

# Funding the National American Foulbrood Pest Management Plan

Clifton King, National Compliance Manager

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# National American Foulbrood Pest Management Plan



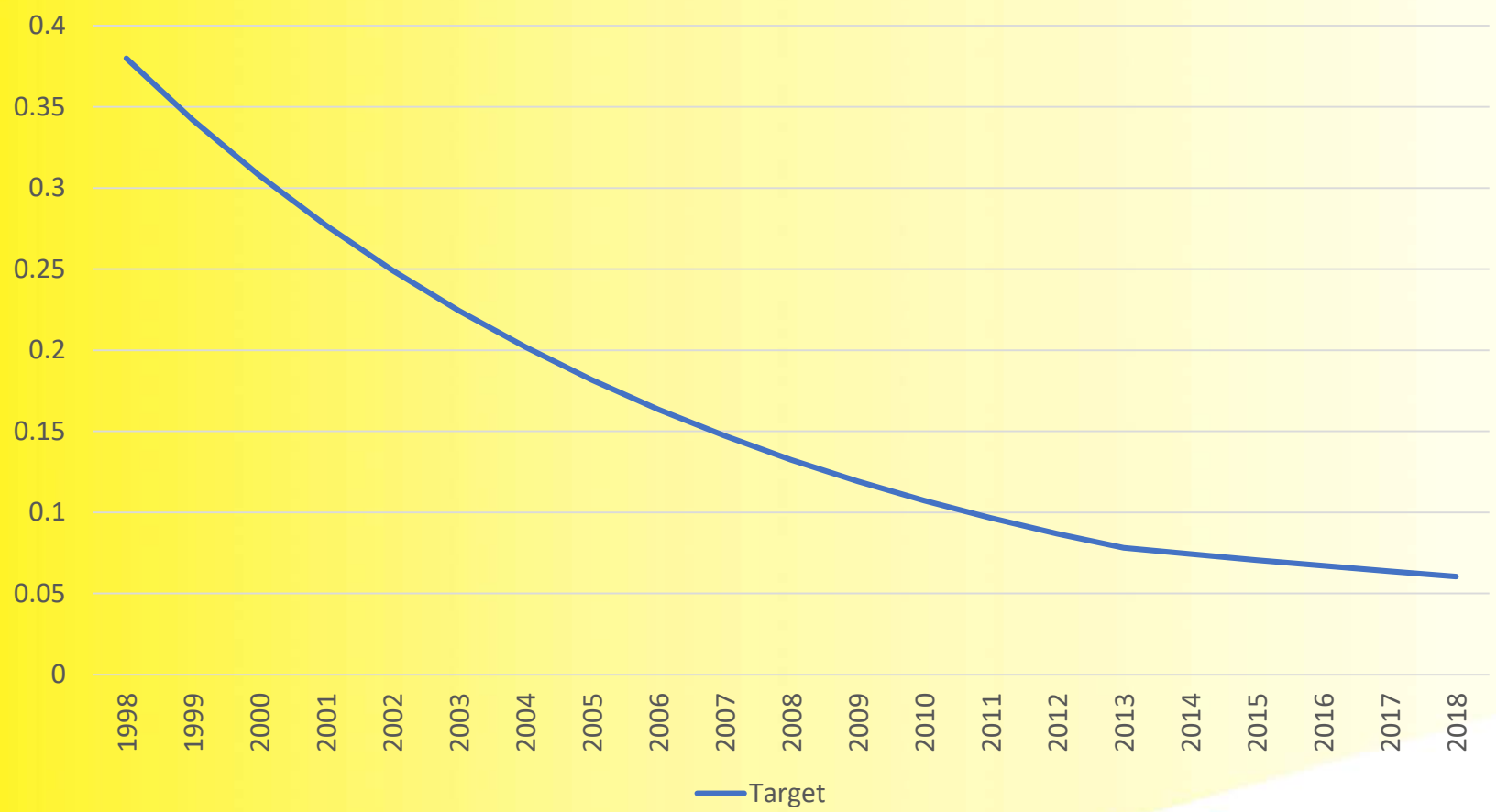
## Primary Objective:

- To reduce the reported incidence of American foulbrood (AFB) by an average of:
  - 10% each year (1998 to 2013)
  - 5% each year (2013 to present)



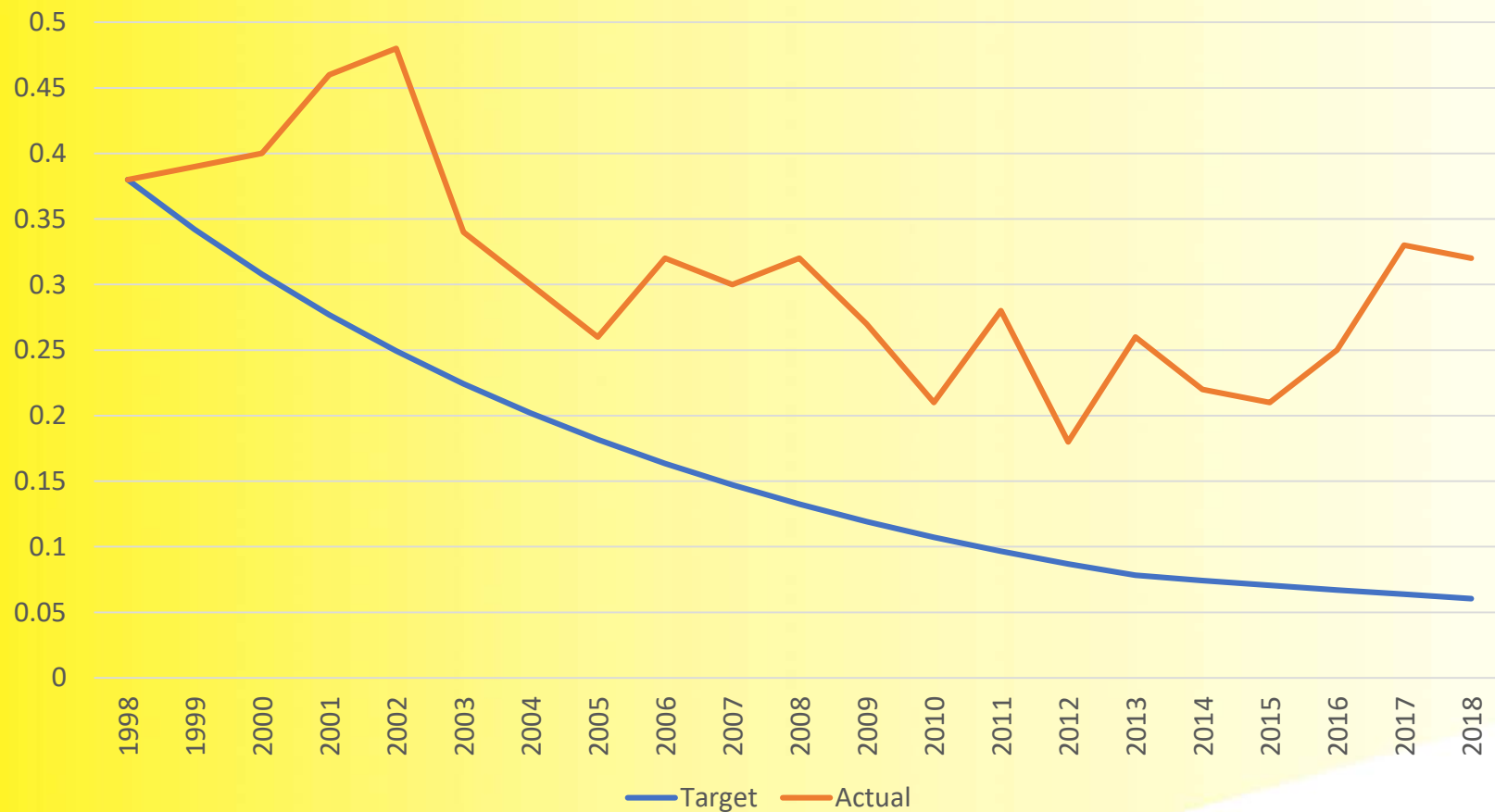


# AFB PMP Target Performance (% Hives reported with AFB)



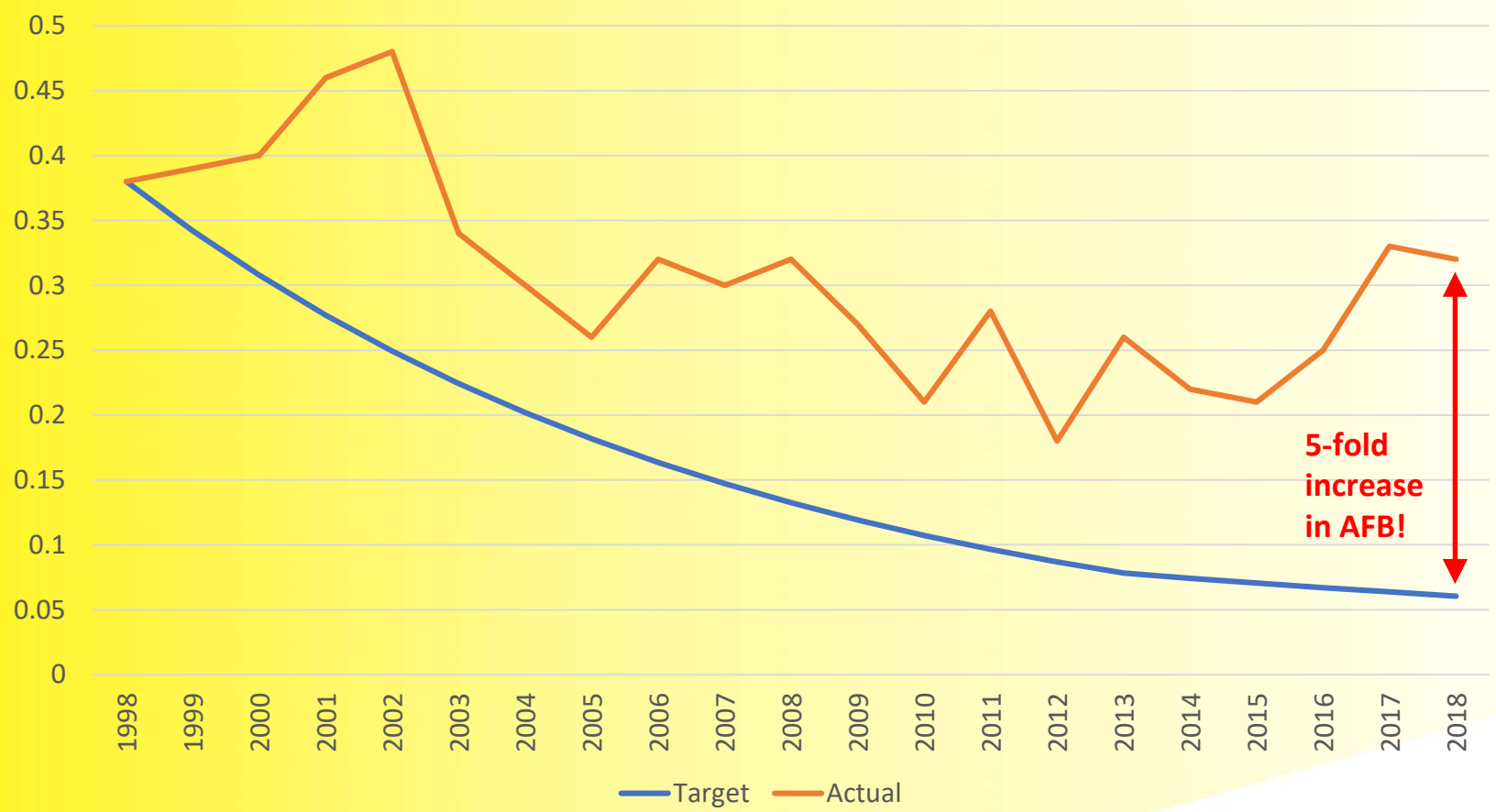


# AFB PMP Actual Performance (% Hives reported with AFB)





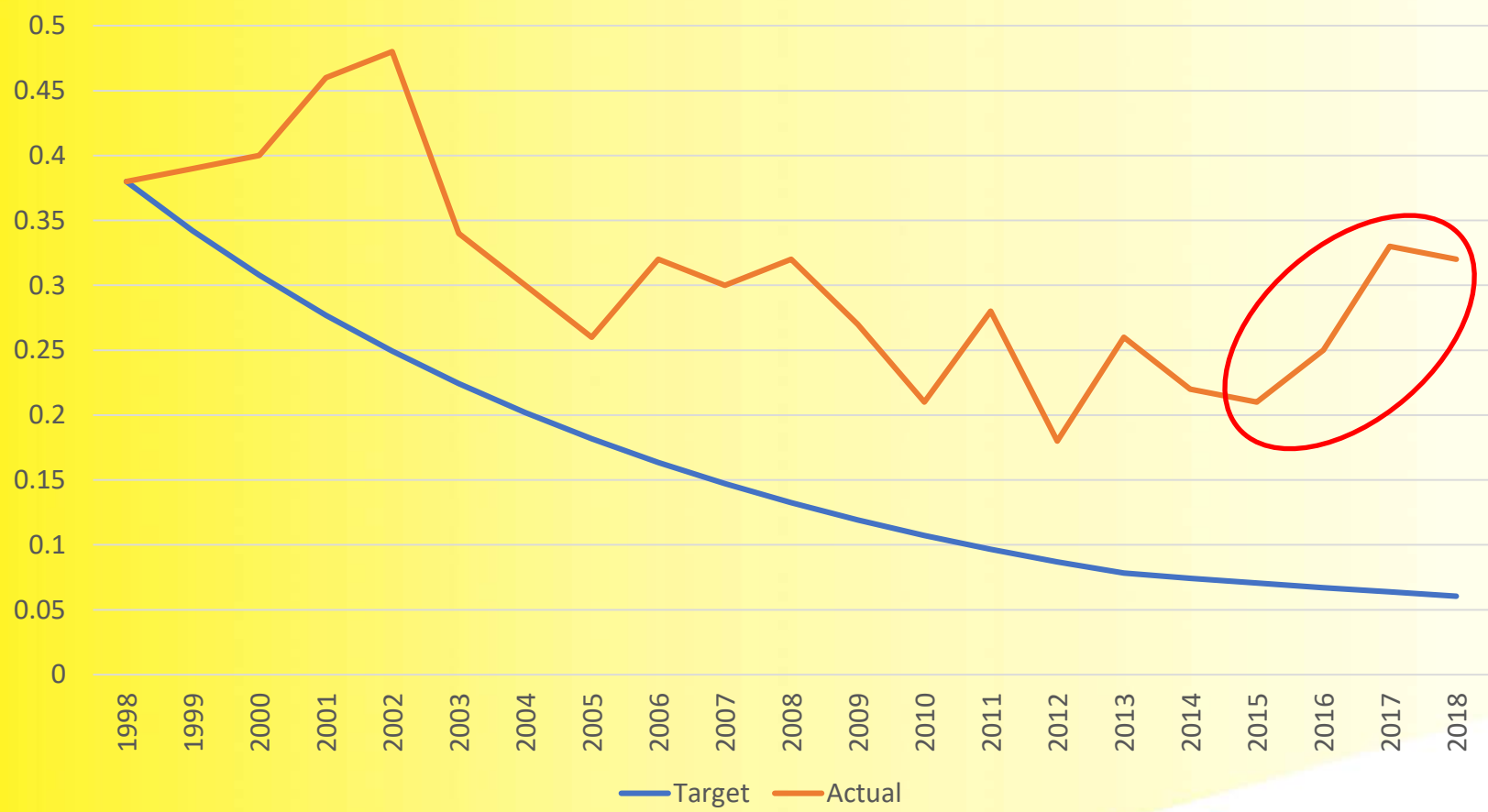
# Actual Performance (% Hives reported with AFB)



**5-fold  
increase  
in AFB!**



# Impact of Rapid Industry Expansion (% Hives reported with AFB)

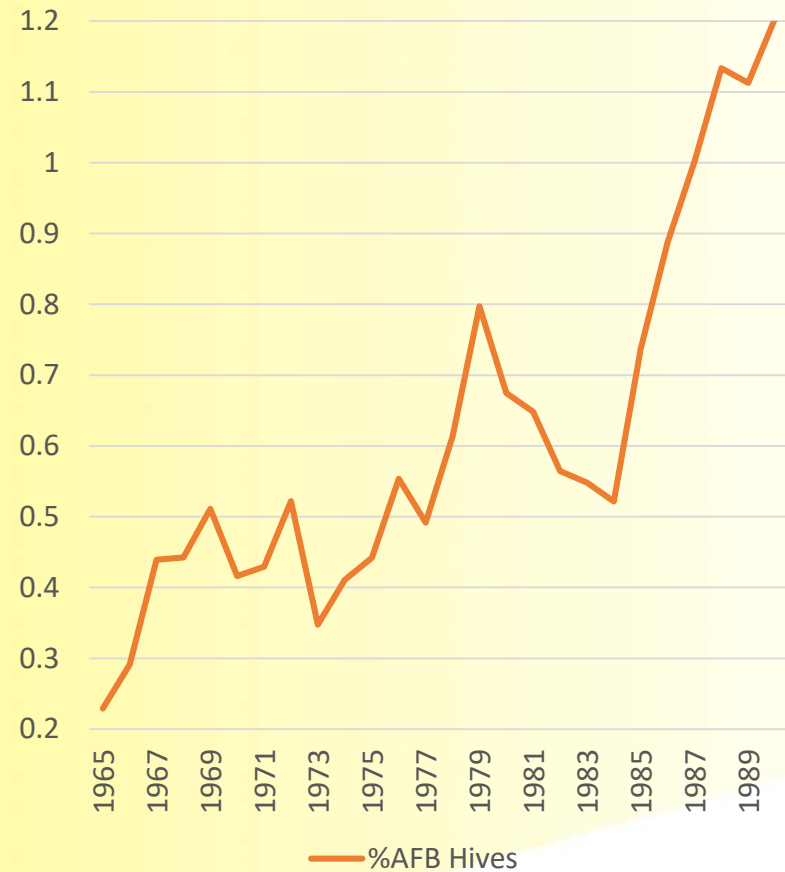


# The Beekeeping Industry needs to act now!



.....to prevent the impact of rapid industry expansion.....

.....from causing a return to the levels of AFB last seen in the 20<sup>th</sup> century.....



# Proposed AFB Control Strategy



*Full implementation of the existing National American Foulbrood Pest Management Plan funded by an increased Levy*

- Current and proposed AFB control actions evaluated against the principles of national disease control:
  - Identification and registration of apiaries
  - Surveillance to detect AFB
  - Eliminating AFB
  - Preventing the spread of AFB



# Apiary identification and registration



*Knowing beehive locations is fundamental to controlling AFB*

- The current apiary registration compliance programme is largely based upon beekeepers honesty
- Additional levy funding is required to enable the Management Agency to implement a robust apiary registration compliance programme

# Surveillance to detect AFB



*Knowing where AFB is present and absent is fundamental to controlling AFB*

- The current surveillance programme is dependent upon beekeepers ability and willingness to detect and report AFB
  - The Management Agency currently does not have enough information to reliably assess the level of AFB in beekeepers hives, especially when the beekeeper fails to detect and report AFB
  - => **The Management Agency is unable to make transparent and consistent decisions to ensure DECA holders are eliminating AFB as agreed**



# Surveillance to detect AFB



*Additional levy funding is required to provide the Management Agency with the surveillance information required to assess the level of AFB in beekeeper hives*

- Increased honey surveillance (2,000 samples/year) will enable the Management Agency to prioritise beekeeper apiaries for inspection
- Increased AP2 inspection of apiaries (10% of apiaries/year up from 2%)

# Acting on Surveillance Information



*A beekeeper that voluntarily commits to eliminating AFB will achieve much better results than a beekeeper that is made to comply with plan rules*

- Additional levy funding will enable the Management Agency to implement proportional and appropriate responses where a DECA holder is not eliminating AFB from their hives:
  - Initiation of advisory services, additional inspections and/or audit
  - Amend the beekeepers DECA
  - Issue a notice to comply with DECA
  - Revoke Certificate of Inspection Exemption and cancel DECA
  - Default inspections



# Eliminating AFB

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*The current practice of burning hives is an effective method of eliminating AFB*

- Additional levy funding will enable the Management Agency to monitor and audit beekeeper elimination performance





# Preventing the Spread of AFB



*The most cost effective mechanism for preventing the spread of AFB is good beekeeping practice implemented by the beekeeper*

- Additional levy funding will enable the Management Agency to:
  - provide targeted advisory services
  - run three regional workshops per year
- Serve Restricted Place Notices where beekeeping practice is not sufficient to mitigate the risk to other apiaries



# Cross-Programme Support

- Additional levy funding will enable the Management Agency to:
  - Replace the Apiary Database / ApiWeb (\$500,000)
  - Review the National American Foulbrood Pest Management Plan which is due for review in 2023 (\$250,000)
  - Fund research into new tools for the detection and elimination of AFB (\$50,000 per annum)

# Summary levy investment table



Activity	Current annual levy funding	Additional annual levy funding	Total annual levy funding
<b>Identifying and registering apiaries</b>	\$141,000	\$296,000	\$437,000
<b>Surveillance to detect AFB</b>	\$434,000	\$1,442,000	\$1,876,000
<b>Eliminating AFB</b>	Included in surveillance	Included in surveillance	Included in surveillance
<b>Preventing the spread of AFB</b>	Included in surveillance and governance, management, administration and communications	\$26,000	\$26,000 (in addition to the funding included in surveillance and governance, management, administration and communications)
<b>Cross-programme support</b>	\$30,000	\$315,000	\$345,000
<b>Governance, management, administration and communications</b>	\$401,000	\$75,000	\$476,000



# Benefits of funding full implementation of the AFB PMP



- Save 41,000 beehives and associated products valued at \$50 million from destruction over the next ten years.
- Protecting access to export markets worth \$329 million per annum



# Break-even cost / benefit analysis for beekeepers



Apiaries	Current Levy (\$)	Proposed Max Levy (\$)	Increase (\$)	Breakeven # hives to save
<4	35.17	90.00	54.83	<b>1 hive / 22.2 years</b>
9	156.53	490.00	333.47	<b>1 hive / 3.7 years</b>
23	349.91	1,190.00	890.09	<b>1 hive / 1.4 years</b>
40	626.80	2,040.00	1,413.20	<b>1.2 hives / year</b>
146	2,234.82	7,340.00	5,105.18	<b>4.2 hives / year</b>

# Full implementation of the AFB PMP



*Will enable beekeepers that eliminate AFB from their beehives to have confidence that the risk of reinfection from neighbouring hives has been dramatically reduced*





# Next steps

- We want to hear your views on the proposed levy to fully implement the National American Foulbrood Pest Management Plan:
  - Come and speak to me at the AFB PMP stand
  - Submit questions to [info@afb.org.nz](mailto:info@afb.org.nz) before 3 August 2018
    - Answers to questions will be posted on the website weekly and via email
  - Make an online submission by following the link at <http://www.afb.org.nz/new-levy-proposal> before 10 August
- The Management Agency Board will consider submissions in September 2018 prior to making a recommendation to the Minister for Biosecurity
- Beekeepers informed of decision in October 2018.