YOTVATA

The Ze'ev Meshel Excavations (1974–1980) The Iron I "Fortress" and the Early Islamic Settlement

Lily Singer-Avitz and Etan Ayalon

This book presents the final report of the excavations at Yotvata, in the southern Arabah Valley, conducted by the Sonia and Marco Nadler Institute of Archaeology of Tel Aviv University in 1974-1980 under the direction of Dr. Ze'ev Meshel. The report covers two central sites: a fortified Iron I site and an Early Islamic settlement. The Iron I remains consist of an irregular casemate wall, surrounding a courtyard, built atop a steep hill. It is argued that this site was established in order to protect the oasis—the main source of water and wood supply for the copper mines in Timna—and to overlook the nearby crossroads extending along the Arabah Valley. Excavation of the Early Islamic settlement, northeast of the oasis, revealed a large courtyard building, a nearby bathhouse and other structures. The settlement's proximity to a sophisticated irrigation system and the finds uncovered here suggest that it served as the center of an agricultural estate owned by an elite Muslim family. The excavations at the Yotvata oasis have made a major contribution to the study of Early Islamic settlement history and material culture in the greater Arabah region.

Lily Singer-Avitz specializes in the archaeology of the Bronze and Iron Ages in the Land of Israel and has written extensively on issues of chronology, trade and pottery of these periods. She was the registrar of the archaeological excavations of Tel Aviv University at Tel Beer-sheba, Tel Michal, ancient Jaffa and Tel Gerisa and is coeditor of the final excavation reports of Tel Beer-sheba and Tel Arad.

Dr. Etan Ayalon is an expert in ethno-archaeology and the material culture of the Land of Israel and has curated a variety of exhibitions in Israeli museums. He has participated in over 80 archaeological excavations and archaeological and ethnographic surveys in Israel, publishing numerous books and papers on these issues.

396 pages 21.5 × 28 cm B&W and color illustrations 2022

ISBN 978-965-266-070-1





CONTENTS

PREFACE

CHAPTER 1 Introduction: The Yotvata Oasis

ZE'EV MESHEL

SECTION I: YOTVATA HILL—THE IRON I "FORTRESS" AND OTHER REMAINS

LILY SINGER-AVITZ

PART I: THE SITE IN CONTEXT

CHAPTER 2 Yotvata: A "Fortress" on a Road Junction

UZI AVNER

PART II: ARCHITECTURAL REMAINS

CHAPTER 3 The Excavations and Architectural Components

LILY SINGER-AVITZ

PART III: ARTIFACTS

CHAPTER 4 The Pottery Assemblage of the Iron I

LILY SINGER-AVITZ

CHAPTER 5 Petrographic Analysis of the Iron I Pottery

DAVID BEN-SHLOMO

CHAPTER 6 The Ceramic Finds from the Nabataean Built Tomb

TALI ERICKSON-GINI

CHAPTER 7 The Chipped Stone Collections: Lithic Perspectives

on an Oasis Site in the Arabah

STEVEN A ROSEN

CHAPTER 8 Shell Artifacts

DANIELLA E. BAR-YOSEF MAYER

CHAPTER 9 Two Bone Objects

ETAN AYALON

CHAPTER 10 Ostrich Eggshells

Lily Singer-Avitz

CHAPTER 11 Ground Stone Tools

Aaron Greener

CHAPTER 12 Worked Wooden Objects from the Iron I

Yigal Sitry

CHAPTER 13 A Wood Coffin from the Nabataean Built Tomb

Yigal Sitry

CHAPTER 14 Cords and Basketry from the Iron I and Textiles

from the Nabataean Built Tomb Naama Sukenik and Orit Shamir

PART IV: ECOFACTS

CHAPTER 15 Archaeobotanical Remains from the Iron I "Fortress"

and the Nabataean Built Tomb

Nili Liphschitz

CHAPTER 16 Charcoal Samples from the Chalcolithic/Early

Bronze I Settlement

Mark Cavanagh, Mordechay Benzaquen and Dafna

Langgut

CHAPTER 17 Dendroarchaeological Report on the Coffin

from the Nabataean Built Tomb

Mordechay Benzaquen, Mark Cavanagh and Dafna

Langgut

CHAPTER 18 Iron I and Chalcolithic/Early Bronze I Fauna

Liora Kolska Horwitz

CHAPTER 19 Radiocarbon Dates

Israel Carmi, Dror Segal, Linda Scott Cummings,

Peter Kováčik and Uzi Avner

PART V: CONCLUDING REMARKS

CHAPTER 20 Masseboth (Standing Stones) in Gates

Uzi Avner

CHAPTER 21 Summary and Conclusions

Lily Singer-Avitz

ADDENDUM Later Excavations in the Nabataean Built Tomb

Uzi Avner

List of Loci

SECTION II: THE EARLY ISLAMIC SETTLEMENT

ETAN AYALON

PART VI: ARCHITECTURAL REMAINS

CHAPTER 22 Architecture and Stratigraphy

Etan Ayalon

PART VII: ARTIFACTS

CHAPTER 23 The Pottery

Itamar Taxel

CHAPTER 24 Perfecting Local Production of Desert Pottery:

Petrographic Analysis of Early Islamic Wares
Paula Waiman-Barak and Willie Ondricek

CHAPTER 25 Stone and Metal Objects

Itamar Taxel

CHAPTER 26 Glass Finds

Ruth E. Jackson-Tal

CHAPTER 27 The Ostraca

Nitzan Amitai-Preiss with an Appendix

by Itamar Taxel

CHAPTER 28 The Coins

Nitzan Amitai-Preiss and Ariel Berman

CHAPTER 29 Textiles, Textile Impressions and a Plait

Orit Shamir

PART VIII: ECOFACTS

CHAPTER 30 Identification of Dyes

Naama Sukenik, Zohar Amar and David Iluz

CHAPTER 31 Archaeobotanical Remains from the Early Islamic

Site

Nili Liphschitz

CHAPTER 32 Faunal Remains

Vered Kishon and Shlomo Hellwing

CHAPTER 33 Molluscs

Henk K. Mienis

PART IX: CONCLUDING REMARKS

CHAPTER 34 Discussion and Conclusions

Itamar Taxel, Ze'ev Meshel and Etan Ayalon

List of Loci