



Summary of key scientific publications regarding biochar on main temperate crops

TYPE OF CROP	AUTHORS	LOCATION	TYPE OF SOILS	QUANTITY OF BIOCHAR (T/HA)	YIELD INCREASES (%)
Rice	Lugato et al.	Northern Italy	aguic hapludalf	40	36%
Rice	Zhang et al.	Shenyang, China	sandy loam	30	40%
Maize	Uzoma et al.	Tottori, Japan	sandy soil	15	150%
Maize	Peng et al.	Yingtian, China	ultisol	2,4	64%
Soyabean	Tagoe et al.	Gifu, Japan	–	3,8	43%
Wheat	Van Zwieten	NSW, Australia	ferralsol	15	170%
Wheat	Vaccari et al.	Postoia, Italy	silty loam	30	33%
Canola	Pervej-Ahmed et al.	Saskatchewan, Canada	brown loam soil	1	20%
Barley	Gathorne-Hardy et al.	United Kingdom	light soil	20	43%
Choy sum	Jia et al.	Nanjing, China	fimi-orthic anthrosol	30	96%
Radish	Chan et al.	NSW, Australia	chromosol	10	42%
Sweet pepper	Graber et al.	Israel	commercial soilless mixture	8	79%
Satsuma tree	Ishii et al.	Matsuyama, Japan	–	83,5	57%
Quinoa	Kamman et al.	Germany	sandy loam brown earth	100	44%