The DAFNE databank for monitoring food disparities within and between European populations.

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for the DAFNE team

WHO Collaborating Centre for Nutrition

Medical School, University of Athens

Nutrition and Physical Activity Network. Luxembourg, June 30 – July 1, 20

The DAFNE initiative

Objective : To develop a European, regularly updated databank of comparable food and socio-economic information, as a tool for monitoring trends in food habits in Europe.

Supported by the European Commission, through: the "Cooperation in Science and Technology with Central and Eastern European Countries", the "Agriculture and Agro-Industry, including Fisheries - AIR", the "Agriculture and Fisheries - FAIR", the "COST Action 99 - Food Consumption and Composition Data" programmes and the Health Monitoring Programme of DG-SANCO.

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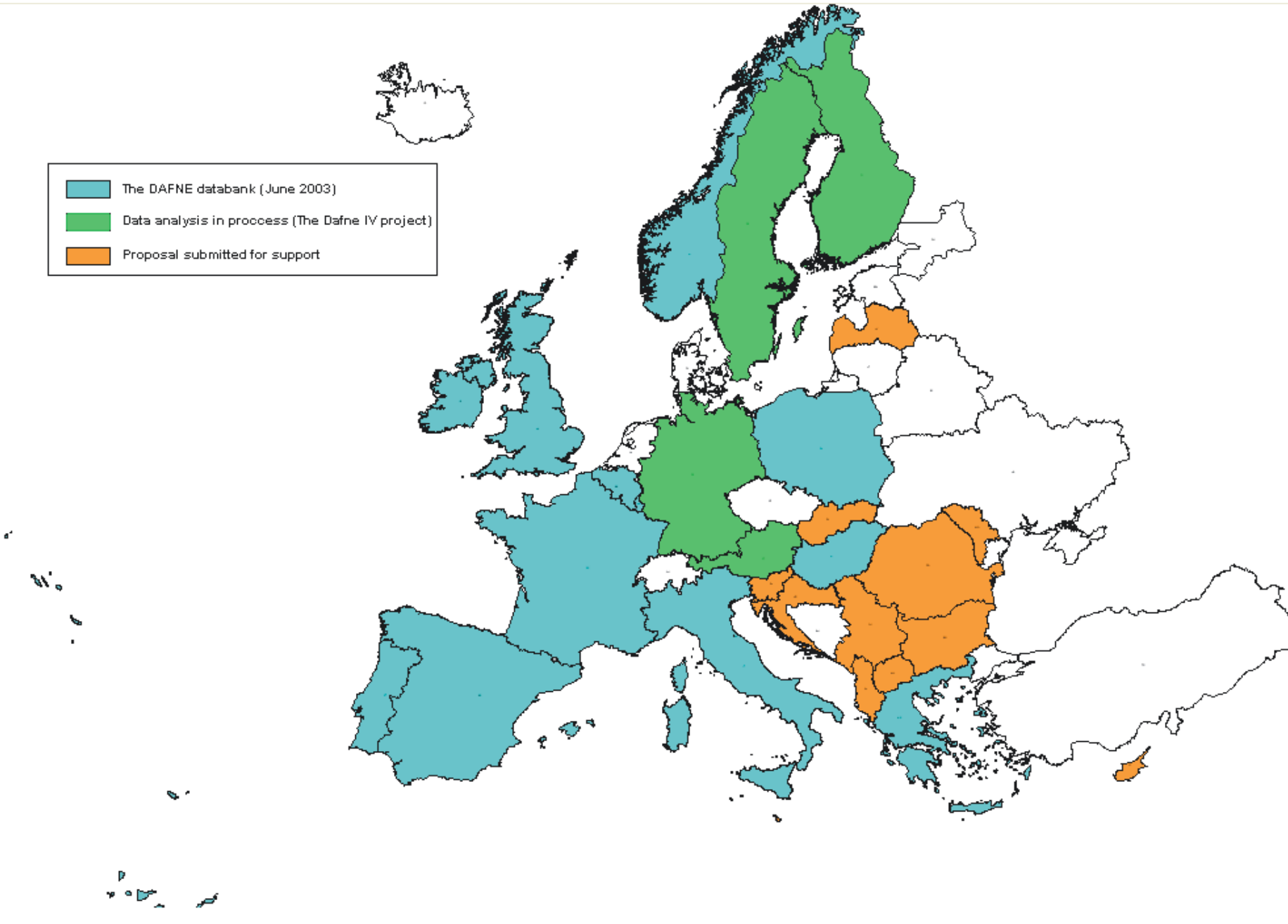
- **UK** : *M. Nelson, University of London*

The DAFNE databank

Countries	Years of HBS data
Austria	***1999-2000 (analysis in process)***
Belgium	1987-88, 1996-97, 1999
Finland	***1985, 1990, 1998 (analysis in process)***
France	1985, 1991, 1995
Germany	1988, ***1993, 1998 (analysis in process)***
Greece	1981-82, 1987-88, 1993-94, 1998-99.
Hungary	1991
Ireland	1987, 1994-95, 1999-2000
Italy	1990, 1993, 1996
Luxembourg	1992
Norway	1986/87/88, 1992/93/94, 1996/97/98
Poland	1988
Portugal	1989-90, 1994-95, ***1999-2000 (analysis in process)***
Spain	1980-81, 1990-91, 1998-99
Sweden	***1989, 1995-96 (analysis in process)***
United Kingdom	1985 – 1999 (15 surveys)


The DAFNE databank (June 2003)
Data analysis in proccess (The Dafne IV project)
Proposal submitted for support

Standard procedures

Data collection

Methodology of post harmonisation

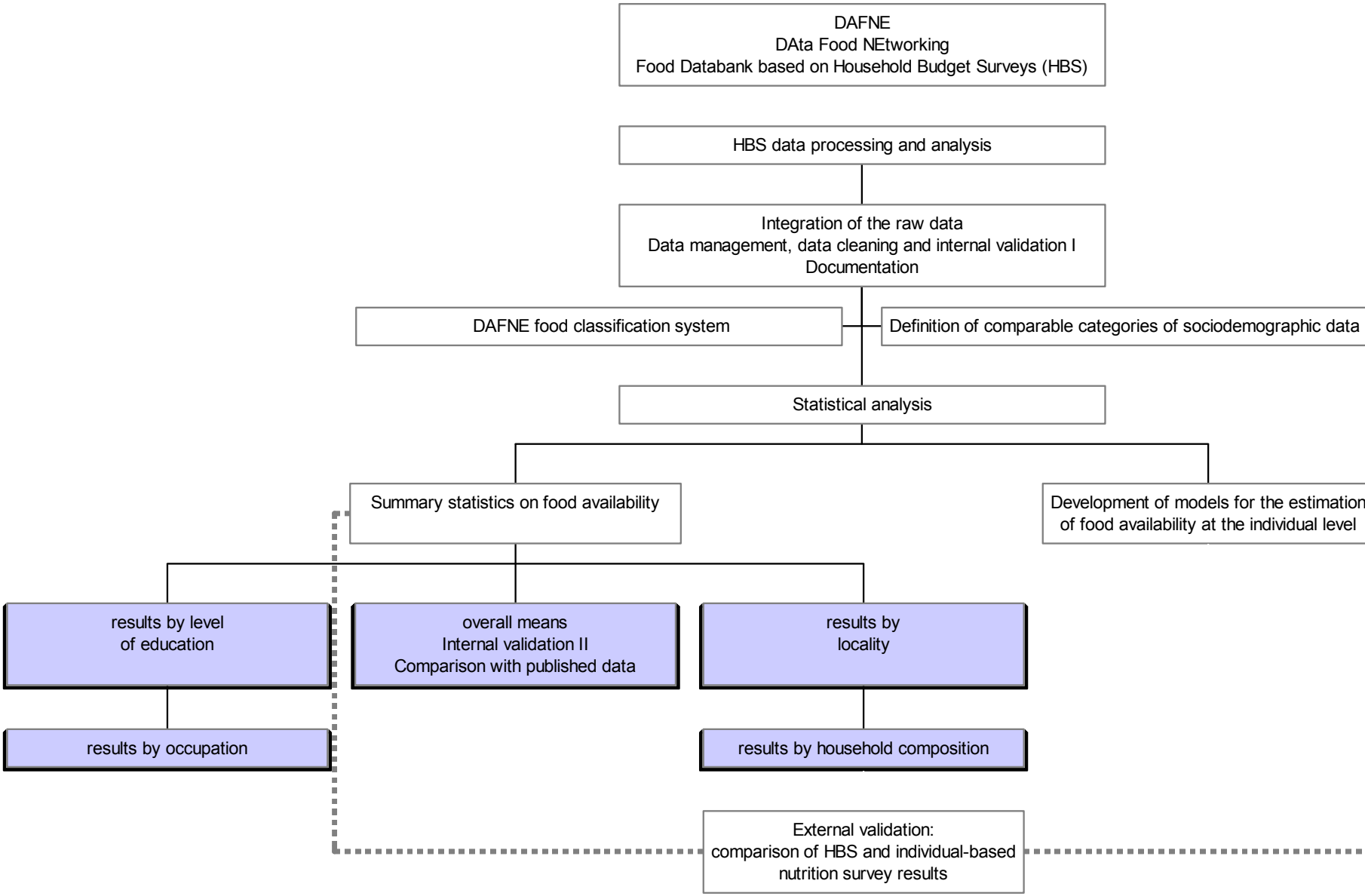
Statistical analysis

Standard procedures: Data collection

1.General information
- household identification number
- trimester of participation

2.Nutritional information
- food code
- total food expenditure
- expenditure per food item
- amounts per food item

3.Socioeconomic information
- degree of urbanisation of household (urban, rural , semi-urban)
- name of geographical area where the household is situated
- household size
- household composition
- Age and gender of household head and members
- Relationship of household members with the household head
- Household disposable income (net income)
- Household total expenditure
- Occupation / employment status / economic activity of household head and members
- Education of household head and members
- Income of household head
- Medical expenses data


DAFNE
DAta Food NEtworking
Food Databank based on Household Budget Surveys (HBS)
HBS data processing and analysis
Integration of the raw data
Data management, data cleaning and internal validation I
Documentation
DAFNE food classification system
Definition of comparable categories of sociodemographic data
Statistical analysis
Summary statistics on food availability
Development of models for the estimation of food availability at the individual level
results by level of education
overall means
Internal validation II
Comparison with published data
results by locality
results by occupation
results by household composition
External validation:
comparison of HBS and individual-based nutrition survey results

Methodology

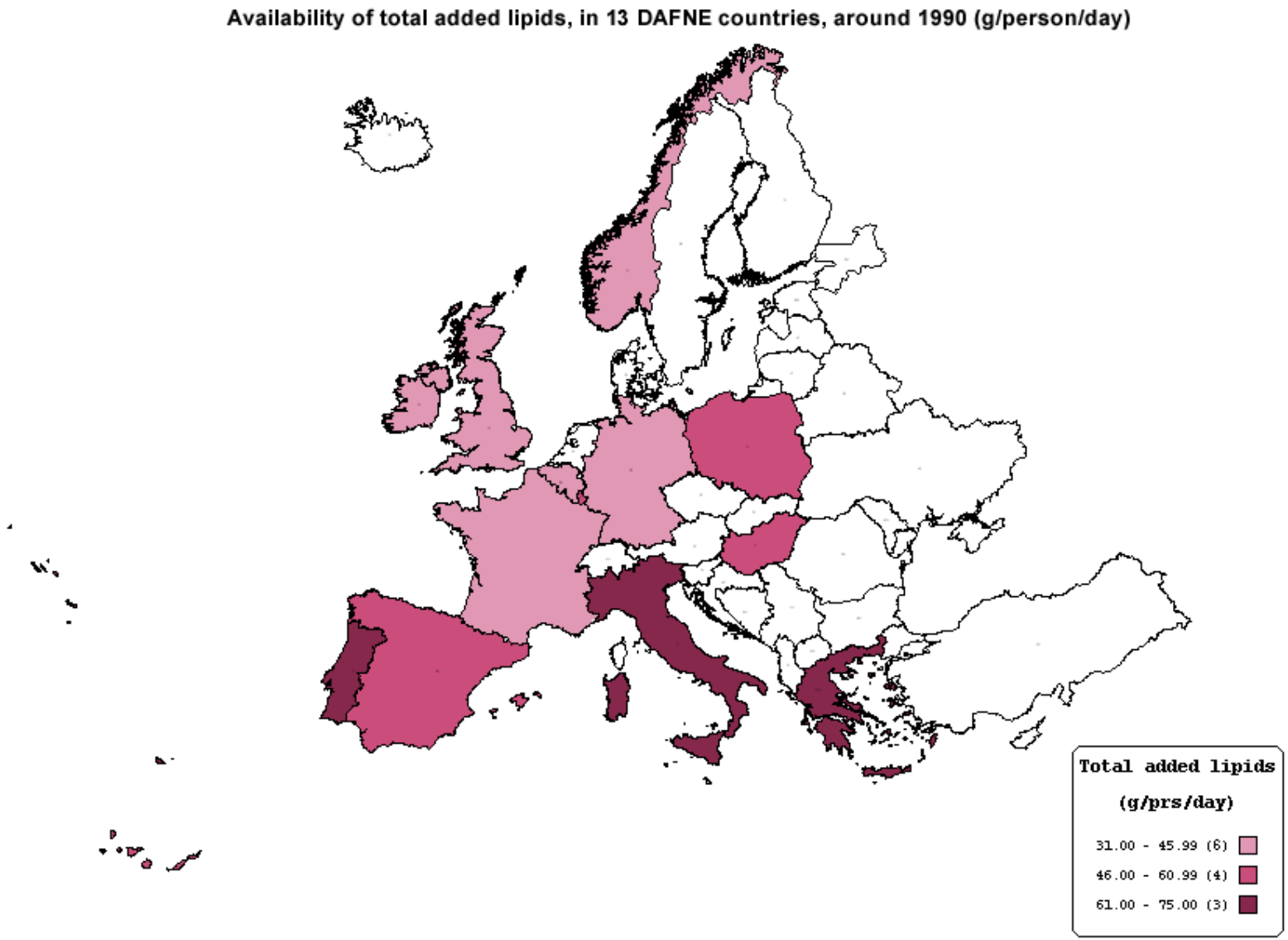
Post-harmonisation

DAFNE Food Classification

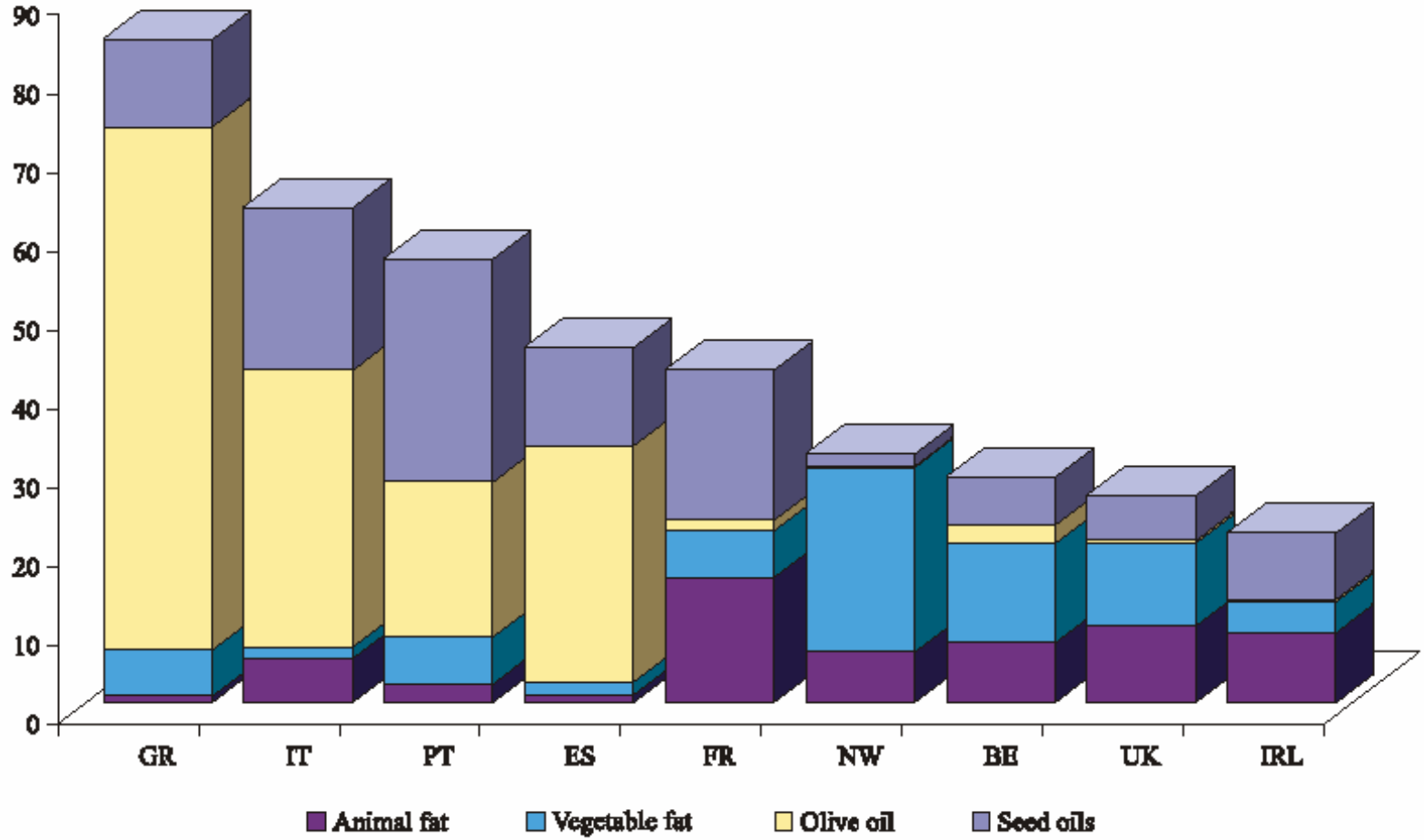
DAFNE Classification Schemes for:

- locality
- education of household head
- occupation of household head
- household composition

DAFNE - Data Food Networking



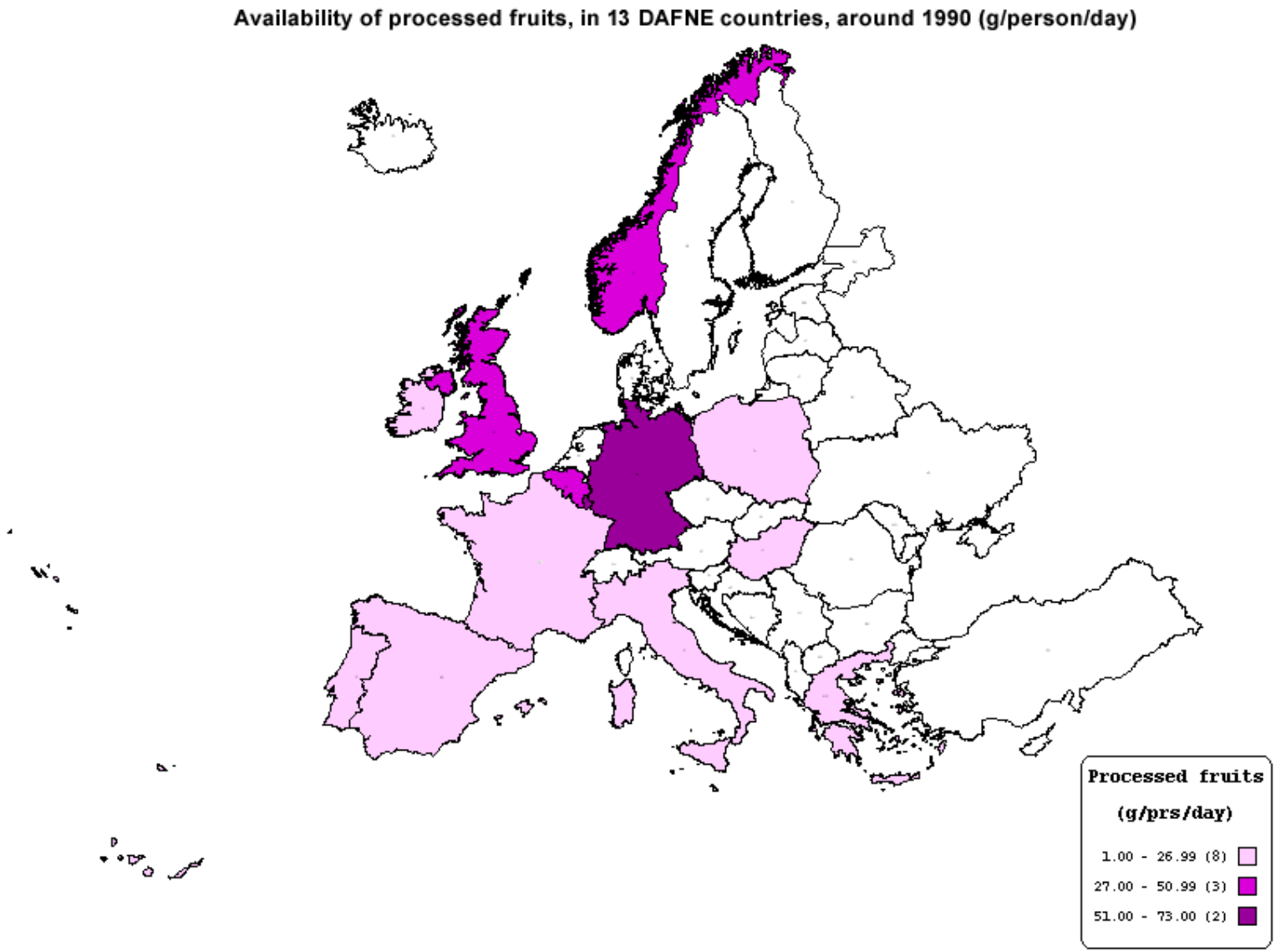
Average availability of total added lipids by type in the DAFNE countries, circa 1998 (g/person/day)*



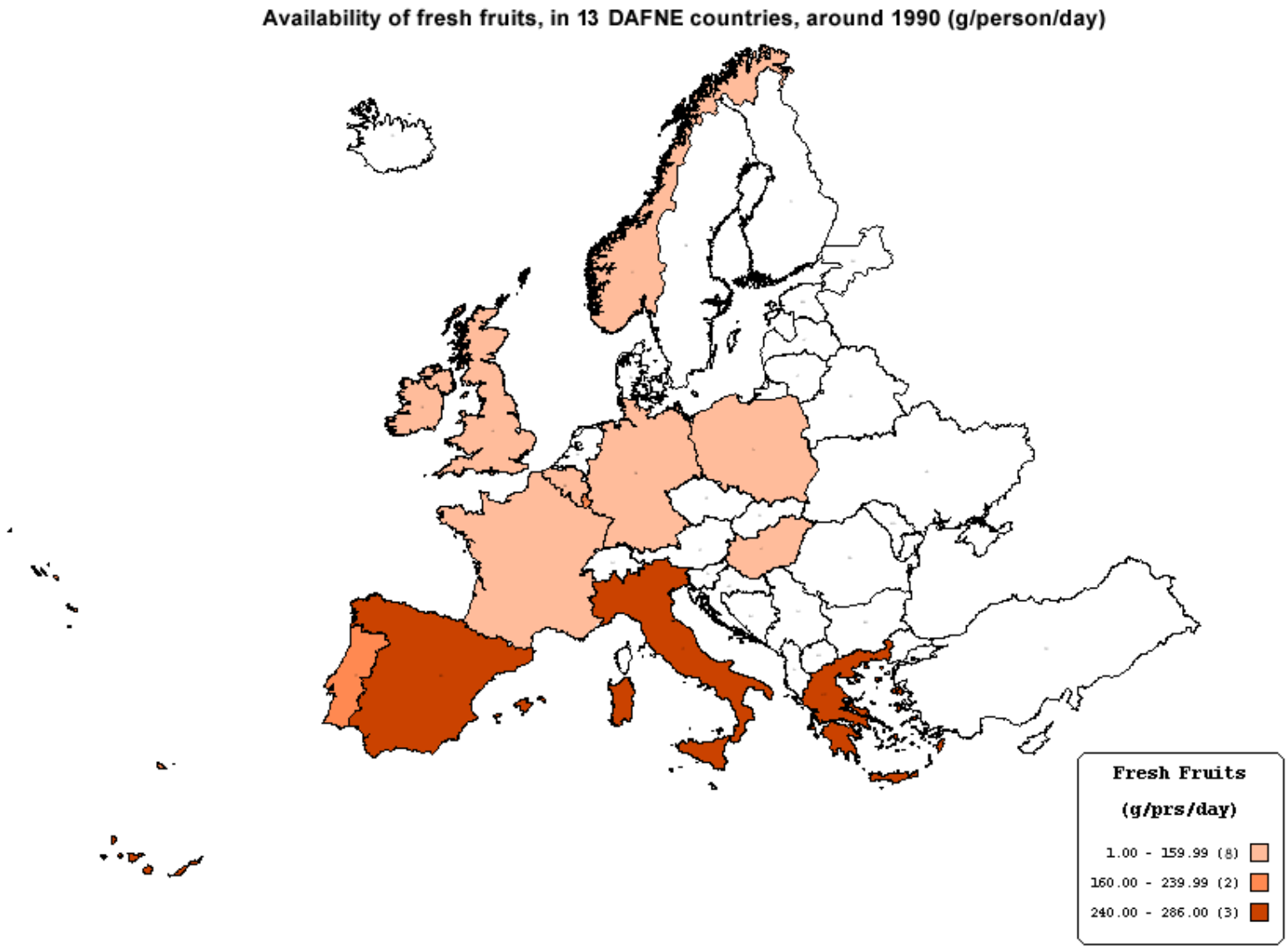
* In France data were collected in 1991

Source: The DAFNE databank (www.nut.uoa.gr)

DAFNE - Data Food Networking



DAFNE - Data Food Networking

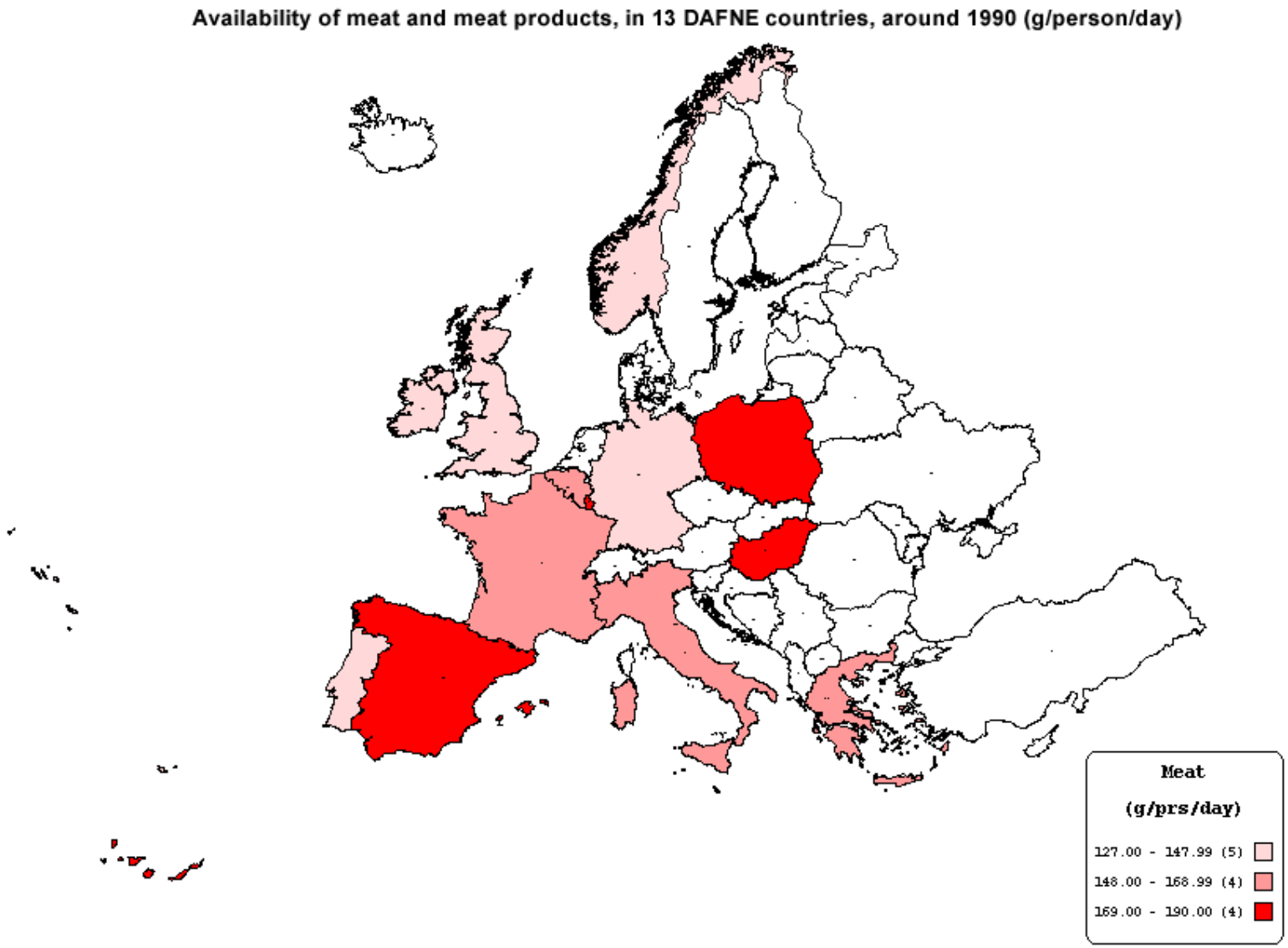


DAFNE - Data Food Networking

Percentage of low consumers

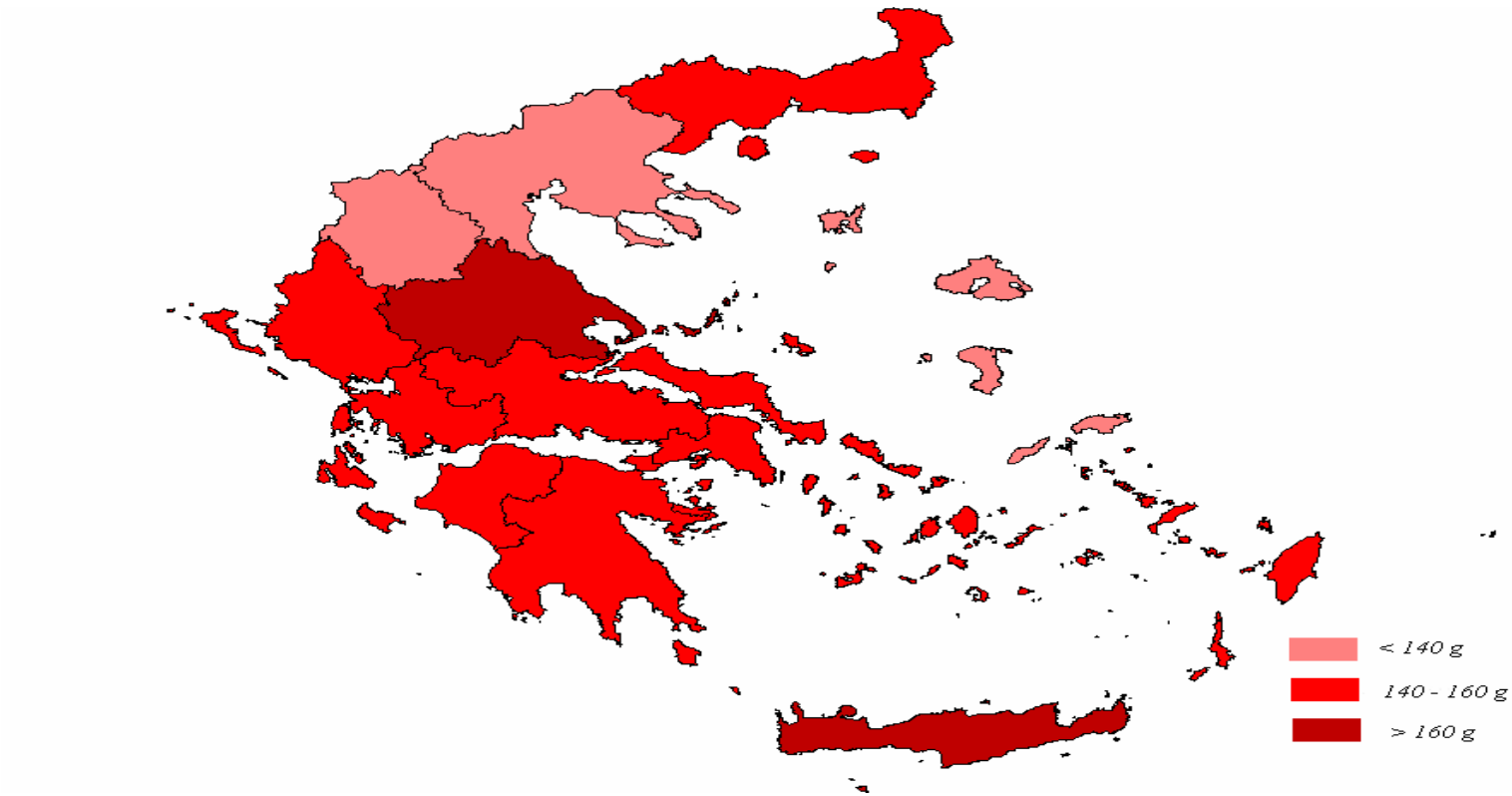
Countries	Fruit < 150 g/p/day	Vegetable < 250 g/p/day
Belgium	68	76
France	59	71
Germany	45	88
Greece	30	50
Hungary	66	76
Italy	34	71
Luxembourg	41	83
Norway	69	93
Poland	81	75
Portugal	55	83
Rep. of Ireland	74	80
Spain	30	72
United Kingdom	70	78

DAFNE - Data Food Networking



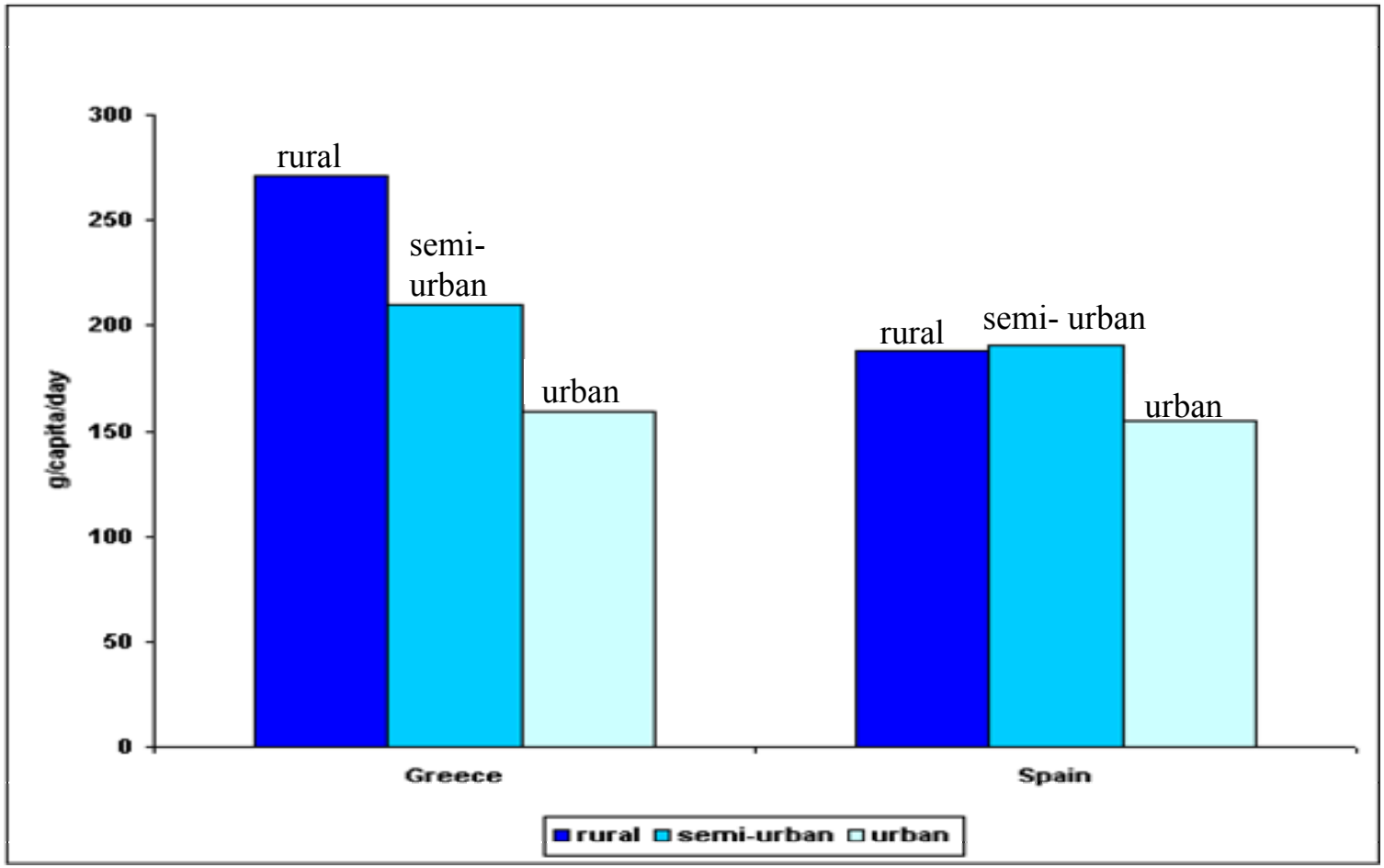
DAFNE - DAta Food NEtworking

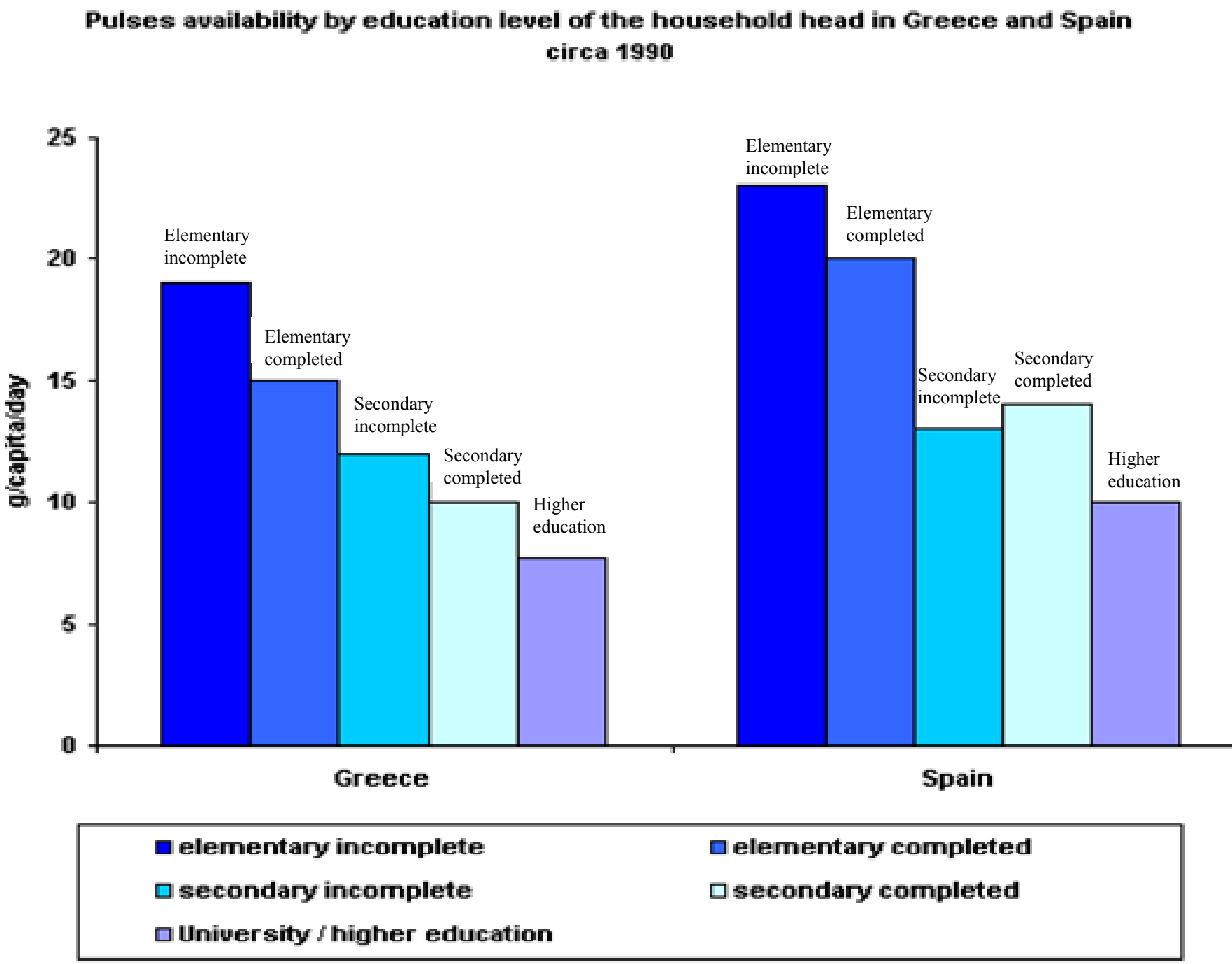
Meat availability in Greece



Food availability by locality

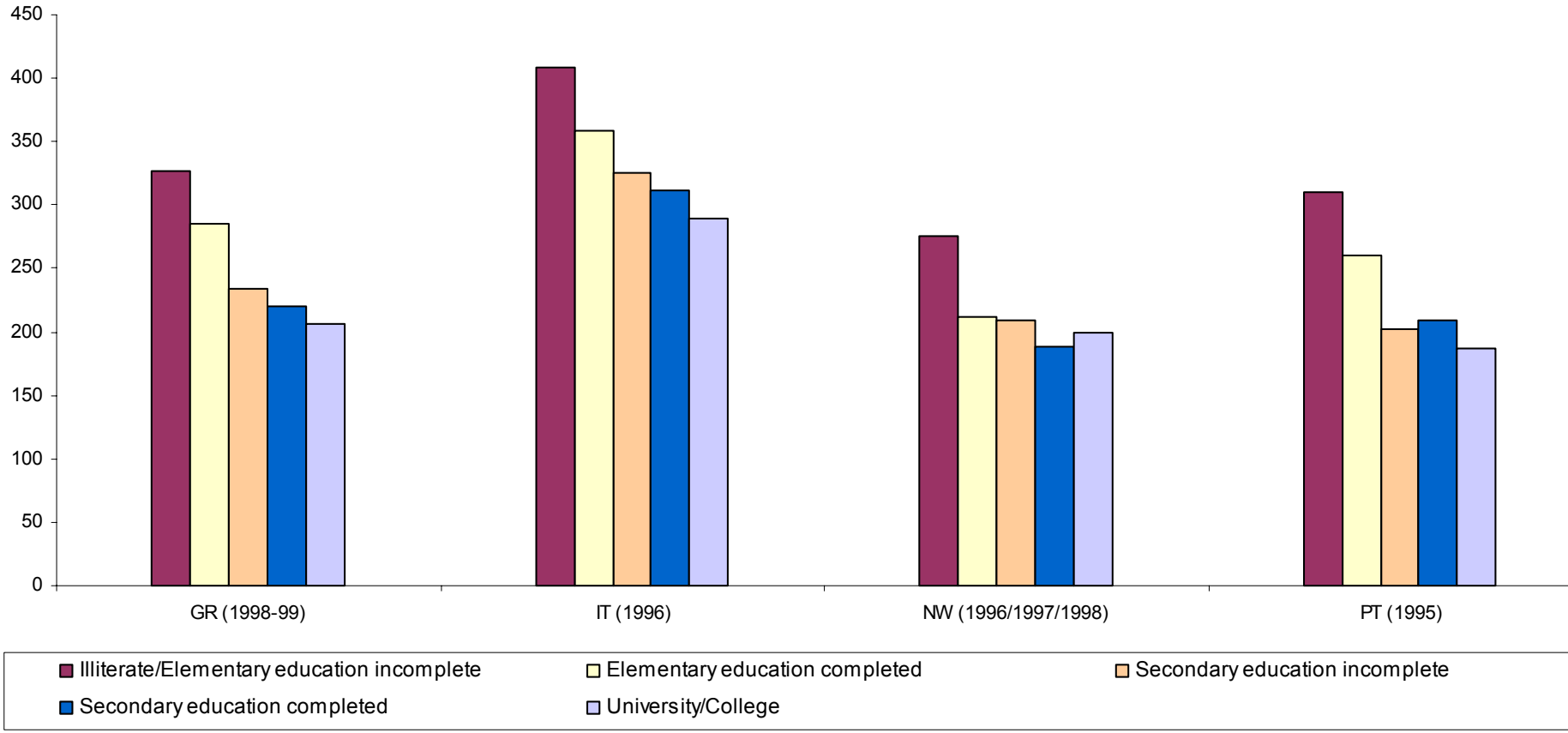
Bread availability by degree of urbanization in Greece and Spain




Pulses availability by education level of the household head in Greece and Spain
circa 1990
g/capita/day
25
20
15
10
5
0
Elementary incomplete
Elementary completed
Secondary incomplete
Secondary completed
Higher education
Elementary incomplete
Elementary completed
Secondary incomplete
Secondary completed
Higher education
Greece
Spain
elementary incomplete
elementary completed
secondary incomplete
secondary completed
University / higher education

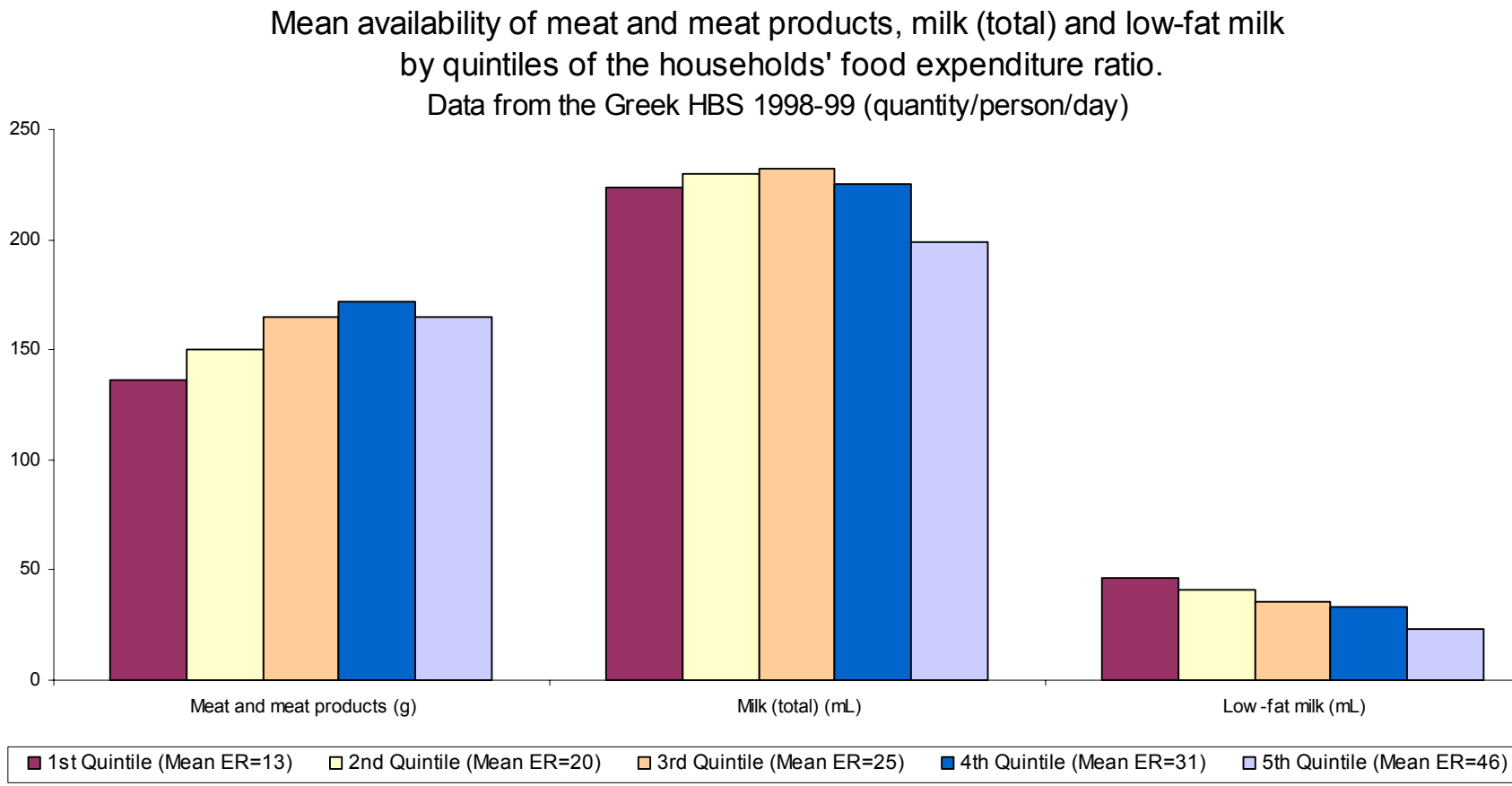
Food availability by education

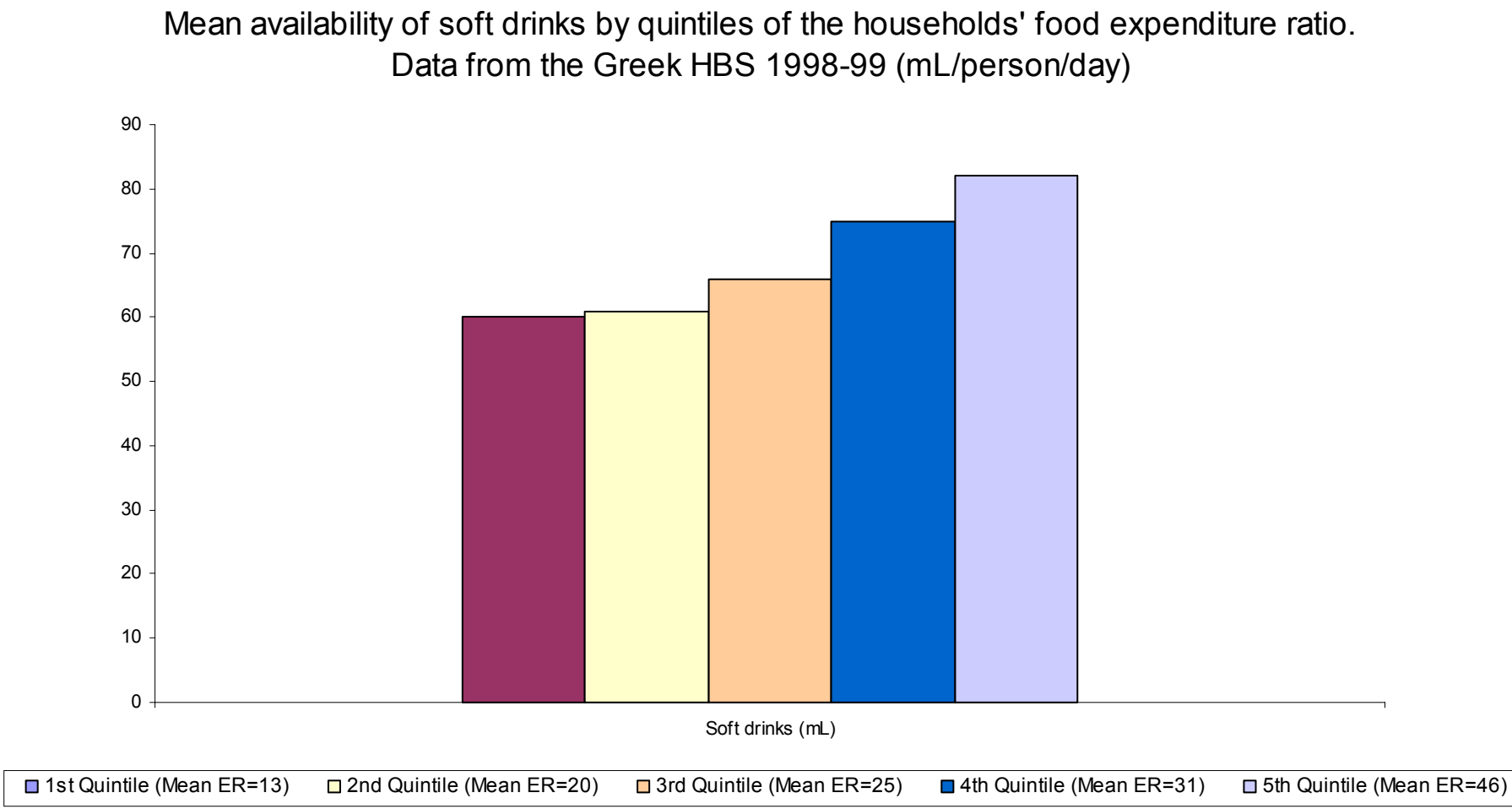
Mean availability of cereals by education level of household head (g/person/day)



Source: The DAFNE databank (www.nut.uoa.gr)

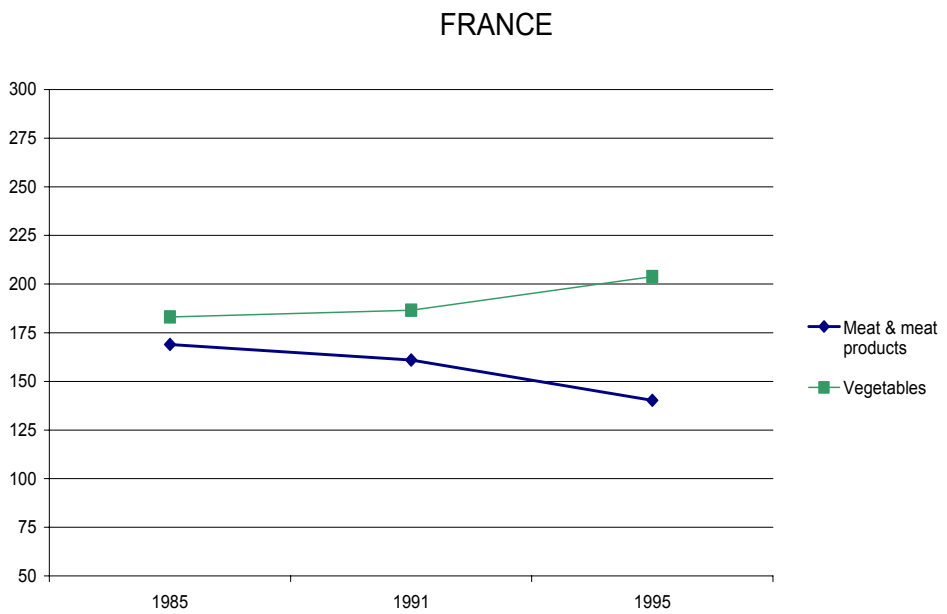
Food expenditure

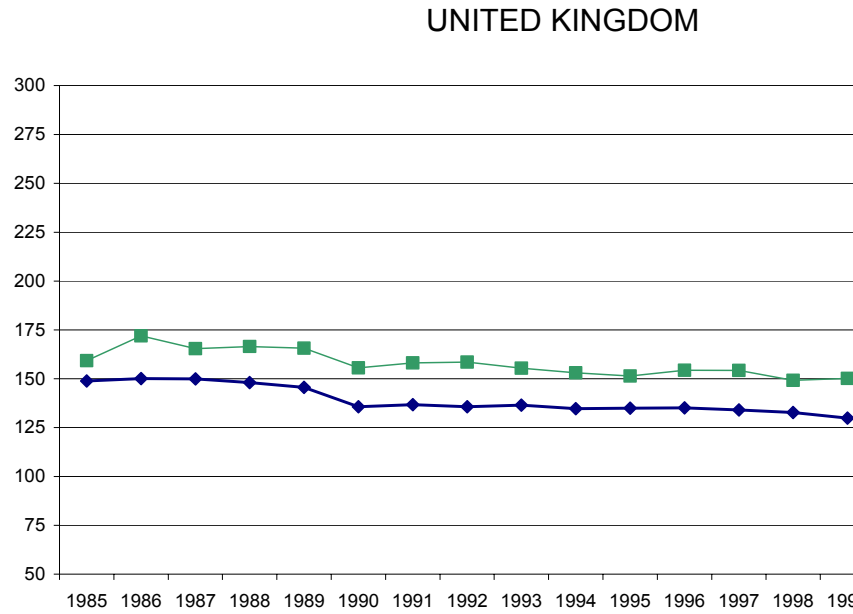

Mean availability of meat and meat products, milk (total) and low-fat milk by quintiles of the households' food expenditure ratio.
Data from the Greek HBS 1998-99 (quantity/person/day)
250
200
150
100
50
0
Meat and meat products (g)
Milk (total) (mL)
Low -fat milk (mL)
1st Quintile (Mean ER=13)
2nd Quintile (Mean ER=20)
3rd Quintile (Mean ER=25)
4th Quintile (Mean ER=31)
5th Quintile (Mean ER=46)


Mean availability of soft drinks by quintiles of the households' food expenditure ratio.
Data from the Greek HBS 1998-99 (mL/person/day)
90
80
70
60
50
40
30
20
10
0
Soft drinks (mL)
1st Quintile (Mean ER=13)
2nd Quintile (Mean ER=20)
3rd Quintile (Mean ER=25)
4th Quintile (Mean ER=31)
5th Quintile (Mean ER=46)

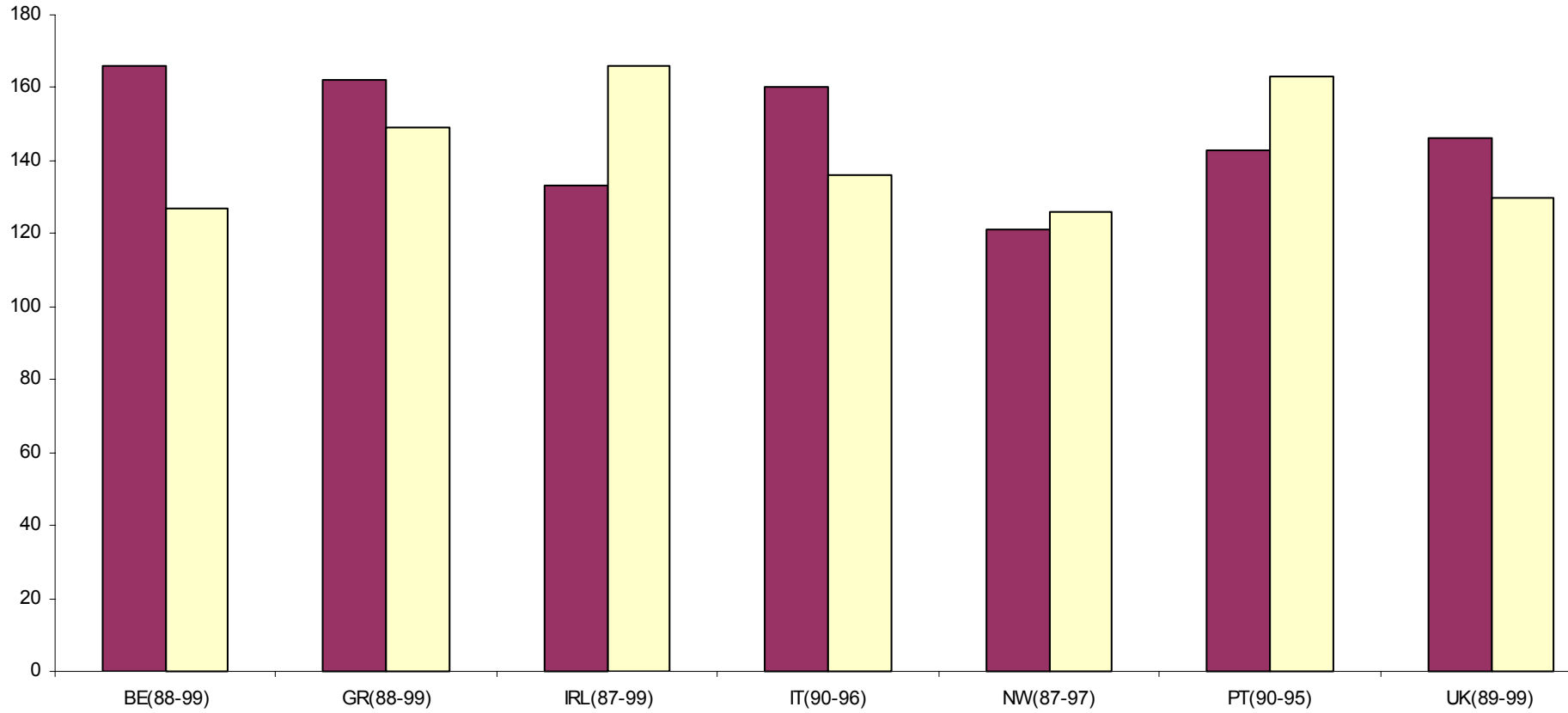
Overtime trends

Overtime trends in the mean availability of meat and vegetables (g/person/day) in two DAFNE countries



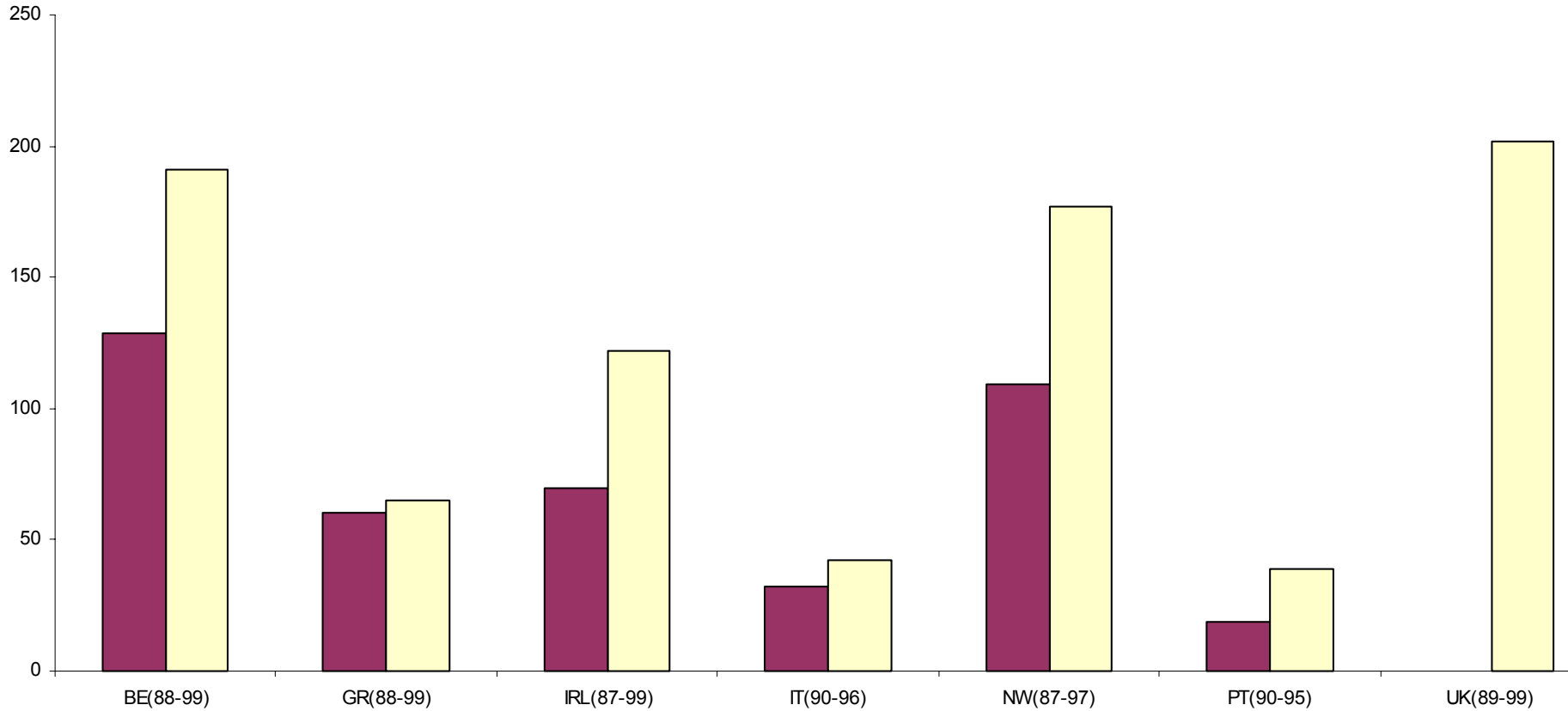


Mean availability (g/person/day) of meat and meat products by country and year.



Source: The DAFNE databank (www.nut.uoa.gr)

Mean availability (mL/person/day) of soft drinks by country and year.



Source: The DAFNE databank (www.nut.uoa.gr)

Wishing to retrieve information?

Visit our web site at:

www.nut.uoa.gr

The DAFNE-Software (*DafneSoft* v2.0)
can be freely downloaded at:

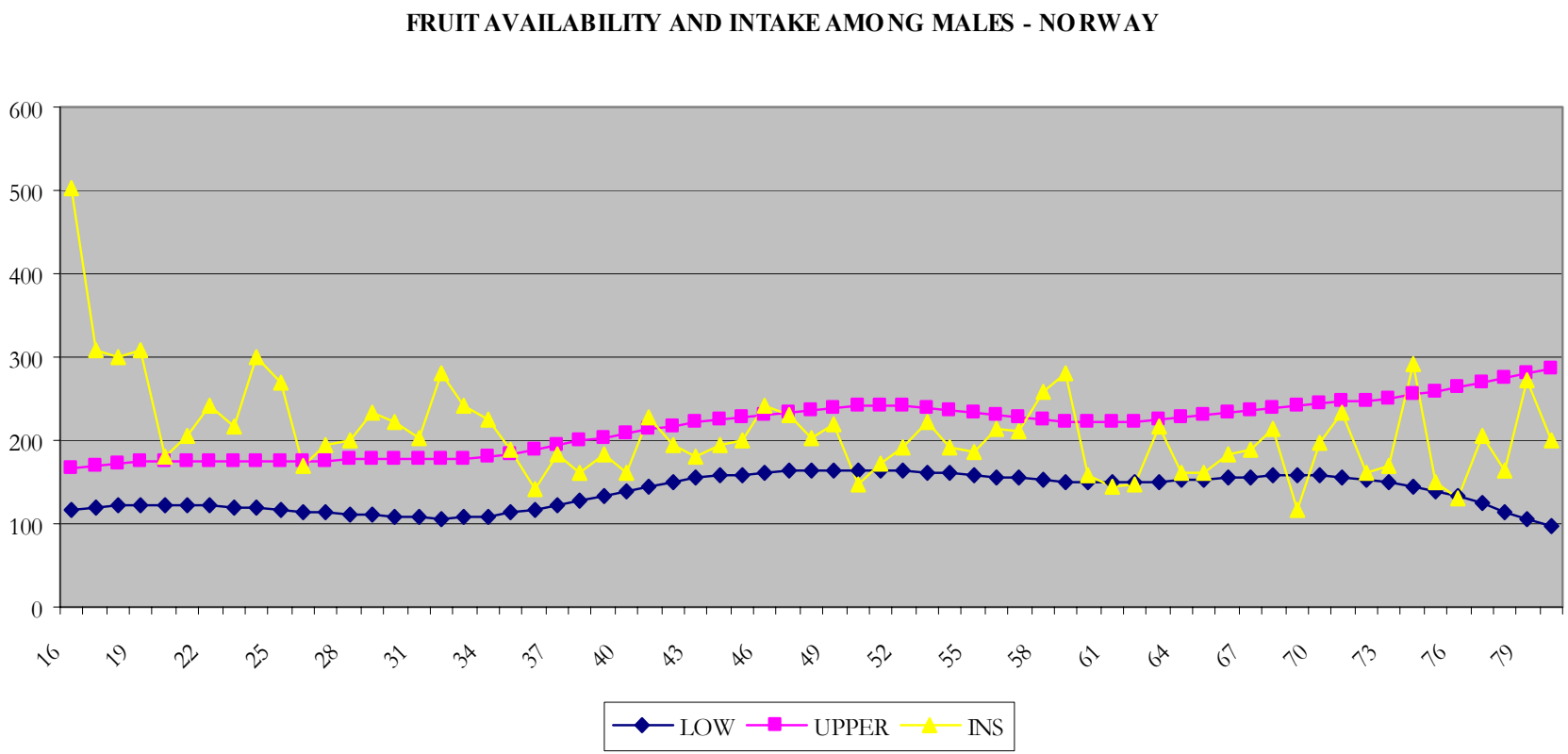
www.nut.uoa.gr

QUALITY ASPECTS

Quality Aspects: Data Compatibility

To evaluate whether household budge and food consumption surveys can converge, given the limitations and inconsistencies present in both, in order to describe the dietary habits of the studied population

DAFNE – Data Food Networking



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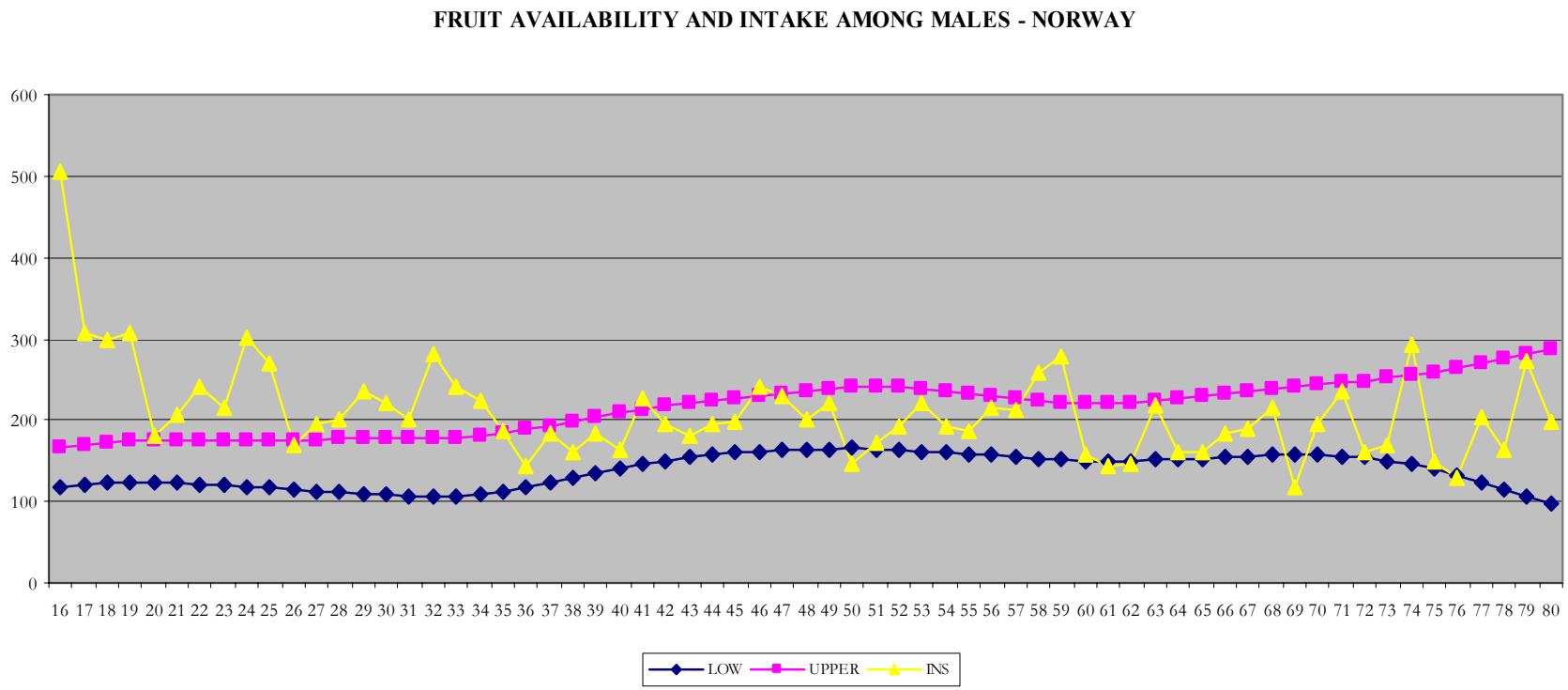

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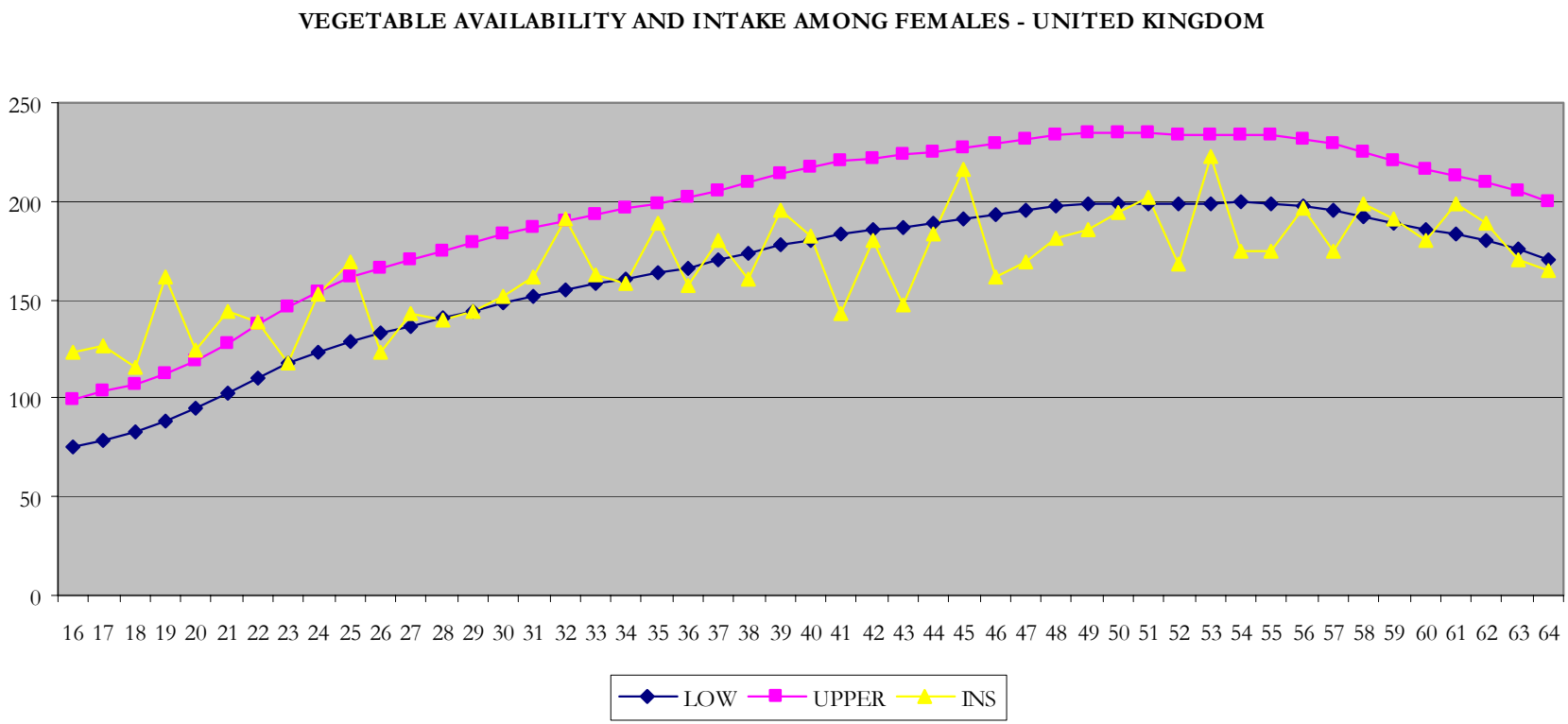

Results

Pearson coefficients of mean daily individual values (in g) of principal food groups, evaluated through HBS and INS ar expressed in percent of total daily dietary intake (in g).

Cereals	**0,57**
Meat and meat products	**0,82**
Fish and seafood	**-0,04**
Milk and milk products	**0,96**
Total added lipids	**0,42**
Starchy roots (potatoes)	**0,74**
Pulses	**0,68**
Vegetables	**0,91**
Nuts	**0,44**
Fruits	**0,93**

National Nutrition Policy Committee – Greek Ministry of Health

GOALS

- Reduce obesity in childhood
- Increase the consumption of vegetables and legumes
- Reduce meat consumption and increase fish consumption
- Prudent diet in mass catering
- Food safety, quality and consumers' protection