## **VERIFICATION TESTING – AUGUST TO SEPTEMBER 2004**

## VII - LOOKING AT THE CHART:

- You must do your tests at the same time each year otherwise your numbers will not be comparable.
- In the Apistan Resistance column, we have two 15x and one 20x multiples. Acid treatment postpones resistance but this is a warning that some resistant mites have gotten to us; however this is only 20% of the hives and still low. We will verify the situation in the spring. This fall, Apistan (fluvalinate), will still work in our operation.
- In the Acid Efficacy section, the multiples are lower when compared to last year but sufficient for acid. This is likely the result of some unusually cold and wet weather we received during the test period.
- LEVEL OF INFESTATION: The 24 hour prorated drops shows drops of 9 and 6. This is still below the negligible level but twice as much as our long time maximum of four mites. The rest (80% of the hives) are below 4 mites drop. Again, a spring evaluation is a must.

<b>Hive Number &amp; Location</b>		Natural Drop		Pesticide Drop		Treatment	Hive Evaluation			
O = Outside circle		Aug 30 (11am)		Sept 4 (11am)		Efficacy	2 Story Langstroth			
I = Inside circle		to Sept 4 (11am)		to Sept 5 (1 pm)		and	Frames of brood			
		Total x .2		Total x .92		Resistance	Frames of bees			
Test for Treatment		<u>120Hr 24Hr</u>		26Hr 24Hr		Multiple	(lbs) Notes		$\perp$	
										<b>V</b>
Resistance	<b>O</b> 1	15	3	201	185	61 x	92		18	4
and Efficacy	<b>O2</b>	16	3.2	140	129	40 x	92		18	6
	<b>O3</b>	13	2.6	202	186	72 x	69		18	4.5
Apistan 2 strips in top box	<b>O4</b>	14	2.8	87 30%	80	29 x *	<b>76</b>		18	4.5
	<b>O5</b>	12	2.4	88	81	34 x	86		18	5.5
	<b>O6</b>	8	1.6	107	98	62 x	98		18	5.5
	<b>O</b> 7	33	6.6	108	99	15 x	69		17	6.5
	<b>O8</b>	46	9.2	150	138	15 x	71		18	5.5
	09	9 50%	3	68 20%	63	20 x *	84		18	4.5
	O10	12	2.4	114	104	43 x	81		18	5.5
Efficacy 21 days 2 pads formic acid 12 gram/day formic acid 21 day 3 pads 18	I 1	14	2.8	113	104	37.2 x	88		18	7.5
	I 2	30	6	47	43	7.2 x	82		18	4.5
	I 3	7	1.4	32	30	21.0 x	67		16	4
	I 4	5	1 -	52	48	47.8 x	74		18	6
	I 5	13	2.6	29	27	10.3 x	83		16	4.5
	I 6	45	9 -	214	197	21.8 x	97		18	4.5
	I 7	11	2.2	42	39	17.5 x	74		18	7.5
	I 8	15	3 -	33	30	10.0 x	61		18	4
gram/day	19	23	4.6	54	50	10.8 x	61		17	4
	I 10	17	3.4	105	96	28.4 x	66		18	5.5

Total Natural Drop \_\_\_\_\_\_\_\_

Collected for 3 – 5 Days

Natural Drop interpolated to 24 Hours

Pesticide drop interpolated into 24 hours

Pesticide drop collected during the first 24-48 hours after application

<sup>% =</sup> indicates percentage of boards cleaned.

<sup>\* =</sup> interpolated figure due to boards cleaned