}$  = Estimated value of variable  $X$  in month  $i$  of year T, using all of the information available.

$X_{i,T}^{sin mejoras}$  = Estimated value of variable  $X$  in month  $i$  of year T without considering the innovations.

### Linked series

The series that are linked and comparable with the data published are calculated by multiplying the published series (prior to the date on which the improvements are introduced) by the linking coefficient of the corresponding month.

$$X_{i,T-j}^{enlazada} = X_{i,T-j}^{pub} \times CX_{i,T}$$

where:

$i = 1..12$  months

$X_{i,T-j}^{pub}$  = Published estimated value of variable  $X$  in month  $i$  of year  $T - j$

(where  $j \succ 0$ )

$CX_{i,T}$  = Linking coefficient for variable  $X$  in month  $i$

Given that the linking coefficients are calculated independently for each geographical breakdown, each category or each nationality, the linked series lose their additivity.