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Temporary Dataset Download: LUCAS 2018 TOPSOIL data

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Name of User	Moaaz Sherif
Organization	Benha University
Type of Organization	University
-- Other	
E-mail	moaazshrif246@gmail.com
Purpose	The dataset will be used for academic research and the development of an AI-powered precision agriculture platform called Terriva. The data will be used to train and validate machine learning and deep learning models for soil property prediction, fertilizer recommendation, and sustainable farm management using satellite imagery, weather data, and geospatial analysis. The dataset will be used strictly for research and educational purposes.
Notes	

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Technical assistance concerning the use of the LUCAS data can be obtained from : ec-esdac@ec.europa.eu

References:

How to cite the data and associated report/scientific publications:

Fernandez-Ugalde, O; Scarpa, S; Orgiazzi, A.; Panagos, P.; Van Liedekerke, M; Marechal A. & Jones, A. [LUCAS 2018 Soil Module. Presentation of dataset and results](#), EUR 31144 EN, Publications Office of the European Union, Luxembourg. 2022, ISBN 978-92-76-54832-4, doi:10.2760/215013, JRC129926

[Scientific publication](#) describing the LUCAS survey as a whole.

Orgiazzi, A., Ballabio, C., Panagos, P., Jones, A., Fernández-Ugalde, O. 2018. **LUCAS Soil, the largest expandable soil dataset for Europe: A review.** *European Journal of Soil Science*, 69(1): 140-153. <https://doi.org/10.1111/ejss.12499>