THE ARCHAEOLOGICAL SOURCES WHICH ELUCIDATE
THE HISTORY OF THE NORTHERN KINGDOM
AND NEIGHBORING LANDS:
FROM OMRI (876 BCE) TO THE EXILE (721 BCE)

by

PATRICIA RUTH DEPEW

Submitted in accordance with the requirements

for the degree of

DOCTOR OF LITERATURE AND PHILOSOPHY

in the subject of

Biblical Studies

at the

UNIVERSITY OF SOUTH AFRICA

PROMOTER: PROFESSOR C. L. van WYK SCHEEPERS

MARCH 2004
THE ARCHAEOLOGICAL SOURCES WHICH ELUCIDATE
THE HISTORY OF THE NORTHERN KINGDOM
AND NEIGHBORING LANDS:
FROM OMRI (876 BCE) TO THE EXILE (721 BCE)

by

PATRICIA RUTH DEPEW
ACKNOWLEDGEMENTS

Dedicated to my husband, David (Dr. David Depew), whose inspiration and encouragement have been a tremendous help in the writing of this dissertation.

The author is also grateful for the fact that her love of Biblical Archaeology is what led her to meeting her husband, who was President of the Los Angeles Chapter of the Biblical Archaeology Society. This union has brought many years and hours of sharing in studies, research, and teaching together in Biblical Studies.

The author wishes to express her appreciation to Professor C. L. van Wyk Scheepers, her promoter, for his patience, knowledge and help.

Special recognition is to be given to a beloved professor, the late Dr. Butrus Abd-al-Malik, whose teaching in the areas of Biblical studies was a great inspiration in my life.
CREDITS FOR ILLUSTRATIONS

The following illustrations in this dissertation are published with the kind permission of the following scholars and institutions.

University of Pennsylvania, Department of Religious Studies, Dr. John Abercrombie: 4.1-1; 4.1-2; 4.1-3; 4.1-4; 4.1-5; 4.1-6; 4.1-7; 4.1-8; 4.1-9; 4.1-10; 4.4-3; 4.5-4a; 4.5-5; 4.6-1; 4.6-2; 4.11-1; 4.12-1; 4.12-2; 4.13-1; 4.13-2; 4.13-3; 4.13-4; 4.13-5; 4.13-6; 4.13-7; 14.4-1.


Itzhaq Beit-Arieh, Institute of Archaeology, Tel Aviv University: 4.14-5.

Carl Rasmussen, Bethel College and Seminary, holylandphotos.org/browse.asp.:4.11-2b


Moses Creighton, edu/simkins/student/aJudah01/jehu.htm: 4.5-1 and 4.5-2.

Sarah Carter, Ekron Museum at Kibbutz Revadim: 4.11-4 a and b; 4.11-5 a and b.
Pictorial Library of Bible Lands, Kregel Publications, Grand Rapids, Michigan: 4.3-1; 4.3-2; 4.3-3; 4.3-5; 4.3-6; 4.3-7; 4.3-8; 4.3-9; 4.3-10; 4.3-11; 4.4-1; 4.4-2; 4.4-4; 4.6-3; 4.6-4; 4.6-5 and 4.11-2.


Microsoft Encarta Encyclopedia 1999. Original image distributed by Spot Image on a demonstration CD Rom Image @ CNES 1991. Photo from Samuel M. Paley: 4.4-9; 4.4-10; 4.4-11; 4.4-12 and 4.4-13.

Mark Altaweel, Leiden University, Netherlands: 4.4-1.

Louvre Museum, Paris: 4.4-7; 4.4-8 and 4.5-3.

Tabor College, Victoria, Australia: 4.4-14; 4.8-1; 4.8-2; 4.8-3; 4.8-4; 4.8-5 and 4-10-1.

John Russell, Boston University, Boston: 4.4-12b.


Steven K. Ross, Louisiana State University, Baton Rouge: 2.2-1.
Depew Collection, Burbank, California; photography courtesy of the West Semitic Research Project, Ancient Biblical Manuscript Center in Claremont, California: 4.9-3.


Sandra Bowden: 4.5-4b.
## LIST OF ILLUSTRATIONS

<table>
<thead>
<tr>
<th>Figure</th>
<th>Illustration</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2-1</td>
<td>Fertile Crescent</td>
<td>12</td>
</tr>
<tr>
<td>2.2-2</td>
<td>Divided Kingdom</td>
<td>34</td>
</tr>
<tr>
<td>4.1</td>
<td>Pottery</td>
<td></td>
</tr>
<tr>
<td>4.1-1</td>
<td>Potter’s Wheel &amp; Iron II Pottery</td>
<td>83</td>
</tr>
<tr>
<td>4.1-2</td>
<td>Lamps North</td>
<td>84</td>
</tr>
<tr>
<td>4.1-3</td>
<td>Lamps South</td>
<td>85</td>
</tr>
<tr>
<td>4.1-4</td>
<td>Round Deep bowl &amp; Samaria Bowl</td>
<td>86</td>
</tr>
<tr>
<td>4.1-5</td>
<td>Beth Shemesh: Kraters</td>
<td>87</td>
</tr>
<tr>
<td>4.1-6</td>
<td>Beth Shemesh: Cooking Pot and Pottery</td>
<td>88</td>
</tr>
<tr>
<td>4.1-7</td>
<td>Collection of Juglets Iron II</td>
<td>89</td>
</tr>
<tr>
<td>4.1-8</td>
<td>Black Juglet from Sa’idiyeh, Iron II</td>
<td>90</td>
</tr>
<tr>
<td>4.1-9</td>
<td>Phoenician Red-slip juglet from Beth Shan</td>
<td>91</td>
</tr>
<tr>
<td>4.1-10</td>
<td>Philistine Pottery from Beth Shemesh</td>
<td>92</td>
</tr>
<tr>
<td>4.1-11</td>
<td>Cypriot Pottery Iron Age</td>
<td>93</td>
</tr>
</tbody>
</table>
4.3  TOWN PLANNING

4.3-1  Lachish Siege Ramps  118

4.3-2  Arad Fortress and Gath Moat  119

4.3-3  Casemate Wall at Hazor  120

4.3-4  Iron Age Gate at Dan and Podium  121

4.3-5  Megiddo Gate and Solomonic Gate at Gezer  122

4.3-6  Water System at Gibeon  123

4.3-7  Gihon Springs and Pool Tower in Jerusalem  124

4.3-8  Warren Shaft in Jerusalem  125

4.3-9  City of David and Hezekiah’s Tunnel  126

Jerusalem

4.3-10  Hezekiah’s Tunnel Junction and Inscription  127

4.3-5  Megiddo Water System  128

4.4  Architecture

4.4-1  Lachish Palace Fort  151

4.4-2  Beersheba Pillared Buildings, Storehouses  152
4.4-3 Tell es-Sa'idiyeh, Pillared Houses 153

4.4-4 City of David, Milo and Ahiel House 154

4.4-5 Polish Excavation Team of Tiglath-Pileser’s III Palace at Nimrud 155

4.4-6 West Area I: cache of reliefs from Central Palace 156
Tiglath-Pileser III

4.4-7 Winged Assyrian Bull from Khorsabad 157
palace of Sargon of Assyria 721–705 BCE

4.4-8 Sargon II and a high official Khorsabad 158
Palace of Sargon II (721–705 BC)

4.4-9 Restoration of Ashurnasipal II (Northwest) 159
Palace at Nimrud.

4.4-10 Ashurnasirpal II, Throne Room, Nimrud. 160

4.4-11 In-situ Bas-Relief from Ashurnasirpal II Palace. The drawing shows a sacred tree 161

4.4-12 Site of Ancient Nineveh now known as 162
Tell Kuyunjik

4.4-13 Sennecherib’s Throne Room V with 163
Sculptures still in place.

4.4-14 Ashurbanipal’s Lion Hunt 164
4.5  Literacy and Inscriptions

4.5-1  Black Obelisk of Shalmaneser III 238

4.5-2  Detail of two panels of the Black Obelisk showing Jehu and Jewish captives. 239

4.5-3  Moabite Stone Stele of Mesha 240

4.5-4  (a)Royal Stamp Seal Type 3 at Gibeon 241
    (b)Hebrew inscription of Jeroboam

4.5-5  Royal Stamp Seals from Gibeon  Iron II 242

4.6  Temples, Gods, and Cult Objects

4.6-1  Shrine House and Incense Burners 277

4.6-2  Clay Figurines showing the Asherah 278

4.6-3  a. Horned Altar at Beer-Sheba 279
    b. Israelite Altar at Arad

4.6-4  Arad Temple exterior and interior 280

4.6-5  a. Dan Israelite Podium 281
    b. Temple Mount in Jerusalem

4.7  Metal  no figures
4.8 War and Weapons

4.8-1 Lachish and Sennacherib 310

4.8-2 Gezer: Relief Drawing of Tiglath-Pileser’s III 311

4.8-3 Guards at Sennacherib’s Palace Nineveh 312

4.8-4 Ashurbanipal Assyrian Troops Pursuing Arabs 313

4.8-5 Tiglath-Pileser III Camels lead by Arab women as Tribute 314

4.9 Weights and measures

4.9-1 Weights from Israel and Mesopotamia 325

4.9-2 Chart showing weights and length measurements 326

4.9-3 Temple Shekel, inscribed “nsp”, 327

4.9-4 Liquid measures: a. Bath jars (6 gallon) from Hazor and b. Amphorae Jars (4.5 gal.) found in shipwreck off of Ashkelon. 328

4.10 Farming

4.10-1 Gezer Calendar 333
### 4.11 Food

<table>
<thead>
<tr>
<th>Section</th>
<th>Item Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.11-1</td>
<td>Astragali from Beth Shan a &amp; b</td>
<td>349</td>
</tr>
<tr>
<td>4.11-2</td>
<td>Grape Press from Gath Basalt and Grain grinder from Capernaum</td>
<td>350</td>
</tr>
<tr>
<td>4.11-3</td>
<td>Millstone and Olive Crushing mill</td>
<td>351</td>
</tr>
<tr>
<td>4.11-4</td>
<td>Small Olive Press and Large Olive Press Ekron</td>
<td>352</td>
</tr>
<tr>
<td>4.11-5</td>
<td>Storage Jars for Olive Oil and Olive Oil Press from Ekron.</td>
<td>353</td>
</tr>
<tr>
<td>4.11-6</td>
<td>Frieze showing Ashurbanipal II Banquet</td>
<td>354</td>
</tr>
</tbody>
</table>

### 4.12 Music

<table>
<thead>
<tr>
<th>Section</th>
<th>Item Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.12-1</td>
<td>Assyrian Cymbalist and Rattles</td>
<td>364</td>
</tr>
<tr>
<td>4.12-2</td>
<td>Woman playing a flute and tambourine</td>
<td>365</td>
</tr>
</tbody>
</table>

### 4.13 Jewelry

<table>
<thead>
<tr>
<th>Section</th>
<th>Item Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.13-1</td>
<td>Beth Shan Necklace, Gibeon ring, Three Egyptian Amulets</td>
<td>376</td>
</tr>
<tr>
<td>4.13-2</td>
<td>Bone Pendants from Beth Shemesh</td>
<td>377</td>
</tr>
<tr>
<td>4.13-3</td>
<td>Fibulas from Beth Shemesh</td>
<td>378</td>
</tr>
<tr>
<td>4.13-4</td>
<td>Samarian Ivory, Griffin and Egyptian Motif</td>
<td>379</td>
</tr>
<tr>
<td>Section</td>
<td>Description</td>
<td>Page</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>4.13-5</td>
<td>Ivory Fragment of Phoenician Woman from Serepta and Samarian Ivory Lotus</td>
<td>380</td>
</tr>
<tr>
<td>4.13-6</td>
<td>Molded head of a woman, Horse with Rider</td>
<td>381</td>
</tr>
<tr>
<td>4.13-7</td>
<td>Woman Figurine and Cosmetic Palette</td>
<td>382</td>
</tr>
<tr>
<td>4.14-1</td>
<td>Anthropoid Coffins</td>
<td>391</td>
</tr>
<tr>
<td>4.14-2</td>
<td>Tomb Silwan Village in Jerusalem</td>
<td>392</td>
</tr>
<tr>
<td>4.14-3</td>
<td>Silwan Village Plan and Tomb</td>
<td>393</td>
</tr>
<tr>
<td>4.14-4</td>
<td>Silwan Tomb and Gabled Ceiling of Tomb</td>
<td>394</td>
</tr>
<tr>
<td>4.14-5</td>
<td>Tomb #9 from Tel Ira in Negev</td>
<td>395</td>
</tr>
<tr>
<td>5.5-1</td>
<td>Map of the excavated sites in Israel</td>
<td>396</td>
</tr>
</tbody>
</table>
CONTENTS in brief

Acknowledgements i
Credits ii
List of Illustration v

CHAPTER 1 INTRODUCTION 1

CHAPTER 2 GEOGRAPHY 3

CHAPTER 3 HISTORIC OVERVIEW 35

CHAPTER 4 MATERIAL CULTURE

4.2 POTTERY 52
4.3 CITY PLANNING 95
4.4 ARCHITECTURE 129

4.5 LITERACY AND INSCRIPTIONS 165
4.6 TEMPLES, GODS, AND CULT OBJECTS 243
4.7 METALLURGY 283

4.8 WEAPONS AND WARFARE 301
4.9 WEIGHTS AND MEASURES 315
4.10 FARMING AND EQUIPMENT 329
4.11 FOOD PREPARATION 335

4.12 MUSIC 355
4.13 JEWELRY AND ART (Appendix) 367
4.14 BURIAL 383

CHAPTER 5 SITES AND IN-SITU ARTIFACTS: ISRAEL, JUDAH AND NEIGHBORING LANDS

5.1 INTRODUCTION 397
<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.2</td>
<td>Sites in Israel</td>
<td>401-448</td>
</tr>
<tr>
<td>5.3</td>
<td>Southern Kingdom of Judah</td>
<td>449</td>
</tr>
<tr>
<td>5.3.1</td>
<td>Hill Country of Judah</td>
<td>449-471</td>
</tr>
<tr>
<td>5.3.2</td>
<td>Shephelah Sites</td>
<td>472-491</td>
</tr>
<tr>
<td>5.3.3</td>
<td>Northern Negev</td>
<td>491-511</td>
</tr>
<tr>
<td>5.3.4</td>
<td>Central and Southern Negev</td>
<td>511-519</td>
</tr>
<tr>
<td>5.3.5</td>
<td>Judean Desert</td>
<td>519-521</td>
</tr>
<tr>
<td>5.4</td>
<td>Philistia</td>
<td>522-576</td>
</tr>
<tr>
<td>5.5</td>
<td>Countries Neighboring Israel, Archaeological Excavations</td>
<td>573</td>
</tr>
<tr>
<td>5.5.1</td>
<td>Assyria: Nimrud, Nineveh</td>
<td>573-574</td>
</tr>
<tr>
<td>5.5.2</td>
<td>Transjordan</td>
<td>575-583</td>
</tr>
<tr>
<td>5.5.3</td>
<td>Phoenicia</td>
<td>584-595</td>
</tr>
<tr>
<td>5.5.4</td>
<td>Northern Sinai of Egypt, Syria, Turkey</td>
<td>595-601</td>
</tr>
<tr>
<td>5.6</td>
<td>Concluding Comments on the Sites</td>
<td>599</td>
</tr>
<tr>
<td><strong>Conclusion</strong></td>
<td></td>
<td>603</td>
</tr>
<tr>
<td><strong>Bibliography</strong></td>
<td></td>
<td>619</td>
</tr>
</tbody>
</table>
4.2 POTTERY

4.2.1 General Introduction to Pottery
4.2.2 Lamps
4.2.3 Israelite Pottery Iron II
  4.2.3.1 Bowls
    4.2.3.1.1 North
    4.2.3.1.2 South
    4.2.3.1.3 North and South
  4.2.3.2 Samaria Bowls
  4.2.3.3 Chalices and Goblets
  4.2.5 Kraters
    4.2.5.1 Introduction
    4.2.5.2 Kraters: Six types
    4.2.5.3 Kraters: Iron II C North
    4.2.5.4 Kraters: Iron II C South
  4.2.6 Cooking Pots
  4.2.7 Pithoi
  4.2.8 Storage Jars
    4.2.8.1 Storage Jars: Iron II A-B North
    4.2.8.2 Storage Jars: Iron II A-B South
    4.2.8.3 Storage Jars: Iron II C North
    4.2.8.4 Storage Jars: Iron II C South
  4.2.9 Amphoriskoi
  4.2.10 Jug and Juglets
    4.2.10.1 Basic Characteristics of Jugs and Juglets
    4.2.10.2 Additional information about Jugs South from Iron II A-B and C.
    4.2.10.3 Additional information about Jugs North from Iron II C.
    4.2.10.4 Additional information about Juglets
    4.2.10.5 Additional information about Juglets North and South Iron II C
4.2.11 Philistine Pottery

4.2.11.1 Introduction

4.2.11.2 Locations where Philistine pottery was found in Canaan, Ancient Israel and Judah

4.2.11.3 Features of Philistine Pottery

4.2.12 Phoenician Pottery

4.2.13 Cypriot and Cypro-Phoenician Wares

4.2.13.1 Introduction to Cypriot Pottery

4.2.13.2 Primary types of Cypriot Pottery

4.2.13.3 Imported Cypriot and Cypro-Phoenician Wares

4.2.14 Ammonite Pottery

4.2.15 Egyptian

4.2.16 Assyrian Ware

4.2.17 Concluding Comments on Pottery

Illustrations for Pottery

4.3 CITY PLANNING

4.3.1 Introduction to Town Planning

4.3.2 Categorization of Cities

4.3.3 Orthogonal and Peripheral City Planning

4.3.4 Fortifications of City

4.3.5 Walls: Casemate and Solid

4.3.6 Gate Complexes

4.3.7 Water Supply Projects

4.3.7.1 Introduction

4.3.7.2 Gibeon Water System

4.3.7.3 Hazor Water System

4.3.7.4 Gezer and Beersheba Water System

4.3.7.5 Jerusalem Water System

4.3.7.5.1 Gihon Spring in Jerusalem

4.3.7.5.2 Warren’s Shaft
<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5.2.3</td>
<td>Ashurnasirpal II Banquet Inscription</td>
<td>169</td>
</tr>
<tr>
<td>4.5.2.4</td>
<td>Shalmaneser III Kurkh Stele</td>
<td>169</td>
</tr>
<tr>
<td>4.5.2.5</td>
<td>Black Obelisk of Shalmaneser III</td>
<td>171</td>
</tr>
<tr>
<td>4.5.2.6</td>
<td>Shalmaneser III and The Bronze Balawat Gates</td>
<td>174</td>
</tr>
<tr>
<td>4.5.2.7</td>
<td>Tiglath Pileser III Astartu Relief</td>
<td>175</td>
</tr>
<tr>
<td>4.5.2.8</td>
<td>Relief of Sargon II</td>
<td>176</td>
</tr>
<tr>
<td>4.5.2.9</td>
<td>Sennacherib: Taylor Prism; Oriental Institute Prism; and Lachish Reliefs from Nineveh</td>
<td>177</td>
</tr>
<tr>
<td>4.5.3</td>
<td>Moabite Inscriptions</td>
<td>181</td>
</tr>
<tr>
<td>4.5.3.1</td>
<td>Moabite Stone</td>
<td>181</td>
</tr>
<tr>
<td>4.5.4</td>
<td>Aramaic Inscriptions</td>
<td>187</td>
</tr>
<tr>
<td>4.5.4.1</td>
<td>Introduction to Aramaic Inscriptions</td>
<td>187</td>
</tr>
<tr>
<td>4.5.4.2</td>
<td>Tel Dan Stele</td>
<td>187</td>
</tr>
<tr>
<td>4.5.4.3</td>
<td>The Melgart Stele of Bar-hadad</td>
<td>193</td>
</tr>
<tr>
<td>4.5.4.4</td>
<td>Zakir Stele</td>
<td>193</td>
</tr>
<tr>
<td>4.5.4.5</td>
<td>Tell Fakhariyeh Statue</td>
<td>200</td>
</tr>
<tr>
<td>4.5.4.6</td>
<td>Stele of Bar-Rakib of Sam’a</td>
<td>201</td>
</tr>
<tr>
<td>4.5.4.7</td>
<td>Texts from Deir ‘Alla</td>
<td>201</td>
</tr>
<tr>
<td>4.5.4.8</td>
<td>Horvat Uza Ostracnon</td>
<td>202</td>
</tr>
<tr>
<td>4.5.4.9</td>
<td>Selfire Treaty</td>
<td>203</td>
</tr>
<tr>
<td>4.5.5</td>
<td>Phoenician</td>
<td>204</td>
</tr>
<tr>
<td>4.5.5.1</td>
<td>Introduction to Phoenician Inscriptions</td>
<td>204</td>
</tr>
<tr>
<td>4.5.5.2</td>
<td>Incirli Stela</td>
<td>204</td>
</tr>
<tr>
<td>4.5.5.3</td>
<td>Nora Stone</td>
<td>207</td>
</tr>
<tr>
<td>4.5.5.4</td>
<td>Sarcophagus of Ahiram, King of Byblos</td>
<td>208</td>
</tr>
<tr>
<td>4.5.6</td>
<td>Ammonite</td>
<td>208</td>
</tr>
<tr>
<td>4.5.6.1</td>
<td>Ammonite Stele (Amman Citadel)</td>
<td>208</td>
</tr>
<tr>
<td>4.5.7</td>
<td>Hebrew</td>
<td>210</td>
</tr>
<tr>
<td>4.5.7.1</td>
<td>Siloam Inscription</td>
<td>210</td>
</tr>
<tr>
<td>4.5.7.2</td>
<td>Ketef Hinnom Silver Scrolls</td>
<td>211</td>
</tr>
</tbody>
</table>
4.5.7.3   Pomegranate Scepter Head                      212
4.5.7.4   Royal Steward Inscription                     212
4.5.7.5   Gezer Calendar                                213
4.5.7.6   Samaria Ostracon                               214
4.5.7.7   Inscriptions from Kuntillet ‘Ajrud            216
4.5.7.8   Inscriptions from El-Qom                      220
4.5.7.9   Arad Ostracon 18                               222
4.5.8     Seals, Bullae, and Llkm Jars                  223
4.5.8.1   Introduction                                  223
4.5.8.2   Seals of Israel’s Neighbors (Phoenicia, Ammon, Edom and Aram)  224
4.5.8.3   Bullae                                       225
4.5.8.4   LMLK                                         225
4.5.9     Geographic references found in Inscriptions  227
4.5.9.1   Introduction                                  227
4.5.9.2   “Story of Sinuhe”                             227
4.5.9.3   Egyptian, Exeaction Texts                    228
4.5.9.4   Egyptian, “The Inscription of Khu-Sebek”      229
4.5.9.5   Egyptian, Inscriptions Of Thutmose III       229
4.5.9.6   The expedition Journals from Seti I          230
4.5.9.7   Egyptian Reliefs of Ramses II                230
4.5.9.8   Papyrus Anastasi I                            231
4.5.9.9   Amarna Tablets                               232
4.5.10    Concluding Comments on Inscriptions          234
4.6       TEMPLES, GODS, AND CULT OBJECTS                243
4.6.1     Introduction                                 243
4.6.2     Identification of the gods                   244
4.6.2.1   Baal                                         244
4.6.2.2   Asherah                                       246
4.6.2.3 Moloch 248
4.6.2.4 Hadad of Sikan, Aramaic God 250
4.6.2.5 Baal-zebub (God of Ekron) 251

4.6.2.6 Assyrian Gods 252
4.6.3 Israelite Cultic Places 256
4.6.3.1 Dan 256
4.6.3.2 Beersheba 258
4.6.3.3 Arad 259
4.6.3.4 Tel Qasile 261
4.6.4.1 Women and House Religion 262
4.6.4.1.1 Introduction 262
4.6.4.1.2 Sites related to women and House Religion 265
4.6.4.1.3 Summary of Israelite Women and House Cult 271
4.6.5 Temple in Jerusalem 274
4.6.6 Concluding Comments on Temples, Gods and Cult Objects 275
Illustrations for Temples, Gods and Cult Objects 277

4.7 Metallurgy 283
4.7.1 Introduction 283
4.7.2 Geological and archaeological evidence 285
for the following metals: copper, tin, bronze, iron, gold, and silver
4.7.3 Concluding Comments on Metallurgy 299

4.8 Weapons and Warfare 301
4.8.1 Introduction 301
4.8.2 Types of Weapons and Armor 302
4.8.3 Methods of Attack 305
4.11.6    Bread                                         343

4.11.7    Banquet Food: Ashurnasirpal II’s Banquet      345
           Inscription

4.11.8    Concluding comments on Food Preparation       347

Illustrations Food                            349

4.12      MUSIC                                         355

4.12.1    Introduction                                  355

4.12.2    Introduction to Musical Instruments           355

4.12.2.1  Percussive Instruments                        356

4.12.2.2  Wind Instruments                              359

4.12.2.3  String Instruments                            361

4.12.3   Concluding Comments on Music                   362

Illustrations for Music                                364

4.13      JEWELRY AND ART                               367

4.13.1    Introduction:                                 367

4.13.2    Jewelry and Metal                             368

4.13.3    Glass                                        369

4.13.4    Metal Fasteners for Clothes                   370

4.13.5    Art in Israel and Judah                       370

4.13.6    The Samaria Ivories                          371

4.13.7    Figurines                                    373

4.13.8    Cylinder Seals                               373

4.13.9    Cosmetic Stone Palettes and Flat Bowls        373
CHAPTER 5 SITES AND IN-SITU ARTIFACTS: ISRAEL, JUDAH, PHILISTIA AND NEIGHBORING LANDS

5.1 Introduction 397
Illustration 5.1-1 Map of Excavated Sites 399

5.2 Sites in ISRAEL 401-448
Aphek, Beth-shan, Bethel, Dan, Dor, Dothan, Gezer, Gilgal, Hazor, Ibleam, Jabesh-gilead, Jericho, Jezreel, Jokneam, Kedesh, Megiddo, Mt. Carmel, Ramoth in Gilead, Samaria, Shechem, Taanach, Tirzah

5.3 SOUTHERN KINGDOM OF JUDAH 449

5.3.1 Hill Country of Judah 449-471
Beth-Zur, Debir(Khirbet Rabud), Gibeah (Tel el Full), Gibeon, Hebron, Jerusalem, Mizpah(Tell en-Nasbeh), Ramat Rahel
5.3.2 SHEPHELAH SITES 472-491
Azekah, Beth-Shemesh, Tel Erani, Gezer, Hormah, Lachish (Tell el-Duwir), Mareshah, Tell Beit Mirmim

5.3.3 NORTHERN NEGEV 491-511
Tel’ Arad, Uza, Tel Ira, Beersheba, Tel Malhata, Tel Masos, Aroer (Moab) Aroer(Judah) Horvat Radum

5.3.4 CENTRAL AND SOUTHERN NEGEV 511-519
Tell el–Qudeirat(Kadesh-Barnea), Kuntillet ‘Ajrud, Tel el-Kheleifeh (Ezion Geber)

5.3.5 JUDEAN DESERT 519-521
En-Gedi and Tel Goren (Tell el Jurn), Jericho

5.4 PHILISTIA 522-576
Ashdod, Ashkelon, Mediterranean Ship Wrecks, Beth Dagon, Jaffa, Bene- Berak, Azor and Tell Qasile. Ekron, Eltake, Gibbethon and Timnah. Gaza, Tell el Hesi, Tell el Ajjul, Tell Jemneh, Tel Haror, Tel Sera, Tel el-Fara’a (South).

5.5 COUNTRIES NEIGHBORING ISRAEL, ARCHAEOLOGICAL EXCAVATIONS 573

5.5.1 ASSYRIA: Nimrud, Nineveh 573-574

5.5.2 TRANSJORDAN 575-583
Amman, Ramoth-Gilead (Tell Er-Rumeith), Tell Es-Sa’idiyeh, Tell Deir Alla, Petra, Tawilan, Dibon, Medeba

5.5.3 PHOENICIA 584-595
Primary sites, location identification Tyre, Sidon, Byblos, Sarepta (Zarephath) and Arwad, Tell el-Fukhar (ancient Acco), Achzib, Tel Keisan, Tel Abu Hawam. Overview of Phoenicia and the Iron Age Period. Trade from other places with Phoenicia.

5.5.4 NORTHERN SINAI OF EGYPT; SYRIA, TURKEY 595-601
5.5.4.1 Northern Sinai: thirty Iron Age settlements site between Wadi el-Arish and Wadi Ghazzh.

5.5.4.2 Turkey and Syria: Tell 'Acharneh. Tell el Her, Afis.

5.6 Concluding Comments on the Sites 599

CONCLUSION 603

BIBLIOGRAPHY 619