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Bibliography

* Main page of FAO about organic farming

Retrieved from: <http://www.fao.org/organicag/oa-faq/oa-faq6/en/>

* Can conventional agriculture feed the world? Wu university webpage

Retrieved from: <https://www.wur.nl/en/show/Can-conventional-agriculture-feed-the-world.htm>

* How can organic farming compete with conventional farming

Retrieved from: <https://www.organicnet.co/info-center/resource/show/how-can-organic-farming-compete-with-conventional-farming>

* The Sustainability Assessment of Food and Agriculture systems (SAFA) Guidelines

Retrieved from: <http://www.fao.org/3/a-i3957e.pdf>

* Environmental impact of organic vs. conventional- a review. Warsaw University of Life Sciences (WULS-SGGW), Department of Functional and Organic Food and Commodities,Faculty of Human Nutrition and Consumer Sciences, Chair of Organic Food

ul. Nowoursynowska 159C, 02-776 Warszawa, Poland

Retrieved from: <http://www.pimr.poznan.pl/biul/2016_4_DSAO.pdf>

* Organic vs. conventional farming: Which has lower environmental impact?

Retrieved from: <https://geneticliteracyproject.org/2016/07/25/organic-vs-conventional-farming-lower-environmental-impact/>

* Crop rotations on organic farming, Keith r. Baldwin, NC state university of agriculture and life sciences

Retrieved from: <http://www.oacc.info/Docs/Cefs/Crop_Rotations.pdf>

* Design of an organic farming crop rotation experiment

Jørgen E. Olesen1\*, Margrethe Askegaard1

 and Ilse A. Rasmussen2 Danish Institute of Agricultural Sciences, Department of Crop Physiology and Soil Science, Tjele, Denmark

 <http://orgprints.org/346/1/A0018.pdf>

* Comparing the yields of organic and conventional agriculture,V. Seufert, N.Ramankutty, Nature magazine, April 2012

Retrieved from: [file:///C:/Users/Nikos/Downloads/nature11069.pdf](file:///C%3A/Users/Nikos/Downloads/nature11069.pdf)

* Diversification practices reduce organic to conventional yield gap, Lauren C. Ponisio1, Leithen K. M’Gonigle, Kevi C. Mace, Jenny Palomino,Perry de Valpine and Claire Kremen, Department of Biological Science, Florida State University, Tallahassee, FL 32306, USA

Retrieved from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4286047/pdf/rspb20141396.pdf>

* Environmental Impact of Different Agricultural Management Practices: Conventional vs. Organic Agriculture, Tiziano Gomieroa ; David Pimentelb ; Maurizio G. Paolettia a Laboratory of Agroecology and Ethnobiology, Department of Biology, Padova University, Padova, Italy b College of Agriculture and Life Sciences, Cornell University, Ithaca, New York, USA Online publication date: 29 April 2011

Retrieved from: <http://www.biobio-indicator.org/publications/Gomiero_2011.pdf>

* Organic versus conventional farming, which performs better financially? Farm Economics Brief No 4, November 2013

Retrieved from: <http://ec.europa.eu/agriculture/rica/pdf/FEB4_Organic_farming_final_web.pdf>