

**Subscription Information:** *Social Science History* (ISSN 1527-8034) is published quarterly in February, May, August, and November by Cambridge University Press for the Social Science History Association. Periodicals postage rate paid at New York, NY, and at additional mailing offices. POSTMASTER: Send address changes in the USA, Canada, and Mexico to: *Social Science History*, Cambridge University Press, Journals Fulfillment Department, One Liberty Plaza, 20th Floor, New York, NY 10006. Send address changes elsewhere to *Social Science History*, Cambridge University Press, Journals Fulfillment Department, One Liberty Plaza, 20th Floor, New York, NY 10006. Annual subscription rates for Volume 45 (2021): Institutional subscription rate, print and electronic: US \$402 in the U.S.A., Canada, and Mexico; UK £275 elsewhere. Institutional subscription rate, electronic only: US \$320 in the U.S.A., Canada, and Mexico; UK £223 elsewhere. Single part rates, print only: US \$110.00 in the U.S.A., Canada, and Mexico; UK £75 elsewhere.

Individuals who wish to receive the journal must be members of the SSHA. Please visit the SSHA website, <http://ssha.org>, for further details.

# SOCIAL SCIENCE HISTORY

VOLUME 45 | NUMBER 4 | WINTER 2021

## SPECIAL ISSUE: SOILS AND SUSTAINABILITY

**Geoff Cunfer**

*Introduction to Soils and Sustainability Special Issue* ..... 617

## SPECIAL ISSUE ARTICLES

**Dino Güldner**

*Contested Grasslands: Commons and the Unequal Land-Costs to Sustain Soil Fertility in Preindustrial Agriculture* ..... 625

**Beatriz Corbacho González and Roc Padró Caminal**

*Agricultural Intensification and Soil Fertility in Atlantic Spain, 1750–1890* ..... 657

**Elena Galán**

*Regional Soil Nutrient Balances for Cropland in 1920s Catalonia, Spain* ..... 681

**Miguel Carmo and Tiago Domingos**

*Agricultural Expansion, Soil Degradation, and Fertilization in Portugal, 1873–1960: From History to Soil and Back Again* ..... 705

**Geoff Cunfer**

*Soil Fertility on an Agricultural Frontier: The US Great Plains, 1880–2000* ..... 733

**Laura Larsen**

*Trawling the Ocean of Grass: Soil Nitrogen in Saskatchewan Agriculture, 1916–2001* ..... 763

**Dino Güldner, Laura Larsen and Geoff Cunfer**

*Soil Fertility Transitions in the Context of Industrialization, 1750–2000* ..... 785

## RESEARCH ARTICLES

**Dylan Riley, Rebecca Jean Emigh and Patricia Ahmed**

*The Social Foundations of Positivism: The Case of Late-Nineteenth-Century Italy* ..... 813

**Daniel MacDonald**

*Internal Migration and Sectoral Shift in the Nineteenth-Century United States* ..... 843

**David Andersen, Carsten Jensen and Magnus B. Rasmussen**

*Suffering from Suffrage: Welfare State Development and the Politics of Citizenship Disqualification* ..... 863

Cambridge Core

For further information about this journal please  
go to the journal web site at:

[cambridge.org/ssh](https://www.cambridge.org/ssh)

CAMBRIDGE  
UNIVERSITY PRESS