AGRIQUALITY NZ LTD REPORT TO THE ANNUAL CONFERENCE OF THE NATIONAL BEEKEEPERS' ASSOCIATION OF NEW ZEALAND: GISBORNE, 19-20 JULY 2000

1.0 Personnel

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2.0 Beekeeping Statistics

2.1 Beekeepers, Apiaries and Hives (1998-99 figures in brackets)

There were 4956 (4918) registered beekeepers owning 320113 (302,988) hives on 22443 (21793) apiaries, as at 15 July 2000. While beekeeper numbers increased by 38 this is not particularly significant given that there are usually around 300 new beekeeper registrations each year and about as many cancellations. The Annual Disease Return (ADR) cycle coincided with the varroa outbreak so it will never be known how many new beekeepers and apiary registrations would have occurred anyway or were a direct result of the publicity surrounding the varroa response.

There were over 600 new apiary registrations in the country with the greater Auckland area accounting for 100 of these (220 hives and 96 new beekeepers). The response did 'encourage' several commercial beekeepers to register significant numbers of apiaries and hives which probably would not have been registered under normal circumstances.

2.2 Honey Production

The total saleable crop was assessed at 9609 tonnes (30 kg/hive) which is an increase of 540 tonnes on last years crop of 9069 tonnes (29.9 kg/hive). The six year average is 8659 tonnes or 29 kg per hive. Per hive honey production figures are taken over all registered hives not just the productive ones.

3.0 AFB Pest Management Strategy

3.1 Apiary Register

The Register costs an estimated \$40,550 to operate for a year, although the true costs of hardware maintenance and upgrading and programming costs are not fully covered. The register proved its worth in the varroa response even though a lot of beekeeper addresses and apiary location data was 12 months out of date because of the ADR cycle. Further programming has been undertaken, with the approval of the NBA, to enhance the mapping capability and upgrade the reporting and recording functions needed for an exotic bee disease response and ongoing management of varroa.

3.2 Annual Disease Returns (ADR's)

These were mailed to every beekeeper on10-11 May this year (due date 20 April). This was later than desirable due to delays in the NBA approving the forms and letter, to key AgriQuality staff being away after NBA approval was obtained and to the varroa outbreak The completed ADR's were to be returned by 1st June but of the 4900 mailed out, reminder notices had to be sent to over 2,700 defaulters. A significant number of beekeepers are returning the ADR's without placing a stamp on the envelope. This increases the cost of the PMS as the postal services charge double the postage rate for these envelopes.

3.3 PMS Inspection and Audit Services

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The NBA secured Authorised Person warrants for 70 beekeepers and some of these were engaged to assist AgriQuality to inspect hives for American foulbrood (AFB).

3.3.1 Field Inspections

AgriQuality was contracted to inspect up to 432 apiaries, and with beekeeper assistance, inspected 443 apiaries, 2910 hives and found 115 hives of AFB in 46 apiaries. This means that 10% of the apiaries inspected and 4% of the hives inspected were infected with AFB. Three apiaries and 8 hives infected with AFB were destroyed by AgriQuality on default of a notice to the beekeeper to destroy the diseased hives. Thirteen unregistered apiaries were found and 9 notices were sent to register these. Inspectors also found 11 abandoned apiaries, burnt one and found new owners for the rest.

3.3.2 Honey & Bee Sampling Programme

AgriQuality was required to arrange for the collection of 912 honey samples from 112 commercial beekeepers and 38 bee samples from 38 non-commercial beekeepers for a total of 950 solicited samples. In addition 50 suspect samples were allowed for, to be sent in by AgriQuality officers or beekeepers after approval from AgriQuality. The sampling programme was changed this year by the NBA so more honey samples were requested from commercial beekeepers with only a few bee samples being requested from hobby beekeepers. Last year samples were requested from 300 beekeepers.

A personal reminder notice was sent to all defaulters and further requests were made at field days and NBA meetings and by individual contact for the samples to be returned. Despite all this, only 67 beekeepers (45%) sent in the requested samples by the end of June. Some samples are still trickling in and will continue to do so until the end of September, when the contract to test the samples ends. The number of sample results notified to AgriQuality is 306 (32%) with 20 being described as positive. The Hort & Research results recorded below include suspect samples as well as others that may not have been passed to AgriQuality. These results are interim figures only for the 1999-00 season.

No. beekeepers sent jars	No. jars sent	Beekeepers returning samples		Samples returned		No. samples positive on culture	No. AFB hives in field
		No.	%	No.	%	5-	
112	950	59	53	438	46	20	0

Table: 1 Summary of Testing Honey Samples of AFB to 30th June 2000

Table: 2 Summary of Testing Bee Samples for AFB to 30th June 2000

beel	No. keepers nt jars	No. jars sent	•	s returning ples	Samples	returned	No. samples positive on culture	No. AFB hives in field
			*No.	%	*No.	%		

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38	38	39	103%	88	232	5	0

* Beekeepers sent in more samples as a result of increased inspections during the varroa response. In addition to the samples above, 24 beekeepers sent in suspect larvae or comb containing larvae and 15 of these were positive.

3.4 Total AFB Reports

The number of AFB infected apiaries found or reported increased by 103 over the same period in 1999, while the number of infected hives also increased by 355 hives. There is no obvious explanation for this small increase although a number of AFB hives were found during the Exotic Disease Response exercise in Auckland in early September 1999 and again during the recent varroa response.

Table 3: AFB Reported by Beekeepers or Found by Inspectors to June 30 2000

Apiary District	Apiario	es AFB	Hives AFB		
	99/00	98/99	99/00	98/99	
Whangarei	79	56	152	103	
Hamilton	156	165	269	307	
Tauranga	169	112	358	184	
Palmerston North	60	57	128	93	
Blenheim	79	59	179	88	
Canterbury	39	46	72	66	
Invermay	78	62	135	97	
Total	660 (2.9%)	557 (2.6%)	1293 (0.40)	938 (0.31%)	

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NEW ZEALAND HONEY PRODUCTION, IN TONNES AS AT 30 JUNE ANNUALLY

	Northland,	Waikato,	Bay of Plenty,	Hawkes Bay,		Marlborough,	Canterbury*,	South &			
YEAR	Auckland,	King Country,	Coromandel,	Taranaki,	NORTH	Nelson,	North Otago	Central Otago,	SOUTH	NEW	Yield per
	Hauraki	Taupo	Poverty Bay	Manawatu,	ISLAND	Westland		Southland	ISLAND	ZEALAND	Hive (kgs)**
	Plains			Wairarapa							
1995	354	962	1426	1200	3942	499	1685	1921	4105	8047	27.5
1996	829	1639	1077	1367	4912	607	1287	1804	3698	8610	30.0
1997	766	829	933	1112	3640	919	2339	1639	4897	8537	29.7
1998	1014	1404	1314	1230	4962	598	1238	1283	3119	8081	27.0
1999	615	1617	1800	1416	5448	770	1782	1069	3621	9069	29.9
2000	982	1434	1300	1323	5039	705	2310	1555	4570	9609	30.0
6 yr ave	760	1314	1308	1275	4657	683	1774	1545	4002	8659	29.0
	es honeydew										
** Total e	stimated prod	uction available f	or extraction divid	ded by total num	ber of regis	tered hives					
										•	

New Zealand beekeeper, apiary and hive statistics by apiary district as at 15-Jul-2000

Apiary Register		Category 0	- 5 Hives
Location	Beekeepers	Apiaries	Hives
Blenheim	274	317	577
Canterbury	482	563	978
Hamilton	320	363	717
Otago/Southland	252	289	617
Palmerston North	822	904	1921
Tauranga	285	321	640
Whangarei	887	965	1810
New Zealand	3322	3722	7260

Apiary Register		Category 6 - 10 Hives			
Location	Beekeepers	Apiaries	Hives		
Blenheim	42	69	324		
Canterbury	92	160	726		
Hamilton	78	120	621		
Otago/Southland	68	99	517		
Palmerston North	219	302	1725		
Tauranga	61	89	468		
Whangarei	143	225	1108		
New Zealand	1 703	1064	5489		

Apiary Register		Category 11 -	50 Hives
Location	Beekeepers	Apiaries	Hives
Blenheim	40	100	952
Canterbury	54	153	1316
Hamilton	33	82	811
Otago/Southland	43	108	1038
Palmerston North	98	274	2463
Tauranga	60	134	1453
Whangarei	69	145	1569
New Zealand	l 397	996	9602

Apiary Register	Category 51 - 250 Hives				
Location	Beekeepers	Apiaries	Hives		
Blenheim	24	163	3082		
Canterbury	38	449	5220		
Hamilton	21	182	2774		
Otago/Southland	33	329	3891		
Palmerston North	46	386	5164		
Tauranga	42	285	4694		
Whangarei	38	3,14	4503		
New Zealand	242	2108	29328		

Category 51 - 250 Hives			Apiary Register	C	Category 251 - 500 Hives			
	Apiaries	Hives	Location	Beekeepers	Apiaries	Hives		
ŀ	163	3082	Blenheim	17	358	6356		
;	449	5220	Canterbury	18	380	6147		
	182	2774	Hamilton	12	313	5059		
	329	3891	Otago/Southland	17	382	6110		
;	386	5164	Palmerston North	10	249	3676		
	285	4694	Tauranga	10	153	3295		
;	314	4503	Whangarei	10	382	3288		
	2108	29328	New Zealand	1 94	2217	33931		

Apiary Register	Category 501 - 1000 Hives					
Location	Beekeepers	Apiaries	Hives			
Blenheim	12	419	8310			
Canterbury	26	1166	17374			
Hamilton	13	489	10519			
Otago/Southland	23	1070	16326			
Palmerston North	11	460	8055			
Tauranga	20	583	11736			
Whangarei	12	384	8224			
New Zealand	i 117	4571	80544			

Apiary Register		Category 1000+ Hives	
Location	Beekeepers	Apiaries	Hives
Blenheim	6	341	9342
Canterbury	17	1877	28595
Hamilton	9	1251	29362
Otago/Southland	15	1218	22324
Palmerston North	8	1080	20530
Tauranga	19	1421	29222
Whangarei	9	618	15584
New Zealand	83	7806	154959

Apiary Register Location			Total
	Beekeepers	Apiaries	Hives
Blenheim	414	1741	28443
Canterbury	727	4748	60356
Hamilton	486	2800	49863
Otago/Southland	451	3495	50823
Palmerston North	1214	3655	43534
Tauranga	496	2971	51008
Whangarei	1168	3033	36086
New Zealand	4956	22443	320113