10 Y	10 YEARS SHELF LIFE TREATMENT EFFICACY TEST CHART														APRIL 2015					
MITEGONE PADS AND METHOD 65% FORMIC ACID August 2014																				
August Treatment TWO 5" Pads – One pad for every 5 frames of bees Multiple of														April Treatment – TWO 5" pads						
Location		Hive Evaluation						Pesticide Drop			Treatment		Natural Drop			Hive and ,or Group				
Hive NO					Fr: Aug 20 – 10am						Efficacy		Fr: Apr 10 – 10 am			Spring Evaluation				
O=Outside			+feede	r							Or		To: Apr 13 – 10 am							
I=inside circle		Augus			Total hours 36						Resistance					[No] Frames of:				
From yard		Frames of:			Total 24 Hr Gr Avg			Total 24 Hr Gr Avg			Gr Avg		Total	24Hr	Gr Avg	Notes	Bees	Brood		
		Lbs Bees Brood																		
Main	I 1	40	7	4	6	2		18	18		9x									
Main	01	35	5	3	3	1		8	8		8x									
Main	12	50	8	5-6	7	2.33		209	209		89x									
Main	02	45	8	5	1 ▲	0.30		109	109		369x									
Total Natural Drop Before Treatment								Pesticide drop interpolated into 24 hours												
Collected for 3-5 Days —								Pesticide drop collected during the												
Natural Drop interpolated to 24 Hours — first 24 to 48 hours												8 hours	after a	pplicat	ion					

RESULTS ABSTRACT: Above chart and Efficacy multiple clearly demonstrate the shelf life of filled kits is 10 YEARS.

Material: In 2004 first DK-20 Containing 20—5" pads each, were designed and manufactured 50 of these kits were filled with formic acid and 12 were put aside for SHELF LIFE TESTING. Each year starting in 2005 one kit was used in the August treatment period and efficacy was monitored ageist the hives being treated with freshly filled pads.

From 2005 to 2009 on 2 deep colonies at 3 pads each. 2010 to 2012 on single 10 frame colonies and as our system of wintering progress in 2013 and 2014 on 8 frame colonies in standard deep box with 2 frame feeder using 2 pads each.

Multiple of treatment efficacy or resistance: is a ratio between 24 hours prorated natural drop and first 24 hour drop of applied pesticide. Higher the multiple= higher efficacy see:

http://www.mitegone.com/pdfpages/Test%20Evaluation%20September%202003.pdf

It explains: in detail how it is done and what it means. The numbers of mites are for the average 2 high colony having 30 000 bees.

The difference of testing results between men made pesticides and natural substances controlling mites.

Observations: While all our hives are treated each year in April and used for pollination and then sold in form of artificial swarms. Hives tested in august are result of 120 mating units set up in May and are terminated and united eliminating failing or not performing Queens. Tested Queens are sold on end of July to reduce population to 72 wintered units. It is obvious that weaker units harbour les mites and have lesser efficacy treatment results, the strong ones outperform the results we experienced wit APISTAN before resistance.