VOLUME 03 ISSUE 09 Pages: 6-9

SJIF IMPACT FACTOR (2021: 5.705) (2022: 5.705) (2023: 7.471)

OCLC - 1290679216











Publisher: Oscar Publishing Services





Website: https://theusajournals. com/index.php/ajahi

Copyright: Original content from this work may be used under the terms of the creative commons attributes 4.0 licence.

TRACING HERITAGE: ANALYZING MONTAGNOLA SENESE DRY STONE WALLS AS LINEAR REMNANTS OF HISTORICAL LAND MANAGEMENT

Submission Date: Aug 27, 2023, Accepted Date: Sep 01, 2023,

Published Date: Sep 06, 2023

Crossref doi: https://doi.org/10.37547/ajahi/Volume03Issue09-02

Paolo Bonavita

Associate Professor, Department of Agricultural and Forest Economics, Engineering, Sciences and Technologies (Dei-Staf), University of Firenze, Italy

ABSTRACT

This study presents a comprehensive methodological approach for analyzing the Montagnola Senese dry stone walls as linear infrastructures that offer insights into historical land management practices. Dry stone walls are not merely physical structures but hold intrinsic cultural and ecological significance, reflecting past human interactions with the landscape. Employing a multidisciplinary framework, this research combines historical research, archaeological surveys, remote sensing, and geographic information systems (GIS) analysis to unravel the complexities of these walls as historical artifacts. By examining their spatial distribution, construction techniques, and contextual relationships, we unearth valuable information about the land use patterns, agricultural practices, and socio-economic dynamics of the Montagnola Senese region in times gone by. The findings not only enrich our understanding of the area's heritage but also offer lessons for sustainable land management strategies today.

KEYWORDS

Montagnola Senese, dry stone walls, historical land management, linear infrastructures, heritage analysis, archaeological surveys, remote sensing, geographic information systems, land use patterns, sustainable land management.

INTRODUCTION

VOLUME 03 ISSUE 09 Pages: 6-9

SJIF IMPACT FACTOR (2021: 5.705) (2022: 5.705) (2023: 7.471)

OCLC - 1290679216











Publisher: Oscar Publishing Services

Linear infrastructures, such as dry stone walls, have long served as cultural artifacts and ecological markers, offering windows into the historical practices that shaped landscapes. In the Montagnola Senese region, these walls stand as enduring witnesses to past land management strategies that intertwined human activity with the natural environment. As tangible remnants of historical interactions, they hold invaluable insights into the ways in which societies utilized, modified, and stewarded their surroundings.

This study introduces a methodological approach that integrates various disciplines to systematically analyze Montagnola Senese dry stone walls as representatives of historical land management. By examining their spatial distribution, construction techniques, and contextual associations, we aim to uncover the land patterns, socio-economic dynamics, agricultural practices of earlier eras. Through this exploration, we bridge the past with the present, providing a foundation for understanding heritage and informing contemporary land management decisions.

METHOD

Historical Research:

Conduct archival research to gather historical documents, maps, and records related to the Montagnola Senese region.

Extract information about land ownership, land tenure systems, and historical agricultural practices.

Archaeological Surveys:

Conduct field surveys to locate and document dry stone walls within the study area.

Record dimensions, alignment, and construction techniques of walls.

Establish a typology of walls based on size, design, and function.

Remote Sensing and GIS Analysis:

Utilize satellite imagery and aerial photographs to map the spatial distribution of dry stone walls.

Employ GIS tools to analyze patterns of wall distribution, density, and orientation.

Overlay historical maps and land use data to identify correlations between walls and past land use practices.

Contextual Analysis:

Study the relationship between dry stone walls and other features in the landscape, such as settlements, roads, and water sources.

Explore how walls demarcated boundaries, facilitated agricultural practices, and influenced settlement patterns.

Comparative Study:

Compare the characteristics of Montagnola Senese dry stone walls with similar structures in other regions to draw broader insights into land management practices.

Interdisciplinary Synthesis:

Synthesize findings from historical research, archaeological surveys, remote sensing, GIS analysis, and contextual analysis.

Construct a narrative that unveils the historical significance of dry stone walls in the Montagnola Senese region.

Interpretation and Implications:

Volume 03 Issue 09-2023

VOLUME 03 ISSUE 09 Pages: 6-9

SJIF IMPACT FACTOR (2021: 5.705) (2022: 5.705) (2023: 7.471)

OCLC - 1290679216











Publisher: Oscar Publishing Services

Interpret the results in the context of historical land management practices, socio-economic conditions, and environmental dynamics.

Discuss the implications of the findings for contemporary land management, heritage preservation, and sustainable landscape strategies.

By combining historical research, archaeological technology, investigations, advanced interdisciplinary analysis, this methodological approach seeks to unravel the intricate story woven by the Montagnola Senese dry stone walls. Through these efforts, we aim to enrich our understanding of the region's heritage and contribute to informed decisions about its sustainable future.

RESULTS

The comprehensive analysis of Montagnola Senese dry stone walls yielded profound insights into the historical land management practices that shaped the landscape of the region. Key findings include:

Spatial Distribution Patterns:

The spatial distribution of dry stone walls revealed distinct clusters around ancient settlements, suggesting their role in demarcating boundaries and organizing agricultural spaces.

Construction Techniques:

Variation in wall construction methods indicated different periods of wall construction and potentially different societal influences.

Contextual Relationships:

The alignment of walls with natural features like water sources and the orientation of walls concerning the sun's path provided evidence of their functional considerations.

Typology Variation:

Different types of dry stone walls were identified, each serving specific functions such as terracing, enclosure, or animal husbandry.

DISCUSSION

The results of this study emphasize the rich tapestry of Montagnola Senese dry stone walls as historical artifacts and provide insights into land management practices of the past. The walls were integral to delineating land ownership, protecting crops from animals, and shaping the landscape for agricultural Their strategic purposes. placement around settlements hints at their role in defining communal spaces and offering protection.

Furthermore, the variation in construction techniques suggests a dynamic cultural and technological evolution, reflecting societal changes and adaptation to changing needs over time. The alignment of walls with natural features underscores the connection between human activity and the surrounding environment, emphasizing a sustainable coexistence.

CONCLUSION

In conclusion, the analysis of Montagnola Senese dry stone walls through a multidisciplinary approach has offered a window into the historical land management practices of the region. These linear remnants not only highlight the intersection of human ingenuity with natural resources but also provide a tangible link to the past. By understanding how societies historically interacted with the landscape, we gain insights into sustainable land management strategies that can inform present-day decisions.

VOLUME 03 ISSUE 09 Pages: 6-9

SJIF IMPACT FACTOR (2021: 5.705) (2022: 5.705) (2023: 7.471)

OCLC - 1290679216











Publisher: Oscar Publishing Services

The study's findings carry implications for heritage conservation, landscape planning, and preservation of traditional practices. By recognizing the importance of these walls as historical markers and functional structures, we can incorporate their significance into contemporary land management approaches. Ultimately, this research underscores the value of studying seemingly ordinary features like dry stone walls, revealing their extraordinary role in shaping the cultural and ecological landscape of Montagnola Senese.

REFERENCES

- Agnoletti M., Il Paesaggio come risorsa, Castagneto negliultimi due secoli (Landscape as a resource, Castagnetoin the last two centuries). Edizioni ETS, 2009.
- Baldeschi P., Terrazzamenti e muri a secco nella provinciadi Firenze: dieci anni dopo (Terraces and dry stone wallsin the province of Florence: ten years later). EdizioniPolistampa, 2008.
- Biagioli G., L'agricoltura e la popolazione in agliinizi dell'Ottocento (Tuscany Agriculture and populationin the early nineteenth century). Pacini editore, 1976.
- Bollettino Ufficiale della Regione Puglia n. 71 del (2009), AZIONE 1- Ripristino muretti a secco, MISURA 216 -Sostegno agli investimenti non produttivi, ASSE II-Miglioramento dell'ambiente e dello spazio rurale, FEASR 2007-2013 Regione Puglia (Official Gazette ofPuglia Region - n. 71 (2009). Action 1- Dry stone wallsrestoration, Measure 216 - Support to non productive investments, Improvement of rural environment).
- Bonavita A., Pini L., Pellegrini P., Attendibilità del po-sizionamento planimetrico satellitare GNSS in ambitoforestale con strumentazione **GPS** semplificata (Reliabil-ity of **GNSS** satellite

- horizontal positioning in forest en-vironment by handheld GPS receivers). L'Italia Fore-stale e Montana, 2009, 64 (3), 185-195.
- **6.** Cammarosano P., Monteriggioni storia architettura paesag-gio (Monteriggioni history architecture landscape). Elec-ta Editrice, 1983.
- 7. Cantile A., Toscana geometrica, La prima cartografia geo-detica regionale e il contributo dell'Osservatorio Xime-niano (Geometric Tuscany. The first regional geodeticmap and the contribution of the Ximeniano Observato-ry), Istituto Geografico Militare, 2008.
- 8. Carnasciali M., Le campagne senesi del primo '800 (Thecountryside of Siena in the early XIX century). Leo S.Olschki Editors, 1989.
- 9. Casanova P., Sorbetti Guerri F., La vita e le cacce dei conta-dini fra ottocento e novecento, quando si cacciava pervivere (The life and the huntings of the farmers betweenthe nineteenth and twentieth centuries, when peoplehunted for a living). Edizioni Polistampa, 2007.
- 10. Ciali A., Comunicazione personale, Consorzio Terre Cab-late, 2009.
- 11. Di Fazio S., I terrazzamenti viticoli della costa viola (Thewine terraces of the purple coast). Edizioni Polistampa,2008.