



INSTITUTO NACIONAL DE ESTADÍSTICA



SPPI: Short Term Accommodation

Mrs. María Velasco Gimeno

National Statistics Institute (Spain)

*34th Voorburg Group Meeting
Paris, 1st October 2019*



Index

1. Relevance of tourism in Spain
2. Description of accommodation sector
3. SPPI for accommodation sector
4. HPI Methodology
5. Integration in SPPI system

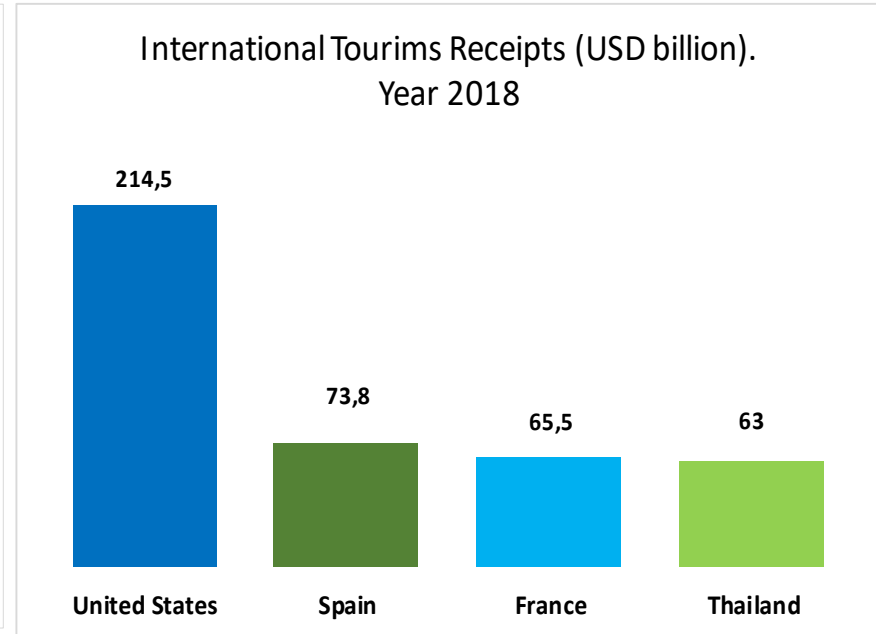
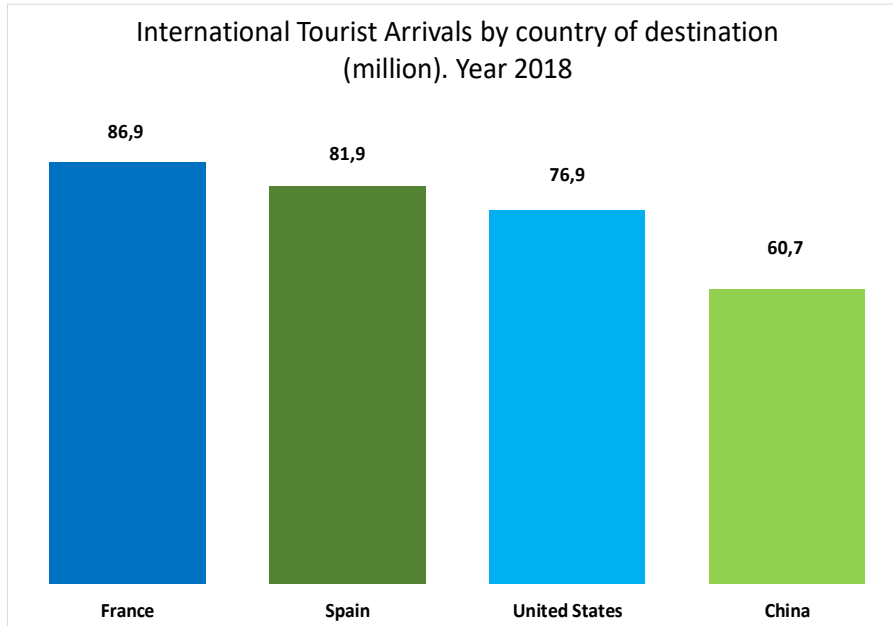


Index

1. Relevance of tourism in Spain
2. Description of accommodation sector
3. SPPI for accommodation sector
4. HPI Methodology
5. Integration in SPPI system



1.1 UNWTO data

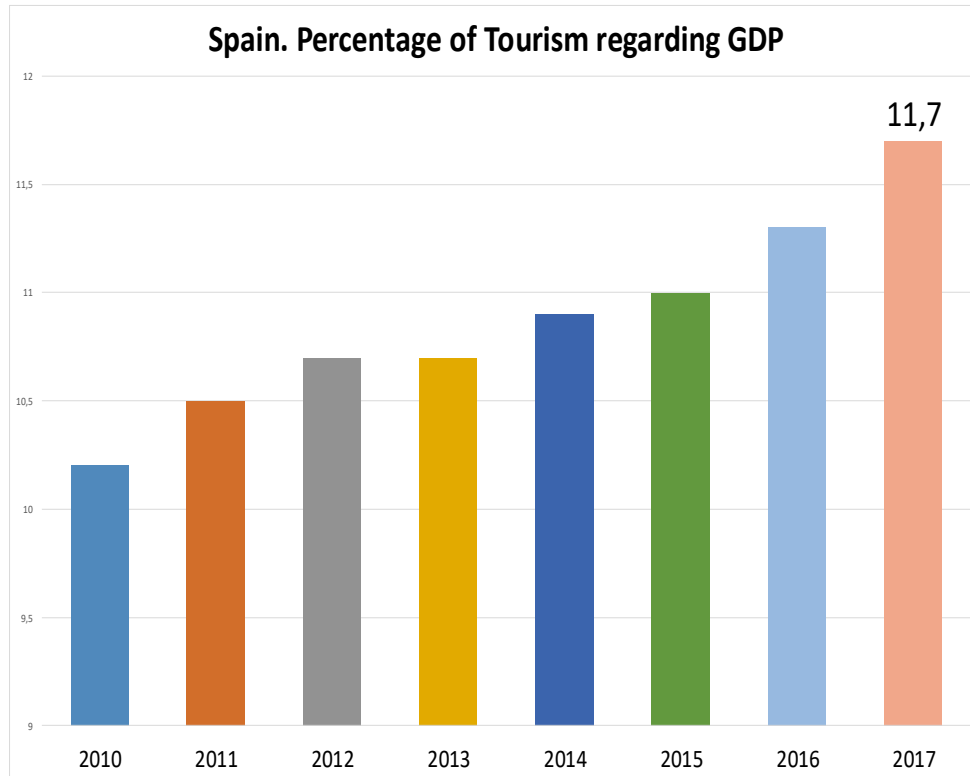


Source: UNWTO barometer September 2019

Spain, 2nd position in terms of international arrivals and receipts



1.2 Tourism Satellite Account (TSA)

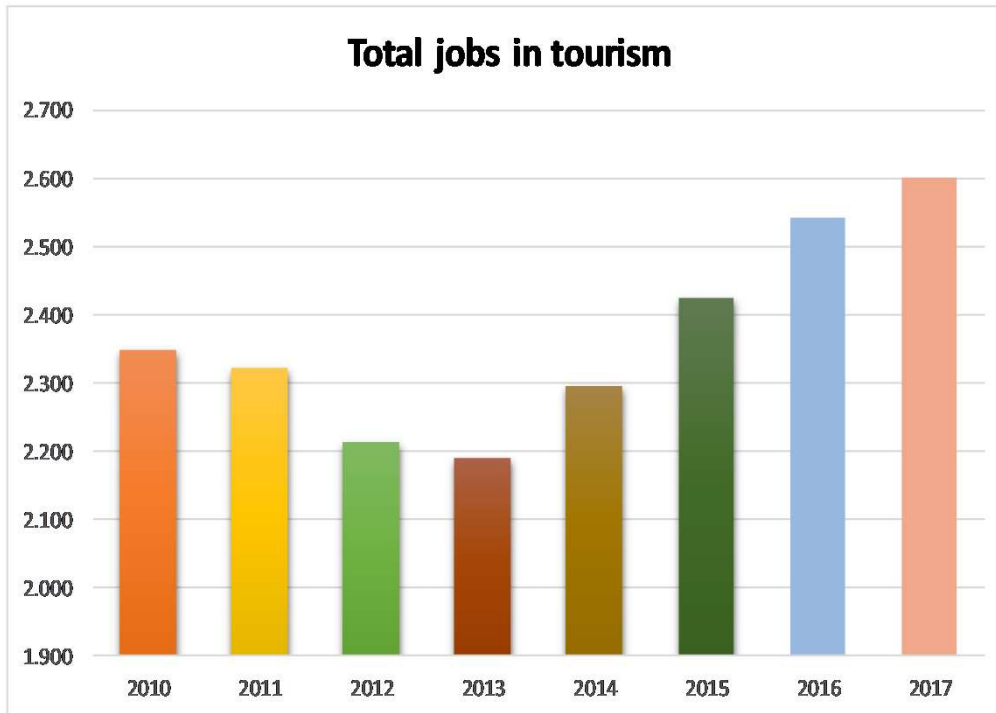


Source: TSA. NSI Spain

The contribution of tourism reached 137,020 million euros in 2017, representing **11.7%** of **GDP**



1.3 Employment in tourism



Industry branches concerning tourism generated 2.60 million jobs, 12.8% of total employment.



Index

1. Relevance of tourism in Spain
2. **Description of accommodation sector**
3. SPPI for accommodation sector
4. HPI Methodology
5. Integration in SPPI system



2.1 Main economic variables

- Net turnover of the 551(ISIC) industry represents around 4.7% of total turnover and employment of service sector
- The growth rates for those three main variables of this activity comparing with Service Sector are higher.

Activity	Number of companies			Net turnover			Employed persons		
	2016	2017	growth rate %	2016	2017	growth rate %	2016	2017	growth rate %
Service Sector	1.546.525	1.550.969	0,29	471.049.893	503.942.693	6,98	6.015.289	6.282.096	4,44
551 Hotels and similar establishments	12.676	12.619	-0,45	19.438.535	21.347.375	9,82	237.137	256.450	8,14
552 Holiday and other short-stay accommodation	11.523	12.408	7,68	2.045.440	2.455.865	20,07	34.209	38.114	11,42
551+552 (=551 ISIC)	24.199	25.027	3,42	21.483.975	23.803.240	10,80	271.346	294.564	8,56

Source: Structural Business Statistics (INE)

2.2 Turnover by services provided

TOTAL	100,0
Rooms (only accommodation)	60,8
Board (breakfast, half board and full board)	22,9
Catering (except board)	10,8
Meeting and conference rooms	1,1
Dance clubs and discoteques	0,3
Sports facilities and health treatments	1,2
Retail trade	0,6
Telecommunications	0,5
Others	1,8

Source: Structural Business Statistics (INE)

83.7% of turnover is linked to accommodation and boards, with a clear domain of the first service.



2.3 Turnover by type of client

TOTAL	100,0
Households	23,4
Domestic tour operators	14,2
Non-domestic tour operators	39,3
Domestic travel agencies	8,9
Non-domestic travel agencies	7,5
Others	6,6

Source: Structural Business Statistics (INE)

76.6% of turnover were generated by non-households clients.

At least, 46.8%, by non-domestic clients.



2.4 Relevance of Hotels and similar establishments

	2017	2018
551 NACE Rev2		
Guests	103.804.067	105.290.343
Overnightstays	340.582.712	340.052.655
552 NACE Rev2		
Guests	16.712.090	16.547.957
Overnightstays	89.182.225	84.904.660

Source: Tourist Accommodation Occupancy Surveys (INE)

According NACE Rev2 and analyzing the flows of guests and overnight stays, ‘hotels and similar establishments’ important domain over the rest of ‘short-stay accommodation establishments’



Index

1. Relevance of tourism in Spain
2. Description of accommodation sector
3. **SPPI for accommodation sector**
4. HPI Methodology
5. Integration in SPPI system



3.1 List of SPPI for accommodation sector in Spain

Producer Price Indices for Accommodation Sector:

- Hotel Price Index (HPI)
- Holiday Dwelling Price Index (HDPI)
- Camping Price Index (CaPI)
- Rural Tourism Accommodation Price Index (RTPI)



3.2 SPPI for accommodation sector in Spain

HPI since 1999

Why???

- No european nor national regulation
- But relevance of tourism in Spanish economy
- Needs of information of tourism sector
- CPI, not a good indicator



Index

1. Relevance of tourism in Spain
2. Description of accommodation sector
3. SPPI fro accommodation sector
4. **HPI Methodology**
5. Integration in SPPI system

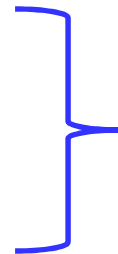


4.1 Definition

HPI

Statistical measure of the monthly development of a set of prices applied by **hotel entrepreneurs** to their **clients**

- Supply point of view
- All type of clients



Main differences from CPI



4.2 HPI-CPI, different objectives

- **CPI**

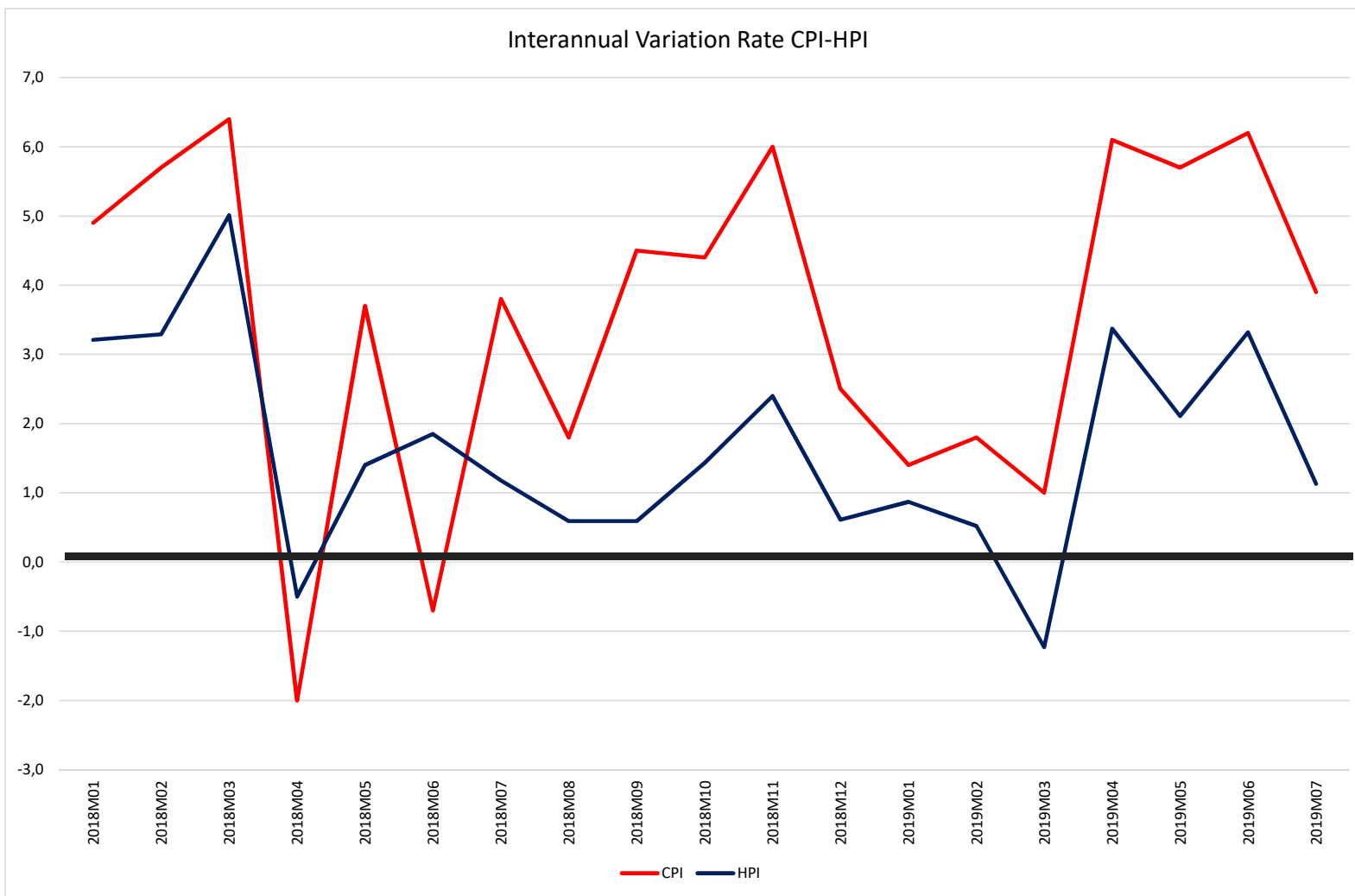
to measure the evolution of prices of good and services (*accommodation services*) paid by resident households in Spain

- **HPI**

to measure the evolution of prices received by entrepreneurs, taking into account all type of clients (households and enterprises, resident and non resident in Spain)



4.3 HPI-CPI



4.3 Collection of data

- Hotel Occupancy Survey
Prices are collected using a specific question include in the questionnaire of this monthly survey
- Statistical unit: accommodation service in a double room with bathroom (other services and taxes are excluded)
- ADR (Average Daily Rate)
- Base 2008



4.4 Questionnaire

6. Average Daily Rate (ADR) for each type of customer (in euros, VAT not included)

Indicate the ADR (Average Daily Rate) for each type of customer per day, only including accommodation –without breakfast, half-board or full board- for a **double room with bathroom** (irrespective of its use). Gross ADR is requested, that is to say, including discount and commissions but excluding VAT.

Also indicate the **approximate number of rooms occupied by each type of guest** as a percentage of the total occupied rooms -the same as in section 4.3- in the reference week. (This percentage may be zero in some cases).

	ADR in Euros	% ²
Traditional tour operator _____	_____	_____
Traditional travel agents ¹ (including hotel vouchers) _____	_____	_____
Companies _____	_____	_____
Individuals (including weekday rate and weekend rate) _____	_____	_____
Groups _____	_____	_____
Direct booking through the hotel website and/or the hotel chain _____	_____	_____
Online tour operator _____	_____	_____
Online travel agents _____	_____	_____
Other _____	_____	_____
		100 %²

¹Guests who have handed in **hotel vouchers** in compensation for the services provided should be included in this category.

²This percentage will be zero if there have been no rooms occupied during the reference week.



4.5 HPI calculation method

Linked Laspeyres Index

$${}_{m(08)}I_{jkt}^{m(09)} = \frac{\bar{M}_{jkt}^{m(09)}}{\bar{M}_{jkt}^{m(08)}} \cdot 100$$

$\frac{\text{average price of client t, category k province j in month m of 2009}}{\text{average price of client t, category k province j in month m of 2008}} \cdot 100$

$${}_{m(08)}HPI^{m(09)} = \sum_j \left(\sum_k \left(\sum_t {}_{m(08)}I_{jkt}^{m(09)} \cdot {}_{m(08)}W_{jkt} \right) {}_{m(08)}W_{jk} \right) {}_{m(08)}W_j$$



4.6 Weightings

$${}^{m(08)}L_{jkt} = \frac{\bar{M}_{jkt}^{m(08)} \cdot \hat{B}_{jkt}^{m(08)}}{\sum_{j,k,t} \bar{M}_{jkt}^{m(08)} \cdot \hat{B}_{jkt}^{m(08)}}$$

the estimation of occupied rooms of establishments of category k in province j that were sold to type of client t in month m of year 2008

$${}^{m(08)}W_{jkt} = \frac{\bar{M}_{jkt}^{m(08)} \cdot \hat{B}_{jkt}^{m(08)}}{\sum_t \bar{M}_{jkt}^{m(08)} \cdot \hat{B}_{jkt}^{m(08)}}$$

$${}^{m(08)}W_{jk} = \frac{\sum_t \bar{M}_{jkt}^{m(08)} \cdot \hat{B}_{jkt}^{m(08)}}{\sum_{k,t} \bar{M}_{jkt}^{m(08)} \cdot \hat{B}_{jkt}^{m(08)}}$$

$${}^{m(08)}W_j = \frac{\sum_{k,t} \bar{M}_{jkt}^{m(08)} \cdot \hat{B}_{jkt}^{m(08)}}{\sum_{j,k,t} \bar{M}_{jkt}^{m(08)} \cdot \hat{B}_{jkt}^{m(08)}}$$



4.7 General expression of HPI

General expression of the index and weightings

$${}_{m(08)}HPI_k^{mT} = 100 \cdot \prod_{b=2009}^T \frac{{}_{m(b-1)}HPI_k^{mb}}{100}$$

$${}_{m(T-1)}L_{jkt} = \frac{\bar{M}_{jkt}^{m(T-1)} \cdot \hat{B}_{jkt}^{m(T-1)}}{\sum_{j,k,t} \bar{M}_{jkt}^{m(T-1)} \cdot \hat{B}_{jkt}^{m(T-1)}}$$



4.8 Monthly weightings by category

By months

	January	February	March	April	May	June	July	August	September	October	November	December
Total	100,00	100,00	100,00	100,00	100,00	100,00	100,00	100,00	100,00	100,00	100,00	100,00
HOTELS: Gold stars												
Five	16,82	15,63	14,53	14,52	12,89	11,91	11,25	10,42	11,59	13,53	15,11	15,54
Fourth	55,55	56,47	56,31	55,56	54,09	52,89	52,09	51,81	53,35	55,22	55,86	54,99
Three	17,75	17,99	19,45	19,87	23,14	25,09	25,88	26,35	24,77	21,52	18,15	18,46
Two	4,10	3,91	4,10	4,12	4,17	4,42	4,79	5,09	4,51	4,20	4,59	4,51
One	1,42	1,70	1,47	1,54	1,50	1,55	1,63	1,88	1,56	1,30	1,66	1,66
HOSTALS: Silver stars												
Three and two	2,49	2,53	2,35	2,51	2,34	2,23	2,48	2,42	2,26	2,35	2,50	2,79
One	1,88	1,79	1,79	1,88	1,87	1,91	1,89	2,03	1,95	1,89	2,13	2,06

Note: The weightings of the less significant strata have been grouped into other strata



4.8 Monthly weightings by regions

	By months											
	January	February	March	April	May	June	July	August	September	October	November	December
Total	100,00	100,00	100,00	100,00	100,00	100,00	100,00	100,00	100,00	100,00	100,00	100,00
Andalucía	11,70	12,76	15,24	16,84	15,74	14,76	15,09	16,60	15,62	15,74	12,80	12,52
Aragón	1,84	1,96	1,68	1,27	1,02	0,91	0,89	1,08	0,99	1,19	1,36	1,55
Asturias, Principado de	0,56	0,58	0,81	0,73	0,72	0,70	0,95	1,39	0,90	0,72	0,77	0,80
Balears, Illes	1,65	3,09	5,90	11,10	22,07	28,00	29,14	28,35	26,52	17,03	2,61	2,19
Canarias	40,10	34,42	29,77	21,15	15,25	13,28	12,43	12,41	14,07	19,20	31,56	34,88
Cantabria	0,39	0,41	0,58	0,65	0,56	0,62	0,94	1,24	0,75	0,62	0,52	0,50
Castilla y León	2,03	1,92	2,17	2,11	1,88	1,60	1,44	1,57	1,70	2,11	2,56	2,44
Castilla - La Mancha	1,02	1,11	1,08	1,10	0,86	0,71	0,57	0,56	0,70	0,97	1,29	1,20
Cataluña	14,75	17,56	16,97	19,09	19,12	18,92	19,34	18,80	18,22	17,91	16,70	15,93
Comunitat Valenciana	6,53	7,13	8,02	7,93	6,98	7,41	7,81	7,97	7,31	7,04	7,73	7,52
Extremadura	0,53	0,60	0,72	0,78	0,58	0,43	0,38	0,41	0,44	0,60	0,76	0,78
Galicia	1,51	1,51	1,71	1,81	1,71	1,69	2,07	2,60	1,92	1,95	2,06	1,86
Madrid, Comunidad de	13,73	13,11	11,14	11,21	9,43	7,60	5,49	3,57	7,21	10,93	14,39	13,69
Murcia, Región de	0,87	0,98	1,02	0,91	0,72	0,65	0,69	0,66	0,68	0,71	0,93	0,74
Navarra, Comunidad Foral	0,48	0,49	0,60	0,59	0,59	0,44	0,48	0,44	0,48	0,57	0,73	0,61
País Vasco	1,92	1,99	2,19	2,33	2,43	1,99	2,06	2,11	2,19	2,36	2,75	2,32
Rioja, La	0,26	0,29	0,31	0,31	0,27	0,21	0,18	0,19	0,25	0,28	0,38	0,34
Ceuta	0,06	0,05	0,04	0,04	0,03	0,03	0,03	0,03	0,03	0,03	0,06	0,07
Melilla	0,07	0,07	0,06	0,06	0,04	0,04	0,03	0,03	0,04	0,05	0,07	0,08

Note: The weightings of the less significant provinces have been grouped into other provinces.

4.9 Publication of HPI

- M+23 days
- Standard set of information:
 - Indices and annual growth rates
 - At national and regional level
 - By hotel categories
- Available in the website www.ine.es



4.9 Publication of HPI

1. National General Index and breakdown by Autonomous Cities and Communities

	Index	Annual growth rate
TOTAL	121,38	1,13
Andalucía	111,04	0,15
Aragón	63,41	1,85
Asturias, Principado de	98,68	-0,12
Balears, Illes	152,11	1,78
Canarias	127,71	0,90
Cantabria	105,68	5,60
Castilla y León	95,77	-0,07
Castilla - La Mancha	91,13	2,92
Cataluña	118,12	1,54
Comunitat Valenciana	116,01	-1,54
Extremadura	98,43	2,42
Galicia	102,91	2,05
Madrid, Comunidad de	90,38	1,46
Murcia, Región de	89,99	-0,30
Navarra, Comunidad Foral de	95,46	7,45
País Vasco	123,60	2,03
Rioja, La	88,74	2,46
Ceuta	112,20	0,74
Melilla	101,00	1,14

2. National General Index and breakdown by categories

	Index	Annual growth rate
TOTAL	121,38	1,13
HOTELS: Gold stars		
Five	109,18	-0,65
Fourth	116,42	1,10
Three	133,15	1,79
Two	121,75	2,63
One	126,27	1,00
HOSTALS: Silver stars		
Three and two	125,63	1,58
One	120,56	-1,08

HPI, July 2019



Index

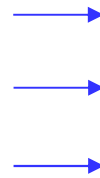
1. Relevance of tourism in Spain
2. Description of accommodation sector
3. SPPI fro accommodation sector
4. HPI Methodology
5. Integration in SPPI system



5.1 Integration in SPPI system

HPI

- . Monthly
- . Base 2008
- . Chained to the same month of the previous year



SPPI

- . Quarterly
- . Base 2015
- . Chained to the 4Q of the previous year



**Thank you very much
for your attention**

maria.velasco.gimeno@ine.es

