

CONTENTS

PREFACE	9
ACKNOWLEDGEMENTS	11
1. Introduction	13
2. Described Features and Methods of Description	16
2.1 Size	16
2.2 Shape	25
2.3 Base forming	32
2.4 Barbs	34
2.5 Retouch	36
2.6 Serration	38
3. Manufacture	44
3.1 Raw material preferences and distribution	44
3.2 Manufacture technique	51
3.3 Manufacturing process	53
3.4 Arrow assembly	56
3.5 Manufacturing toolkit	57
3.6 Economic pattern of projectile and arrow production	65
4. Use and operation	68
4.1. Transport and storage	69
4.2 Archery use – Projection	83
4.3 Archery use – Wounding	88
4.4 Fractures and repairs	99
4.4.1 Tip fracture	102
4.4.2 Barb, stem, or neck fracture	104
5. Life cycle and deposition	107
6. Function	134
6.1 Hunting	135
6.2 Warfare	139
6.3 Narrative function	145
7. Further context. Archers as warriors and their role in Early Bronze Age society	149
7.1 Warrior behaviour, impact, lethality, number, and mobility range	149
7.2 Warrior identity, marks of representation	151
7.3 The role of warrior groups in the warrior elite crystallising at the threshold of the Bronze Age	152
8. Cited literature	154