

Appendix

Number of papers, pairs and observations per country

Country	Number of papers	Number of pairs	Number of observations
India	21	174	3646
Turkey	8	16	679
USA	6	27	353
Brazil	5	12	166
Greece	5	9	268
China	4	14	96
Spain	3	23	264
Burkina Faso	3	16	476
Philippines	3	5	120
Costa Rica	2	23	200
Argentina	2	13	51
Kenya	2	8	134
Uganda	2	8	64
Italy	2	6	126
Australia	2	5	135
Senegal	1	22	483
Ethiopia	1	12	120
Taiwan	1	12	56
Nicaragua	1	11	246
Botswana	1	9	108
Indonesia	1	8	96
Korea	1	4	80
Niger	1	4	64
Honduras	1	4	40
Portugal	1	4	24
Bolivia	1	2	15
Thailand	1	1	180
Sri Lanka	1	1	20
Jordan	1	1	18
New Zealand	1	1	10
South Africa	1	1	10
Tanzania	1	1	10
Benin	1	1	8
Total	88	458	8366

Details of included studies

Source	publication type	no of pairs	Country	Research level	HDI	years after conversion	Certification	Crop type	Rain	Irrigation	Text. class	Input level conv.	organic input type	yield	GM	SOC
Abubaker et al. 2008	J	1	Jordan	plot	2	1	No	bean	1	yes		H	C	x		x
Adamou et al. 2007	J	4	Niger	plot	4	2.5	No	millet	1	no	5	L	CR	x		
Altieri 1999	J	5	Bolivia, Brazil	farm	3			potato, maize, soybean	3			L	CC	x		
Amarante et al. 2008	J	2	Brazil	field	2	3		apple	3		1	H	M	x		
Araújo et al. 2008	J	4	Brazil	plot	2	0.5-2		acerola	3		5	H	M			x
Artukoglu et al. 2010	J	1	Turkey	farm	2	5.5		olive	2			H	O	x		
Baconguis and Cruz 2005	J	1	Philippines	farm	3	4	no	rice	4			H	O			
Gundogmus and Bayramoglu 2006; Bayramoglu and Gundogmus 2008	J	1	Turkey	farm	2	10.5		raisin	2			L	O	x	x	
Bettiol et al 2004	J	2	Brazil	plot	2	1	no	tomato	4		1	H	C	x		
Beuchelt and Zeller 2011	J	1	Nicaragua	farm	3	6	yes	coffee	4	no		L	O	x	x	
Bilalis et al. 2010	J	2	Greece	plot	1	1		cotton	2	yes	2	H	CC	x		
Blaise 2006	J	3	India	plot	3	9-11	yes	cotton	2	no	1	L	O	x		x
Bunch 1999	J	4	Honduras	farm	3	13	no	maize	4	no		L	O	x		
Carter et al. 1992	J	9	Botswana	plot	3	1	no	millet	1	no	4,5	L	M	x		
Chang et al. 2008	J	12	Taiwan	plot	1	4	no	spinach, lettuce	3	yes	1	H	C, M			x
Citak and Sonmez 2010	J	4	Turkey	plot	2	1	yes	spinach	2	yes	2	H	M	x		
Colla et al. 2002	J	1	USA	plot	1	10	yes	tomato	1	yes	3	H	O	x		x
de Jager et al. 2004	J	2	Uganda	farm	4			maize, bean	3		3	L	M	x	x	
Demiryurek and Ceyhan 2008	J	1	Turkey	farm	2	9	yes	hazelnut	2			H	O	x	x	
Derrick and Dumaresq 1999	J	1	Australia	field	1	30	yes	mixed	1			H	O			x
Dima and Odero 1997	J	4	Kenya	plot	4	2	no	bean, cabbage, potato, carrot	3	no	4	L	O		x	
Diop 1999	J	22	Senegal	farm	4	1-5	no	peanut, millet	2	no	5	L	M, C	x		
Diop et al. 1998	R	4	Kenya	farm	4	3	no	maize	2	no		H	M, C	x	x	
Edwards 2007	B	12	Ethiopia	farm	4	1,7	no	bean, millet, maize, teff, wheat, barley	1	no		L	C	x	x	
Eyhorn 2006	B	14	India	field	3	4-5	yes	cotton, pepper, maize, pea, sorghum, soybean, wheat	2	yes		H	O	x	x	x
FAO 2007	C	1	Sri Lanka	plot	3	1	no	rice	4	yes		H	M	x	x	
Ferrigno et al. 2006	R	2	India	farm	3	4		cotton	1	yes		H	O	x	x	
Flores and Sarandon 2004	J	1	Argentina	farm	2		yes	mixed	2	no		H	O	x	x	
Freitas et al. 2011	J	1	Brazil	field	2	3	no	grape	2	yes	5	H	C			x
Ge et al. 2011	J	2	China	field	3	4	yes	mixed	3	yes	5	H	M			x
Gu et al. 2009	J	2	China	plot	3	22	no	rice, wheat	3	yes		L	M	x		
Gundogmus 2006a and Gundogmus 2006b	J	4	Turkey	farm	2	7-9	yes	apricot	1	yes		H	O	x		
Gundogmus 2007	J	3	Turkey	farm	2	10-12	yes	fig	2	yes		H	M	x		
Gundogmus 2010	J	1	Turkey	farm	2	10	yes	fig	2	yes		H	M		x	
Hagggar et al. 2011	J	22	Costa Rica, Nicaragua	plot	2,3	1-6		coffee	4	no		H	O	x		
Herencia et al. 2008	J	12	Spain	plot	1	1-3.5		potato, carrot, lettuce, spinach, tomato	2	yes	4	H	C, M	x		x
Hough 2003	R	1	South Africa	farm	3	3		grape	1	yes		H	O	x	x	
Ikemura et al. 2008	J	9	USA	field	1	3,6,9		mixed	1	yes	2	H	M			x
Karungi et al. 2006	J	6	Uganda	plot	4	1	no	bean	4	yes, no	2	L	C	x	x	

Kharub and Chander 2008	J	7	India	plot	3	1-3	no	rice, wheat	3	yes	3	H	M	x		
Kler and Walia 2006	J	1	India	plot	3	6	no	wheat	3	yes	5	H	M	x		
Kshirsagar 2006	J	2	India	farm	3		yes	sugarcane	3	yes		H	O	x	x	
Kumara Charyulu and Biswas 2010	R	8	India	farm	3	2.5		rice, wheat, cotton, sugarcane, wheat	2,3	yes		H	O	x	x	
Li et al. 2007	J	8	China	plot	3	16	no	wheat	2	yes	4	H	O	x		x
Liu et al. 2007	J	3	USA	farm	1	17-19	yes	mixed	3	yes	5	H	O			x
Lopes et al. 2011	J	4	Portugal	plot	1	2		rice	3	yes	3	H	C			x
Lyngbæk 2000	B	11	Costa Rica	farm	2	3,4,5,7,12	yes, no	coffee	4	no	3,4	H	O	x		
Mankotia et al. 2006	J	2	India	plot	3	2	no	rice, wheat	4	?	2	H	M	x		
Marinari et al. 2006	J	3	Italy	field	1	7,8	yes	mixed	2	no	3	H	O			x
Marinari et al. 2010	J	2	Italy	plot	1	5,7	no	mixed	2	yes	2	H	O			x
Melero et al. 2006	J	6	Spain	plot	1	5,6	yes	bean, mellon	2	yes	5	H	C	x		x
Mendoza 2005; Mendoza 2004	J	2	Philippines	farm	3	4		rice	4	yes	4	L, H	O	x		
Moccia et al. 2006	J	12	Argentina	plot	2	7,8		cherry tomato, lettuce	2		2	H	M, CC, CR	x		x
Moeskops et al. 2010	J	8	Indonesia	farm	3	2,5,8,23		scallion, cabbage, tomato, potato	4	no	3,2	H, L	C			x
Monokrousos et al. 2006	J	4	Greece	field	1	2,3,5,6		asparagus	2		3	H	M			x
Munda et al. 2008	J	4	India	plot	3	1,2	no	rice, mustard	4		2	L	O	x	x	
Mygdakos et al. 2007	J	1	Greece	plot	1	2	yes	cotton	2	yes	2	H	CC	x	x	
OECD 2003	C	5	Korea, Italy	farm	1		yes	rice, lettuce, cabbage, pepper, orange	3			H	O	x		
Ouédraogo et al. 2001	J	4	Burkina Faso	farm	4	1		sorghum	2	no	5	L	C	x		
Ouédraogo et al. 2007	J	4	Burkina Faso	plot	4			sorghum	2	no	5	L	CR, M	x		x
Panneerselvam et al. 2011	J	13	India	farm	3	2.5,4,6	no, yes	rice, wheat, peanut, cotton, pea, oilseeds	2,4		3	L, H	O	x	x	
Panwar et al. 2010	J	2	India	plot	3	3	no	mixed	3	yes	1	L	M			x
Pornpratansombat 2010	B	1	Thailand	farm	3	4	yes	rice	3	no	4	H	O	x	x	
Pushpalatha 1992	R	2	India	farm	3	8		rice, peanut	2	yes		H	O	x		
Qingquan 2002	R	2	China	field	3	?		rice	3			H	O	x		
Ramesh et al. 2009	J	21	India	plot	3	1-4	no	soybean, wheat, mustard, pea, isabgol	3	yes	1	L, H	M	x		
Ramesh et al. 2010	J	50	India	farm	3	6	yes	vegetables, fruit, rice, wheat, soybean, pea, peanut, sugarcane, cotton, cashew, banana, mango, guava, coconut, pepper, coffee, turmeric, potato	2,4	?		H	O	x	x	
Ratter 2002	R	1	Tanzania	farm	4	4	yes	cotton	2	no	3	L	M	x	x	
Reganold et al. 2010	J	2	USA	field	1	6	yes	strawberry	2	?	5	H	C			x
Rickman 2004	R	2	Philippines	plot	3	1		rice	4	yes		H, L	O	x		
Romanyà and Rovira 2007	J	6	Spain	field	1	18		wheat, barley	2	yes	2	H	M			x
Rupela et al. 2004; Rupela et al. 2006	B	18	India	plot	3	2-6	no	sorghum, pea, cotton, maize	2	no	1	L	CR, C	x		
Russo and Taylor 2006	J	9	USA	plot	1	1-3	no	pepper, cucumber, maize	2	yes	4	L	M	x	x	
Ryan et al. 2004	J	4	Australia	field	1	7,29,30,31		wheat	1	no	3	H	CC	x		
Saidou et al. 2003	J	1	Benin	plot	4	1		maize	4	no	1	L	CR	x		
Singh et al. 2007	J	16	India	plot	3	1-3	no	sugarcane	2	yes	4	H	X			x
Sirohi et al. 2001; Narayanan 2005	R	10	India	field	3	1-7	yes	cotton, soybean	2			H	O	x		x
Solomou and Sfougaris 2011	J	1	Greece	farm	1	8	yes	olive	2	no	2	H	M	x		
Surekha et al. 2010	J	4	India	plot	3	1,2	no	rice	2	yes	1	H	O	x		
Swezey et al. 1998	J	3	USA	plot	1	1-3	yes	apple	2	yes	3	L	M	x	x	

Turhan et al. 2008	J	1	Turkey	farm	2	?	yes	tomato	2	?		H	O	x	x	
Tzouvelekas et al. 2001	J	1	Greece	farm	1	?	yes	olive	2	no		H	O	x	x	
Van Der Werf and de Jager 1992	R	5	India	farm	3	4	no	rice, peanut, millet, sorghum	2	yes		H	O	x		
Venugopalan et al. 2010	J	9	India	farm	3	10,12,14	yes	cotton, sorghum, soybean, pea, bean	2	no, yes	1	H	M	x		
Verma et al. 2006	J	2	India	plot	3	4	no	maize, wheat	2		3	H, L	M	x		

Abbreviations

Publication type	
J	Journal article
B	Book
R	Report
C	Conference paper

HDI (Human Development Index)	
1	Very high
2	high
3	medium
4	low

Rainfall	
1	< 500
2	500 - 1000
3	1000 – 1500
4	> 1500

Texture	
1	Clay
2	Sandy clay, silty clay, (silty) clay loam
3	Sandy clay loam, loam
4	Silty loam, sandy loam
5	Sand, loamy sand, silt

Input level conventional system	
H	High input (>100 kg N/ha)
L	Low input (<100 kg N/ha)

Organic input type	
M	Manure
CC	Cover crops
CR	Crop residues
C	compost
O	others

Others	
GM	Gross margin
SOC	Soil organic carbon

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