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Qualitative meta-analysis of barriers and drivers of agroecological transition

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Electronic supplementary material (ESM)

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Table S1. Keywords and Boolean operators used in the searches

Keywords and Boolean operators	First phase	Second phase	Third phase	Fourth phase
TITLE-ABS-KEY (((Adoption OR Decision OR Behavior) AND (Farmer OR Farmers) AND (Agri-environmental AND Schemes OR Stewardship OR Programme) AND (European AND Union)))	50	44	38	10
TITLE-ABS-KEY (((Adoption OR Decision OR Behavior OR Participation OR Choice) AND (Farmer OR Farmers OR Farm) AND (Agri-environmental AND Schemes OR Stewardship OR Measures OR Contracts)) AND (LIMIT-TO (AFFILCOUNTRY, 'United Kingdom') OR LIMIT-TO (AFFILCOUNTRY, 'Germany') OR LIMIT-TO (AFFILCOUNTRY, 'France') OR LIMIT-TO (AFFILCOUNTRY, 'Italy') OR LIMIT-TO (AFFILCOUNTRY, 'Spain') OR LIMIT-TO (AFFILCOUNTRY, 'Switzerland') OR LIMIT-TO (AFFILCOUNTRY, 'Netherlands') OR LIMIT-TO (AFFILCOUNTRY, 'Belgium') OR LIMIT-TO (AFFILCOUNTRY, 'Denmark') OR LIMIT-TO (AFFILCOUNTRY, 'Ireland') OR LIMIT-TO (AFFILCOUNTRY, 'Finland') OR LIMIT-TO (AFFILCOUNTRY, 'Slovenia') OR LIMIT-TO (AFFILCOUNTRY, 'Greece') OR LIMIT-TO (AFFILCOUNTRY, 'Austria') OR LIMIT-TO (AFFILCOUNTRY, 'Czech Republic') OR LIMIT-TO (AFFILCOUNTRY, 'Estonia') OR LIMIT-TO (AFFILCOUNTRY, 'Hungary') OR LIMIT-TO (AFFILCOUNTRY, 'Bulgaria') OR LIMIT-TO (AFFILCOUNTRY, 'Cyprus') OR LIMIT-TO (AFFILCOUNTRY, 'Croatia') OR LIMIT-TO (AFFILCOUNTRY, 'Latvia') OR LIMIT-TO (AFFILCOUNTRY, 'Luxembourg') OR LIMIT-TO (AFFILCOUNTRY, 'Slovakia') OR LIMIT-TO (AFFILCOUNTRY, 'Lithuania') OR LIMIT-TO (AFFILCOUNTRY, 'Poland') OR LIMIT-TO (AFFILCOUNTRY, 'Portugal') OR LIMIT-TO (AFFILCOUNTRY, 'Romania') OR LIMIT-TO (AFFILCOUNTRY, 'Norway')))	397	366	227	20
TITLE-ABS-KEY (((Farmer AND Choice AND Experiment)) AND (LIMIT-TO (AFFILCOUNTRY, 'United Kingdom') OR LIMIT-TO (AFFILCOUNTRY, 'Germany') OR LIMIT-TO (AFFILCOUNTRY, 'France') OR LIMIT-TO (AFFILCOUNTRY, 'Italy') OR LIMIT-TO (AFFILCOUNTRY, 'Spain') OR LIMIT-TO (AFFILCOUNTRY, 'Switzerland') OR LIMIT-TO (AFFILCOUNTRY, 'Netherlands') OR LIMIT-TO (AFFILCOUNTRY, 'Belgium') OR LIMIT-TO (AFFILCOUNTRY, 'Denmark') OR LIMIT-TO (AFFILCOUNTRY, 'Ireland') OR LIMIT-TO (AFFILCOUNTRY, 'Finland') OR LIMIT-TO (AFFILCOUNTRY, 'Slovenia') OR LIMIT-TO (AFFILCOUNTRY, 'Greece') OR LIMIT-TO (AFFILCOUNTRY, 'Austria') OR LIMIT-TO (AFFILCOUNTRY, 'Czech Republic') OR LIMIT-TO (AFFILCOUNTRY, 'Estonia') OR LIMIT-TO (AFFILCOUNTRY, 'Hungary') OR LIMIT-TO (AFFILCOUNTRY, 'Bulgaria') OR LIMIT-TO (AFFILCOUNTRY, 'Cyprus') OR LIMIT-TO (AFFILCOUNTRY, 'Croatia') OR LIMIT-TO (AFFILCOUNTRY, 'Latvia') OR LIMIT-TO (AFFILCOUNTRY, 'Luxembourg') OR LIMIT-TO (AFFILCOUNTRY, 'Slovakia') OR LIMIT-TO (AFFILCOUNTRY, 'Lithuania') OR LIMIT-TO (AFFILCOUNTRY, 'Poland') OR LIMIT-TO (AFFILCOUNTRY, 'Portugal') OR LIMIT-TO (AFFILCOUNTRY, 'Romania' OR LIMIT-TO (AFFILCOUNTRY, 'Norway')))	488	459	153	9
TITLE-ABS-KEY ((Agri-environmental AND Scheme AND Logit))	22	21	20	2

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Table S1 To be continued

Keywords and Boolean operators	First phase	Second phase	Third phase	Fourth phase
TITLE-ABS-KEY (((Ecosystem AND Services) AND (Choice AND Experiment)) AND (LIMIT-TO (AFFILCOUNTRY, 'United Kingdom') OR LIMIT-TO (AFFILCOUNTRY, 'Germany') OR LIMIT-TO (AFFILCOUNTRY, 'France') OR LIMIT-TO (AFFILCOUNTRY, 'Italy') OR LIMIT-TO (AFFILCOUNTRY, 'Spain') OR LIMIT-TO (AFFILCOUNTRY, 'Switzerland') OR LIMIT-TO (AFFILCOUNTRY, 'Netherlands') OR LIMIT-TO (AFFILCOUNTRY, 'Belgium') OR LIMIT-TO (AFFILCOUNTRY, 'Denmark') OR LIMIT-TO (AFFILCOUNTRY, 'Ireland') OR LIMIT-TO (AFFILCOUNTRY, 'Finland') OR LIMIT-TO (AFFILCOUNTRY, 'Slovenia') OR LIMIT-TO (AFFILCOUNTRY, 'Greece') OR LIMIT-TO (AFFILCOUNTRY, 'Austria') OR LIMIT-TO (AFFILCOUNTRY, 'Czech Republic') OR LIMIT-TO (AFFILCOUNTRY, 'Estonia') OR LIMIT-TO (AFFILCOUNTRY, 'Hungary') OR LIMIT-TO (AFFILCOUNTRY, 'Bulgaria') OR LIMIT-TO (AFFILCOUNTRY, 'Cyprus') OR LIMIT-TO (AFFILCOUNTRY, 'Croatia') OR LIMIT-TO (AFFILCOUNTRY, 'Latvia') OR LIMIT-TO (AFFILCOUNTRY, 'Luxembourg') OR LIMIT-TO (AFFILCOUNTRY, 'Slovakia') OR LIMIT-TO (AFFILCOUNTRY, 'Lithuania') OR LIMIT-TO (AFFILCOUNTRY, 'Poland') OR LIMIT-TO (AFFILCOUNTRY, 'Portugal') OR LIMIT-TO (AFFILCOUNTRY, 'Romania' OR LIMIT-TO (AFFILCOUNTRY, 'Norway')))	315	284	239	4
TITLE-ABS-KEY ((Contingent AND Valuation) AND (Farm OR Farmer OR Landowner)) AND (LIMIT-TO (AFFILCOUNTRY, 'United Kingdom') OR LIMIT-TO (AFFILCOUNTRY, 'Germany') OR LIMIT-TO (AFFILCOUNTRY, 'France') OR LIMIT-TO (AFFILCOUNTRY, 'Italy') OR LIMIT-TO (AFFILCOUNTRY, 'Spain') OR LIMIT-TO (AFFILCOUNTRY, 'Switzerland') OR LIMIT-TO (AFFILCOUNTRY, 'Netherlands') OR LIMIT-TO (AFFILCOUNTRY, 'Belgium') OR LIMIT-TO (AFFILCOUNTRY, 'Denmark') OR LIMIT-TO (AFFILCOUNTRY, 'Ireland') OR LIMIT-TO (AFFILCOUNTRY, 'Finland') OR LIMIT-TO (AFFILCOUNTRY, 'Slovenia') OR LIMIT-TO (AFFILCOUNTRY, 'Greece') OR LIMIT-TO (AFFILCOUNTRY, 'Austria') OR LIMIT-TO (AFFILCOUNTRY, 'Czech Republic') OR LIMIT-TO (AFFILCOUNTRY, 'Estonia') OR LIMIT-TO (AFFILCOUNTRY, 'Hungary') OR LIMIT-TO (AFFILCOUNTRY, 'Bulgaria') OR LIMIT-TO (AFFILCOUNTRY, 'Cyprus') OR LIMIT-TO (AFFILCOUNTRY, 'Croatia') OR LIMIT-TO (AFFILCOUNTRY, 'Latvia') OR LIMIT-TO (AFFILCOUNTRY, 'Luxembourg') OR LIMIT-TO (AFFILCOUNTRY, 'Slovakia') OR LIMIT-TO (AFFILCOUNTRY, 'Lithuania') OR LIMIT-TO (AFFILCOUNTRY, 'Poland') OR LIMIT-TO (AFFILCOUNTRY, 'Portugal') OR LIMIT-TO (AFFILCOUNTRY, 'Romania' OR LIMIT-TO (AFFILCOUNTRY, 'Norway')))	222	204	74	3
TITLE-ABS-KEY (((Organic) OR (Conservation AND Practices) AND (Farm OR Farming) AND (Logit OR Probit)) AND (LIMIT-TO (AFFILCOUNTRY, 'United Kingdom') OR LIMIT-TO (AFFILCOUNTRY, 'Germany') OR LIMIT-TO (AFFILCOUNTRY, 'France') OR LIMIT-TO (AFFILCOUNTRY, 'Italy') OR LIMIT-TO (AFFILCOUNTRY, 'Spain') OR LIMIT-TO (AFFILCOUNTRY, 'Switzerland') OR LIMIT-TO (AFFILCOUNTRY, 'Netherlands') OR LIMIT-TO (AFFILCOUNTRY, 'Belgium') OR LIMIT-TO (AFFILCOUNTRY, 'Denmark') OR LIMIT-TO (AFFILCOUNTRY, 'Ireland') OR LIMIT-TO (AFFILCOUNTRY, 'Finland') OR LIMIT-TO (AFFILCOUNTRY, 'Slovenia') OR LIMIT-TO (AFFILCOUNTRY, 'Greece') OR LIMIT-TO (AFFILCOUNTRY, 'Austria') OR LIMIT-TO (AFFILCOUNTRY, 'Czech Republic') OR LIMIT-TO (AFFILCOUNTRY, 'Estonia') OR LIMIT-TO (AFFILCOUNTRY, 'Hungary') OR LIMIT-TO (AFFILCOUNTRY, 'Bulgaria') OR LIMIT-TO (AFFILCOUNTRY, 'Cyprus') OR LIMIT-TO (AFFILCOUNTRY, 'Croatia') OR LIMIT-TO (AFFILCOUNTRY, 'Latvia') OR LIMIT-TO (AFFILCOUNTRY, 'Luxembourg') OR LIMIT-TO (AFFILCOUNTRY, 'Slovakia') OR LIMIT-TO (AFFILCOUNTRY, 'Lithuania') OR LIMIT-TO (AFFILCOUNTRY, 'Poland') OR LIMIT-TO (AFFILCOUNTRY, 'Portugal') OR LIMIT-TO (AFFILCOUNTRY, 'Romania' OR LIMIT-TO (AFFILCOUNTRY, 'Norway')))	101	98	51	8

Table S1 To be continued

Keywords and Boolean operators	First phase	Second phase	Third phase	Fourth phase
TITLE-ABS-KEY (((Integrated AND Production) OR (Conservation AND Agriculture) AND (Probit) OR (Structured AND Questionnaire)) AND (LIMIT-TO (AFFILCOUNTRY, 'United Kingdom') OR LIMIT-TO (AFFILCOUNTRY, 'Germany') OR LIMIT-TO (AFFILCOUNTRY, 'France') OR LIMIT-TO (AFFILCOUNTRY, 'Italy') OR LIMIT-TO (AFFILCOUNTRY, 'Spain') OR LIMIT-TO (AFFILCOUNTRY, 'Switzerland') OR LIMIT-TO (AFFILCOUNTRY, 'Netherlands') OR LIMIT-TO (AFFILCOUNTRY, 'Belgium') OR LIMIT-TO (AFFILCOUNTRY, 'Denmark') OR LIMIT-TO (AFFILCOUNTRY, 'Ireland') OR LIMIT-TO (AFFILCOUNTRY, 'Finland') OR LIMIT-TO (AFFILCOUNTRY, 'Slovenia') OR LIMIT-TO (AFFILCOUNTRY, 'Greece') OR LIMIT-TO (AFFILCOUNTRY, 'Austria') OR LIMIT-TO (AFFILCOUNTRY, 'Czech Republic') OR LIMIT-TO (AFFILCOUNTRY, 'Estonia') OR LIMIT-TO (AFFILCOUNTRY, 'Hungary') OR LIMIT-TO (AFFILCOUNTRY, 'Bulgaria') OR LIMIT-TO (AFFILCOUNTRY, 'Cyprus') OR LIMIT-TO (AFFILCOUNTRY, 'Croatia') OR LIMIT-TO (AFFILCOUNTRY, 'Latvia') OR LIMIT-TO (AFFILCOUNTRY, 'Luxembourg') OR LIMIT-TO (AFFILCOUNTRY, 'Slovakia') OR LIMIT-TO (AFFILCOUNTRY, 'Lithuania') OR LIMIT-TO (AFFILCOUNTRY, 'Poland') OR LIMIT-TO (AFFILCOUNTRY, 'Portugal') OR LIMIT-TO (AFFILCOUNTRY, 'Romania' OR LIMIT-TO (AFFILCOUNTRY, 'Norway')))	94	89	16	2
Total	1687	1565	818	58

Source: Authors' elaboration

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Table S2. Characteristics of the studies included in the structured literature review (SLR)

Reference	Data	Samples	Measure	Crops	Countries	Econometric specification	Pro-environmental behaviour	Journal (impact)
Vanslembrouck et al. (2002)	primary	390	agri-environmental		Belgium	binary probit	self-reported intention to adopt (contingent valuation)	Journal of Agricultural Economics (Q1)
Amigues et al. (2002)	primary	362	agri-environmental		France	binary probit	self-reported intention to adopt (contingent valuation)	Ecological Economics (Non-Q1)
Damianos and Giannakopoulos (2002)	primary	237	agri-environmental		Greece	binary probit	self-reported adoption (traditional discrete choice)	British Food Journal (Non-Q1)
Dupraz et al. (2002)	primary	1 638	organic		Austria, Belgium, France, Germany, Greece, Italy, Sweden and United Kingdom	multinomial logit	self-reported adoption (traditional discrete choice)	International 10th Congress, European Association of Agricultural Economists (Non-Q1)
Mathijs (2003)	Primary	36	agri-environmental		Belgium	multivariate probit	self-reported adoption (traditional discrete choice)	Outlook on Agriculture (Non-Q1)
Wossink and van Wenum (2003)	primary	250	agri-environmental		The Netherlands	binary probit	self-reported intention to adopt (contingent valuation)	European Review of Agricultural Economics (Q1)
Sayadi et al. (2005)	primary	246	agri-environmental	avocado	Spain	ordered probit	self-reported adoption (traditional discrete choice)	Spanish Journal of Agricultural Research (Non-Q1)
Parra-López and Calatrava-Requena (2005)	primary	322	agri-environmental	olive groves	Spain	binary logit	self-reported adoption (traditional discrete choice)	Spanish Journal of Agricultural Research (Non-Q1)
Genius et al. (2006)	primary	237	organic		Greece	trivariate ordered probit	self-reported adoption (traditional discrete choice)	Journal of Agricultural and Resource Economics (Non-Q1)

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Table S2 To be continued

Calatrava-Leyva et al. (2007)	primary	155	agri-environmental	olive groves	Spain	binary probit	self-reported adoption (traditional discrete choice)	Spanish Journal of Agricultural Research (Non-Q1)
Defrancesco et al. (2008)	primary	139	agri-environmental		Italy	multinomial logit	self-reported adoption (traditional discrete choice)	Journal of Agricultural Economics (Q1)
Barreiro-Hurlé et al. (2008)	primary	456	agri-environmental	cereal	Spain	binary probit	self-reported adoption (traditional discrete choice)	In 107. EAAE Seminar: Modeling of agricultural and rural development policies (Non-Q1)
Polman and Slagen (2008)	primary	990	agri-environmental		The Netherlands, Belgium, Czech Republic, Finland, France and Italy	trivariate probit	self-reported adoption (traditional discrete choice)	NJAS (Non-Q1)
Ruto and Garrod (2009)	primary	2 252	agri-environmental		UK, France, Netherlands, Belgium, Germany, Italy, Ireland, Finland, Czech Republic	random parameter logit	self-reported intention to adopt (choice experiment)	Journal of Environmental Planning and Management (Non-Q1)
Ducos et al. (2009)	primary	2 262	agri-environmental		France, Netherlands, Belgium, UK, Germany, Italy, Ireland, Finland, Czech Republic	Tobit	self-reported adoption (regression)	Journal of Environmental Planning and Management (Non-Q1)
Peerlings and Polman (2009)	primary	990	agri-environmental		Belgium, France, Finland, Italy, the Netherlands	multinomial logit	self-reported adoption (traditional discrete choice)	Journal of Environmental Planning and Management (Non-Q1)
Espinosa-Goded et al. (2010)	primary	300	agri-environmental		Spain	random parameter logit	self-reported intention to adopt (choice experiment)	Journal of Agricultural Economics (Non-Q1)
Franco and Calatrava (2010)	primary	215	other	olive groves	Spain	binary probit	self-reported adoption (traditional discrete choice)	Economía Agraria y Recursos Naturales (Non-Q1)
Läpple and Van Rensburg (2011)	primary	546	organic		Ireland	multinomial logit	self-reported adoption (traditional discrete choice)	Ecological Economics (Non-Q1)

Table S2 To be continued

Giovanopoulou et al. (2011)	primary	125	agri-environmental		Greece	binary probit	self-reported adoption (traditional discrete choice)	Ecological Economics (Non-Q1)
Murphy et al. (2011)	secondary	870	agri-environmental		Ireland	multinomial logit	actual (traditional discrete choice)	Ecological Economics (Non-Q1)
Mzoughi (2011)	primary	243	organic	fruits	France	multinomial logit	self-reported adoption (traditional discrete choice)	Ecological Economics (Non-Q1)
Lindhjem and Mitani (2012)	primary	165	other		Norway	linear regression	self-reported intention to adopt (contingent valuation)	Journal of Forest Economics (Non-Q1)
Beltrán-Esteve et al. (2012)	primary	238	organic	citrus	Spain	binary probit	self-reported adoption (traditional discrete choice)	Spanish Journal of Agricultural Research (Non-Q1)
Broch and Vedel (2012)	primary	61	agri-environmental		Denmark	random parameter logit	self-reported intention to adopt (choice experiment)	Environmental and Resource Economics (Q1)
Grammatikopoulou et al. (2013)	primary	739	other		Finland	random parameter logit	self-reported intention to adopt (choice experiment)	Land Use Policy (Q1)
Liekens et al. (2013)	primary	3 000	other		Belgium	random parameter logit	self-reported intention to adopt (choice experiment)	Land Use Policy (Q1)
Rodríguez-Entrena and Arriaza (2013)	primary	480	agri-environmental	olive groves	Spain	trivariate probit	self-reported adoption (traditional discrete choice)	Land Use Policy (Q1)
Malá and Malý (2013)	secondary	531	organic		Czech Republic	binary probit	actual (traditional discrete choice)	Agricultural Economics (Zemědělská Ekonomika) (Non-Q1)
Giannakis (2014)	primary	80	agri-environmental		Greece	binary probit	self-reported adoption (traditional discrete choice)	International Journal of Agricultural Resources, Governance and Ecology (Non-Q1)

Table S2 To be continued

Murphy et al. (2014)	secondary	19 306	agri-environmental		Ireland	binary logit	actual (traditional discrete choice)	Land Use Policy (Q1)
Schulz et al. (2014)	primary	128	agri-environmental		Germany	conditional logit	self-reported intention to adopt (choice experiment)	Journal of Agricultural Economics (Q1)
Campus (2014)	secondary	69 696	agri-environmental		Italy	binary probit	actual (traditional discrete choice)	14th Congress, European Association of Agricultural Economists (Non-Q1)
Villanueva et al. (2015)	primary	192	agri-environmental	olive groves	Spain	latent class	self-reported intention to adopt (choice experiment)	Land Use Policy (Q1)
Micha et al. (2015)	primary	204	agri-environmental	grapes	Greece	ordered probit	self-reported adoption (traditional discrete choice)	Land Use Policy (Q1)
Kuhfuss et al. (2015)	primary	317	agri-environmental	grapes	France	random parameter logit	self-reported intention to adopt (choice experiment)	European Review of Agricultural Economics (Q1)
Raggi et al. (2015)	secondary	341	agri-environmental		Italy	a-spatial fractional logit	actual (traditional discrete choice)	Land Use Policy (Q1)
Alló et al. (2015)	primary	359	agri-environmental		Spain	ordered logit	self-reported intention to adopt (choice experiment)	Journal of Agricultural Economics (Q1)
Lienhoop and Brouwer (2015)	primary	217	agri-environmental		Germany	random parameter logit	self-reported intention to adopt (choice experiment)	Land Use Policy (Q1)
Brouwer et al. (2015)	primary	482	agri-environmental		The Netherlands and Germany	latent class	self-reported intention to adopt (choice experiment)	Journal of Forest Economics (Non-Q1)
Dinis et al. (2015)	primary	352	organic		Italy and Portugal	binary logit	self-reported adoption (traditional discrete choice)	Agricultural Systems (Q1)

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Table S2 To be continued

Unay-Gailhard and Bojnec (2016)	secondary	3 488	agri-environmental		Slovenia	binary logit	actual (traditional discrete choice)	Journal of Cleaner Production (Q1)
Zandersen et al. (2016)	primary	527	other		Denmark	latent class + binary probit	self-reported intention to adopt (choice experiment)	Ecological Economics (Non-Q1)
Sardaro et al. (2016)	primary	600	agri-environmental	olive groves	Italy	latent class	self-reported intention to adopt (choice experiment)	Biological Conservation (Q1)
Villanueva et al. (2017a)	primary	327	agri-environmental	olive groves	Spain	error component random parameter logit	self-reported intention to adopt (choice experiment)	Journal of Environmental Planning and Management (Non-Q1)
Villanueva et al. (2017b)	primary	327	agri-environmental	olive groves	Spain	bivariate probit	self-reported intention to adopt (choice experiment)	Journal of Agricultural Economics (Q1)
De Salvo et al. (2018)	primary	125	agri-environmental		Italy	random parameter logit + linear regression	self-reported intention to adopt (choice experiment)	New Medit (Non-Q1)
Bartolini and Vergamini (2019)	secondary	72 686	agri-environmental	grapes, olive groves and vegetables	Italy	multinomial logit	actual (traditional discrete choice)	Sustainability (Non-Q1)
Rodríguez-Entrena et al. (2019)	primary	327	agri-environmental	olive groves	Spain	bivariate probit	self-reported intention to adopt (choice experiment)	Canadian Journal of Agricultural Economics (Non-Q1)
McGurk et al. (2020)	primary	800	agri-environmental		Ireland	bivariate probit	self-reported intention to adopt (contingent valuation)	Journal of Environmental Management (Q1)
Bonke and Musshoff (2020)	primary	172	other	legumes	Germany	binary logit	self-reported adoption (traditional discrete choice)	Agronomy for Sustainable Development (Q1)
Hannus et al. (2020)	primary	554	other		Germany	random parameter logit	self-reported intention to adopt (choice experiment)	Journal of Environmental Management (Q1)

Table S2 To be continued

Wąs et al. (2021)	secondary + primary	12 100 + 594	agri-environmental		Poland	binary logit	actual (traditional discrete choice)	Land Use Policy (Q1)
Tyrväinen et al. (2021)	primary	471	other		Finland	random parameter logit	self-reported intention to adopt (choice experiment)	Land Use Policy (Q1)
Cullen et al. (2021)	secondary	23 789	agri-environmental		Ireland	random effect logit	actual (traditional discrete choice)	Journal of Environmental Management (Q1)
Sardaro et al. (2021)	primary	397	agri-environmental	grapes	Italy	latent class	self-reported intention to adopt (choice experiment)	Sustainability (Non-Q1)
Villamayor-Tomas et al. (2021)	primary	1 500	agri-environmental		Swizerland	conditional logit	self-reported intention to adopt (choice experiment)	Ecosystem Services (Q1)
Bjørnåvold et al. (2022)	primary	110	agroecological		France	random parameter logit	self-reported intention to adopt (choice experiment)	Ecological Economics (Q1)
Bonfiglio et al. (2022)	secondary	51 450	organic		Italy	multinomial logit	actual (traditional discrete choice)	Bio-based and Applied Economics (Non-Q1)
Tsakiridis et al. (2022)	primary	130	agri-environmental		Ireland	binary probit	self-reported adoption (traditional discrete choice)	Land Use Policy (Q1)
Massfeller et al. (2022)	primary	110	agri-environmental		Germany	binary probit	self-reported intention to adopt (contingent valuation)	Land Use Policy (Q1)
Blasch et al. (2022)	primary	250	other		Italy	random parameter logit	self-reported intention to adopt (choice experiment)	European Review of Agricultural Economics (Non-Q1)
Zemo and Termansen (2022)	primary	461	agri-environmental		Denmark	random parameter hybrid choice	self-reported intention to adopt (choice experiment)	European Review of Agricultural Economics (Non-Q1)

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Table S2 To be continued

Šumrada et al. (2022)	primary	437	agri-environmental		Slovenia	binary logit	self-reported intention to adopt (choice experiment)	Journal for Nature Conservation (Non-Q1)
Payen et al. (2022)	primary	400	other	grapes	France	binary logit	self-reported adoption (traditional discrete choice)	Environmental Science and Policy (Q1)
Tyllianakis et al. (2023)	primary	153	agri-environmental		United Kingdom	latent class	self-reported intention to adopt (choice experiment)	Land Use Policy (Q1)

Source: Authors' elaboration

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Table S3. Factors occurring less frequently in the literature

Type of factor		Factor	Significance	Literature	Factor	Significance	Literature
Internal factors	personal knowledge and capabilities	married	+	Murphy et al. (2011)	irrigation	–	Payen et al. (2022)
			+	Murphy et al. (2014)		–	Rodríguez-Entrena et al. (2019)
		irrigation water available	+	Dinis et al. (2015)	belonging to irrigation district	+	Rodríguez-Entrena and Arriaza (2013)
		ownership	+	Zandersen et al. (2016)	rented land	–	Ruto and Garrod (2009)
			ns	De Salvo et al. (2018)		ns	McGurk et al. (2020)
			–	Bartolini and Vergamini (2019)		–	Bonke and Musshoff (2020)
			–	Wąs et al. (2021)		–	Šumrada et al. (2022)
		previous participation environment in scheme	ns	Barreiro-Hurlé et al. (2008)	export to foreign market	–	Beltrán-Esteve et al. (2012)
			–	Defrancesco et al. (2008)			
			+	Cullen et al. (2021)			
			ns	Payen et al. (2022			
		insurance	–	Barreiro-Hurlé et al. (2008)	knowledge of CAP	–	Šumrada et al. (2022)
		machinery	–	Calatrava Leyva et al. (2007)			
			–	Sardaro et al. (2016)			
	personality traits	belief in government	ns	Polman and Slangen (2008)	Perception of benefit of cover crops	+	Villanueva et al. (2017b)
			ns	Peerlings and Polman (2009)		+	Rodríguez-Entrena et al. (2019)
		concern about what society thinks of my farm	ns	Wossink and van Wenum (2003)	Perception of economic benefit from soil protection	+	Villanueva et al. (2015)
		risk perception	–	Giovanopoulou et al. (2011)			
			–	Läpple and Rensburg (2011)			
			–	Mzoughi (2011)			
External factors	contextual factors	credit access	–	Sardaro et al. (2011)	frequency of advice	+	Villanueva et al. (2017a)
			+	Sardaro et al. (2021)			
		information from other farmers	ns	Dinis et al. (2015)	public extension service use	+	Calatrava Leyva et al. (2007)
						+	Polman and Slangen (2008)
						+	Peerlings and Polman (2009)
		information from the Internet	ns	Dinis et al. (2015)	Information from Universities	+	Dinis et al. (2015)
		information from financial entities	+	Barreiro-Hurlé et al. (2008)			

ns – not significant; – and + – negative and positive significant
Source: Authors' elaboration

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Table S4. Vote-counting results for factors associated with pro-environmental behaviour

	Personal knowledge and capabilities											Contextual factors			Personality traits	
Reference	farm size	schooling level	farm income	off farm income	training	full time	livestock	succession	family labour	age	gender	association	subsidies	technical advice	environmental attitude	innovation
Vanslembrouck et al. (2002)	–	+						+		–					ns	
Amigues et al. (2002)	ns	ns	–							ns						
Damianos and Giannakopoulos (2002)					+					–						
Dupraz et al. (2002)	+	+			–		–			–					+	
Mathijs (2003)	ns				+	ns				–						
Wossink and van Wenum (2003)	ns			ns				ns		ns						
Sayadi et al. (2005)					+				–	–		+				
Parra-López and Calatrava-Requena (2005)			–		+							+				
Genius et al. (2006)	ns	+		+						–			+		+	
Calatrava-Leyva et al. (2007)									+	–			–			+
Defrancesco et al. (2008)		ns	–	+							ns					
Barreiro-Hurlé et al. (2008)		+	–				+			+		+		+		+
Polman and Slagen (2008)	ns	ns		+						–		–				

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Table S4 To be continued

	Personal knowledge and capabilities											Contextual factors			Personality traits	
Reference	farm size	schooling level	farm income	off farm income	training	full time	livestock	succession	family labour	age	gender	association	subsidies	technical advice	environmental attitude	innovation
Ruto and Garrod (2009)	+	ns		+				–		–					+	
Ducos et al. (2009)	+	+			+		+	+		–		+				+
Peerlings and Polman (2009)	ns	+		+						ns		ns				
Espinosa-Goded et al. (2010)					+							ns	+	+		
Franco and Calatrava (2010)	ns							+								
Läpple and Van Rensburg (2011)	–	+		ns			–			–				ns	+	
Giovanopoulou et al. (2011)		+								–			+		+	+
Murphy et al. (2011)	+	–	ns		+	+	–	–		–						
Mzoughi (2011)		+								ns	ns					
Lindhjem and Mitani (2012)	+	ns	ns							ns	ns	ns				
Beltrán-Esteve et al. (2012)	–	+			+	ns				–	ns	ns				
Broch and Vedel (2012)	ns		–													
Grammatikopoulou et al. (2013)		ns	ns							ns	ns				+	
Liekens et al. (2013)	–		+							–	–					

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Table S4 To be continued

	Personal knowledge and capabilities											Contextual factors			Personality traits	
Reference	farm size	school-ing level	farm income	off farm income	training	full time	livestock	succes-sion	family labour	age	gender	associa-tion	subsidies	technical advice	environ-mental attitude	innova-tion
Rodríguez-Entrena and Arriaza (2013)	+				+	+		+								
Malá and Malý (2013)	–									–	+					
Giannakis (2014)	–	+			ns			–		+	+	–				
Murphy et al. (2014)	+		–				–	+		–						
Schulz et al. (2014)	ns					+	ns			ns						
Campus (2014)		+								–	ns					
Villanueva et al. (2015)	+	+			+					–						
Micha et al. (2015)		ns				–				–			ns			
Kuhfuss et al. (2015)	ns															
Raggi et al. (2015)						ns	ns		+	ns						
Alló et al. (2015)	+	–								–	–					
Lienhoop and Brouwer (2015)		+								–			+	ns		
Brouwer et al. (2015)	+													+		
Dinis et al. (2015)	+					+					+	ns				
Unay-Gailhard and Bojnec (2016)	+			+					ns							

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Table S4 To be continued

	Personal knowledge and capabilities											Contextual factors			Personality traits	
Reference	farm size	schooling level	farm income	off farm income	training	full time	livestock	succession	family labour	age	gender	association	subsidies	technical advice	environmental attitude	innovation
Zandersen et al. (2016)						+				–						
Sardaro et al. (2016)	–	–		–												
Villanueva et al. (2017a)	–	+				+			+	ns			+			
Villanueva et al. (2017b)	+									–						
De Salvo et al. (2018)		ns														
Bartolini and Vergamini (2019)	+	+			+	+	ns			–			ns			
Rodríguez-Entrena et al. (2019)	+	+			+			ns		–						
McGurk et al. (2020)	+		–				+			ns						
Bonke and Musshoff (2020)	ns	ns				ns				ns						
Hannus et al. (2020)		+						–		–		ns				
Wąs et al. (2021)	ns	ns					+	–	+	+						
Tyrväinen et al. (2021)	–	+	–							–	–					
Cullen et al. (2021)	+		–					+		–						
Sardaro et al. (2021)	–	+				–		ns			ns					

Table S4 To be continued

	Personal knowledge and capabilities											Contextual factors			Personality traits	
Reference	farm size	schooling level	farm income	off farm income	training	full time	livestock	succession	family labour	age	gender	association	subsidies	technical advice	environmental attitude	innovation
Villamayor-Tomas et al. (2021)	ns		ns										+			
Bjørnåvold et al. (2022)	ns		ns		ns									ns		
Bonfiglio et al. (2022)		+					–			–			+			
Tsakiridis et al. (2022)					+	ns	ns			+		+				
Massfeller et al. (2022)	ns	ns					ns			ns	ns					
Blasch et al. (2022)	ns		ns							+				+		+
Zemo and Termansen (2022)	+					–				ns	ns	+				
Šumrada et al. (2022)	+	ns	ns				ns			–			+			
Payen et al. (2022)	ns	ns								ns	ns		ns			
Tyllianakis et al. (2023)		ns	ns			–				–						
n° papers appearing	46	38	18	9	16	16	15	14	6	51	16	14	12	7	7	5
n° papers being significant	29	24	10	7	14	11	9	11	5	37	6	8	9	4	6	5
n° papers having + significance	19	21	1	6	13	7	4	6	4	5	3	6	8	4	6	5

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Table S4 To be continued

	Personal knowledge and capabilities											Contextual factors			Personality traits	
Reference	farm size	schooling level	farm income	off farm income	training	full time	livestock	succession	family labour	age	gender	association	subsidies	technical advice	environmental attitude	innovation
n° papers having – significance	10	3	9	1	1	4	5	5	1	32	3	2	1	0	0	0
% significance	0.63	0.63	0.55	0.77	0.88	0.69	0.6	0.78	0.83	0.72	0.37	0.57	0.75	0.57	0.85	1
% total significance (related to the total sample)	0.43	0.36	0.15	0.10	0.21	0.17	0.13	0.16	0.08	0.56	0.09	0.12	0.13	0.06	0.09	0.07

ns – not significant; – and + – negative and positive significant

Source: Authors' elaboration

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Table S5. Pearson's χ^2 test among the most frequent factors

	Age *vs.* farm size	Age *vs.* schooling level	Age *vs.* farm income	Farm size *vs.* farm income	Farm size *vs.* training	Farm size *vs.* schooling level
Pearson's χ^2 test	12.13**	8.24^{ns}	1.20^{ns}	13.15**	4.51^{ns}	13.02**

** significance at the 5% level; ^{ns}non statistically significant, Benjamini–Hochberg correction was applied; factor pairs without sufficient observed frequencies that did not meet Pearson's χ^2 requirements are not reported in this table
Source: Authors' elaboration

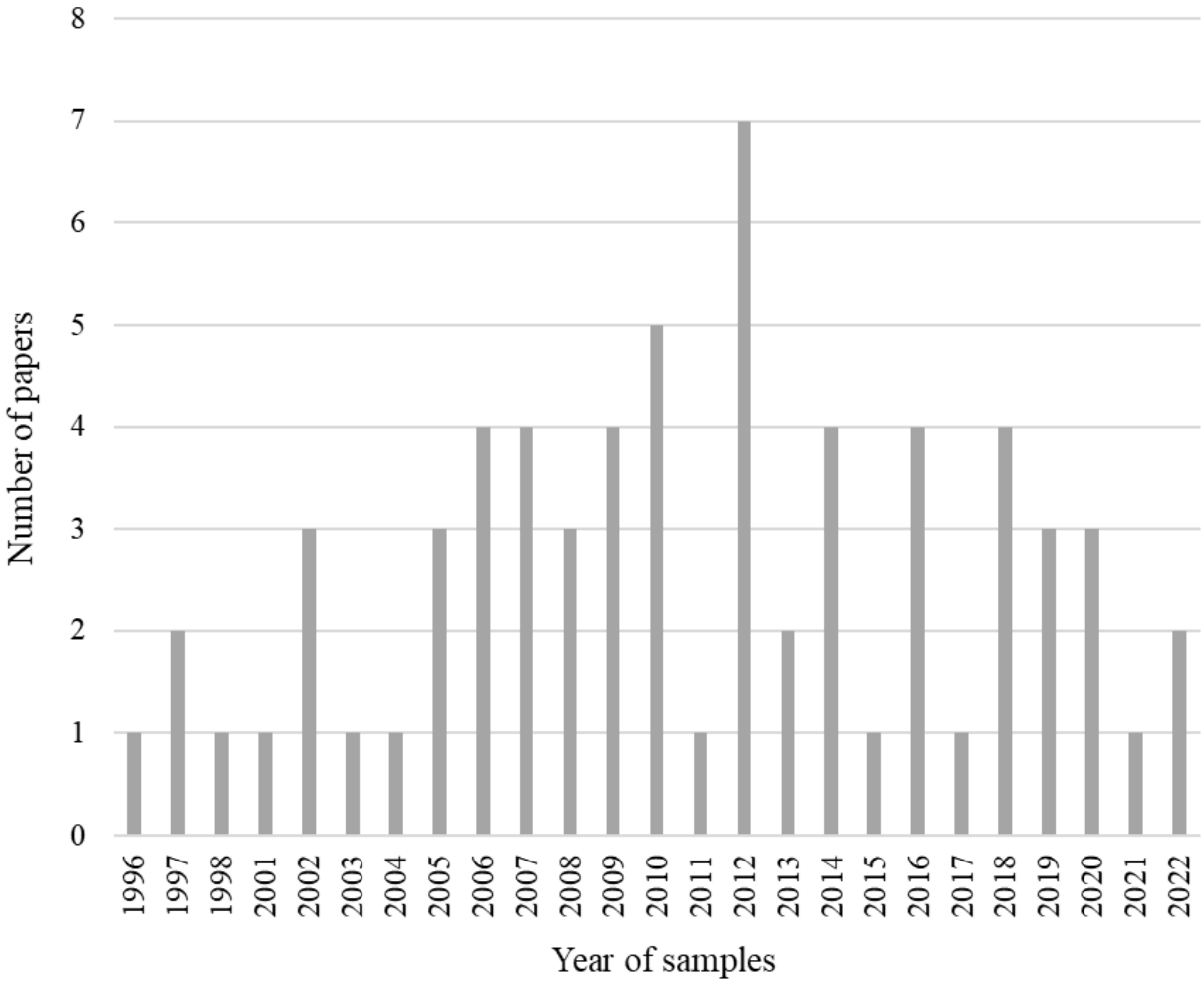


Figure S1. Distribution of sample years across studies

Source: Authors' elaboration

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REFERENCES:

Alló M., Loureiro M.L., Iglesias E. (2015): Farmers' preferences and social capital regarding agri-environmental schemes to protect birds. Journal of Agricultural Economics, 66: 672–689.

Amigues J.P., Boulatoff C., Desaigues B., Gauthier C., Keith J.E. (2002): The benefits and costs of riparian analysis habitat preservation: A willingness to accept/willingness to pay contingent valuation approach. Ecological Economics, 43: 17–31.

Barreiro-Hurlé J., Espinosa-Goded M., Dupraz P. (2008): Does intensity of change matter? Factors affecting adoption in two agri-environmental schemes. In: 107th EAAE Seminar: Modelling of Agricultural and Rural Development Policies. Sevilla, Jan 29-Feb 1, 2008.

Bartolini F., Vergamini D. (2019): Understanding the spatial agglomeration of participation in agri-environmental schemes: The case of the Tuscany region. Sustainability, 11: 2753.

Beltrán-Esteve M., Picazo-Tadeo A.J., Reig-Martínez E. (2012): What makes a citrus farmer go organic? Empirical evidence from Spanish citrus farming. Spanish Journal of Agricultural Research, 10: 901–910.

Bjørnåvold A., David M., Bohan D.A., Gibert C., Rousselle J.M., Van Passel S. (2022): Why does France not meet its pesticide reduction targets? Farmers' socio-economic trade-offs when adopting agro-ecological practices. Ecological Economics, 198: 107440.

Blasch J., van der Kroon B., van Beukering P., Munster R., Fabiani S., Nino P., Vanino S. (2022): Farmer preferences for adopting precision farming technologies: A case study from Italy. European Review of Agricultural Economics, 49: 33–81.

Bonfiglio A., Abitabile C., Henke R. (2022): A choice model-based analysis of diversification in organic and conventional farms. Bio-Based and Applied Economics, 11: 131–146.

Bonke V., Musshoff O. (2020): Understanding German farmer's intention to adopt mixed cropping using the theory of planned behavior. Agronomy for Sustainable Development, 40: 48.

Broch S.W., Vedel S.E. (2012): Using choice experiments to investigate the policy relevance of heterogeneity in farmer agri-environmental contract preferences. Environmental and Resource Economics, 51: 561–581.

Brouwer R., Lienhoop N., Oosterhuis F. (2015): Incentivizing afforestation agreements: Institutional-economic conditions and motivational drivers. Journal of Forest Economics, 21: 205–222.

Calatrava Leyva J., Franco Martínez J.A., González Roa M.C. (2007): Analysis of the adoption of soil conservation practices in olive groves: The case of mountainous areas in Southern Spain. Spanish Journal of Agricultural Research, 5: 249–258.

Campus D. (2014): Evaluating agri-environmental schemes. The case of Tuscany. In: 3rd AIEAA Conference 'Feeding the Planet and Greening Agriculture: Challenges and opportunities for the bio-economy'. Algero, Italy, June 25–27, 2014.

Cullen P., Hynes S., Ryan M., O'Donoghue C. (2021): More than two decades of Agri-Environment schemes: Has the profile of participating farms changed? Journal of Environmental Management, 292: 112826.

Damianos D., Giannakopoulos N. (2002): Farmers' participation in agri-environmental schemes in Greece. British Food Journal, 104: 261–273.

De Salvo M., Cucuzza G., Cosentino S.L., Nicita L., Signorello G. (2018): Farmers' preferences for enhancing sustainability in arable lands: Evidence from a choice experiment in Sicily. New Medit, 2018: 57–70.

Defrancesco E., Gatto P., Runge F., Trestini S. (2008): Factors affecting farmers participation in agri-environmental measures: A northern Italian perspective. Journal of Agricultural Economics, 59: 114–131.

Dinis I., Ortolani L., Bocci R., Brites C. (2015): Organic agriculture values and practices in Portugal and Italy. Agricultural Systems, 136: 39–45.

Ducos G., Dupraz P., Bonnieux F. (2009): Agri-environment contract adoption under fixed and variable compliance costs. Journal of Environmental Planning and Management, 52: 669–687.

Dupraz P., Vanslembrouck I., Bonnieux F., Huylenbroeck G.V. (2002): Farmers' participation in European agri-environmental policies. In: Xth EAAE Congress 'Exploring Diversity in the European Agri-Food System'. Zaragoza, Spain, Aug 28–31, 2002.

Espinosa-Goded M., Barreiro-Hurlé J., Ruto E. (2010): What do farmers want from agri-environmental scheme design? A choice experiment approach. Journal of Agricultural Economics, 61: 259–273.

Franco J.A., Calatrava J. (2010): Adoption and diffusion of no-tillage in the olive groves of the Granada province (Spain). Economía Agraria y Recursos Naturales, 10: 135–154. (in Spanish)

Genius M., Pantzios C.J., Tzouvelekas V. (2006): Information acquisition and adoption of organic farming practices. Journal of Agricultural and Resource Economics, 31: 93–113.

Giannakis E. (2014): Modelling farmers' participation in agri-environmental schemes in Greece. International Journal of Agricultural Resources, 10: 227–238.

Giovanopoulou E., Nastis S.A., Papanagiotou E. (2011): Modeling farmer participation in agri-environmental

https://doi.org/10.17221/374/2024-AGRICECON

nitrate pollution reducing schemes. Ecological Economics, 70: 2175–2180.

Grammatikopoulou I., Pouta E., Salmiovirta M. (2013): A locally designed payment scheme for agricultural landscape services. Land Use Policy, 32: 175–185.

Hannus V., Venus T.J., Sauer J. (2020): Acceptance of sustainability standards by farmers – Empirical evidence from Germany. Journal of Environmental Management, 267: 110617.

Kuhfuss L., Préget R., Thoyer S., Hanley N. (2015): Nudging farmers to enrol land into agri-environmental schemes: The role of a collective bonus. European Review of Agricultural Economics, 43: 609–636.

Läpple D., Rensburg T.V. (2011): Adoption of organic farming: Are there differences between early and late adoption? Ecological Economics, 70: 1406–1414.

Liekens I., Schaafsma M., De Nocker L., Broekx S., Staes J., Aertsens J., Brouwer R. (2013): Developing a value function for nature development and land use policy in Flanders, Belgium. Land Use Policy, 30: 549–559.

Lienhoop N., Brouwer R. (2015): Agri-environmental policy valuation: Farmers' contract design preferences for afforestation schemes. Land Use Policy, 42: 568–577.

Lindhjem H., Mitani Y. (2012): Forest owners' willingness to accept compensation for voluntary conservation: A contingent valuation approach. Journal of Forest Economics, 18: 290–302.

Malá Z., Malý M. (2013): The determinants of adopting organic farming practices: A case study in the Czech Republic. Agricultural Economics – Czech, 59: 19–28.

Massfeller A., Meraner M., Hüttel S., Uehleke R. (2022): Farmers' acceptance of results-based agri-environmental schemes: A German perspective. Land Use Policy, 120: 106281.

Mathijs E. (2003): Social capital and farmers' willingness to adopt countryside stewardship schemes. Outlook on Agriculture, 32: 13–16.

McGurk E., Hynes S., Thorne F. (2020): Participation in agri-environmental schemes: A contingent valuation study of farmers in Ireland. Journal of Environmental Management, 262: 110243.

Micha E., Areal F.J., Tranter R.B., Bailey A.P. (2015): Uptake of agri-environmental schemes in the Less-Favoured Areas of Greece: The role of corruption and farmers' responses to the financial crisis. Land Use Policy, 48: 144–157.

Murphy G., Hynes S., Murphy E., O'Donoghue C., Green S. (2011): Assessing the compatibility of farmland biodiversity and habitats to the specifications of agri-environmental schemes using a multinomial logit approach. Ecological Economics, 71: 111–121.

Murphy G., Hynes S., Murphy E., O'Donoghue C. (2014): An investigation into the type of farmer who chose to participate in Rural Environment Protection Scheme (REPS) and the role of institutional change in influencing scheme effectiveness. Land Use Policy, 39: 199–210.

Mzoughi N. (2011): Farmers adoption of integrated crop protection and organic farming: Do moral and social concerns matter? Ecological Economics, 70: 1536–1545.

Parra López C., Calatrava Requena J. (2005): Factors related to the adoption of organic farming in Spanish olive orchards. Spanish Journal of Agricultural Research, 3: 5–16.

Payen F.T., Moran D., Cahurel J.Y., Aitkenhead M., Alexander P., MacLeod M. (2022): Factors influencing winegrowers' adoption of soil organic carbon sequestration practices in France. Environmental Science & Policy, 128: 45–55.

Peerlings J., Polman N. (2009): Farm choice between agri-environmental contracts in the European Union. Journal of Environmental Planning and Management, 52: 593–612.

Polman N.B.P., Slangen L.H.G. (2008): Institutional design of agri-environmental contracts in the European Union: The role of trust and social capital. NJAS: Wageningen Journal of Life Sciences, 55: 413–430.

Raggi M., Viaggi D., Bartolini F., Furlan A. (2015): The role of policy priorities and targeting in the spatial location of participation in Agri-Environmental Schemes in Emilia-Romagna (Italy). Land Use Policy, 47: 78–89.

Rodríguez-Entrena M., Arriaza M. (2013): Adoption of conservation agriculture in olive groves: Evidences from southern Spain. Land Use Policy, 34: 294–300.

Rodríguez-Entrena M., Villanueva A.J., Gómez-Limón J.A. (2019): Unraveling determinants of inferred and stated attribute nonattendance: Effects on farmers' willingness to accept to join agri-environmental schemes. Canadian Journal of Agricultural Economics, 67: 31–52.

Ruto E., Garrod G. (2009): Investigating farmers' preferences for the design of agri-environment schemes: A choice experiment approach. Journal of Environmental Planning and Management, 52: 631–647.

Sardaro R., Girone S., Acciani C., Bozzo F., Petrontino A., Fucilli V. (2016): Agro-biodiversity of Mediterranean crops: Farmers' preferences in support of a conservation programme for olive landraces. Biological Conservation, 201: 210–219.

Sardaro R., Faccilongo N., Contò F., La Sala P. (2021): Adaptation actions to cope with climate change: Evidence from farmers' preferences on an agrobiodiversity conservation programme in the Mediterranean area. Sustainability, 13: 5977.

Sayadi S., Calatrava Requena J., Guirado Sánchez E. (2005): Innovations favouring environmental sustainability in avocado orchards: An analysis of the Spanish Mediterranean coastlands. Spanish Journal of Agricultural Research, 3: 168–174.

https://doi.org/10.17221/374/2024-AGRICECON

Schulz N., Breustedt G., Latacz-Lohmann U. (2014): Assessing farmers' willingness to accept 'Greening': Insights from a discrete choice experiment in Germany. Journal of Agricultural Economics, 65: 26–48.

Šumrada T., Japelj A., Verbič M., Erjavec E. (2022): Farmers' preferences for result-based schemes for grassland conservation in Slovenia. Journal for Nature Conservation, 66: 126143.

Tsakiridis A., O'Donoghue C., Ryan M., Cullen P., Ó hUallacháin D., Sheridan H., Stout J. (2022): Examining the relationship between farmer participation in an agri-environment scheme and the quantity and quality of semi-natural habitats on Irish farms. Land Use Policy, 120: 106284.

Tyllianakis E., Martin-Ortega J., Ziv G., Chapman P.J., Holden J., Cardwell M., Fyfe D. (2023): A window into land managers' preferences for new forms of agri-environmental schemes: Evidence from a post-Brexit analysis. Land Use Policy, 129: 106627.

Tyrväinen L., Mäntymaa E., Juutinen A., Kurttila M., Ovaskainen V. (2021): Private landowners' preferences for trading forest landscape and recreational values: A choice experiment application in Kuusamo, Finland. Land Use Policy, 107: 104478.

Unay-Gailhard İ., Bojnec Š. (2016): Sustainable participation behaviour in agri-environmental measures. Journal of Cleaner Production, 138: 47–58.

Vanslembrouck I., Huylenbroeck G., Verbeke W. (2002): Determinants of the willingness of Belgian farmers to participate in agri-environmental measures. Journal of Agricultural Economics, 53: 489–511.

Villamayor-Tomas S., Sagebiel J., Rommel J., Olschewski R. (2021): Types of collective action problems and farmers' willingness to accept agri-environmental schemes in Switzerland. Ecosystem Services, 50: 101304.

Villanueva A.J., Gómez-Limón J.A., Arriaza M., Rodríguez-Entrena M. (2015): The design of agri-environmental schemes: Farmers' preferences in Southern Spain. Land Use Policy, 46: 142–154.

Villanueva A.J., Rodríguez-Entrena M., Arriaza M., Gómez-Limón J.A. (2017a): Heterogeneity of farmers' preferences towards agri-environmental schemes across different agricultural subsystems. Journal of Environmental Planning and Management, 60: 684–707.

Villanueva A.J., Glenk K., Rodríguez-Entrena M. (2017b): Protest responses and willingness to accept: Ecosystem services providers' preferences towards incentive-based schemes. Journal of Agricultural Economics, 68: 801–821.

Wąs A., Malak-Rawlikowska A., Zavalloni M., Viaggi D., Kobus P., Sulewski P. (2021): In search of factors determining the participation of farmers in agri-environmental schemes – Does only money matter in Poland? Land Use Policy, 101: 105190.

Wossink G.A.A., van Wenum J.H. (2003): Biodiversity conservation by farmers: Analysis of actual and contingent participation. European Review of Agricultural Economics, 30: 461–485.

Zandersen M., Jørgensen S.L., Nainggolan D., Gyldenkærne S., Winding A., Greve M.H., Termansen M. (2016): Potential and economic efficiency of using reduced tillage to mitigate climate effects in Danish agriculture. Ecological Economics, 123: 14–22.

Zemo K.H., Termansen M. (2022): Environmental identity economics: An application to farmers' pro-environmental investment behaviour. European Review of Agricultural Economics, 49: 331–358.