

**2012 SURVEILLANCE SCHEME**  
**SASA completing tests which look for varroa / acarine disease /**  
**AFB, EFB (clinical and non-clinical)**

80 Beekeepers were approached over 9 areas of Scotland to take part in the survey with the following breakdown. A total of 65 questionnaires were completed:

<b>AREA</b>	<b>BEE INSPECTOR</b>	<b>NO. OF BEEKEEPERS TAKING PART</b>
Argyll	Steve Sunderland	9
Western Isles	Steve Sunderland	5
Ayrshire	John Smith	7
North East	Kirsty Sutherland	14
Caithness & Sutherland	Kirsty Sutherland	3
Lothian & Borders	Angus MacAskill	9
Dumfries	Angus Cameron	8
Tayside	Paul Svenson	10
Highland	Clem Cuthbert	questionnaires not completed (overtaken by outbreaks of AFB/EFB and therefore these results and contact colony inspections took priority)

**SUMMARY OF QUESTIONS:**

- Q1. The length of time as a beekeeper**
- Q2. The no. of colonies managed in 2012**
- Q3. The no. of winter losses**
- Q3(a). The reasons for winter losses**
- Q4. What qualification and training beekeepers have completed**
- Q5. What Varroa management techniques are beekeepers currently using**
- Q5(a). How many beekeepers think their Varroa management technique is effective**
- Q5(b). Query as to whether beekeepers have pyrethroid resistance**
- Q6. What the average honey yield ranges from**
- Q7. What is the main source of nectar for these beekeepers**
- Q8. Query as to whether beekeepers use open mesh floors**
- Q9. What (if any) proprietary feeds are used**
- Q10. What are the beekeepers plans for the future**
- Q10(a). Where do beekeepers source their bees/nucs**
- Q11. What reading materials do beekeepers regularly consult**
- Q12. Were beekeepers mentored as a beginner**
- Q13. What associations do beekeepers belong to**

**Q1. Time as a beekeeper varied from:**

		<b>No. of beekeepers:</b>	<b>%</b>
<b>ARGYLL (9)</b>	Two years or less	0	0
	Between 3 – 9 years	2	22
	10 years +	1	11
	20 years +	5	56
	30 years +	1	11

		<b>No. of beekeepers:</b>	<b>%</b>
<b>WESTERN ISLES (5)</b>	Two years or less	2	40
	Between 3 – 9 years	3	60
	10 years +	0	0
	20 years +	0	0
	30 years +	0	0

		<b>No. of beekeepers:</b>	<b>%</b>
<b>AYRSHIRE (7)</b>	Two years or less	2	29
	Between 3 – 9 years	2	29
	10 years +	1	14
	20 years +	1	14
	30 years +	1	14

		<b>No. of beekeepers:</b>	<b>%</b>
<b>NORTH EAST (14)</b>	Two years or less	2	14
	Between 3 – 9 years	7	50
	10 years +	1	7
	20 years +	0	0
	30 years +	4 (3 with 40 yrs +)	29

		<b>No. of beekeepers:</b>	<b>%</b>
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	Two years or less	1	33
	Between 3 – 9 years	0	0
	10 years +	1	33
	20 years +	0	0
	30 years +	1 (over 40 yrs +)	33

		<b>No. of beekeepers:</b>	<b>%</b>
<b>LOTHIAN &amp; BORDERS (9) (9)</b>	Two years or less	2	22
	Between 3 – 9 years	3	33
	10 years +	3	33
	20 years +	1	12
	30 years +	0	0

		<b>No. of beekeepers:</b>	<b>%</b>
<b>DUMFRIES (8) (8)</b>	Two years or less	1	12.5
	Between 3 – 9 years	5	62.5
	10 years +	0	0
	20 years +	2	25
	30 years +	0	0

		<b>No. of beekeepers:</b>	<b>%</b>
<b>TAYSIDE (10) (10)</b>	Two years or less	1	10
	Between 3 – 9 years	3	30
	10 years +	2	20
	20 years +	2	20
	30 years +	2	20

**Q2. No. of colonies managed in 2012 ranged from:**

		<b>No. of beekeepers:</b>	<b>%</b>
<b>ARGYLL (9)</b>	Between 1–5 hives	7	78
	Between 6–9 hives	1	11
	10 + hives	0	0
	20 + hives	1	11

		<b>No. of beekeepers:</b>	<b>%</b>
<b>WESTERN ISLES (5)</b>	Between 1–5 hives	4	80
	Between 6–9 hives	1	20
	10 + hives	0	0
	20 + hives	0	0

		<b>No. of beekeepers:</b>	<b>%</b>
<b>AYRSHIRE (7)</b>	Between 1–5 hives	3	42.86
	Between 6–9 hives	2	28.57
	10 + hives	0	0
	20 + hives	2	28.57

		<b>No. of beekeepers:</b>	<b>%</b>
<b>NORTH EAST (14)</b>	Between 1–5 hives	8	57
	Between 6–9 hives	4	29
	10 + hives	1	7
	20 + hives	1	7

		<b>No. of beekeepers:</b>	<b>%</b>
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	Between 1–5 hives	1	34
	Between 6–9 hives	0	0
	10 + hives	2	66
	20 + hives	0	0

		<b>No. of beekeepers:</b>	<b>%</b>
<b>LOTHIAN &amp; BORDERS (9)</b>	Between 1–5 hives	5	56
	Between 6–9 hives	1	11
	10 + hives	3	33
	20 + hives	0	0

		<b>No. of beekeepers:</b>	<b>%</b>
<b>DUMFRIES (8)</b>	Between 1–5 hives	4	50
	Between 6–9 hives	2	25
	10 + hives	2 (1 beekeeper turns over 200+ nucs)	25
	20 + hives	0	0

		<b>No. of beekeepers:</b>	<b>%</b>
<b>TAYSIDE (10)</b>	Between 1–5 hives	6	60
	Between 6–9 hives	1	10
	10 + hives	2	20
	20 + hives	1	10

**Q3. No. of winter losses ranged from:**

<b>ARGYLL (9)</b>	3 beekeepers lost one hive each
<b>WESTERN ISLES (5)</b>	No beekeepers lost any hives
<b>AYRSHIRE (7)</b>	2 beekeepers lost one hive each and one beekeeper lost 5
<b>NORTH EAST (14)</b>	4 beekeepers lost one hive each, 1 lost 2 hives
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	One beekeeper lost 5 hives
<b>LOTHIAN &amp; BORDERS (9)</b>	2 beekeepers lost one hive each, 2 others lost 2 hives each and 1 beekeeper lost 5
<b>DUMFRIES (8)</b>	3 beekeepers lost one hive each, 1 other lost 2 hives
<b>TAYSIDE (10)</b>	2 beekeepers lost one hive each, 1 lost 2 hives and 1 lost 7

**Q3(a). The reasons for the winter losses were given as:**

<b>ARGYLL (9)</b>	Poor health of the queen and no queen present
<b>WESTERN ISLES (5)</b>	N/A
<b>AYRSHIRE (7)</b>	Drone layers, varroa and PMS. One beekeeper had a hive stolen and another had no explanation.
<b>NORTH EAST (14)</b>	Drone layers, very small colony, starvation, queen failure
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	1 hive lost to starvation and 4 hives lost to queen failure
<b>LOTHIAN &amp; BORDERS (9)</b>	Very small colonies, isolation, starvation, not strong enough going into winter and due to varroa
<b>DUMFRIES (8)</b>	Drone layer, small/weak colony, starvation,
<b>TAYSIDE (10)</b>	Starvation, varroa, queenless, isolation

**Q4. Qualification and Training that has been completed:**

	<b>Description of Course</b>	<b>No. of beekeepers in attendance</b>
<b>ARGYLL (9)</b>	Scottish Agricultural College (SAC) - courses run by Graeme Sharpe, Apiculture Specialist	5
	Local Association classes / lectures	3
<b>WESTERN ISLES (5)</b>	Training given by another beekeeper	1
	SAC courses run by Graeme Sharpe	3
<b>AYRSHIRE (7)</b>	Scottish Agricultural College (SAC) - courses run by Graeme Sharpe, Apiculture Specialist: (incl. beginner, intermediate and varroa identification)	5
	Local Association classes / lectures	4
	No training completed	1
<b>NORTH EAST (14)</b>	Scottish Agricultural College (SAC) - courses run by Graeme Sharpe, Apiculture Specialist: (incl. microscopy) + SASA Bee Health Day	5
	Local Association classes / lectures (incl. basic Beemaster)	10
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	Local Association classes / lectures	2
	SAC courses run by Graeme Sharpe	2
<b>LOTHIAN &amp; BORDERS (9)</b>	Scottish Agricultural College (SAC) - courses run by Graeme Sharpe, Apiculture Specialist: (incl. basic beekeeping, queen rearing, integrated pest management and bee diseases)	2
	Local Association classes / lectures (incl. basic beekeeping, morphology, queen rearing, integrated pest management and bee diseases, beekeeping expert master course management, train the trainer)	8
<b>DUMFRIES (8)</b>	Scottish Agricultural College (SAC) - courses run by Graeme Sharpe, Apiculture Specialist	3
	Local Association classes / lectures (incl. basic beemasters)	3
	No training completed	5
<b>TAYSIDE (10)</b>	Scottish Agricultural College (SAC) - courses run by Graeme Sharpe, Apiculture Specialist (incl. basic beekeeping) + SASA Bee Health Day,	2
	Local Association classes / lectures (incl. basic beemaster, induction courses, honey judge) + general experience and enthusiasm	8

**Q5. Varroa Management techniques ranged from (by no. of beekeepers using each treatment):**

	<b>Pyrethroid Treatments</b>		<b>Other Chemical Treatments</b>		<b>Other Treatments</b>	
<b>ARGYLL (9)</b>	Apistan	3	Api-Guard	1	Drone Brood removal	1
	Bayvarol Strips		Oxalic Acid	3	Icing sugar	
			Thymol crystals	1	Fondant	
			Formic Acid		Open mesh floor	
			Api-Life Var		Varroa monitoring	
			Api-Var ( <i>available under the cascade system</i> )		Sanitising Powder	
			Varroa Gard	1	Other: no varroa reported at present	2
Comments: 3 of the beekeepers using Apistan are considering changing to Api-Var						

	<b>Pyrethroid Treatments</b>		<b>Other Chemical Treatments</b>		<b>Other Treatments</b>	
<b>WESTERN ISLES (5)</b>	Apistan	4	Api-Guard		Drone Brood removal	
	Bayvarol Strips		Oxalic Acid		Icing sugar	
			Thymol crystals		Fondant	
			Formic Acid		Open mesh floor	
			Api-Life Var		Varroa monitoring	
			Api-Var ( <i>available under the cascade system</i> )		Sanitising Powder	
			Varroa Gard		Other: no varroa reported at present	1
Comments: one beekeeper considering changing to Api-Var						

	<b>Pyrethroid Treatments</b>		<b>Other Chemical Treatments</b>		<b>Other Treatments</b>		
<b>AYRSHIRE (7)</b>	Apistan	2	Api-Guard	2	Drone Brood removal		
	Bayvarol Strips		Oxalic Acid	2	Icing sugar		
			Thymol crystals		Fondant	1	
			Formic Acid	3	Open mesh floor	1	
			Api-Life Var	2	Varroa monitoring	1	
			Api-Var ( <i>available under the cascade system</i> )		Sanitising Powder		
			Varroa Gard		Other: no varroa reported at present		
						Other: Hiveclean	1
Comments: 1 beekeeper uses spearmint and tee-tree oil in their fondant							

	<b>Pyrethroid Treatments</b>		<b>Other Chemical Treatments</b>		<b>Other Treatments</b>		
<b>NORTH EAST (14)</b>	Apistan	8	Api-Guard	1	Drone Brood removal		
	Bayvarol Strips		Oxalic Acid	4	Icing sugar	1	
			Thymol crystals	1	Fondant		
			Formic Acid		Open mesh floor	2	
			Api-Life Var	1	Varroa monitoring		
			Api-Var ( <i>available under the cascade system</i> )	3	Sanitising Powder		
			Varroa Gard		Other: no varroa reported at present		
						Other: Hiveclean	1
Comments:							

	<b>Pyrethroid Treatments</b>		<b>Other Chemical Treatments</b>		<b>Other Treatments</b>	
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	Apistan	1	Api-Guard	1	Drone Brood removal	
	Bayvarol Strips	2	Oxalic Acid		Icing sugar	
			Thymol crystals		Fondant	
			Formic Acid		Open mesh floor	
			Api-Life Var		Varroa monitoring	
			Api-Var ( <i>available under the cascade system</i> )		Sanitising Powder	
			Varroa Gard		Other: no varroa reported at present	1
Comments:						

	<b>Pyrethroid Treatments</b>		<b>Other Chemical Treatments</b>		<b>Other Treatments</b>	
<b>LOTHIAN &amp; BORDERS (9)</b>	Apistan	5	Api-Guard	3	Drone Brood removal	2
	Bayvarol Strips		Oxalic Acid	5	Icing sugar	
			Thymol crystals		Fondant	
			Formic Acid		Open mesh floor	1
			Api-Life Var		Varroa monitoring	1
			Api-Var ( <i>available under the cascade system</i> )		Sanitising Powder	
			Varroa Gard		Other: no varroa reported at present	1
Comments: one beekeeper currently using Apistan is considering changing to Api-var						

	<b>Pyrethroid Treatments</b>		<b>Other Chemical Treatments</b>		<b>Other Treatments</b>	
<b>DUMFRIES (8)</b>	Apistan	2	Api-Guard	2	Drone Brood removal	2
	Bayvarol Strips		Oxalic Acid	3	Icing sugar	
			Thymol crystals	2	Fondant	
			Formic Acid		Open mesh floor	
			Api-Life Var	1	Varroa monitoring	
			Api-Var ( <i>available under the cascade system</i> )	4	Sanitising Powder	
			Varroa Gard		Other: no varroa reported at present	
Comments:						

	<b>Pyrethroid Treatments</b>		<b>Other Chemical Treatments</b>		<b>Other Treatments</b>	
<b>TAYSIDE (10)</b>	Apistan	4	Api-Guard	3	Drone Brood removal	1
	Bayvarol Strips		Oxalic Acid	5	Icing sugar	1
			Thymol crystals		Fondant	
			Formic Acid	2	Open mesh floor	1
			Api-Life Var		Varroa monitoring	
			Api-Var ( <i>available under the cascade system</i> )	1	Sanitising Powder	1
			Varroa Gard	1	Other: no varroa reported at present	
Comments:						

**Q5(a). No. of beekeepers who thought their Varroa Management technique was effective:**

		%
<b>ARGYLL (9)</b>	4 of the 8 beekeepers reported that their technique was effective	50
<b>WESTERN ISLES (5)</b>	Only one of the five beekeepers thought their management technique was effective	20
<b>AYRSHIRE (7)</b>	All 7 beekeepers think their management is effective	100
<b>NORTH EAST (14)</b>	All 14 beekeepers thought their management was effective	100
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	2 of the 3 beekeepers thought their management was effective, the third didn't have varroa as yet	66.66
<b>LOTHIAN &amp; BORDERS (9)</b>	2 of the 9 beekeepers think their management technique is effective	22.22
<b>DUMFRIES (8)</b>	4 of the 8 beekeepers think their management technique is effective	50
<b>TAYSIDE (10)</b>	9 of the 10 beekeepers think their management technique is effective	90

**Q5(b). Query as to whether the beekeepers have pyrethroid resistance:**

	Yes, tested with positive result	No, tested with negative result	Don't know
<b>ARGYLL (9)</b>	1	0	7
<b>WESTERN ISLES (5)</b>	0	0	5
<b>AYRSHIRE (7)</b>	0	0	7
<b>NORTH EAST (14)</b>	1	0	16
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	0	0	3
<b>LOTHIAN &amp; BORDERS (9)</b>	3	1	5
<b>DUMFRIES (8)</b>	1	0	7
<b>TAYSIDE (10)</b>	0	0	10 (1 chooses not to use pyrethroid products)



**Q6. The average honey yield ranged from:**

	<b>Average Honey Yield (per hive)</b>	<b>No. of Beekeepers</b>
<b>ARGYLL (9)</b>	None	0
	Between 1 and 19 lbs	0
	Between 20 and 29 lbs	6
	Between 30 and 39 lbs	1
	Over 40 lbs	1 <i>(per apiary)</i>
<b>WESTERN ISLES (5)</b>	None	0
	Between 1 and 19 lbs	3
	Between 20 and 29 lbs	1
	Between 30 and 39 lbs	1
	Over 40 lbs	0
<b>AYRSHIRE (7)</b>	None	2
	Between 1 and 19 lbs	1
	Between 20 and 29 lbs	0
	Between 30 and 39 lbs	0
	Over 40 lbs	4 <i>(per apiary)</i>
<b>NORTH EAST (14)</b>	None	1
	Between 1 and 19 lbs	5
	Between 20 and 29 lbs	7
	Between 30 and 39 lbs	0
	Over 40 lbs	1
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	None	1
	Between 1 and 19 lbs	0
	Between 20 and 29 lbs	0
	Between 30 and 39 lbs	1
	Over 40 lbs	1
<b>LOTHIAN &amp; BORDERS (9)</b>	None	2
	Between 1 and 19 lbs	1
	Between 20 and 29 lbs	3
	Between 30 and 39 lbs	2
	Over 40 lbs	1
<b>DUMFRIES (8)</b>	None	2 <i>(1 beekeeper keeps bees for nucs not for honey production)</i>
	Between 1 and 19 lbs	1
	Between 20 and 29 lbs	4
	Between 30 and 39 lbs	1
	Over 40 lbs	-
<b>TAYSIDE (10)</b>	None	4 <i>(more concerned about pollination rather than honey yield)</i>
	Between 1 and 19 lbs	3
	Between 20 and 29 lbs	2
	Between 30 and 39 lbs	-
	Over 40 lbs	1

**Q7. The main source of nectar:**

<b>ARGYLL (9)</b>	Apple	✓	Hawthorn	✓	Rosebay Willow Herb	✓	Other:	
	Balsam	✓	Hazel	✓	Rowan	✓	Other:	
	Clover	✓	Heather	✓	Sycamore	✓	Other:	
	Cotoneaster	✓	Knotweed	✓	Wild Flowers	✓		
	Garden Flowers	✓	Lime	✓	Willow			
	Gorse		OSR					

<b>WESTERN ISLES (5)</b>	Apple		Hawthorn		Rosebay Willow Herb		Other:	
	Balsam		Hazel		Rowan		Other:	
	Clover		Heather	✓	Sycamore		Other:	
	Cotoneaster		Knotweed		Wild Flowers			
	Garden Flowers	✓	Lime		Willow			
	Gorse		OSR					

<b>AYR- SHIRE</b>	Apple	✓	Hawthorn	✓	Rosebay Willow Herb	✓	Other: blackthorn	✓
	Balsam	✓	Hazel		Rowan		Other: bramble	✓
	Clover	✓	Heather	✓	Sycamore	✓	Other: woodland	✓
	Cotoneaster		Knotweed		Wild Flowers		Other: bluebell	✓
	Garden Flowers	✓	Lime	✓	Willow	✓		
	Gorse	✓	OSR	✓				

<b>NORTH EAST (14)</b>	Apple		Hawthorn		Rosebay Willow Herb	✓	Other: Beech	✓
	Balsam		Hazel		Rowan		Other:	
	Clover	✓	Heather	✓	Sycamore	✓	Other:	
	Cotoneaster		Knotweed		Wild Flowers	✓		
	Garden Flowers	✓	Lime	✓	Willow			
	Gorse		OSR	✓				

<b>CAITHNESS &amp; SUTHERLAND (3)</b>	Apple		Hawthorn		Rosebay Willow Herb		Other:	
	Balsam		Hazel		Rowan		Other:	
	Clover	✓	Heather	✓	Sycamore	✓	Other:	
	Cotoneaster		Knotweed		Wild Flowers	✓		
	Garden Flowers		Lime	✓	Willow			
	Gorse		OSR					

<b>LOTHIAN &amp; BORDERS (9)</b>	Apple		Hawthorn	✓	Rosebay Willow Herb		Other: Field Barns	✓
	Balsam	✓	Hazel		Rowan		Other: Fruit Trees	✓
	Clover	✓	Heather		Sycamore		Other: Beans	✓
	Cotoneaster		Knotweed		Wild Flowers	✓		
	Garden Flowers	✓	Lime	✓	Willow			
	Gorse		OSR	✓				

<b>DUMFRIES (8)</b>	Apple		Hawthorn	✓	Rosebay Willow Herb	✓	Other: Dandelion	✓
	Balsam	✓	Hazel	✓	Rowan		Other:	
	Clover	✓	Heather	✓	Sycamore	✓	Other:	
	Cotoneaster		Knotweed		Wild Flowers	✓		
	Garden Flowers	✓	Lime	✓	Willow			
	Gorse		OSR					

<b>TAYSIDE (10)</b>	Apple		Hawthorn		Rosebay Willow Herb	✓	Other: Bramble	✓
	Balsam	✓	Hazel		Rowan		Other: Local Trees	✓
	Clover		Heather	✓	Sycamore	✓	Other: local garden centre	✓
	Cotoneaster		Knotweed		Wild Flowers		Other: botanic garden	✓
	Garden Flowers	✓	Lime	✓	Willow			
	Gorse	✓	OSR	✓				

**Q8. Whether the beekeeper uses open mesh floors:**

		%
<b>ARGYLL (9)</b>	6 of the 9 beekeepers used open mesh floors	75
<b>WESTERN ISLES (5)</b>	4 of the 5 beekeepers use open mesh floors	80
<b>AYRSHIRE (7)</b>	6 of the 7 beekeepers use open mesh floors	85.71
<b>NORTH EAST (14)</b>	13 of the 14 beekeepers use open mesh floors	92.85
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	All 3 use open mesh floors	100
<b>LOTHIAN &amp; BORDERS (9)</b>	7 of the 9 beekeepers use open mesh floors	77.77
<b>DUMFRIES (8)</b>	6 of the 8 beekeepers use open mesh floors	75
<b>TAYSIDE (10)</b>	8 of the 10 beekeepers use open mesh floors	80

**Q9. What (if any) proprietary feeds are used:**

<b>ARGYLL (9)</b>	8 of the beekeepers use sugar syrup and 1 uses nothing
<b>WESTERN ISLES (5)</b>	3 beekeepers use sugar syrup and 2 use Ambrosia
<b>AYRSHIRE (7)</b>	All 7 use sugar syrup with 2 also using Ambrosia
<b>NORTH EAST (14)</b>	All 14 beekeepers use either Ambrosia or sugar syrup (or a mixture of both). One also uses Nectapol and one uses Api Suc
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	One beekeeper uses Ambrosia, one uses sugar syrup and one uses a mixture of both.
<b>LOTHIAN &amp; BORDERS (9)</b>	8 of the 9 beekeepers use sugar syrup (3 also using fondant). The ninth uses proprietary feeds but doesn't stipulate which
<b>DUMFRIES (8)</b>	5 of the 8 beekeepers use sugar syrup (1 also uses fondant). Two use Ambrosia (with one also using Vitafeed Gold) and the eighth uses proprietary feed but doesn't stipulate which
<b>TAYSIDE (10)</b>	9 of the 10 beekeepers use a mixture of sugar syrup, ambrosia and fondant (with two also using Api-Sac). The tenth beekeeper uses proprietary feed but didn't stipulate which

**Q10. Plans for the future:**

	Maintain the Status Quo	Plans to develop the no. of hives	Plans to reduce the no. of hives	Other comments
<b>ARGYLL (9)</b>	3	5 (by 2-3 hives)	1	0
<b>WESTERN ISLES (5)</b>	0	5	0	0
<b>AYRSHIRE (7)</b>	4	2	0	1 wasn't sure
<b>NORTH EAST (14)</b>	5	8	1	0
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	2	0	1	0
<b>LOTHIAN &amp; BORDERS (9)</b>	2	6	0	1 gave no answer
<b>DUMFRIES (8)</b>	2	4	0	2 gave no answer
<b>TAYSIDE (10)</b>	8	2	0	0

**Q10(a). Where are the bees/nucs sourced from (per beekeeper):**

	Own breeding	Other local source	Commercial sector	From the Continent	Other:
<b>ARGYLL (9)</b>	3	4	1	1	-
<b>WESTERN ISLES (5)</b>	-	1	3	-	1 (elsewhere in Scotland)
<b>AYRSHIRE (7)</b>	-	4	1	1	elsewhere in Scotland and England
<b>NORTH EAST (14)</b>	5	5 (including swarms)	2	-	inherited bees and also from elsewhere in the UK
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	2	1	-	-	-
<b>LOTHIAN &amp; BORDERS (9)</b>	7	4 (including swarms)	1	-	elsewhere in Scotland
<b>DUMFRIES (8)</b>	1	5	1	-	elsewhere in the UK and inherited from a relative
<b>TAYSIDE (10)</b>	2	-	-	-	inherited bees

**Q11. What reading material is used:**

	<b>SBA Magazine</b>	<b>Bee-Craft</b>	<b>Other</b>	<b>None</b>
<b>ARGYLL (9)</b>	7	5	2 (material not stipulated)	1
<b>WESTERN ISLES (5)</b>	2	-	-	3
<b>AYRSHIRE (7)</b>	7	2	2 (including the internet)	-
<b>NORTH EAST (14)</b>	6	4	Internet, Local Association Newsletters and other reading material (not stipulated)	-
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	2	-	Internet, other reading material (Keeping Healthy Bees by D. Aston)	-
<b>LOTHIAN &amp; BORDERS (9)</b>	9	3	Internet, Fera booklets and other reading material (material not stipulated)	-
<b>DUMFRIES (8)</b>	6	6	7 (material not stipulated)	-
<b>TAYSIDE (10)</b>	8	3	internet and other reading material (e.g. Beekeepers Quarterly and American Bee Journal)	-

**Q12. Were they mentored as a beginner:**

		<b>%</b>
<b>ARGYLL (9)</b>	4 of the 9 beekeepers were mentored	37.50
<b>WESTERN ISLES (5)</b>	2 of the 5 beekeepers were mentored	40
<b>AYRSHIRE (7)</b>	5 of the 7 beekeepers were mentored	71.42
<b>NORTH EAST (14)</b>	5 of the 14 beekeepers were mentored	35.71
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	2 of the 3 beekeepers were mentored	66.66
<b>LOTHIAN &amp; BORDERS (9)</b>	4 of the 9 beekeepers were mentored	44.44
<b>DUMFRIES (8)</b>	5 of the 8 beekeepers were mentored	62.50
<b>TAYSIDE (10)</b>	7 of the 10 beekeepers were mentored	70

**Q13. What associations do they belong to:**

	<b>SBA</b>	<b>Local Association</b>	<b>Other</b>	<b>None</b>
<b>ARGYLL (9)</b>	5	3 (Helensburgh and Lochaber)	3 x BKA 1 x BIBBA	2
<b>WESTERN ISLES (5)</b>	2	4 (Isle of Lewis)	-	1
<b>AYRSHIRE (7)</b>	5	-	1 x BFA	2
<b>NORTH EAST (14)</b>	3	12 (Aberdeen)	-	1
<b>CAITHNESS &amp; SUTHERLAND (3)</b>	2	3 (Sutherland, Olig)	-	-
<b>LOTHIAN &amp; BORDERS (9)</b>	9	4	-	-
<b>DUMFRIES (8)</b>	6	5	-	2
<b>TAYSIDE (10)</b>	2	3 (Fortingall, Perth and Fife)	-	-