ITALY

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Pilot survey of the HORECA and T.A. sector The Italian case.

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HORECA and T.A. sector businesses Hotels in Italy

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Pilot survey in the HORECA and T.A. sector. The Italian case.

1 - Introduction

The plan of activities carried out by the National Institute of Statistics in the area of tourism has recently included many more initiatives. Among these, an important project has been the sample survey of tourist accommodation aimed at gathering information on the structure and the economic activioty of the hotels and travel agencies in 1992.

The survey, developed in the E.C. context, came about as a result of the Council Decision of the European Community 92/306/EEC of 18th June 1992 which provided for a series of actions to be undertaken for the improvement and broadening of services statistics. The fulfillment of this goal was subordinated to the carrying out of pilot surveys aimed at gathering statistical data on businesses in the sector and veryfing the Methodological Manual on Service Enterprices containing definitions, classifications and variables to be observed, and frames of reference as a back up for field research. In the wide and complex services the main subsectors, within which statistical knowleedgesholud be the veloped according to agreed upon standards, were identified. Among these, the HORECA and T.A. subsector assumes a particular importance as it constitutes a cognitive starting point for quantitative analysis on tourism industry. Infact, it includes the following economic activities: the HOtels, which, in their various forms, play a fondamental role in the accommodation or boarding for tourists; the REstaurants and CAfeterias which, partly basing their activity on tourist demand, see to distribution of meals, drinks and other kinds of refreshment; the Travel Agencies and tour operators and other tourist agencies whose function is the retail brokerage for the tourist demand.

2 - The E.U. pilot survey

The principal aim of the pilot survey is to provide preliminary information on the hotel and travel agency sector and to prepare the back ground for regular data gathering on the basis of concepts and definitions contained in the Methodological Manual of Statistics on Service Enterprises. Furthermore, it is foreseen that we will be able to estimate the feasibility of certain information requests (particularly from small businesses) and to give some suggestions about the use of international classifications. E.U. and Efta countries, except Iceland, Switzerland and Lichtenstein, approved of the survey.

Generally speaking, the pilot surveys represent an operative step towards the cognitive goal of the two years program of activities, proposed by the Concil Decision, which is that of observing several variables able to measure the structure and to quantify the main economic components typical of the activity of enterprises operating in the services field.

In particular, following main variables are part of such information:

- identification of the enterprise
- age of the enterprise

- legal form of enterprise
- number of local units belonging to the enterprise
- turnover
- breakdown of turnover by the specific type of the activity in question
- purchases of goods and services
- stocks at the beginning and at the end of the financial year
- labour cost, of which:
 gross wages and salaries
 social security contributions
- value of tangible and intangible investments
- number of employees at the end of each three-month period, divided into:

non wage and salary earners employees (permanent and temporary) full-time and part-time

- high-season and low-season medium prices
- capacity (in terms of number of rooms and bed places)
- ownership of premises
- period of activity (in days)
- secondary activity.
- cooperation with other enterprises

In order to harmonize the analysis of survey results among the different observed countries Eurostat arranged a uniform set of tables to be filled in the sphere of hotel businesses, distinguishing between hotels with and without restaurant, and in the sphere of travel agencies, between travel agencies and tour operators.

The survey turned out to be completely new for many countries, expecially for the Travel Agencies observation. At the end of 1993 every country taking part to the pilot project started the data gathering phase, with the exception of Belgium, Finland and Norway which didn't send any information on survey. Some difficulties were encountered in determining the specific universe, above all in Great Britain, Greece, and Denmark. The sources from which the universe was extracted were rather heterogeneous among the various Countries, insofar as they include company files, annual reports of Chambers of Commerce and Business Registers; furthermore, the variety of the classifications and of the information which may be gathered in these archives is considerable and they are not always compatible with the NACE/Rev.1.

The Methodological Manual on Services Enterprises emphsises the enterprises as the chief unit of survey; still the different territorial features which characterise tourist activity in Europe drived to model a particular questionnaire for local units too, with the aim to analyse their productivity processes and to supply regional data. In practice, the availability of updated and complete universe data strongly affects the choose between enterprises and local units.

Generally speaking, the survey was carried out in sample form for Hotels and T.A. with certain exceptions: it surveys only hotels in Spain and only T.A.'s in Sweden, Germany and Luxembourg; Germany and Luxembourg provide exaustuive surveys. By contrast, in Ireland, all the T.A. were interviewed while a sample was used for hotels. Answering questionnaires is statutory in all States except Great Britain, Denmark and Germany, where - it goes without saying - a rather low rate of response is expected.

The mean quota of the theoretical sample with regard to the universe is ca. 20%: we have a range from the 100% of T.A. surveyed in Germany and Luxembourg, to the 8% of Hotels surveyed in Spain. The majority of European Countries sampled quotas of businesses ranging from 14% to 21% of the universe, while Denmark sampled 42% of enterprises.

The percentages of responses are not always forecasted and the estimates are in any case rather varied: the most reliable, as things stand, appear to be those supplied by Greece and Ireland (56% for hotels and 65% for T.A.).

3 - The survey on hotels in Italy

3.1 - Survey units

The survey unit adopted is the hotel which provides lodging to guests exclusively or principally, perhaps connected with a secondary activity such as, for example, a bar or restaurant for the provision of meals and drinks, a retail outlet for the sale of various goods, or an agency for the organization of tours, excursions, visits and various bookings for shows or other events for the hotel's clients.

The decision to concentrate the survey on single hotels and thus to structure the sample on the basis of local units operating within the national territory instead of on the basis of the universe of enterprises, was arrived for two reasons: the first, of methodological nature, concerns the need to design a sample capable of giving estimates at regional level, given the considerable interest of public and private organizations working locally (the coincidence between the site of the entrprise and the site of the local unit is not always ensured at regional level in the case of multi-site businesses); the second, of practical nature, concerns the opportunity of using an updated list of hotels containing basic data for stratification of the reference universe according to size factors which better characterized the structure of phenomenon.

The recourse to the local unit or single establishment as survey unit caused some problems during the data collection phase. In fact, if the content of the information requested from each hotel facilitated filling out the questionnaire with regard to typology, accommodation capacity and, generally speaking, to all data relative to the sctrucural characteristics of the single establishement, on the other hand, created difficulties with regard to all economic data (turnover, income, investments, costs, etc.) requested from the local units belonging to a multi-site enterprise because they have not independent accounting. Furthermore, the same company, depositary of balance sheet data, sometimes is not able to separate the economic aggregate any category for the single local unit wich belongs to it.

3.2 - The universe of reference and business archives

The hotel supply in Italy is fragmented and concentrated in those geographical areas in which tourist attraction is higher. The system of accommodation facilities is prevalently composed of a good number of small concerns, comprising few rooms and essential accessory services, under family management and generally open on a seasonal basis. Nevertheless the current trend in the

sector reflects a process of structural change with marginal and less competitive businesses leaving the market, being unable to sustain competition with larger and better organized companies. The approach of the survey oriented towards single functioning units, and not towards the enterprise, was not significantly disadvantageous in terms of results obtained. In fact, the existence of a high number of single site businesses greatly reduced the disadvantages of the approach for the single establishment and not for the enterprices, and has confirmed the plan created to carry out the survey.

The list of businesses to be interviewed was taken from the ENIT (Italian Tourist Board) Yearbook on hotels, considered proper for the provision of initial data for this survey. In fact, this source provides both the private data (name and address) necessary to identify the hotels to be interviewed and indicative data (number of bed places, category and municipality) considered essential to quantify the field being considered. Moreover, with the aim of highlighting the typology of the municipality where the businesses are located and varying degrees of attractiveness in terms of tourism of the locality in question, some site categories were selected (chief town of province or region, seaside municipality, highland municipality and other municipalities of tourist interest). Such analisis, in fact, has been considered an important factor in the evaluation of different performances of tourist industry.

This archive, not drawn up to respond to statistical needs but rather to respond to the information needs of tourists, has given more detailed information on the individual establishement for correct planning of sampling but it has excluded the possibility of satisfying one of the primary goals of the E.U. survey, which was to test the applicability of the NACE rev.1 classification for survey on enterprises. In fact, for the hotel sector, the classification of economic activities foresees two separate classes: hotels with restaurant (code. 55.11) and hotels without restaurant (code 55.12).

For such purpose Istat could have used the results of the last seventh Census of Economic Activities organized definitions and classifications compatible with international standards and ensuring comparison with other statistical systems in the E.U. area. Unfortunately, when the survey was planned, the census files were not available. Furthermore this register source could have provided an updated list of existing units - subdivided by economic activity, primary and secondary - as well as useful details on the number of employees or the class of turnover which indeed might have been considered during the planning of the sampling activities.

3.3 - The sample.

This survey involved 5,026 hotels (14.2% of the total). The size of the sample has been augmented in order to solve the problem of non-respondents, estimated as 30-50% of theoretical sample, due to foreseeable circummstances (unit not found, refusal to collaborate, seasonal closing, etc.).

Due to heterogeneity of the phenomenon at territorial level and the institutional assessments, which involve local public agencies in tourism activities, the sample of hotels chosen for the survey was planned to provide estimates concerning hotels activity which would apply on both nationally and regionally. For this reason, the variable "region" - a basic discriminant within the general context in tourism and accommodation supply - constitutes a starting point for stratification of the field of observation (20 regions).

According to the different degree of attraction that the various localites exert in terms of tourist flow, four types of tourist localizations relating to the geographic distribution of hotels, have been definited:

chief town of province or region seaside municipality mountain municipality other.

A further element of stratification included in the sampling plan was accommodation capacity of hotels (bed spaces), generally related to the variable of category or number of stars, on the basis of which the hotels were divided into two groups (more than or less than a given level determined by number of bedspaces, calculated individually for each region).

For units belonging to the first group (high accommodation capacity hotels), defined as "self-representative", an exaustive survey of all units was carried out. With regard to selection criteria for sample units belonging to the second group (low accommodation capacity hotels), defined "non-self-representative", a stratification procedure was applied according to the class of bed-space numbers.

3.4- The informative content of the survey. The questionnaire

The survey was carried out in order to gather information on the features of the accommodation system and the economic outcome of productive activity, to assess these fields in terms of those aspects which are most typical of it, and to examine the interrelations between the observed variables. The Italian questionnaire although adapted for national reality was top a great extent based on the model put forward by EUROSTAT.

The questionnaire has been divided into two separate parts: the first is of general nature and concerns register status of the enterprise and other informations as, for instance, the number of units belonging to the enterprise and its position with regard to the national and international market.

The second part of the questionnaire regards exclusively the local unit, its main carachteristics and its activity.

The information concerns the following items:

typology of hotel and accommodation capacity. Here the main aspect concerning the physical features and size of the production unit: the classification in terms of quality level or the number and kinds of secondary activities carried out; accommodation capacity, in terms of number of bedrooms (double or single, with or without bathroom) and available bed spaces, and size of premises (built and open-air surface areas).

facilities, form of cooperation and prices. Here certain aspects of type of services offered to guests and organizational system of business management are examined. With regard to these particular aspects, the survey concentrates on gathering data on:

- equipment and installations, that consist of all facilities on the hotel premises available to the guest as an extra service in addition to the lodging service. Here, we are dealing with meeting rooms (with or without interpreting facilities), sporting or leisure facilities (swimming pool, tennis court, open-air playgrounds and spaces), spa or beach facilities;
- the technical and EDP infrastructures used by the hotel to improve efficiency of its productive activities (i.e. automatized procedures for in-house management or centralized guest booking procedures). Such information provide indicators of the extent of technological development of the hotel sector on a national level and on international network;
- the forms of horizontal integration between hotels which, through economic and functional agreements (e. g. acquisition groups, services syndacate, sales promotion syndacate), promote cooperation between hotels for the management of buying of goods and services or for coordination of public relations and marketing. With regard to organizational status of business concerns we may also note franchising contracts which provide the same logo for individual businesses making up hotel chains in complaince with common quality standards;
- the prices applied by hotels for accommodation alone or (full or half) board to guests during the high or low seasons, average discounts applied, and the number of clients who have availed themseles of such discounts over the year.

employment: the survey foresees interesting analyses of the work contract status of staff (self-employed or employees), work hours (full or part time), duration of work contracts (permanent or seasonal). This information is gathered in the manner described above that is, on 31st March, 30th June, 30th September and 31st December (i.e. the last days of the quarterly periods of the year). The criterion adopted reduces seasonal peaks (July-August) of those hotels most affected by seasonal activity and give the possibility to calculate the average number of employees. during the surveyed year. Furthermore, availability of precise data on employment numbers over the year in the hotel trade permits assessment of sector employment trends according to the four significant periods as regards tourism (which are more or less spring, early summer, late summer and winter).

economic and financial data and operating account: there is a special section of the survey questionnaire. The required data are organized according to balance sheet items. The aim is that of obtaining quantitative data for an evaluation of the economic importance of the sector with regard to productive activities as a whole and for calculation of added value created by the hotels sector within the context of the national economic system. Therefore, in compliance with the methodological guidelines adopted by ISTAT for other economic surveys carried out periodically for determination of GDP, the following information was requested:

- *income*, including turnover (not incl. VAT) with analysis according to type of service provided (accomodation, full or half board, restaurant, retail sales, etc.), taxes etc. and various subsidies for activities carried out as well as miscellaneous takings;
- operating costs, including a detailed analysis of expenses involved, in purchaising goods and services for the carrying out of business and breakdown of the cost of labour including gross salaries and wages and employers' social security contributions;

- stock of goods and services most likely to be found among hotels with secondary activities such as restaurant or catering;
- investments made over the year consisting in the value of durables acquired by enterprises concerns to be used over time and in the value of services incorporated in acquired investment goods. "Investments" include the value of bare land building, construction, expenditure for the acquisition of goods and services for special maintenance tasks to improve the productive efficiency and financial investiments.

Lastly, the questionnaire is completed by the requests of data pertaining the utilization of lodgment services by tourists, in terms of: arrivals and overnights, kind of tourism (individuals, groups, persons on business trips etc.), and seasonal closing.

3.5- Data collection

The survey was carried out over the period 20th October - 10th November 1993. It concerned business activities for 1992. The beginning of data gathering in the second half of the year was necessary for those businesses whose accounts not based on the solar year were available not before 30th June 1993. These businesses partially conditioned the beginning of the survey, but the decision of starting data gathering after the full summer season was also made in view of the greater spirit of collaboration which hotel managers would show with regard to the survey during the general lull in the tourist flow.

The framework of the survey is based on a mixed two-stage data gathering procedure: firstly, direct interviews with surveyor for the units of the main sample; and, secondly, questionnaires by mail for the units belonging to the additional sample.

In the first case, help was received from the Statistics Offices of the local Chambers of Commerce since these are stricly involved with businesses for administrative obligations pertaining to inclusion in public registers and due to the fact that these public Offices, which by statute play a role in the National Statistics System, are involved in statistical surveying activites. On the other hand, postal interviews were conducted first-hand by ISTAT itself by sending target units the same questionnaire used for direct interviews.

This different way of planning data gathering, also dictated by the need to reduce the costs of the survey, given the high number of interviews to be done, did not affect the quality of the data in itself, and led to a greater return of forms by direct interview. This can be explained by a greater sensitivity to the initiative on the part of manager contacted directly by interviewers trained particularly for this purpose.

3.6- The answers obtained

In spite of the complexity of the survey which requires a considerable range of information, including economic data, the response rate turned out to be satisfactory: 55.7% at national level that corrsiponds to 2,798 hotels interviewed (8.2% of universe). with degrees of coverage spread out

more or less from region to region. Exceptions to the rule are some of the southern regions where the response rate was slightly lower than the national average (Campania, Calabria and Sicily).

In any case if the theoretical sample is reconsidered keeping in mind the real number separated from the presumed quantity of non-responses, the percentages thus calculated increase until, on a national level, nearly full coverage is achieved.

See the following table for analyses of the structure of the survey universe, theoretical sample and reponse rates (effective sample) according to region.

Table 1 - Universe, sample and response rate for hotels - Number of local units by regions

	-	THEORETICAL	EFFECTIVE	RATES SAMPLE	E/UNIVERSE
REGIONS	UNIVERSE	SAMPLE	SAMPLE	THEORETICAL	
PIEDMONT	1546	209	123	10.5	0.0
VALLE D'AOSTA		59	27	13,5	8,0
LOMBARDY	2991	347	213	12,2	5,6
TRENTINO A.A.	5990	748	490	11,6	7,1
VENETO	3403	516	325	12,5	6,8
FRIULI V.G.	842	112	65	15,2	9,6
LIGURIA	2194	303	172	13,3	7,7
EMILIA R.	5606	860	555	13,8	7,8
TUSCANY	2961	413	234	15,3	9,9
UMBRIA	463	57	37	13,9	7,9
THE MARCHE	1057	185	106	12,3	8,0
LATIUM	1699	262	106	17,5	10,0
ABRUZZI	735	124	57	15,4	7,1
MOLISE	96	15	9	16,9	7,8
CAMPANIA	1281	206	111	15,6	9,4
APULIA	661	105	50	16,1	8,7
BASILICATA	164	27		15,9	7,6
CALABRIA	637	122	16	16,5	9,8
SICILY	830	242	38	19,2	6,0
SARDINIA	537	— · - ·	71	29,2	8,6
	231	114	59	21,2	11,0
TOTAL ITALY	34175	5026	2798	14,7	8,2

3.7 - Observations on the results

3.7.1 - Data quality

The information gathered through the survey are generally of good quality. The check of the filled questionnaires nonetheless showed the difficulties met by respondents in giving the requested information; the completeness of the sections which make up the survey model and the activation of cross analysis between the different variables which were given represent a test for the validity of the survey and the reliability of the results.

From an analysis of the answers obtained the following situations can be noted:

- answers not given
- answers given but certainly incorrect
- correct answers given individually but probably not reliable in relation to other variables in the questionnaire
- correct answers.

The overall weakest section of the questionnaire concerns economic data. In fact, the structure of costs and of incomes of the business requires a detailed analysis, in several cases available, and in others not easily evaluable. In this case the data of the turnover by kind of provided services to the guests was very difficult to quantify causing a high percentage of missing answers, or in any case of clearly unreliable data. Many units, in particular, noted the impossibility of distinguishing between income from guests that had used only lodging from that from the complete service and in any case more generally from all the other activities and accessory services offered to the tourists of the hotel and purchased during the period of stay. Also the data on costs were in many cases missing, due to the difficulty in providing analyses of the division of expenses; in several cases cross checks among different variables verified the presence of data on labour cost and an absence of employees. This is explainable by the way in which the model analyse employement for every quarter of the year, not necessarily coinciding with the peaks of maximum hotel activity, and consequently reducing the possibility of identifying seasonal workers. The variables on investiments turned out to be difficult to evaluate as the cases of missing answers caused by both imperfections in the model or situations actually present in the single hotel business interviewed.

The other sections of the questionnaire were found to have fewer gaps in the answers. The quality of the answers on the physical characteristics of the hotel were generally good, that is, the reception capacity, the equipment and installations for the customers, the technological endowment and organizational systems used by the units in carrying out their activity. Data on rates and prices used, where sometimes a logical check between the information given and the level of quality of hotel was possible, revealed to be reliable even if during the year, prices wave a lot because of changes in demand depending on several external factors (special events, competition, etc.).

More attention must be given, finally, to the variable relating to the main and secondary activities of the business. There is, in fact a problem of identifying refreshment activities carried out by the hotel, connected to the main one of lodging, and of defining the kind of service offered more precisely in order to better connote the hotel with a restaurant that carries

on a service primarily for its internal clientel and the hotel with restaurant, viceversa, aimed at a largely external clientel. This lack of initial clarification made the answers given in the questionnaires on secondary activity heterogenous, and produced effects especially on the relations between the hotel typology established on the basis of services given to clients and the activities pursued and the economic results obtained by the business for the productive activity carried out.

3.7.2 - Some considerations on the sampling design

The sampling technique is at one stage of stratification: the hotels were stratified preliminarily on the basis of the region of location (20 regions) and by 4 typologies of tourism locality in every region. Next, another subdivision was made in every strata, the first composed of hotels with the whole number of bed places above a certain threshold, variable on the basis of region and kind of locality, the second containing the rest of the hotels.

The hotels of the first stratum, defined self-representative and all inserted in the theoretical sample, must have an overall 20% of the total bed places of the strata they belong to. The hotels of the second stratum were then further subdivided into classes of bed places (variable in number and composition) and were selected with a simple design random sampling within each stratum. To avoid the risk of an high non-response rate and to insure an adequate coverage during the random extraction (hotels not self-representative) also a supplemental sample was selected in each stratum, with the same size of the original one. On the whole the three variables region, kind of locality and number of bed places interacted in the stratification frame: while the first two variables took on relevance both due to the need to provide territorial data and to isolate, at least in part, the effect of the heterogeneous composition of the Italian regions by kind of locality, the number of bed places was supposed strongly correlated with the main occupational and economic variables. In the phase of sampling the number of stars was not considered, as it strongly varies from year to year, and in any case is not always indicative of the real quality level of the tourist structure.

Considering the empirical results, it should be noted that the inclusion of the kind of locality in the planning of the theoretical sample could have affected the actual results of the real sample, given that in the case of high heterogeneity of the typology of locality, the period chosen for the interview would take on a determining role, due to the strong seasonality of the tourist activity supported by hotels. This difficulty could be at least in part avoided by interviewing the companies instead of the the local units.

The number of self-representative units could then be too small in certain strata, with the consequent risk of a total fall in numbers of answers in the category. This risk, however, is present in every scheme with a very detailed stratification.

From an operative point of view, the use of identification codes that associate every unit with a univocal stratum is advised. This aspect takes on relevance in the cases in which it is necessary to proceed to a poststratification due to the rapid change in the structure of the universe.

The choice of the criteria of stratification is directly connected with the surveying technique, in the Italian case based on interviews by mail and direct interviewer.

The forecast of direct, ad hoc interviews, following the stage of interviews by mail, on the one hand guarantees a minimum number of answers in each stratum, while on the other it is problematic for at least two reasons:

- 1. There are different answering mechanisms according to the change in the kind of interview (by mail or direct), in the sense that the probability of the answer depends on the presence or absence of the interviewer, in addition to the particular characteristics of the respondents;
- 2. It is not easy to forecast the meaning and the intensity of the divergence in answers in the two cases: generally the presence of the interviewer should improve the quality of the answers (in the specific case obtaining economic data less underestimated in comparison with true data), even if such hypotheses should be tested. The direct interview could then have heterogenous effects according to the changes in the localization and the quality of the hotel and in addition could depend on the ability of the interviewer to transmit the instructions for filling in the questionnaire without biasedness.

The main stage of the stratification consists probably in fixing the threshold that, in every stratum, shares the local units between self-representative and not. Such a threshold could be too sensitive to the presence or absence in the stratum of large size units, so that it is possible that the number of self-representative units is highly variable from stratum to stratum, above all if the grill given by region and kind of locality is not very meaningful. It follows that in two structurally similar strata, hotels with a very different number of bed places (and different structural characteristics) could be considered self-representative and so both subjected to a census.

A second essential aspect is then connected to the dynamic of the falls in numbers of answers: if the effective sample very closely approximates the theoretical sample as far as regards the self representative units (in the Italian case the rate of effective/theoretical is about 68%) while the percentage of answers is too low for the non-self-representative units, very probably all the dimensional data of the sample, starting with the number of bed places, will be over-estimated with respect to the universe. In the Italian case, even if the rate between effective sample and theoretical sample is 53% for units under the threshold, the average number of bed places for the hotel sample is about 87 in contrast with 48 for the universe. In the some way, the share of the universe effectively surveyed equals 8.2% in terms of number of local units and a 15% in terms of bed places. This divergence can lead to problems in the phase of choosing the variable to use for the extrapolation to the universe, given that the factors of expansion (rates between units in the universe and in the sample) are very different choosing the number of businesses instead of bed places for the estimate. An over-estimate for the universe data is therefore probable if the respondents of each stratum are on the average made up of the biggest or most efficient units. In practice in the Italian case it has been noted that if the estimation for the universe is carried out using the number of bed places, the variables are about 30% under-estimated with respect to the estimate obtainable by using the number of local units. The latter estimate was considered more reliable for these reasons:

- 1. it's more in line with some comparable universe-data known, when possible, by other sources;
- 2. the variable given by number of bed places, even if it is a size indicator intuitively more efficient than the simple number of local units is not strictly correlated with main economic data (turnover, investments, number of employees): in other words the link between turnover and bed places exists but is discontinuous and highly influenced by the kind of locality and by qualitative variables independent of the accommodation capacity.

A valid tool to verify the quality of the real sample results was the post-stratification of the effective sample and of the universe obtainable by substituting the kind of locality with the number of stars (the classes of stars considered were 1+2, 3 and 4+5), deducible from an universe-archive different from that used for the extraction of the sample, and from which other information, such as for example, the presence or absence of a restaurant, was deduced.

Comparing the results obtained with the amounts estimated for the universe based on the original stratification (region, kind of locality and number of bed places) and on the post-stratification (region and number of stars) this substantial difference raised strongly: in the first case the variability of the average values among strata does not seem interpretable as a function of well defined territorial models of developement while in the second, with few exceptions, a growth in the category of hotels on the average corresponds to a growt in economic performance, and the regions that enjoy largest economies of scale are, at least in part, easily identified. In other words the strata based on the number of stars seem more homogeneous within when compared to those based on kind of locality, insofar as in these there are units with characteristics too highly diversified. Only an estimate of the universe data able to take into consideration also the subdivision among self-representative and not self representative units seems to improve the global reliability of the data.

Briefly, it would seem that the optimal stratification must be based on regional variables, kind of locality, number of stars and number of bed places, on the condition of not using little populated strata in the sample and in the universe.

In the case of unsatisfactory global or stratum rates of coverage, it should be remembered that the empirical evidence suggests that the marginal utility (in terms of quality of data) given by the random recovering of 100 models is often lower than the added informative contribution of about 20 models recovered ad hoc within the strata containing units with the biggest sizes or, in any case, not well represented in the effective sample. It therefore seems to be indispensable to foresee, at the planning stage, two distinct moments in the survey: a first uniform, probably by mail, survey and a second stage only for some key units drawn from non respondent units.

In conclusion it appears essential to underline this aspect: it is necessary to clarify the main goal of the research already in the preparation stage of the sample. If in fact the primary objective is to estimate large economic aggregates referred to the universe (in the view, for example, of a wide use in regional or national economic accounts) the choice of a sample strongly oriented toward large units whose coverage should be almost totally guaranteed could be sufficient. If, instead, the primary goal is that of identifying and quantifying possible rules in behaviour, interdependence and correlations among variables, models of types of accommodation structures by locality, it is indespensable to consider the sample design with extreme caution, evaluating the reliability and informative completeness of the universe, and finally the correspondence between the effective sample and the theoretical model.

As an interpretive note for the attached tables, it should be clarified that in the tables "UNIVERSE 2e" and "TABLE 2e" the quotas effectively surveyed with respect to the universe are slightly different, in that they refer to two universes of different origin: in the first case one refers to an Enit archive containing the details on the numer of stars; in the second case an Istat archive organized by region, kind of locality and with distinction between self-representative units and not, was used.

The following tables outline the hotel of the universe by means of a stratification based on qualitative level (star categories broken down to form three groups) and on territorial distribution (Italian regions).

It must be pointed out the prevalence of hotels with restaurant (70.6%) as opposed to those without restaurant, and the prevalence of low category businesses (67.7%); three star hotels make up 26%, and four or five star hotels account for 6.1%.

The lower categories comprise only 44% of universe bed places. This is due to their still limited accommodation capacity.

Sample data agree with those of the universe: 62% of the hotels have a restaurant; 52.6% belong to the one and two star categories; 31.5% to the three star category and 15.8% to the top categories.

In terms of regional distribution, we note a particular concentration of hotels in Trentino Alto-Adige, Emilia Romagna, Veneto and Lombardy: this situation is typical both in of universe and of sample.

3.8 - Conclusions

The survey of hotels in Italy, as well known, was inserted in the wider Community activity of pilot surveys with the aim to observe a subset of variables able to better analyze the different sectors that compose the area of services. In any case, this survey was planned with the intent of providing results useful at the national level to fill the gaps that the sector of hotel businesses has been suffering for some time on the front of statistical information. The Italian experience has thus taken the form of a real and full investigation that certainly can be improved during the time, and it's planned on the methodological and organizational level also to take on connotations of scientific validity for all purposes. Taking in consideration the high economic cost of the operation concerning a sample of more than five thousand local units, the survey can be considered both a tool to pick up information on the performance in the hotel industry obtainable from economic-financial data of the business, and a way to analyze the structure and potentials of the tourist accommodation system of the country derivable from data on the physical characteristics and the level of quality of the single working units. From the first elements gathered it seems possible to affirm, in conclusion, that the procedures adopted are valid and the initial expectations will be satisfied.

TABLE 1a - DISTRIBUTION OF HOTELS BY REGIONS AND NUMBER OF STARS - ABSOLUTE SAMPLE DATA

	HOTELS WITH	OUT RESTA	URANT		HOTELS WITH	RESTAUR	ANT		TOTAL HOTE	 LS		======
REGION/STARS	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL
PIEDMONT	10	7	3	20	50	30	23	*****	<u></u>			
VALLE D'AOSTA	4	3	1	Ä	15	30	23	103	60	37	26	123
LOMBARDY	33	23	13	69	69	4		19	19	5	3	27
TRENTINO A.A.	145	49	10	204	100	34	41	144	102	57	54	213
VENETO	64	30	15	109		79	26	205	245	128	36	409
FRIULI V.G.	15	5	*3	23	130	50	36	216	194	80	51	325
LIGURIA	28	13	1		22	14	6	42	37	19	g	65
EMILIA R.	187	89	20	42 296	58	39	33	130	86	52	$3\overline{4}$	172
TUSCANY	58	27	20		152	61	46	259	339	150	66	555
UMBRIA	5	2 /	2	87	55	46	46	147	113	73	48	234
THE MARCHE	15	12	1	9	17	6	5	28	22	, a	7.0	37
LATIUM	28	27	4	31	29	34	12	75	44	46	16	
ABRUZZI	20	27		58	19	25	19	63	47	52	16 22	106
10LISE	2	U	Ü	2	19	30	6	55	21	30	22	121
CAMPANIA	1	1	0	2	. 5	1	1	7	1 2	30	6	57
APULIA	18	13	6	37	21	28	25	74	39		1	9
BASILICATA	7	4	3	14	7	17	12	36		41	31	111
'ALABRIA	2	0	0	2	9	- á	2	14	14	21	15	50
CICILY	0	2	0	2	1 17	15	4	36	11	. 3	2	16
	18	5	1	24	20	20	7		17	17	4	38
SARDINIA	7	11	1	19	12	24	4	47	38	25	8	71
								40	19	35	5	59
OTAL ITALY	647	324	87	1058	826	558	356	3740				
~~=============	==========		======:		,		330	1740	1473	882	443	2798

TABLE 1b - DISTRIBUTION OF HOTELS BY REGIONS AND NUMBER OF STARS - \ SAMPLE DATA BY REGIONS

	HOTELS WITH	HOUT RESTA	URANT	======================================	HOTELS WITH	RESTAUR	 ANT	======	TOTAL HOTEL	======== .S		======
REGION/STARS	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL	1+2	3	4+5	TO TENT
PIEDMONT VALLE D'AOSTA LOMBARDY TRENTINO A.A. VENETO FRIULI V.G. LIGURIA EMILIA R. TUSCANY UMBRIA THE MARCHE LATIUM ABRUZZI MOLISE CAMPANIA APULIA BASILICATA CALABRIA SICILY SARDINIA TOTAL ITALY	8,18 14,88 15,58 35,58 19,78 23,18 16,38 13,58 14,28 23,18 16,28 11,18 16,28 11,98	5,78 11,18 10,88 12,08 9,28 7,78 7,68 16,08 11,58 8,18 11,38 22,38 11,18 11,78 8,08 0,08 5,38 7,08 18,68	2,4% 3,7% 6,1% 2,4%% 4,6% 4,6% 4,6% 3,6% 2,7% 3,8% 2,5% 0,0% 5,4% 6,0% 0,0% 1,4% 1,7% 3,1%	16,3% 29,6% 32,4% 32,4% 33,5% 24,4% 537,3% 24,2% 47,9% 47,9% 22,2% 33,0% 12,3% 32,2% 33,8% 32,2%	40,7% 55,6% 32,4% 24,4% 40,0% 33,8% 33,7% 27,4% 23,5% 45,7% 33,3% 55,6% 18,9% 14,0% 56,3% 44,7% 28,2% 20,3%	24,48 7,08 19,38 15,45 21,78 11,78 12,78 11,78 12,18 20,78 52,18 20,78 52,18 25,28 34,08 18,88 38,28	18,78 7,48 19,28 11,18 19,28 19,78 11,38 15,78 11,58 12,58 12,58 12,58 12,58	83,4% 70,4% 50,6%,1% 66,6% 64,6% 46,8% 75,8% 70,8%	48,8% 70,4% 47,9% 59,9% 59,7% 56,0% 61,1% 48,3% 59,5% 38,8% 36,8% 36,7% 35,1% 28,0% 68,8% 35,1% 28,0%	30,1% 18,5% 26,3% 24,6% 31,6% 29,2% 30,0% 31,2% 43,0% 52,6% 43,0% 52,6% 43,0% 52,6% 43,0% 52,6% 43,0% 52,6% 43,0% 52,6% 36,6% 36,6% 37,5%	21, 18 11, 18 25, 48 8, 88 15, 78 19, 88 11, 98 11, 98 16, 28 15, 18 18, 28 11, 18 27, 98 11, 18 27, 98 11, 38 8, 58	TOTAL 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0%
			======			=======	========		32,0 0	31,3 5	15,8% =======	100,0%

TABLE 2a - DISTRIBUTION OF BED PLACES BY REGIONS AND NUMBER OF STARS - ABSOLUTE SAMPLE DATA

	HOTELS WIT	THOUT REST	FAURANT		HOTELS WIT	TH RESTAU	RANT		TOTAL HOTE	======== ELS	7 2 2 2 2 2 2 2 2 2	F W E C E C E C E
REGION/STARS	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL
PIEDMONT VALLE D'AOSTA LOMBARDY TRENTINO A.A. VENETO FRIULI V.G. LIGURIA EMILIA R. TUSCANY UMBRIA THE MARCHE LATIUM ABRUZZI MOLISE CAMPANIA APULIA	442 120 1008 4122 3683 603 959 8130 1901 111 677 930 114 14 729 275	743 128 2167 3508 4150 526 898 8799 1995 309 1275 2113 0 50 779 246	343 82 6115 1187 2807 561 80 3437 314 262 377 899 0	1528 330 9290 8817 10640 1690 1937 20366 4210 682 2329 3942 114 64 2636 989	2267 513 1828 3923 5679 861 1814 5922 1691 1331 1251 1016 733 269 985 237	2840 125 3182 7480 6326 1665 2679 5826 5445 791 3343 2407 3765 104 3243 2190	5151 108 13231 3846 8746 1064 5354 8159 9188 628 1729 7755 2528 82 5741 2249	10258 746 18241 15249 20751 3590 9847 19907 16324 2750 6323 10978 7026 455 9969	2709 633 2836 8045 9362 1464 2773 14052 3592 1442 1928 1946 847 283	3583 253 5349 10988 10476 2191 3577 14625 7440 1100 4618 4520 3765 4022	5494 190 19346 5033 11553 5424 11596 9502 890 2106 8454 2528 82 6869	11786 1076 27531 24066 31391 5280 11784 40273 20534 3432 8652 14920 7140 519 12605
BASILICATA CALABRIA SICILY SARDINIA	81 0 649 441	0 118 702 912	0 0 310 75	81 118 1661 1428	339 818 625 410	373 1322 4800 3590	213 1533 893 808	925 3673 6318 4808	512 420 818 1274 851	2436 373 1440 5502 4502	2717 213 1533 1203 883	5665 1006 3791 7979 6236
TOTAL ITALY	24989	29418 ========	18445	72852	32512	61496	78806	172814	57501	90914	97251	245666

TABLE 2b - DISTRIBUTION OF BED PLACES BY REGIONS AND NUMBER OF STARS - % SAMPLE DATA BY REGIONS

REGION/STARS 1+2 PIEDMONT 3,8% VALLE D'AOSTA 11,2% LOMBARDY 3,7% TRENTINO A.A. 17,1% VENETO 11,7% FRIULI V.G. 11,4% LIGURIA 8,1%	6,3% 11,9% 7,9% 14,6% 13,2%	4+5 2,9% 7,6% 22,2% 4,9%	TOTAL 13,0% 30,7% 33,7%	1+2 19,2% 47,7%	3 24,1% 11,6%	4+5 	TOTAL 87,0%	1+2 23,0%	3	4+5	TOTAL
VALLE D'AOSTA 11,2% LOMBARDY 3,7% TRENTINO A.A. 17,1% VENETO 11,7% FRIULI V.G. 11,4%	11,9% 7,9% 14,6% 13,2%	7,6% 22,2% 4,9%	30,7% 33,7%	47,7%		43,7%	87.0%	23.0%			
EMILIA R. 20,2% TUSCANY 9,3% UMBRIA 3,2% THE MARCHE 7,8% LATIUM 6,2% ABRUZZI 1,6% MOLISE 2,7% CAMPANIA 5,8% APULIA 4,9% BASILICATA 8,1% CALABRIA 0,0% SICILY 8,1% SARDINIA 7,1% TOTAL ITALY 10,2%	7,6% 21,8% 9,7% 9,0% 14,7% 14,2% 0,0% 9,6% 6,2% 4,3% 0,0% 3,1% 8,8% 14,6%	8,9% 10,6% 8,5% 1,5% 1,5% 4,0% 0,0% 8,3% 0,0% 8,3% 0,0% 1,2% 7,5%	36,6% 33,9% 32,4% 50,6% 20,5% 26,4% 19,9% 26,4% 1,6% 20,9% 17,5% 8,1% 20,9% 17,5% 20,9% 17,5% 20,9% 17,5% 20,9% 17,5% 20,9% 2	6,6% 16,3% 18,1% 16,3% 15,4% 14,7% 8,2% 38,8% 14,5% 6,8% 10,3% 51,8% 7,8% 4,2% 33,7% 21,6% 13,2%	11,68 31,18 20,28 31,58 22,78 14,58 26,58 23,08 38,68 16,18 52,78 38,78 37,18 34,98 60,28 57,68	10,0% 48,1% 16,0% 27,9% 20,2% 45,4% 20,3% 44,7% 18,3% 20,0% 35,4% 15,8% 35,4% 11,2% 11,2% 11,2% 13,0%	69,3% 666,3% 666,4% 68,6% 68,6% 83,4% 89,1% 80,1% 73,4% 87,7% 82,7% 79,1% 82,9% 79,2% 77,1%	58,8% 10,3% 33,4% 29,8% 27,7% 23,5% 34,5% 42,0% 22,3% 13,9% 54,5% 13,6% 9,0% 41,7% 21,6% 16,0%	30,4% 23,5% 19,7% 33,4% 41,5% 36,3% 36,2% 32,1% 30,3% 52,7% 31,9% 43,0% 69,0% 72,2%	46,6% 17,7% 20,9% 36,8% 30,8% 46,3% 46,3% 25,9% 25,9% 35,4% 15,8% 48,0% 48,0% 15,1% 14,2% 14,2%	100,0% 100,0%

TABLE 2d - AVERAGE NUMBER OF BED PLACES PER HOTEL, BY REGIONS AND NUMBER OF STARS - ABSOLUTE SAMPLE DATA

	HOTELS WITH	OUT RESTA	AURANT		HOTELS WITH	I RESTAURA	ANT		TOTAL HOTEL	S		.======
REGION/STARS	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL
PIEDMONT	44	106	114	76	1 45	95	204				·	
VALLE D'AOSTA	30	43	82	41	34	63	224	100	45	97	211	96
LOMBARDY	31	94	470	135	26		54	39	33	51	63	40
TRENTINO A.A.	28	72	119	43	39	94	323	127	28	94	358	129
VENETO	58	138	187	98		95	148	74	33	86	140	59
FRIULI V.G.	40	105	187	73	44	127	243	96	4.8	131	227.	97
LIGURIA	34	69	80		39	119	177	85	40	115	181	81
EMILIA R.	43	99	172	46	31	69	162	76	32	69	160	69
TUSCANY	33	74		69	39	96	177	77	41	98	176	73
UMBRIA	22	103	157 262	48	31	118	200	111	32	102	198	88
THE MARCHE	45			76	78	132	126	98	66	122	148	93
LATIUM	33	106	94	75	43	98	144	84	44	100	132	82
ABRUZZI	57	78	300	68	53	96	398	174	41	87	384	123
MOLISE				57	39	126	421	128	40	126	421	125
CAMPANIA	14	50		32	54	104	82	65	47	77	82	58
APULIA	41	60	188	71	47	116	230	135	44	98	222	114
BASILICATA	39	62	156	71	34	129	187	130	37	116	181	113
CALABRIA	41			41	38	124	107	66	38	124	107	63
		59		59	48	88	383	102	48	85	383	
SICILY	36	140	310	69	31	240	128	134	34	220		100
SARDINIA	63	83	75	75	34	150	202	120	45	129	150 177	112 106
TOTAL ITALY	39	91	212	69	39	110	221	:۔۔۔۔۔۔۔۔ ا 99	39	103	220	88

TABLE UNIVERSE 1a - DISTRIBUTION OF HOTELS BY REGIONS AND NUMBER OF STARS - ABSOLUTE DATA

	HOTELS WIT	HOUT RESTA	URANT		HOTELS WIT	H RESTAUR	ANT		TOTAL HOTE	======= LS		
REGION/STARS	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL
PIEDMONT VALLE D'AOSTA LOMBARDY TRENTINO A.A. VENETO FRIULI V.G. LIGURIA EMILIA R. TUSCANY UMBRIA THE MARCHE LATIUM ABRUZZI MOLISE CAMPANIA APULIA BASILICATA CALABRIA SICILY SARDINIA	182 70 429 1056 536 161 415 973 725 91 67 517 283 48 672 282 109 203 206 40	90 19 198 169 145 40 95 211 283 27 24 180 188 33 352 243 35 108 26 28	18 2 69 10 31 2 13 27 52 7 4 28 18 8 8 119 68 3	290 91 696 1235 712 203 523 1211 1060 125 95 725 489 89 1143 593 147 319 235 71	923 281 1607 3357 1913 487 1091 3169 1109 208 509 545 141 1 21 4 6 168 328 212	262 91 494 1215 574 122 494 1057 598 92 394 321 98 1 39 33 7 126 217 2001	71 19 194 183 204 30 86 169 194 38 59 108 7 5 78 31 4 24	1256 391 2295 4755 2691 639 1671 4395 1901 338 962 974 246 7 138 68 17 318 595	1105 351 2036 4413 2449 648 1506 4142 1834 299 576 1062 424 49 693 286 115 371 534	352 110 692 1384 719 162 589 1268 881 119 418 501 286 391 276 42 234 243	89 21 263 193 235 32 99 196 246 45 63 136 25 137 99 7	1546 482 2991 5990 3403 842 2194 5606 2961 463 1057 1699 735 1281 661 164 637 830
TOTAL ITALY	7065	2494	493 ======	10052	16080	6436	1607	24123	23145	229 8930	56 2100	537 34175
							- = = = = = = = ;	========	=======================================	=======	=======	======

TABLE UNIVERSE 1b - DISTRIBUTION OF HOTELS BY REGIONS AND NUMBER OF STARS - % DATA BY REGIONS

	HOTELS WITH	OUT RESTA	URANT		HOTELS WITH	RESTAURA	====== NT	=======	TOTAL HOTE	======== '.C		======
REGION/STARS	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL	1+2	3	4+5	ም ር-ምአ ፣
PIEDMONT VALLE D'AOSTA LOMBARDY TRENTINO A.A. VENETO FRIULI V.G. LIGURIA EMILIA R. TUSCANY UMBRIA THE MARCHE LATIUM ABRUZZI MOLISE CAMPANIA APULIA BASILICATA CALABRIA SICILY SARDINIA TOTAL ITALY	11,8% 14,3% 14,3% 17,6% 15,8% 19,1% 18,9% 17,4% 24,5% 19,7% 60,4% 38,5% 50,0% 52,7% 66,5% 31,9%	5,88 3,68 6,68 4,38 4,38 4,38 4,38 5,38 20,68 20,68 34,48 27,88 217,08 31,28	1,2% 0,4% 2,3% 0,2% 0,2% 0,5% 1,6% 1,5% 1,5% 1,5% 1,4% 8,3% 9,3% 1,8% 1,8% 1,8%	18,8\$ 18,9\$ 23,3\$ 20,6\$ 20,6\$ 24,1\$ 23,8\$ 21,6\$ 35,8\$ 27,0\$ 42,5\$ 89,7\$ 89,7\$ 89,6\$ 13,2\$	59,78 58,38 53,78 56,08 56,08 56,88 49,78 56,58 44,98 48,28 32,18 19,08 1,68 3,78 26,48 39,58	16,9\$ 18,9\$ 16,5\$ 20,3\$ 16,9\$ 14,5\$ 22,5\$ 18,9\$ 37,3\$ 18,9\$ 37,3\$ 18,9\$ 4,3\$ 5,0\$ 4,3\$ 19,8\$ 26,1\$ 37,4\$	4,68 3,58 3,58 6,08 3,98 6,68 8,68 1,08 15,48 1,78 4,48 4,48 6,98	81,28 81,78 81,79,48 79,48 79,92 76,42 73,00 57,3 57,3 85,3 10,48 10,49 86,78 86,78	71,5% 72,0% 73,7% 72,0% 77,0% 68,6% 73,9% 61,9% 64,5% 62,5% 57,7% 51,0% 43,3% 70,1% 58,1% 64,3% 46,9%	22,8% 23,1% 23,1% 21,1% 19,8% 22,6% 29,7% 29,5% 39,5% 35,4% 41,6% 36,7% 22,6% 22,6% 22,6% 22,6% 22,6% 22,6%	5,0% 4,4% 8,8% 8,8% 6,9% 3,8% 4,5% 8,3% 8,3% 13,5% 15,0% 4,3% 5,0%	TOTAL 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0%
TOTAL TIMES	20,7%	7,3 % ========	1,4% =======	29,4%	47,1%	18,8%	4,7%	70,6%	67,7%	26,1%	6,1%	100.0%
									=======================================	=======	=======	======

TABLE UNIVERSE 2a - DISTRIBUTION OF BED PLACES BY REGIONS AND NUMBER OF STARS - ABSOLUTE DATA

	HOTELS WI	THOUT REST	TAURANT		HOTELS WI	TH RESTAU	======= RANT		TOTAL HOT	======= ELS	========	
REGION/STARS	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL
PIEDMONT VALLE D'AOSTA LOMBARDY TRENTINO A.A. VENETO FRIULI V.G. LIGURIA EMILIA R. TUSCANY UMBRIA THE MARCHE LATIUM ABRUZZI MOLISE CAMPANIA APULIA BASILICATA CALABRIA SICILY SARDINIA	5090 1655 11695 26083 15915 4640 10901 32577 17372 2183 1927 13815 9351 1062 22990 8163 2993 7516 5630 994	5329 931 13188 8832 8431 2456 4963 13592 13689 1497 1130 12829 2051 25395 19920 2729 12363 1691 1961	1577 132 7213 962 2856 441 1056 2544 4730 370 176 4247 3959 644 14787 8670 323 1710 194 291	11996 2718 32096 35877 27202 7537 16920 48713 35791 4050 3233 30891 28339 3757 63172 36753 6045 21589 7515 3246	24821 8745 40507 96189 73138 14915 29905 115786 32028 6890 19248 18340 4366 25 843 123 150 9954 12944 7803	13602 4820 28442 69656 48308 9123 27275 71430 36697 6430 29388 26138 9416 104 3101 2639 302 14585 35102 22927	9679 2791 30861 15773 30317 3829 10142 22575 23491 3381 5945 26442 986 471 11641 5603 788 4948 9737 9411	48102 16356 99810 181618 151763 27867 67322 209791 92216 16701 54581 70920 14768 600 15585 8365 1240 29487 57783	29911 10400 52202 122272 89053 19555 40806 148363 49400 9073 21175 32155 13717 1087 23833 8286 3143 17470 18574 8797	18931 5751 41630 78488 56739 11579 32238 85022 50386 7927 30518 38967 24445 2155 28496 22559 3031 26948 36793 24888	11256 2923 38074 16735 33173 4270 11198 25119 28221 3751 6121 30689 4945 1115 26428 14273 1111 6658 9931	60098 19074 131906 217495 178965 35404 84242 258504 128007 20751 57814 101811 43107 4357 78757 45118 7285 51076 65298 43387
TOTAL ITALY	202552	168006	56882 =======	427440	516720	459485	228811	1205016	719272	627491	285693	1632456

TABLE UNIVERSE 2b - DISTRIBUTION OF BED PLACES BY REGIONS AND NUMBER OF STARS - % DATA BY REGIONS

	HOTELS WITH	OUI KESIA	TOROMA		HOTELS WITH	H RESTAUR	ANT		TOTAL HOTEL	s		
REGION/STARS	1+2	3	4+5	LATOT	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL
PIEDMONT VALLE D'AOSTA LOMBARDY TRENTINO A.A. VENETO FRIULI V.G. LIGURIA EMILIA R. FUSCANY UMBRIA THE MARCHE LATIUM ABRUZZI MOLISE CAMPANIA APULIA BASILICATA CALABRIA SICILY SARDINIA	8,5% 8,7% 8,9% 12,9% 13,1% 12,6% 12,6% 13,5% 13,5% 21,4% 29,2% 41,1% 14,7% 8,6% 2,3%	8,99% 4,99% 4,17% 6,99% 10,29% 10,20% 10,20% 12,69% 347,22% 347,22% 44,52% 44,65%	2,68880,000,000,000,000,000,000,000,000,0	20,0% 14,2% 24,3% 16,2% 215,3% 20,1% 28,0% 28,0% 29,6% 30,7% 80,2% 81,5% 80,2% 81,5% 42,5% 42,5%	41,3% 45,8% 30,7% 44,2% 40,9% 42,1% 35,5% 44,8% 25,0% 33,2% 33,3% 18,0% 10,1% 0,6% 1,1% 0,3% 2,1% 19,8% 19,8% 18,0%	22, 68 21, 68 21, 60 32, 68 22, 68 32, 68 32, 68 32, 68 31, 88 35, 88 4, 98 4, 88 53, 88 53, 88	16,18 14,68 23,48 7,38 16,98 10,88 12,08 10,38 26,08 10,88 110,88 12,48 10,88 12,48 10,88	80,088 85,758 84,758 84,758 84,798 812,054 812,054 813,88 813,88 813,88 817,75 817,75 817,75 817,75 818,55	49,8% 54,6% 39,6% 49,8% 55,2% 49,8% 55,4% 38,6% 43,7% 36,6% 31,8% 24,9% 30,3% 18,4% 43,1% 34,2% 28,4%	31,5% 30,2% 31,6% 31,7% 32,7% 38,2% 39,4% 38,2% 39,4% 36,7% 49,5% 49,5% 41,6% 52,8% 55,3%	18,7% 15,3% 28,9% 18,5% 12,1% 13,3% 22,0% 18,1% 22,0% 18,1% 25,6% 33,6% 15,3% 15,3% 15,2%	100,0 100,0 100,0 100,0 100,0 100,0 100,0 100,0 100,0 100,0 100,0 100,0 100,0 100,0
TOTAL ITALY	12,4%	10,3%	3,5%	26,21	31,7%	28,1%	14.01	73.8%	44,1%	38,4%	17,5%	100,0

TABLE UNIVERSE 2d - AVERAGE NUMBER OF BED PLACES PER HOTEL, BY REGIONS AND NUMBER OF STARS - ABSOLUTE DATA

	HOTELS WITH	OUT RESTA	AURANT		HOTELS WITH	H RESTAUR	ANT	**=====	TOTAL HOTE	:======= JS	======	
REGION/STARS	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL
PIEDMONT	28	59	88	41	1					-		
VALLE D'AOSTA	24	49	66	30	27	52	136	38	27	54	126	39
LOMBARDY	27	67	105	46	31	53	147	42	30	52	139	40
TRENTINO A.A.	25	52	96	29	25	58	159	43	26	60	145	44
VENETO	30	58	92	38	29	57	86	38	28	57	87	36
FRIULI V.G.	29	61	221	38	38	84	149	56	36	79	141	53
LIGURIA	26	52	81		31	75	128	44	30	71	133	42
EMILIA R.	33	64	94	32	27	55	118	40	27	55	113	38
TUSCANY	24	48	91	40	37	68	134	48	36	67	128	46
UMBRIA	24	55	53	34	29	61	121	49	27	57	115	43
THE MARCHE	29	47		32	33	70	89	49	30	67	83	45
LATIUM	27	71	44	34	38	75	101	57	37	73	97	55
ABRUZZI	33	80	152	43	34	81	245	73	30	78	226	60
MOLISE	22		220	58	31	96	141	60	32	85	198	59
CAMPANIA	34	62	81	42	25	104	94	86	22	63	86	45
APULIA	29	72	124	55	40	80	149	113	34	73	134	61
BASILICATA	27	82	128	62	31	80	181	123	29	82	144	68
CALABRIA	37	78	108	41	25	43	197	73	27	72	159	44
SICILY	27	114	214	6B	59	116	206	93	47	115	208	80
SARDINIA	25	65	65	32	39	162	195	97	35	151	187	79
SARDINIA	25	70	97	46	37	114	178	86	35	109	173	81
TOTAL ITALY	29	67	115	43	32							
#===========	 ==============				34	71	142	50	31	70	136	48
						*****			========		====::	=======

TABLE UNIVERSE 2e - RATES SAMPLE/UNIVERSE FOR NUMBER OF HOTELS AND NUMBER OF BED PLACES
BY REGIONS AND NUMBER OF STARS

	TOTAL HOTELS		NUMBER OF	HOTELS	TOTAL HOTELS	NUMBER	OF BED	PLACES
REGION/STARS	1+2	3	4+5	TOTAL	1+2	3	4+5	TOTAL
PIEDMONT VALLE D'AOSTA LOMBARDY TRENTINO A.A. VENETO FRIULI V.G. LIGURIA EMILIA R. TUSCANY	5,4% 5,4% 5,0% 5,6% 7,9% 5,7% 5,7% 6,2%	10,5% 4,5% 8,2% 9,2% 11,1% 11,7% 8,8% 11,8%	14,3% 20,5% 18,7% 21,7% 28,1% 34,3% 33,7%	8,0% 5,6% 7,1% 6,8% 7,7% 7,8% 9,9%	6,1% 5,4% 6,6% 10,5% 7,5% 6,8% 9,5%	4,4% 12,8% 14,0% 18,5% 18,9% 11,1%	48,8% 6,5% 50,8% 30,1% 34,8% 38,1% 48,5% 46,2%	19,6% 5,6% 20,9% 11,1% 17,5% 14,9% 14,0%
UMBRIA THE MARCHE LATIUM ABRUZZI MOLISE CAMPANIA APULIA BASILICATA CALABRIA SICILY SARDINIA	7,4% 7,6% 4,4% 5,0% 12,2% 5,6% 4,9% 9,6% 4,6% 7,1%	7,6% 11,0% 10,5% 5,9% 10,5% 7,1% 7,3% 10,3%	19,5% 13,3% 25,4% 16,2% 24,0% 7,7% 15,7% 15,2% 28,6% 12,5% 15,1% 8,9%	7,9% 8,0% 10,0% 7,1% 7,8% 9,4% 9,4% 6,6% 11,0%	15,9% 9,1% 6,1% 6,2% 26,0% 7,2% 6,2% 13,4% 4,7% 6,9%	13,9% 15,1% 11,6% 15,4% 7,1% 14,1% 10,8% 12,3%	33,7% 23,7% 347,5% 347,5% 7,4% 26,0% 19,2% 23,0% 123,1% 9,1%	16,0% 16,5% 15,0% 14,7% 16,6% 11,9% 12,6% 13,8% 12,2% 14,4%
TOTAL ITALY	6,4%	9,9%	21,1%	8,2%	8,0%	14,5%	34,0%	15,0%

TABLE 2e - RATES (REAL SAMPLE)/UNIVERSE - (THEORIC SAMPLE)/UNIVERSE - (THEORIC SAMPLE) - BY REGIONS

	(REAL SAMP	LE)/UNIVERSE		(THEORIC SAMPLE)/UNIVERSE			(REAL SAMPLE)/(THEORIC SAMPLE)		
REGION		HOTELS UNDER THE THRESHOLD	TOTAL HOTELS		HOTELS UNDER THE THRESHOLD	TOTAL HOTELS		HOTELS UNDER THE THRESHOLD	TOTAL HOTELS
PIEDMONT VALLE D'AOSTA LOMBARDY TRENTINO A.A. VENETO FRIULI V.G. LIGURIA EMILIA R. TUSCANY UMBRIA THE MARCHE LATIUM ABRUZZI MOLISE CAMPANIA APULIA BASILICATA CALABRIA SICILY SARDINIA	84,0\$ 0,0\$ 84,8\$ 58,9\$ 69,9\$ 70,4\$ 65,6\$ 69,9\$ 72,2\$ 77,8\$ 68,2\$ 54,0\$ 67,7\$ 64,3\$ 100,0\$ 22,2\$ 30,0\$	4,3% 5,3% 5,5% 4,2% 4,2% 5,6% 5,4% 5,4% 5,1% 6,1% 7,0% 6,1% 11,0%	6,48 5,38 7,28 6,18 7,58 7,58 7,58 9,58 9,58 7,78 10,88 8,48 11,18 8,88 11,58	100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0% 100,0%	8,5% 11,1% 9,8% 9,2% 11,8% 10,4% 10,4% 11,6% 10,5% 13,1% 12,6% 14,7% 13,5% 16,1% 16,0%	10,8% 11,6% 11,8% 11,2% 14,3% 12,9% 12,6% 14,6% 13,7% 16,5% 15,1% 16,8% 18,1% 15,5% 18,1% 18,8% 20,2% 30,1%	84,0\$ 0,0\$ 84,8\$ 58,9\$ 69,9\$ 70,4\$ 65,6\$ 69,9\$ 72,2\$ 77,2\$ 68,2\$ 54,0\$ 72,2\$ 0,7\$ 64,3\$ 100,0\$ 22,2\$	50,9% 48,9% 48,9% 55,96% 51,3% 51,3% 54,3% 51,7% 59,9% 44,5% 41,5% 41,5% 41,5% 41,5% 41,5% 41,5% 41,5% 41,5% 41,5% 41,5% 41,5% 41,5% 41,5%	58,4708888488654,7065564,,2092888657466,9923886537,3329,3329,3329
TOTAL ITALY	67,9%	6,1%	7,8%	100,0%	21,3%	22,2% [50,0% 67,9%	51,9% 52,8%	51,8%

The threshold is based on the number of beds coverage in the same region and kind of locality (omitted)