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Non-market valuation in France

An overview of the research activity

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Forthcoming in Revue d'Economie Politique

Abstract

A selection of articles presented in Nantes (France) at the first edition of WONV (Workshop on Non-Market Valuation) will be published in a special issue of *Revue d'Economie Politique*. In this introductory article, we provide an overview of the articles involving French institutions that were published between 2002 and 2013. We find that (a) the number of published articles tends to increase, (b) stated preferences preference methods are more often employed than revealed preference methods and (c) recreational/landscape goods are the most valued goods.

JEL classification: Q51

Keywords: WONV; non-market valuation; stated preferences; revealed preferences

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Introduction

Many French universities have been active in the field of non-market valuation over the past two decades including the University of Aix-Marseille, Bordeaux, Lyon, Montpellier, Nantes, Paris, Rennes, Rouen, Strasbourg, Toulouse and Versailles. Several institutes have also been active in this field, including the French National Institute for Agricultural Research (INRA), the National Center for Scientific Research (CNRS), and the National Research Institute of Science and Technology for Environment and Agriculture (IRSTEA).

A few “workshops”¹ have been organized in France. Some focused on a specific method. For instance, the Contingent Valuation (CV) was the main focus of the workshops organized in Marseille in 1997² and 2003, and Paris in 2007 in memory of Brigitte Desaignes who greatly contributed to the use and development of this method in France. On the other hand, some workshops focused on a specific good, like the workshop in Nancy in 2006 on forestry valuation. Finally, some workshops focused on policy applications. The French Ministry of Ecology, Sustainable Development and Energy organizes annual workshops on non-market valuation, which involves a large audience, including policy makers and people working in the private sector. The first edition was organized in 2010 shortly after the principle of “ecological prejudice” (“prejudice écologique”) was recognized. The third issue was devoted to the use of these methods by policy makers and highlighted the need to improve the reliability of these methods³.

A series of annual Workshops On Non-Market Valuation (WONV) will be conducted in France in an attempt to (i) create a network of researchers that will meet every year (including worldwide experts) and (ii) provide a forum for dissemination of high quality papers presenting recent developments in theoretical and empirical analysis in the field of non-market valuation. This series of workshops will involve both stated preference methods, including the CV and the Choice Experiment (CE) methods, and revealed preference methods, including the Travel Cost (TC) and the Hedonic Pricing (HP) methods. In addition, it will not focus on a specific type of non-market good (environment, agriculture, health, transport, education, etc...). Besides, the workshops will be research oriented. To this end, collaboration with academic journals will be encouraged. Special issues will be published, as was the case after the CV workshop in Marseille in 1997 with *Economie Publique/Public Economics*⁴ (Gastaldo and Luchini [1998]), the CV workshop in Paris with *Revue d'Economie*

¹ The term “workshop” is to be understood in a broad sense

² This workshop, organized by Louis-André Gérard-Varet, Ghislain Geniaux and Stéphane Luchini, was probably the first workshop dealing with stated preferences organized in France

³ The editorial of the report points out (p 5): *Comme l'a souligné en conclusion Michel Badré, président de l'Autorité environnementale, les méthodes de monétarisation permettent de mieux intégrer les coûts environnementaux dans les choix des acteurs, mais elles doivent encore gagner en lisibilité et en robustesse pour que les décideurs se les approprient davantage.* The full report is available at <http://www.developpement-durable.gouv.fr/IMG/pdf/ED78.pdf>

⁴ <http://economiepublique.revues.org/1815>.

*Politique*⁵ (Rabl [2007]) and the forestry workshop in Nancy with *Journal of Forest Economics* (Stenger *et al.* [2009])⁶.

The first edition⁷ of WONV was organized on 24-25th June 2013 at the University of Nantes (see <https://sites.google.com/site/nonmarketvaluation/first-edition-nantes-2013>). About two thirds of the participants were affiliated to French institutions, including universities (e.g., University of Clermont-Ferrand, Nantes, Rennes, Rouen, Versailles, Paris, Toulouse) and institutes (e.g., INRA, IRSTEA). The other third were affiliated to foreign (e.g., University of Maryland) or international institutions (e.g., OECD). Students presenting a paper received a travel grant thanks to the support of the European Association for Environmental and Resource Economists (EAERE). Regarding the methods, both the stated preference and revealed preference methods were presented. Alternative approaches were also presented, such as the life satisfaction approach. In addition, a high variety of goods were valued.

Regarding the collaboration with academic journals, the editors of “Revue d’Economie Politique” agreed to consider a refereed set of selected papers from the workshop for a special issue of the journal. The special issue is composed of six articles. The first four articles deal with important methodological issues (strategic behavior, cognitive burden, experimental design and amount of information) that should be considered when using choice modelling approaches while the last two articles are more policy oriented: (1) Pere Riera and Olga Manrique test in a lab experiment whether people engage in strategic behavior when the valuation exercise (here a grouping exercise) is not incentive compatible. (2) Olivier Beaumais, Dominique Prunetti, Anne Casabianca and Xavier Pieri employ a latent-class ordered logit model in a survey in which people provide information on their ability to rank the different alternatives. (3) Adan Martinez-Cruz uses a Monte-Carlo simulation to study the consequences of a mismatch related to heterogeneity between the questionnaire and the statistical treatment. (4) Elodie Brahic and Tina Rambonilaza test the impact of information on welfare estimates. (5) Dorothee Labarraque, Sébastien Roussel and Léa Tardieu account for ecosystem services in infrastructure constructions (e.g. road). Finally, (6) Pierre-Alexandre Mahieu, Hermann Donfouet and Bengt Kriström explore whether people who are living close to a nuclear plant in France care about the age of the plant and its size using OECD data.

The rest of our introduction provides the first overview of the non-market valuation in France by collecting publications involving French institutions. Our main results suggest that:

- Stated preferences preference methods are more often employed than revealed preference methods.
- Recreational/landscape goods are the most valued goods.
- The number of published articles keeps increasing, although there are important variations through the years.

⁵ <http://www.cairn.info/revue-d-economie-politique-2007-5.htm>

⁶ <http://www.sciencedirect.com/science/journal/11046899/15/1-2>

⁷ The second edition is organized at the Aix-Marseille School of Economics on 25-26th June 2014 by Dominique Ami, Frédéric Aprahamian, Olivier Chanel, Emmanuel Flachaire and Stéphane Luchini. More information can be found here: <http://lagv.idep-fr.org/afse/presentation>

- “Environmental and Resource Economics”, “Economie et Statistique”, “Revue d’Economie Régionale et Urbaine” and “Ecological Economics” are the most popular journals in terms of number of valuation articles.

We also collected information about England, Germany, Italy, Spain and Sweden for comparison purposes. Our main results suggest that:

- The number of published articles is higher in France than in Italy, but is lower than in England, Germany, Spain and Sweden.
- The number of CV studies is comparable in France to Sweden and Germany, but the number of CE is much lower.

Construction of the database for France

Firstly, we used the search tool provided by the *ISI Web of Knowledge* website (see Laurans *et al.* [2013 for a similar procedure]). We found that 132 articles matched the three following criteria: 1) the expressions “contingent valuation”, “choice experiment”, “travel cost”, and/or “hedonic pricing” appear in the title, abstract and/or the keywords list⁸, 2) the term “France” appears in the affiliation (or co-affiliation) address of at least one author, and 3) the article has been published between January 2002 and December 2013. We chose 2002 as starting point because very few articles were published before 2002⁹. Papers published in 2014 were not considered (e.g. Rinaudo and Aulong [2014]), including online first publications.

Secondly, we browsed the articles to exclude papers involving no empirical application, mainly discussion papers (Luchini [2002]), guidelines (Riera *et al.* [2012b]), review (Faburel [2009]) and simulation papers (Aprahamian *et al.* [2008]). We also excluded papers which were not related to non-market valuation. We obtained 77 articles.

Thirdly, we asked the authors of the articles we browsed if they knew other references, since most of the French journals are not referenced in ISI Web of Knowledge (e.g. *Revue économique*). We also used google scholar to find some of the missing references. For instance, we entered the expressions: “France” and “évaluation contingente” (“contingent valuation”) in the search tool bar. In total, we obtained 63 new references, which resulted in a final sample of 143 articles.

Fourthly, for each of these 143 papers, we identified the good valued, the method used (CV, CE, TC and HP) and the elicitation question employed (for CV only). A couple of papers used several methods or elicitation questions. For instance, Dachary-Bernard and Rambonilaza ([2012]) employed both CE and the CV methods to value a landscape (Monts d’Arrée).

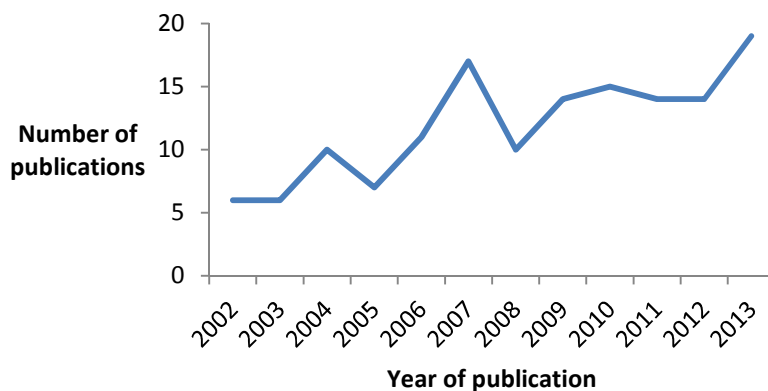
Evolution of the number of published articles

⁸ Papers using the production function method (Abildtrup *et al.* [2013b, Fiquepron *et al.* [2013]) were not considered.

⁹ Articles published before 2002 include Stenger and Willinger [1998]) and Rozan *et al.* [1997])

Figure 1 shows that the number of publications tends to increase in the long run, although there are variations in the short run. In 2007, 2008 and 2009, 17, 10 and 14 articles were published respectively¹⁰.

Figure 1 Evolution of the number of publications between January 2002 and December 2013

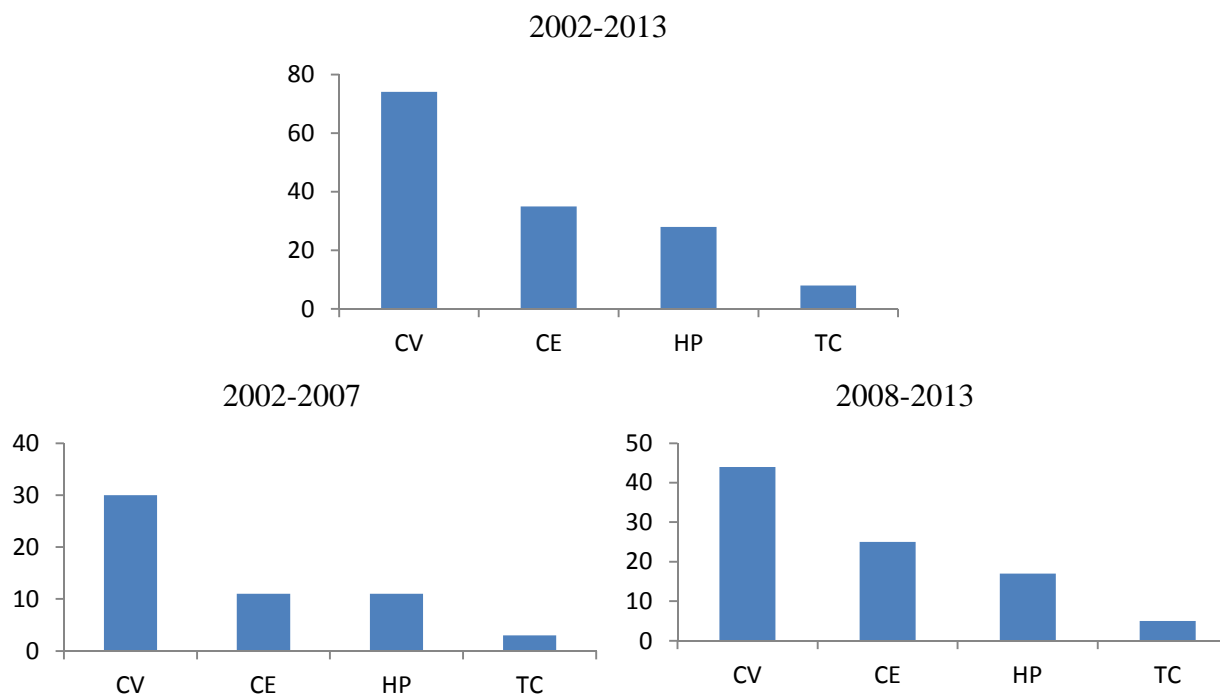


Type of method

The results are similar between the two periods: most of the empirical applications are based on stated preference methods rather than on revealed preference methods (72.5% and 77.67% of the applications in periods 1 and 2 respectively). In stated preference studies, CV is the most popular approach; while in revealed preference studies, HP is the most popular procedure (see Figure 2).

¹⁰ The peak in 2007 is partly due to the special issue that was published in memory of Brigitte Desaignes in *Revue d'Economie Politique*.

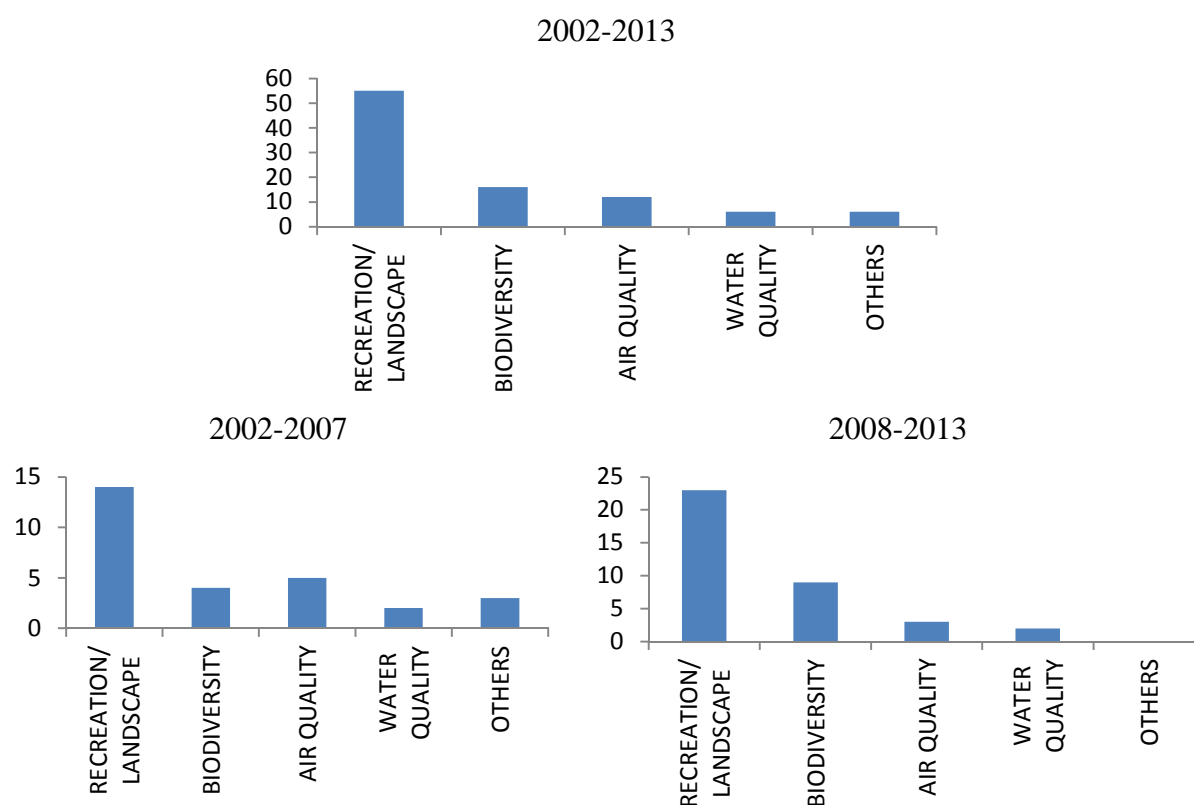
Figure 2 Number of publications for each of the methods



Types of goods

Again, the results are similar between the two periods: the good valued is related to the environment in 65.0% of the articles in period 1 and 61.2% of the articles in period 2. Other goods are mainly related to health. Figure 3 illustrates the types of environmental goods that are valued: goods or services related to recreation and/or landscape are the most valued goods.

Figure 3 Types of goods valued



Methodological issues for CV

The most employed elicitation approaches for CV studies are in order: the Open-Ended (OE) question (n=22), the Double-Bounded Dichotomous Choice (DBDC) (n=17), the Payment Card (PC) (n=14), the Single-Bounded Dichotomous Choice (SBDC) (n=11), the Two-Way Payment Ladder (TWPL)¹¹ (n=7), the dichotomous choice with several follow-up dichotomous choice questions, hereafter called Multiple Dichotomous Choice (MDC) as opposed to the DBDC and SBDC) (n=6), the Vickrey Auction (VA) (n=3) and the Randomized Card Sorting (RCS)¹² (n=1).

OE is the most employed format, despite its shortcomings. However, OE is seldom used alone: it is often compared with other formats, or combined with them. For instance, Amigues *et al.* [2002]) compared OE and SBDC, while Garcia *et al.* [2009]) combined these two formats. Furthermore, OE presents some advantages over the other formats, such as the avoidance of the anchoring effect (Andersson [2013]). Finally, the use of OE is relatively stable over years: in each of the two considered periods (2002-2007 and 2008-2013), it is employed in 11 studies.

¹¹ TWPL is a variant of the PL in which the respondents are faced with a series of ordered amounts and they indicate all the amounts they are sure they would pay, the amounts they are sure they would not pay; and the amounts they are unsure about.

¹² Individual amounts are written on separate cards. The cards are shuffled and are randomly drawn one at a time. The respondent is asked to sort them into one of three categories: amounts they are sure they would pay; amounts they are sure they would not pay; and amounts they are unsure about.

Many CV studies consider methodological issues, such as the hypothetical bias (Jacquemet *et al.* [2013]), the uncertainty over the WTP (Luchini and Watson [2013]), the discrepancy between the WTP and the WTA (Flachaire *et al.* [2013]), the starting point bias (Flachaire and Hollard [2007b]), the role of information on WTP (Chanel *et al.* [2007])¹³, the sample selection (Garcia *et al.* [2009]) and the euro illusion (Mahieu and Riera [2010]). Some studies consider several issues simultaneously: for instance, Flachaire and Hollard's [2007b]) range model consider both the starting point bias issue and the uncertainty one. Other issues are considered in CE, like the status quo bias (Bonnieux and Carpentier [2007]) or the experimental design (Riera *et al.* [2012a]).

Journals

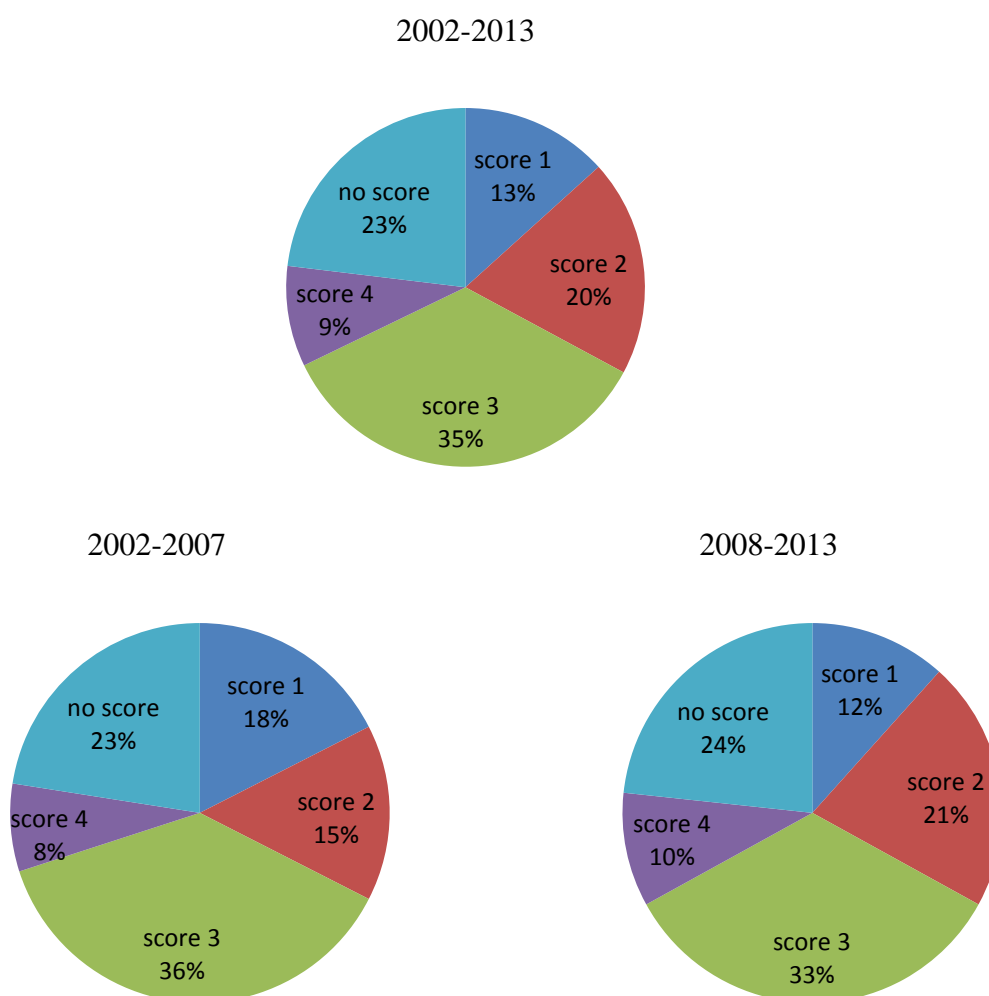
When excluding "Revue d'Economie Politique", the most popular journals are, in order, "Environmental and Resource Economics" (n=10), "Economie et statistique" (n=9), "Revue d'Economie Régionale et Urbaine" (n=9), "Ecological Economics" (n=8), "Health Economics" (n=5), "Revue d'Etudes en Agriculture et Environnement" (n=5) and "Revue Economique" (n=4).

Every two or three years, CNRS rates a large set of economics and/or management journals. Each of the selected journals is rated from 1 to 4, where 1 is the highest score and 4 is the lowest score. Some specialized journals (e.g. Journal of Forest Economics) are not included in this rating. Figure 4 displays the rate of the journals (see Appendix A), based on the 2011 edition of the CNRS rating¹⁴.

¹³ See also Protière *et al.* [2004])

¹⁴ <http://www.gate.cnrs.fr/IMG/pdf/CNRS-Revues-categorisation-2011-2.pdf>

Figure 4 Journals rating



Comparison between countries

We compare England, France, Germany, Italy, Spain and Sweden, in a systematic review using ISI Web of knowledge. Firstly, we focus on the type of method and choose the following criteria for the articles selection: 1) the expressions “contingent valuation”, “choice experiment,” “travel cost,” and/or “hedonic pricing” appear in the title, abstract and/or the keywords list, 2) the term “England”, “France”, “Germany”, “Italy”, “Spain” and “Sweden” appears in the affiliation (or co-affiliation) address of at least one of the authors, and 3) the article has been published between January 2002 and December 2013, 4) the journal belongs to the “Web of Knowledge” category “Economics”. Criterion 4) contributes to exclude studies that have nothing to do with non-market valuation¹⁵. Table 1 shows that the number of published articles is higher in France than in Italy, but is lower than in England, Germany, Spain and Sweden. Results also suggest that CV is the most popular approach in every

¹⁵ We did not browse the articles

country, and that the proportion of CE is much lower for France (0.16=16/69) than for Germany (0.34), Spain (0.28), England (0.35) and Sweden (0.34).

Secondly, we consider the type of good to be valued by adding a criterion: the expressions related to the type of good (e.g., “air”) must appear in the title, abstract and/or the keywords list. Results suggest that there are differences between countries. For instance, only one study is found to be related to “water” for France, while six studies are found for Germany. Thirdly, we consider the methodological issues that are tackled in the CV studies. Among other things, results suggest that the research activity on the anchoring effect is active in France.

Table 1. Number of published articles found in a systematic review performed in the ISI web of knowledge

	Country					
	France	Germany	Italy	Spain	Sweden	England
Keywords in the search tool: country AND						
“contingent valuation”	53	55	36	88	55	162
“choice experiment”	11	32	8	38	31	95
“travel cost method”	1	2	3	6	0	5
“hedonic pricing”	4	4	5	2	4	6
Total	69	93	52	134	90	268
Keywords: “contingent valuation” OR “choice experiment” OR “travel cost method” OR “hedonic pricing” AND:						
“recreation” OR “recreative” OR “landscape”	8	6	12	15	3	16
“air”	3	1	1	2	5	6
“water”	1	4	6	13	5	19
“biodiversity” OR “ecosystem”	5	13	8	10	5	23
Keywords: “contingent valuation” AND						
“hypothetical bias”	6	6	0	3	9	8
“anchor” OR “anchoring” OR “starting point”	7	3	1	5	2	9
“uncertain” OR “uncertainty”	6	4	3	7	11	11
“protest”	3	5	2	2	0	6
“willingness to accept” AND “willingness to pay”	3	4	0	3	0	6
“bias”	22	25	8	23	22	60

Appendix A Valuation articles published between 2002 and 2013 involving at least one author working in a French institution

Date	Authors	Journal	CNR S Score	Good related to environment	Type of environmental good	Method	Elicitation approach for SP surveys
2002	Amigues <i>et al.</i>	Ecol Econ	1	Yes	BIODIV	CV	DC-OE
2002	Armand <i>et al.</i>	B Fr Pech Piscic	-	Yes	RECR/LAND	CV	OE
2002	Bonnieux and Rainelli	Econ Stat	3	Yes	WATER QUALITY	TC	
2002	Bonnieux and Desaignes	Rev Econ Reg Urbaine	3	Yes	OTHER	CV	OE
2002	Faburel	Cah Scientifique Transport	4	Yes	OTHER	CV	DBDC-OE
2002	Scherrer	Econ Stat	3	Yes	RECR/LAND	CV	OE
2003	Appéré and Bonnieux	R Eco Po	3	Yes	RECR/LAND	CV-TC	PC
2003	Bonnetain	J Urban Econ	1	No		HP	
2003	Bonnieux and Rainelli	Rev Econ Reg Urbaine	3	No		TC	
2003	Caparros <i>et al.</i>	Environ Resour Econ	2	Yes	RECR/LAND	CV	DBDC
2003	Dupraz <i>et al.</i>	Environ Resour Econ	2	Yes	BIODIV	CV	Ns
2003	Luchini <i>et al.</i>	Health Econ	1	No		CV	PC
2004	Appéré	Rev Econ Reg Urbaine	3	Yes	RECR/LAND	CV-TC	OE
2004	Armantier and Treich	J Risk Uncertainty	-	No		CV	DBDC-OE
2004	Dachary-Bernard	Econ Stat	3	Yes	RECR/LAND	CE	
2004a	Chanel <i>et al.</i>	Rev Econ	3	Yes	AIR QUALITY	CV	DBDC-OE-PC
2004b	Chanel <i>et al.</i>	Rev Econ	3	No		CV	PC
2004	Lecat	Rev Econ Reg Urbaine	3	Yes	RECR/LAND	HP	

2004	Mataria <i>et al.</i>	J Health Econ	1	No		CV	PC
2004	Protière <i>et al.</i>	Soc Sci Med	1	No		CV	TWPL
2004	Rozan	Environ Resour Econ	2	Yes	AIR QUALITY	CV	MDC-OE
2004	Saulnier	R Eco Po	3	Yes	AIR QUALITY	HP	
2005	Cavailhès	Econ Stat	3	Yes	RECR/LAND-AIR QUALITY ¹	HP	
2005	Dumas <i>et al.</i>	Rev Econ Reg Urbaine	3	Yes	RECR/LAND	HP	
2005	Fautrel <i>et al.</i>	J Rheumatol	-	No		CV	PC
2005	Fautrel <i>et al.</i>	J Econ Medicale	4	No		CV	PC
2005	Haughney <i>et al.</i>	Eur Resp J	-	No		CE	
2005	Rinaudo <i>et al.</i>	Water Sci Technol	-	Yes	WATER QUALITY	CV	
2005	van den Berg <i>et al.</i>	Health Econ	1	No		CV	DC-OE
2006	Bienabe and Hearne	Forest Econ	-	Yes	RECR/LAND-BIODIV	CE	
2006	Birol <i>et al.</i>	Ecol Econ	1	Yes	OTHER	CE	
2006	Bonnieux <i>et al.</i>	Rev Forest Fr	-	Yes	RECR/LAND-BIODIV	CE	
2006	Chanel <i>et al.</i>	Appl Econ Lett	4	Yes	AIR QUALITY	CV	PC-OE
2006	Flachaire and Hollard	Rev Econ	3	Yes	RECR/LAND	CV	DBDC
2006	Flachaire and Hollard	Land Econ	2	Yes	RECR/LAND	CV	DBDC
2006	Gravel <i>et al.</i>	Appl Econ	2	No		HP	
2006	Lockshin <i>et al.</i>	Food Qual Prefer	-	No		CE	
2006	Mataria <i>et al.</i>	Health Policy	2	No		CV	PC
2006	Mollard <i>et al.</i>	R Eco Po	3	Yes	RECR/LAND	HP	
2006	Rambonilaza	Tourism Econ	-	Yes	RECR/LAND	HP	

2007	Ahamada <i>et al.</i>	Econ Publique	4	Yes	RECR/LAND	HP	
2007	Arahamian <i>et al.</i>	Am J Agr Econ	1	Yes	AIR QUALITY	CV	DC-OE
2007	Bonnieux and Carpentier	R Eco Po	3	Yes	BIODIV	CE	
2007	Brey <i>et al.</i>	R Eco Po	3	Yes	RECR/LAND	CE	
2007	Chanel <i>et al.</i>	R Eco Po	3	Yes	AIR QUALITY	CV	OE
2007	Dachary-Bernard	Cah Econ Sociologie Rurales	-	Yes	RECR/LAND	CE	
2007	Desaigues <i>et al.</i>	R Eco Po	3	Yes	AIR QUALITY	CV	DC-DBDC-OE
2007	Fautrel <i>et al.</i>	Med Decis Mak	2	No		CV	Ns
2007	Flachaire and Hollard	R Eco Po	3	Yes	RECR/LAND	CV	DBDC
2007	Flachaire and Hollard	Resour Energy Econ	2	Yes	WATER QUALITY	CV	DBDC
2007	Fritsch	Espace Géographique	-	No		HP	
2007	Lahatte <i>et al.</i>	R Eco Po	3	No		CV	TWPL
2007	Mataria <i>et al.</i>	Health Econ	1	No		CV	
2007	Mollard <i>et al.</i>	Land Use Policy	-	Yes	RECR/LAND	HP	
2007	Rambonilaza and Dachary-Bernard	Landscape Urban Plan	-	Yes	RECR/LAND	CE	
2007	Rambonilaza <i>et al.</i>	R Eco Po	3	Yes	RECR/LAND	CE	
2007	Rozan <i>et al.</i>	R Eco Po	3	No		CV	DC
2008	Abichou and Zaibet	New Medit	-	Yes	RECR/LAND	TC	
2008	Beaumais <i>et al.</i>	Rev Econ Reg Urbaine	3	Yes	OTHER	CV	OE
2008	Bono <i>et al.</i>	Econ Publique	4	Yes	RECR/LAND	HP	
2008	Bontemps <i>et al.</i>	J Appl Economet	2	Yes	AIR QUALITY	HP	
2008	Flachaire and Hollard	J Econ Behav Organ	2	Yes	RECR/LAND	CV	DBDC
2008	Flachaire <i>et al.</i>	Rech Econ Louvain	3	Yes	RECR/LAND-BIODIV	CV	DBDC

2008	Oueslati <i>et al.</i>	Rev Agr Environ Stud	4	Yes	RECR/LAND	CV	PC
2008	Remonnay <i>et al.</i>	B Cancer	-	No		CV	MDC
2008	Travers <i>et al.</i>	Econ Prevision	3	Yes	RECR/LAND	HP	
2008	Zuindeau and Letombe	Int J Environ Pollut	4	Yes	OTHER	HP	
2009	Andersson and Lindberg	Accid Anal Prev	-	No		CV	DC
2009	Baudry <i>et al.</i>	Rev Econ Reg Urbaine	3	No		HP	
2009	Bougherara and Combris	Eur Rev Agric Econ	2	Yes	OTHER	CE	
2009	Caula <i>et al.</i>	Urban For Urban Green	-	Yes	RECR/LAND	CV	MDC
2009	Cavailhes <i>et al.</i>	Cah Agric	-	Yes	RECR/LAND	HP	
2009	Cavailhes <i>et al.</i>	Environ Resour Econ	2	Yes	RECR/LAND	HP	
2009	Dekhili and d'Hauteville	Food Qual prefer	-	No		CE	
2009	Garcia <i>et al.</i>	J For Econ	-	Yes	BIODIV	CV	DC-OE
2009	Lamiraud <i>et al.</i>	Health Policy	2	No		CV-CE	PC
2009	Nauges <i>et al.</i>	Environ Dev Econ	3	Yes	WATER QUALITY	HP	
2009	Rulleau <i>et al.</i>	Econ Stat	3	Yes	RECR/LAND	CV	
2009	Schwarzinger <i>et al.</i>	J Health Econ	1	No		CV	DBDC
2009	Travers <i>et al.</i>	Econ Prevision	3	Yes	RECR/LAND	HP	
2009	Zuindeau	Ecol Econ	1	No		HP	
2010	Ammi and Peyron	Econ Publique	4	No		CE	
2010	Andersson <i>et al.</i>	Environ Resour Econ	2	No		HP	
2010	Beaumais and Appere	Ecol Econ	1	Yes	RECR/LAND	CV-TC	OE
2010	Bureau and Glachant	Econ Prevision	3	Yes	RECR/LAND	HP	
2010	Choumert and Travers	Rev Econ	3	Yes	RECR/LAND	HP	
2010	Gadaud and Rambonilaza	J For Econ	-	Yes	RECR/LAND	CV	DC

2010	Garcia and Jacob	Rev Agr Environ Stud	4	Yes	RECR/LAND	TC	
2010	Lanfranchi <i>et al.</i>	Kyklos	2	No		CE	
2010	Mahe	J Bus Ethics	2	No		CV-CE	DBDC
2010	Mahieu	Econ Bull	3	Yes	BIODIV	CV	TWPL
2010	Mahieu and Riera	Rev Econ Reg Urbaine	3	Yes	WATER QUALITY	CV	TWPL
2010	Mahieu <i>et al.</i>	Econ Bull	3	Yes	RECR/LAND	CE	
2010	Nayaradou <i>et al.</i>	Med Decis Mak	2	No		CE	
2010	Rulleau <i>et al.</i>	Rev Fr Econ	3	Yes	RECR/LAND	CE	
2010	Westerberg <i>et al.</i>	Ecol Econ	1	Yes	RECR/LAND-BIODIV	CE	
2011	Ami <i>et al.</i>	Environ Resour Econ	2	Yes	AIR QUALITY	CV	PC-OE
2011	Blazy <i>et al.</i>	Ecol Econ	1	No		CE	
2011	Desaigues <i>et al.</i>	Ecol Indic	-	Yes	AIR QUALITY	CV	RCS
2011	Donfouet <i>et al.</i>	Int J Health Care Financ Econ	2	No		CV	
2011	Garcia <i>et al.</i>	Int J Biodivers Sci Manage	-	Yes	BIODIV	CV	
2011	Gaschet and Pouyanne	Rev Econ Reg Urbaine	3	No		HP	
2011	Giergiczny <i>et al.</i>	Environ Econ	-	Yes	RECR/LAND	CE	
2011	Haninger and Hammitt	Risk Anal	-	No		CV	DBDC
2011	Jacquemet <i>et al.</i>	J Public Econ Theory	2	Yes	BIODIV	CV	VA
2011	Jacquemet <i>et al.</i>	Environ Resour Econ	2	Yes	BIODIV	CV	VA
2011	Rheinberger	Environ Resour Econ	2	No		CE	
2011	Rulleau <i>et al.</i>	Rev Agr Environ Stud	4	Yes	RECR/LAND	CV	DC
2011	Tsai <i>et al.</i>	Environ Resour Econ	2	No		HP	
2011	Voltaire <i>et al.</i>	Rev Agr Environ Stud	4	Yes	RECR/LAND-	CV	TWPL

					BIODIV		
2012	Abildtrup <i>et al.</i>	Revue Forest Française	-	Yes	RECR/LAND	CE-TC	
2012	Benjamin <i>et al.</i>	Eur J Cancer	-	No		CE	
2012	Dachary-Bernard and Rambonilaza	Land Use Policy	-	Yes	RECR/LAND	CV-CE	DC
2012	Disdier and Marette	Food Policy	3	No		CV	TWPL
2012	Fleurbaey <i>et al.</i>	Econ Stat	3	No		CV	PC-OE
2012	Havet <i>et al.</i>	Eur J Health Econ	2	No		CV	MDC
2012	Havet <i>et al.</i>	Rech Econ Louvain	3	No		CV	
2012	Mahieu <i>et al.</i>	J Environ Manage	3	Yes	WATER QUALITY	CV	TWPL
2012	Mahieu <i>et al.</i>	J Environ Plan Manage	3	Yes	BIODIV	CV	TWPL
2012	Neumann <i>et al.</i>	Health Econ	1	No		CV	DBDC
2012	Rambonilaza	Rev Agr Environ Stud	4	Yes	RECR/LAND	CE	
2012	Riera <i>et al.</i>	J For Econ	-	Yes		CE	
2012	Rulleau and Dachary-Bernard	J Socio-Econ	4	Yes	RECR/LAND	CE	
2012	Rulleau <i>et al.</i>	Tourism Manage	3	Yes	RECR/LAND	CV	
2013	Abildtrup <i>et al.</i>	Ecol Econ	1	Yes	RECR/LAND	CE-TC	
2013	Benjamin <i>et al.</i>	Econ Stat	3	Yes	AIR QUALITY	CV	MDC-OE
2013	Andersson <i>et al.</i>	Environ Resour Econ	2	No		CV ²	
2013	Andersson	Res Transp Econ	-	No		CV	OE
2013	Dachary-Bernard and Rivaud	Ocean Coast Manage	-	Yes	RECR/LAND	CE	
2013	Donfouet <i>et al.</i>	Eur J Health Econ	2	No		CV	DBDC
2013	Flachaire <i>et al.</i>	Theory and Decision	2	No		CV	OE
2013	Fleurbaey <i>et al.</i>	Health Econ	1	No		CV	PC

2013	Haywood and Koning	Rev Econ Indu	3	No		CV	MDC
2013	Jacquemet <i>et al.</i>	J Environ Econ Manage	1	Yes	BIODIV	CV	VA
2013	Krucien <i>et al.</i>	Thorax	-	No		CE	
2013	Lesur-Irichabeau	Can J Agric Econ	3	No		HP	
2013	Luchini and Watson	J Econ Psychologic	3	No		CV	DBDC
2013	Michaud <i>et al.</i>	Eur Rev Agric Econ	2	No		CE	
2013	Rulleau and Bernard	Econ Stat	3	Yes	RECR/LAND	CE	
2013	Rulleau and Rey-Valette	J Environ Econ Manage Policy	-	Yes	RECR/LAND	CV	DC
2013	Travers <i>et al.</i>	Econ Stat	3	Yes	RECR/LAND	HP	
2013	Voltaire <i>et al.</i>	Ecol Econ	1	Yes	RECR/LAND-BIODIV	CV	TWPL
2013	Westerberg <i>et al.</i>	Tourism Manage	3	Yes	RECR/LAND	CE	

Notes. 1 Cavailhès 2005 consider several types of environmental goods/aspects were valued, 2. Andersson *et al.* 2013 also use averting behavior and defensive expenditures methods

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