Sedentarization and Nomadization

Øystein Sakala LaBianca
HESBAN

Series Editors

Lawrence T. Geraty
Øystein Sakala LaBianca

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ANDREWS UNIVERSITY
SEDENTARIZATION
AND
NOMADIZATION:

FOOD SYSTEM CYCLES AT
HESBAN AND VICINITY
IN TRANSJORDAN

by

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HESBAN 1

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Appendix A

BIBLIOGRAPHY OF HESBAN-RELATED SCHOLARLY PUBLICATIONS
Appendix A

Bibliography of Hesban-Related Scholarly Publications

Editor's note: the following abbreviations have been used in this appendix. ADAJ (Annual of the Department of Antiquities of Jordan), AUSS (Andrews University Seminary Studies, and ASOR (American Schools for Oriental Research).

Alomia, M. K.

Ayalon, M.

Battenfield, J. R.

Beegle, D. M.


Bird, P. A.

Blaine, M.

Boessneck, J., and von den Driesch, A.


Boraas, R. S.


Boraas, R. S., and Geraty, L. T.


Boraas, R. S., Geraty, L. T., et al.


Boraas, R. S., and Horn, S. H.


Boraas, R. S.; Horn, S. H.; et al.


Brower, J. K.; LaBianca, Q. S.; and Mitchel, L. A.
1982 Stages in the Development of an Archaeological Data Base: Goals Envisaged, Work Done, and Lessons Learned in an Effort to Computerize Stratigraphic and Typological Data from the Excavations at Tell Hesban, Jordan. Unpublished manuscript.

Brower, J. K., and Storjell, J. B.

Brown, R. M.

Bullard, R. G.

Campbell, E. F.

Chapman, B. C.

Coleman, R. O.

Cox, J. J. C.

Crawford, P.

Crawford, P., and Gilliland, D. R.

Crawford, P., and LaBianca, Q. S.

Crawford, P.; LaBianca, Q. S.; and Stewart, R. B.

Cross, F. M.


Davis, J. J.


De Vries, B.


Geraty, L. T.


1977b Hesban (Heshbon). Revue Biblique 84: 404-408.

1977c Heshbon in the Bible, Literary Sources, and Archaeology. Paper Presented at the Annual Meeting of ASOR, December 29, San Francisco.


Geraty, L. T., and Boraas, R. S. [See Boraas, R. S., and Geraty, L. T.]


Horn, S. H. 1968a The First Season of Excavations at Heshbon, Jordan. ASOR Newsletter No. 3: 1-5.


Horn, S. H., and Boraas, R. S.

Horn, S. H.; Maxwell, C. M.; and Waterhouse, S. D.


Ibach, R.


1980 Hesban Region. Paper Presented at the Annual Meeting of ASOR. November 8, Dallas.

Ibach, R., and Waterhouse, S. D.

[See Waterhouse, S. D., and Ibach, R.]

James, H. E.


Kotter, W. R.


Kritzeck, J.


Kritzeck, J. A., and Nitowski, E. L.


LaBianca, G. S.


Andrews University Institute of Archaeology.


1977 Local Habitat and Modes of Livelihood at Heshbon through Time: A Summary of Methods and Emerging Conclusions. Paper Presented at the Annual Meeting of ASOR. December 29, San Francisco.


1983 The Little Man of Hesban: A Microhistorical Analysis of a Jordanian Food
System. Paper Presented at the Symposium on Ancient Mediterranean Food Systems during the Annual Meeting of ASOR. December 21, Dallas.


graduate Thesis Report, Drexel University.

Lugeneal, E. N., and Sauer, J. A.

Mare, W. H.


Maxwell, C. M.; Horn, S. H.; and Waterhouse, S. D.
[See Horn, S. H.; Maxwell, C. M.; and Waterhouse, S. D.]

Mitchel, L. A.


1982 The Hellenistic and Roman Periods at Tell Heshan, Jordan. AUSS 20: 67-68.

Mitchel, L. A.; Brower, J. K.; and LaBianca, O. S.
[See Brower, J. K.; Mitchel, L. A.; and LaBianca, O. S.]

Mitchel, L. A.; LaBianca, O. S.; and Perkins, P. W.
[See LaBianca, O. S.; Mitchel, L. A.; and Perkins, P. W.]

Nitowski, E. L.

Nitowski, E. L., and Kritzeck, J. A.
[See Kritzeck, J. A., and Nitowski, E. L.]

Parker, S. T.

Perkins, P. W.; LaBianca, O. S.; and Mitchel, L. A.

Platt, E. E.

Russell, M. B.

Sauer, J. A.


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Shea, W. H.


Stewart, R. B.; Crawford, P.; and LaBianca, Q. S. [See Crawford, P.; Stewart, R. B.; and LaBianca, Q. S.]

Stirling, J. H.


Storjell, J. B.


Storjell, J. B., and Brower, J. K. [See Brower, J. K., and Storjell, J. B.]

Terian, A.


Thompson, H. O.


Van Elderen, B.


Von den Driesch, A., and Boessneck, J. [See Boessneck, J., and von den Driesch, A.]

Vyhmeister, W. K.

1968 The History of Heshbon from Literary Sources. AUSS 6: 158-177.

Waterhouse, S. D.

Waterhouse, S. D.; Horn, S. H.; and Ibach, R. [See Horn, S. H.; Waterhouse, S. D.; and Ibach, R.]

Waterhouse, S. D., and Ibach, R.

Weiler, D.

Wimmer, D. H.

Endnote

*This list does not include manuscripts for the Hesban Final Publication Series. See Appendix B for the list of volumes in this series.
Appendix B

OVERVIEW OF
THE HESBAN FINAL PUBLICATION SERIES
Appendix B

Overview of the Hesban Final Publication Series

Editor's Note: When completed, the Hesban Final Publication Series will consist of 14 volumes in five parts.

The first part (Hesban 1) offers an integrative account of cultural changes at Hesban and vicinity from a food systems perspective.

The second part (Hesban 2-4) contains background studies of Hesban's local environment, history from literary sources, and present-day inhabitants.

The third part (Hesban 5-9) discusses the archaeological survey of the Hesban region with stratigraphy interpretation from the Iron Age, Hellenistic-Roman, Byzantine-Early Islamic, and Ayyubid-Mamluk periods.

The fourth part (Hesban 10-13) presents the results of specialists' studies of the Roman-Byzantine cemetery, the pottery, the objects, and the animal remains.

The fifth part (Hesban 14) evaluates the implications of all of the above studies for our understanding of biblical and ancient Near Eastern history. The volumes are being made available as work on the various manuscripts is completed and not necessarily in numerical order.

Hesban 1: Sedentarization and Nomadization
Øystein Sakala LaBlanca (Andrews University)

This volume pulls together the various lines of evidence presented in the other 13 volumes to reconstruct and explain the cultural changes which have taken place over the past 3,500 years at Hesban and vicinity. To this end, the volume employs the food system concept and related theoretical constructs, such as sedentarization and nomadization, upon which our understanding of cultural change at Hesban pivots.

Contents: Introduction to the Food System Concept and the Heshbon Expedition; Sedentarization and Nomadization; The Hesban Area Food System during the Recent Past; From Archaeological Information to Food System Configurations; Configurations of the Food System during the Iron Age Millennium: Ca. 1200-500 B.C.; Configurations of the Food System during the Greco-Roman Millennium: Ca. 333 B.C. to A.D. 630; Configurations of the Food System during the Islamic Centuries: Ca. A.D. 630 to 1900; Intensification and Abatement: Summary and Reflections; Appendix A: Bibliography of Hesban-Related Scholarly Publications; Appendix B: Overview of the Hesban Final Publication Series; Appendix C: Sponsors and Participants of the Heshbon Expedition; Arabic Summary; Author Index; General Index. Includes 47 figures, 83 plates, and 16 tables. 350 pages.

Hesban 2: Environmental Foundations
Edited by Øystein Sakala LaBlanca (Andrews University) and Larry Laclele (British Columbia Ministry of Environment)

An introduction to the climate and landscape to which successive generations of Hesbanites have had to adapt.

Contents: Introduction; Climate of Tell Hesban and Area; Bedrock, Surficial Geology, and Soils; Surface and Groundwater Resources of Tell Hesban and Area, Jordan; Flora of Tell Hesban and Area, Jordan; Ecology of the Flora of Tell Hesban and Area, Jordan; Paleobotany and Paleoenvironment; Conclusion; Index. Includes 26 figures, 42 plates, and 9 tables; 174 pages.

Contributors: Patricia Crawford (Boston University), Kevin Ferguson (Clark University),

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Dennis R. Gilliland (Walla Walla College), Tim Hudson (University of Southern Mississippi), Øystein S. LaBianca (Andrews University), and Larry Lacelle (British Columbia Ministry of Environment).

Hesban 3: Historical Foundations
Edited by Lawrence T. Geraty (Atlantic Union College) and Leona G. Running (Andrews University)

Volume 3 presents an analysis of Old Testament, Egyptian, Greek, Arab, and European literary references to Tell Hesban and its surrounding region.

Contents: The History of Heshbon from the Literary Sources; Hesban During the Arab Period: A.D. 635 to the Present; A Review of Critical Studies of Old Testament References to Heshbon; Appendix A: Heshbon Through the Centuries; Appendix B: Hesban in the Literary Sources Since 1806; Author Index; Biblical Reference Index; General Index. Includes 4 figures and 1 plate; 97 pages.

Contributors: Arthur J. Ferch (Andrews University), Malcolm B. Russell (Andrews University), Werner K. Vyhmeister (SDA Theological Seminary Far East)

Hesban 4: Ethnoarchaeological Foundations
Øystein Sakala LaBianca (Andrews University)

Volume 4 tells, from the perspective of an archaeologist-turned-ethnographer, how the people of Hesban and vicinity gradually converted from wandering pastoralists to villagers and townsmen over the past 150 years.

Hesban 5: Archaeological Survey of the Hesban Region
Robert D. Ibach, Jr. (Dallas Theological Seminary)

This volume offers systematic descriptions, including numerous maps and photographs, of the 148 archaeological sites visited by the expedition's regional survey team within a 10-km radius of Tell Hesban.

Contents: Introduction; Catalogue of Sites; Characterization of Periods; Summary and Conclusions; Appendix A: Project Area Sites visited by C. R. Conder in 1881-1882; Appendix B: Sample Site Report Form; Index. Includes 18 figures, 198 plates, 34 tables; 299 pages.

Hesban 6: Iron Age Strata
Edited by Lawrence T. Geraty (Atlantic Union College)

This volume presents a layer-by-layer account, including numerous plans and photographs, of the discoveries made in Tell Hesban's four Iron Age strata (12th to 5th centuries B.C.). These discoveries are interpreted in the light of contemporary natural, cultural, and historical events.

Contributors: Roger S. Boraas (Upsala College), James Brower (Andrews University), Gary Christopherson (University of Arizona), and Larry G. Herr (Canadian Union College).

Hesban 7: Hellenistic and Roman Strata
Larry A. Mitchel (Andrews University)

A layer-by-layer account of Tell Hesban's five Hellenistic and Roman strata (2nd century B.C. to the 4th century A.D.) is presented, including numerous plans and photographs of discoveries made. These discoveries are interpreted in the light of contemporary natural, cultural, and historical events.

Hesban 8: Byzantine and Early Islamic Strata
J. Bjornar Storfell (Andrews University)

Volume 8 presents a layer-by-layer account, with numerous plans and photographs, of the discoveries made in Tell Hesban's six Byzantine and Early Islamic strata (4th to the 10th centuries A.D.). These discoveries are interpreted in the light of contemporary natural, cultural, and historical events.

Hesban 9: Ayyubid-Mamluk Strata
Bert de Vries (Calvin College)

The discoveries of Tell Hesban's four Ayyubid-Mamluk strata (12th to the 15th centuries A.D.) are presented in a layer-by-layer account, including numerous plans and photographs. These discoveries are interpreted in the light of contemporary natural, cultural, and historical events.

Hesban 10: The Necropolis of Heshbon
Edited by Øystein Sakala LaBianca (Andrews University) and Lawrence T. Geraty (Atlantic Union College)

Volume 10 offers a tomb-by-tomb account, with plans and photographs, of the 41 Roman and Byzantine tombs excavated in the vicinity of Hesban's cemetery.
Contributors: George Armelagos (University of Massachusetts), John Davis (Grace Theological Seminary), Ann Grauer (University of Massachusetts), and Douglas Waterhouse (Andrews University).

Hesban 11: Ceramic Finds
James A. Sauer (American Schools of Oriental Research)

A definitive work by Jordan’s ceramic expert, this volume is devoted to typological analysis and descriptions, including numerous drawings, of the large corpus of pottery from Tell Hesban and vicinity.

Hesban 12: Small Finds
Edited by Lawrence T. Geraty (Atlantic Union College)

Volume 12 presents in text and numerous drawings and photographs studies of the large quantity of ivory, stone, iron, glass, and jewelry objects uncovered at Tel. Hesban and the nearby cemetery.

Contributors: Abdel-Jalil ‘Amr (University of Jordan), Ghazi Bisheh (Department of Antiquities, Jordan), James Cox (Columbia Union College), Frank M. Cross, Jr. (Harvard University), Lawrence T. Geraty (Atlantic Union College), Siegfried H. Horn (Andrews University), Wade Kotter (University of Arizona), Heather Lechman (Massachusetts Institute of Technology), Elizabeth E. Platt (Dubuque Theological Seminary), Mort Sajadian (University of Missouri, Columbia), Ervin Taylor (University of California, Riverside), Abraham Terlan (Andrews University), and Bastian van Elderen (Free University of Amsterdam).

Hesban 13: Faunal Remains
Edited by Øystein S. LaBianca (Andrews University)

This volume is devoted to the presentation of the zooarchaeological analysis of the nearly 100,000 animal bones uncovered in the excavations at Tell Hesban.

Contributors: Joachim Boessneck (University of Munich), Angela von den Driesch (University of Munich), Lori A. Haynes (Andrews University), Øystein Sakala LaBianca (Andrews University), Johannes Lepiksaar (Museum of Natural History, Sweden), and Herman Lindner (University of Munich).

Hesban 14: Hesban and Biblical History
Lawrence T. Geraty (Atlantic Union College and Øystein S. LaBianca (Andrews University)

Volume 14 offers conclusions regarding the significance of the Hesban project for our understanding of biblical and ancient Near Eastern history. In particular, the volume will re-examine the numerous references to Hesban and vicinity throughout the Old Testament in light of the findings reported in the previous volumes.
Appendix C

SPONSORS AND PARTICIPANTS
OF THE HESHBON EXPEDITION
Appendix C

Sponsors and Participants of the Heshbon Expedition

Editor's note: Listed here are participants and sponsors from the five seasons at Heshbon as found in the preliminary reports. Also listed are the participants' main responsibilities. Institutional affiliation is listed for core staff only, including field supervisors. To save space, the following abbreviations have been used: Arch Sur (Archaeological Survey), Architect (Architectural), Assist (Assistant), Assoc (Associate), AU (Andrews University), BU (Brandeis University), CaITS (Calvin Theological Seminary), CC (Calvin College), CovTS (Covenant Theological Seminary), Colo Lab (Ecology Lab), EW (Earthwatch), F Sup (Field Supervisor), GNYA (Greater New York Academy), GTS (Grace Theological Seminary), HU (Harvard University), IU (Indiana University), LLU (Loma Linda University), NYTS (New York Theological Seminary), Photo (Photography), Pt (Part-Time), Rep – Dept of Ant (representative, Jordan Department of Antiquities), Sq Sup (Square Supervisor), UC (Upsala College), UMun (University of Munich), vol (volunteer), Western TS (Western Theological Seminary), WTS (Wesley Theological Seminary).

1968 Campaign

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Middle East Division of Seventh-day Adventists

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Roger S. Boraas (UC) Chief Archaeologist
Mohammed Adawi (ACOR) Cook
Aina E. Boraas Pottery Restoration

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Marion Beegle Object Registrar
Geoffrey Belton Architect Draft Staff
Paul Belton Architect Draft Staff
Barbara Bergsma Sq Sup – Area A
Paul Bergsma Sq Sup – Area C & Photo Staff
Phyllis Bird (HU) F Sup – Area D
Ghazi Bisheh Rep – Dept of Art
Andrew Bowling Sq Sup – Area B
James Brashear Sq Sup – Area A
Lenore Brashear Sq Sup – Area C
Keith Bulthuis Sq Sup – Area D
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Avery Dick Chief – Photo Staff
Paul Evans Architect Draft Staff
Lawrence T. Geraty Assoc F Sup – Area D
Ed Grohman Assoc F Sup – Area B
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Kathy Hoekstra Sq Sup – Area C
Elaine Hutt Sq Sup – Area B
Norman Johnson Sq Sup – Area D
Chris Leys Sq Sup – Area D
Wayne Leys Sq Sup – Area C
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Mervyn Maxwell Assoc F Sup – Area A
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Bastiaan Van Elderen (CaITS) F Sup – Area A
Vivolyn Van Elderen Camp Director
Douglas Waterhouse Assoc F Sup – Area C
Fawzi Zayadin Rep – Dept of Ant

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Plate C.1 1968 Heshbon Expedition staff

Plate C.2 1971 Heshbon Expedition staff
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- American Community School, Amman, Jordan
- Archaeological Research Foundation of New York
- Calvin Theological Seminary, Grand Rapids, MI
- University of Jordan, Amman, Jordan

**Participants**

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| Roger S. Boraas (UC)      | Chief Archaeologist                    |                                      |         |
| Sami Abadi                | Arch Sur Staff                         |                                      |         |
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| Mohammad Adawi (ACOR)     | Cook                                   |                                      |         |
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| James R. Battenfield      | Sq Sup--Area B                         |                                      |         |
| Dewey M. Beegle (WTS)     | F Sup--Areas F & G                     |                                      |         |
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| Paul J. Bergsma           | Photo Staff                            |                                      |         |
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| Jack B. Bohannon          | Sq Sup--Area D                         |                                      |         |
| Elisabeth G. Burr         | Sq Sup--Area & F                       |                                      |         |
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| Omar Daoud                | Sq Sup--Area C                         |                                      |         |
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| Lawrence T. Geraty (AU)   | F Sup--Area D                          |                                      |         |
| Samir Ghishan             | Sq Sup--Area D                         |                                      |         |
| Susan A. Hamilton         | Sq Sup--Area C                         |                                      |         |
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