

Chapter 1 .....	
Introduction – beekeeping, the beekeeper and our bees .....	
1.1    Development of methods of beekeeping .....	
1.2    What is needed in a beekeeper?.....	3
Physique.....	3
Access to a suitable site .....	3
Available time .....	3
Inclination and enthusiasm .....	3
Some modern problems beekeepers must face.....	4
Exotic pests and diseases and using local bees .....	4
Dealing with pests and diseases .....	5
1.2.1  Stings .....	5
Modern advice on stings from the book by Harry Riches .....	6
1.3    The place of the honey bee in nature.....	7
1.4    Significant bee forage plants in our Association area.....	9
Chapter 2.....	
Beekeeping Equipment.....	
2.1    Protective Clothing.....	1
2.2    Tools for working with bees .....	1
2.3    Beehives and their accessories.....	2
2.3.1  Introduction .....	2
2.3.2  National hive and its accessories .....	3
2.3.3  Frames and Foundation on which the bees will build combs .....	5
Tools for removing honey from the hive.....	5
What makes up a complete hive?.....	5
2.4    Equipment for handling the crops of beeswax and honey .....	6
2.5    Miscellaneous and specialist items.....	6
2.6    Basic equipment list.....	7
2.7    Appendix – other hive designs .....	8
2.7.1  Introduction .....	8
2.7.2  The (Unmodified) National hive and the Wornit Commercial hive .....	8
2.7.3  The Smith hive .....	8
2.7.4  The WBC hive.....	9
2.7.5  Some more unusual hive designs .....	9

Chapter 3.....	
Basic Honey Bee Biology .....	
3.1    What is a honey bee? .....	1
3.2    The anatomy of a honey bee.....	1
3.2.1    The Head.....	2
3.2.2    The Thorax .....	3
3.2.3    The abdomen.....	4
3.3    The Colony .....	5
3.3.1    The queen bee .....	6
Development of the queen .....	7
Mating and reproduction.....	7
3.3.2    Drones .....	8
Drone development and lifespan .....	8
3.3.3    Workers .....	9
Division of labour .....	9
3.4    Honeybee communication.....	10
3.4.1    The importance of pheromones in honey bee communication .....	11
3.4.2    Trophallaxis (Food sharing).....	11
3.4.3    Bee dances.....	12
Chapter 4 Diseases and pests.....	
Diseases and pests.....	1
4.1    Introduction and list of notifiable diseases .....	1
4.2    Practical disease management.....	2
4.2.1    Apiary hygiene and movement control .....	2
4.2.2    Diseases we can expect to see, and how to deal with these and with other important ones which are rarer .....	3
4.2.2.1    Diseases of the brood.....	3
4.2.2.2    Diseases of the adult bees .....	6
4.2.2.3    Infestation with the Varroa mite .....	8
The effects of Varroa .....	8
Dealing with Varroa .....	9
Integrated Pest Management.....	9
Monitoring <i>Varroa</i> infestation levels .....	9
Daily Natural Mite Drop .....	10
Inspecting sealed drone brood .....	10
Overview of treatment methods.....	11
Some suggestions for manipulative treatments.....	11

	Using licensed products to control <i>Varroa</i> .....	12
	Legal requirements for handling veterinary medicines.....	13
	The use of alternative substances .....	13
4.2.3	Diseases and pests in stored equipment.....	14
4.3	An annual disease management routine.....	15
	A Foulbrood inspection .....	16
4.4	Useful contact addresses for help in dealing with bee diseases.....	17
4.4.1	Science and Advice for Scottish Agriculture (SASA).....	17
4.4.2	Notifiable disease contacts .....	18
4.4.3	The Scottish Beekeepers' Association's Science and Bee Health Officer .....	18
Chapter 5.....		
	Basic handling skills: spring and summer management including swarm control...	1
5.1	Beekeeping – basic handling skills.....	1
5.1.1	Introduction .....	1
5.1.2	Opening a hive and inspecting the combs .....	1
5.2	Spring and summer management .....	5
	Food .....	5
	Eggs.....	6
	Disease .....	6
	Space.....	7
	Swarming .....	7
	Tidying up at the end .....	7
5.3	Prevention and control of swarming.....	7
5.3.1	The raising of new queens by a colony of honey bees .....	8
5.3.2	Finding, clipping and marking the queen.....	9
5.3.3	Principles of swarm prevention .....	10
	Lack of space .....	10
	A failing queen .....	11
5.3.4	Principles of swarm control .....	11
5.3.5	Queen removal as a method of swarm control.....	12
	An afterthought:.....	14
	Caution about the destruction of queen cells.....	14
5.4	Taking a swarm .....	15
	Necessary equipment: .....	15
	Method:.....	15
5.5	Hiving a swarm .....	16

5.6	Dealing with a swarmed stock .....	17
5.7	Hiving a swarm on the site it came from .....	18
5.8	Moving bees: the heather flow .....	19
<b>5.9</b>	<b>Appendices .....</b>	<b>20</b>

Chapter 6 .....		
Autumn and winter management .....		1
6.1	Removing honey .....	1
6.2	Uniting colonies .....	1
6.3	Feeding bees .....	3
6.4	Preparing bees for winter .....	4
6.5	Managing bees in winter .....	5
6.6	The end of winter .....	5
6.7	Appendix – providing food for bees .....	6
6.7.1	Commercially prepared bee food .....	6
6.7.2	Recipe for sugar syrup .....	7
6.7.3	Recipe for candy .....	7
Ingredients .....		7
Equipment .....		7
Method .....		7

Chapter 7 .....		
7.1	The Basics .....	1
7.1.1.	Choosing an apiary site .....	1
7.1.2.	Setting up hive stands .....	1
7.1.3	Obtaining equipment .....	2
7.1.4	Acquiring bees .....	2
7.1.5	Mutual support of beekeepers .....	4
7.2	The year's work in outline .....	5
7.3.	Details of hive assembly .....	7
7.3.1	Introduction .....	7
7.3.2	Top and bottom bee-space .....	7
7.3.3	Assembling hive boxes and roofs .....	7
7.3.4	Assembling frames and foundation in which the bees will build combs .....	8
7.3.5	Spacing frames in the hive .....	9

Chapter 8 .....		
-----------------	--	--

	Dealing with the crop of honey and beeswax .....	1
8.1	Honey in shallow frames.....	1
8.2	Section honey .....	2
8.3	Dealing with Oil Seed Rape honey.....	3
8.4	Heather Honey .....	4
8.5	Beeswax.....	4
8.6	Appendix - Some Useful Temperatures for honey and wax handling .....	6