

Quantum
Market
Research

Agriculture Victoria – 1080 Use Survey

Prepared for the Department of Energy Environment and
Climate Action (DEECA) by Quantum Market Research

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Executive summary

Executive summary – Permit holders' reliance on 1080

Three in five (60%) 1080 permit holders have used 1080 in the last 5 years; leaving two in five (40%) who have not.

1080 is most widely used by permit holders who control **foxes** (62% of permit holders who control foxes have used 1080 in the last 5 years), and those who control **wild dogs** (69% of permit holders who control wild dogs have used 1080 in the last 5 years).

1080 permit holders are less likely to use 1080 to control **rabbits** (33% of those who control rabbits had used 1080 in the last 5 years) and **feral pigs** (23% of those who control feral pigs had used 1080 in the last 5 years).

Among those who use 1080, the vast majority agree 'it is essential to effectively control' pest animals.

This includes the vast majority (94%) of those who use 1080 to control **foxes**, (92%) who use 1080 to control **rabbits**, (93%) who use 1080 to control **wild dogs**, and (88%) who use 1080 to control **feral pigs**.

High proportions of those who use 1080 indicate that pest animals would be 'not effectively controlled' without 1080. This includes 70% who use 1080 to control **foxes**, 59% who use 1080 to control **rabbits**, 63% who use 1080 to control **wild dogs** and 38% who use 1080 to control **feral pigs**.

Among those who use 1080, the vast majority agree that populations of the pest animals they target would increase significantly or moderately if 1080 wasn't available and alternative methods were used in its place.

This includes the majority (89%) of those who use 1080 to control foxes, (80%) who use 1080 to control rabbits, (86%) who use 1080 to control wild dogs, and (73%) who use 1080 to control feral pigs.

The alternative methods permit holders would use vary depending on target species, but generally include more shooting, trapping and use of alternative bait poisons.

Executive summary – Permit holders' usage of and attitudes toward 1080

In the majority of cases, those who use 1080 use it in series with a suite of other control methods.

The majority (89%) of those who have used 1080 to control **foxes** have used it alongside other control methods in the last 5 years.

Almost all (98%) of those who have used 1080 to control **rabbits** have also used other control methods in the last 5 years.

The majority (91%) of those who have used 1080 to control **wild dogs** have also used other control methods in the last 5 years.

Almost all (96%) of those who have used 1080 to **feral pigs** have also used other control methods in the last 5 years.

Overall, those who use 1080 are confident that native wildlife is not harmed, and are not concerned by the welfare impacts on pest animals.

Those confident that native wildlife is not harmed include more than three quarters (79%) of those who use 1080 to control **foxes**, (75%) who use 1080 to control **rabbits**, (84%) who use 1080 to control **wild dogs**, and (77%) who use 1080 to control **feral pigs**.

Those concerned by the welfare impacts on pest animals include a minority (12%) of those who use 1080 to control **foxes**, (11%) who use 1080 to control **rabbits**, (9%) who use 1080 to control **wild dogs**, and (8%) who use 1080 to control **feral pigs**.

The majority (83%) of all permit holders disagree that the use of 1080 should be phased out.

This includes the vast majority (91%) of those who have used 1080 in the past five years.

The majority **agree** that the positives of 1080 outweigh the negatives (81%), that ceasing the use of 1080 would negatively impact commercial viability (71%), and that ceasing the use of 1080 would negatively impact biodiversity (65%).

Further, the majority **disagree** that non-lethal control methods are a viable alternative to 1080 (71%), and that 1080 has more negatives / downsides than alternative pest animal control methods (67%).

About the research



Aims and objectives

The Victorian Government seeks to support and promote best practice management of pests. This includes encouraging industry investment in new control techniques, delivering regulatory and non-regulatory controls, and facilitating land managers to select an appropriate mix of controls.

As part of this, the Government committed to conducting research into alternatives to 1080 poison. This commitment was grounded in concerns over the use of 1080, including welfare outcomes for target species and unintended consequences for native fauna and domestic animals.

This project principally seeks to understand how 1080 permit holders, manufacturers and retailers in Victoria currently use and think about 1080.

Specifically, the research aims to:

- Establish an evidence base for how 1080 and other lethal baits of pest animals are being used.
- Understand the extent to which land managers engage with educational resources and best practice guidelines.
- Explore land managers' perceptions of the economic, environmental and social aspects, including animal welfare aspects of 1080 use.
- Explore receptiveness to potential government regulatory and non-regulatory reform of 1080 use.
- Assess the implications of reduced availability of 1080 for land managers.
- Understand what land managers themselves would like to see / believe should happen.

1080 permit holder methodology



In-depth interviews with 1080 permit holders. Included n=15 private land managers engaged by video conference, and n=12 public land managers engaged by private online forum. The purpose of this upfront step was to explore the topic and inform the survey design. Private land managers received a \$150 incentive.



A survey was developed using insights from the in-depth interviews.



Survey with final sample size of n=1,789; completed via online, paper or telephone survey.



Survey was conducted in April – June 2024.

The project was carried out in line with the Market Research International Standard, AS ISO 20252.

Survey sample:

- Respondents were all holders of Victorian Agricultural Chemical User Permits (ACUP) with 1080 and PAPP endorsements and vermin endorsed Commercial Operator Licence holders. Everyone who met this criteria was invited to participate, whether they were actively using 1080 or not. Throughout the report, this audience is referred to as “1080 permit holders”.
- Note that permit / licence holders who had listed a Parks Victoria email address were excluded from the survey as Parks Victoria wished to submit a singular organisation-wide response.

Technical information:

- **Base sizes:** Some respondents who completed the survey by paper chose not to answer all questions. As a result, base sizes vary question-to-question.
- **Margin of error:** The maximum margin of error (at the 95% confidence interval) for the total sample size is +/- 2%. In other words, if the survey returns a result that ‘50% agree with X’, we can be suitably confident that the true proportion within the whole population lies between 48% and 52%. This is a very high degree of reliability.
- **Significance testing:** Where significant differences have been shown, results are significant at the 95% confidence interval. Testing was conducted between a sub-category and its complement (e.g. Male vs. everyone who isn’t male, or Public land managers vs. everyone who isn’t a public land manager).
- **Qualitative findings** related to 1080 permit holders are based on a sample of n=27 private and public land managers. As they are based on thematic analysis from a small sample, findings are directional only.



Reaching our audience



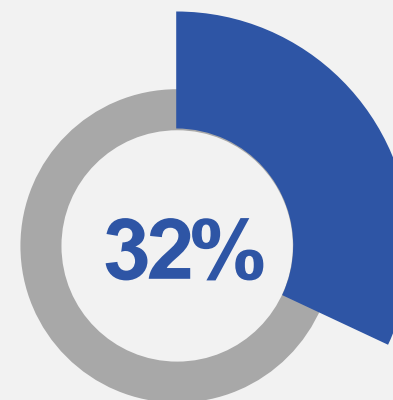
Agriculture Victoria strived to reach as many 1080 permit / licence holders as possible. As a result, they invested in a comprehensive strategy to reach participants using a three-stream approach. This included:

1. **Online** – Those who had provided an email address when signing up to their permit / licence received an invitation to the survey via email.
2. **Paper** – Those who didn't provide an email address were sent a physical paper survey to the address they had provided. This physical survey had a QR code that allowed the recipient to complete the survey online if preferred, or a reply-paid envelope for them to complete and return the physical survey.
3. **Phone** – Recipients who did not complete the survey within the first two weeks of fieldwork received a call from a researcher who supported them to complete the survey over the phone. Each permit / licence holder was associated with a unique link so they were not contacted via phone if they had already completed the survey via another pathway.

Number of 1080 permit holders invited to participate **n=5,595**

Number of surveys returned **n=1,789**

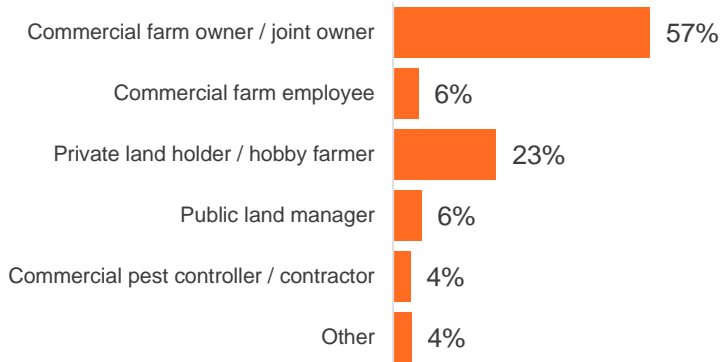
Final response rate



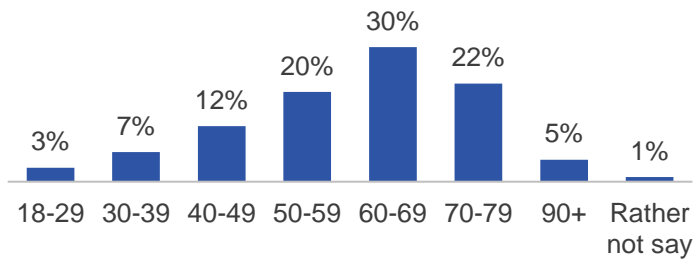
Who we spoke to

Victorian ACUP holders with 1080 and PAPP endorsements and vermin endorsed Commercial Operator Licence holders (n=1,789)

Land manager type

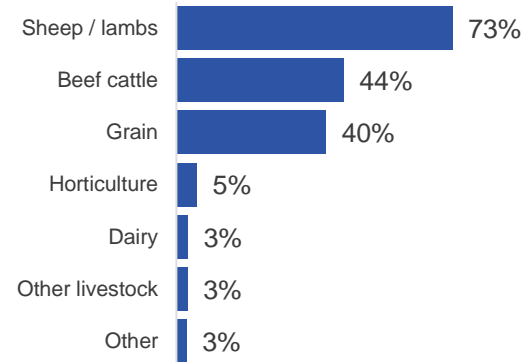


Age

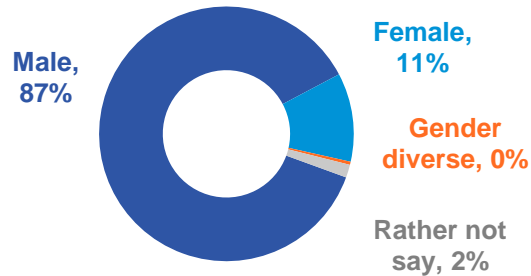


Main sector

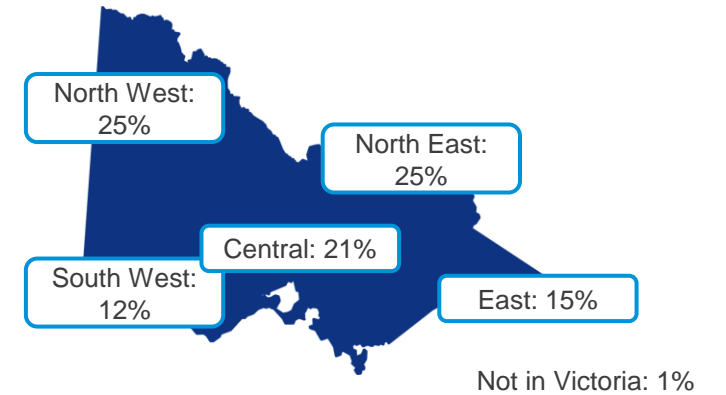
Asked only of commercial farm owners / employees (n=1,120)



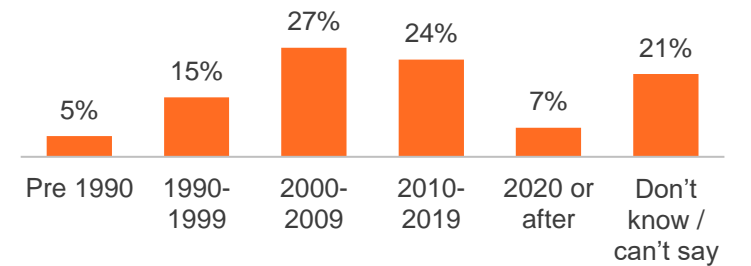
Gender



Location






Year 1080 permit obtained



Land managers in detail

Certain land manager types correlate with certain demographics. Those correlations are outlined on this slide. Throughout the report, where significant differences align with these correlations, we have not called them out. For example, if we note that commercial farm owners are more likely to agree to a certain question, we have not separately highlighted that individuals aged 60+ are also likely to agree, as this is simply the demographic of commercial farm owners.

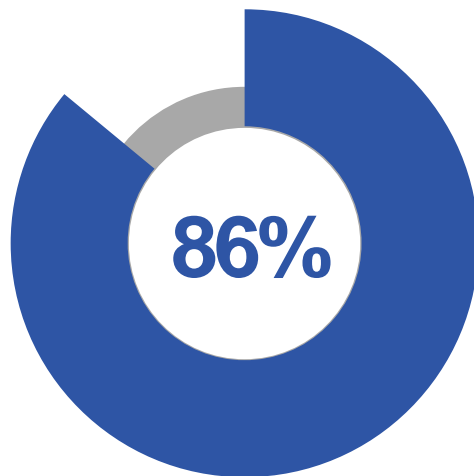
		Commercial farm owner (n=1,020)	Commercial farm employee (n=100)	Hobby farmer (n=408)	Public land manager (n=112)	Pest controller / contractor (n=68)
 Age		More likely to be aged 60+	More likely to be aged 18-39	More likely to be aged 70+	More likely to be aged 30-49	More likely to be aged 40-49
 Time of 1080 endorsement		More likely to have obtained their 1080 endorsement pre-2009	More likely to have obtained their 1080 endorsement 2010-2019	No skew	More likely to have obtained their 1080 endorsement 2010 or later	More likely to have obtained their 1080 endorsement 2020 or later
 Location		More likely to be located in North West Victoria	More likely to be located in North West Victoria	More likely to be located in Central or North East Victoria	More likely to be located in Central or Eastern Victoria	No skew

Findings from 1080 permit holders

Pests controlled and motivations

The majority (86%) of 1080 permit holders are actively controlling pest animals, with foxes and rabbits the most commonly controlled

Whether pest animals are actively controlled and what type



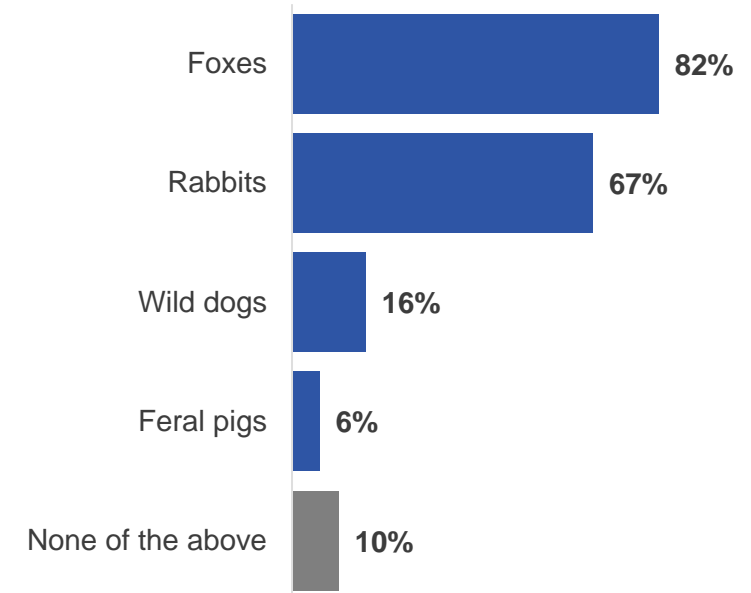
Actively manage pest animals

13% are not actively managing pest animals and 2% are not sure

Those who are more likely to actively control pest animals are:

- Commercial farm owners (92%); and
- Those on commercial farms with sheep (94%).

Pest animals controlled



Base: All respondents (n=1,781)

Q6 - Are any pest animals actively controlled on land under your management?

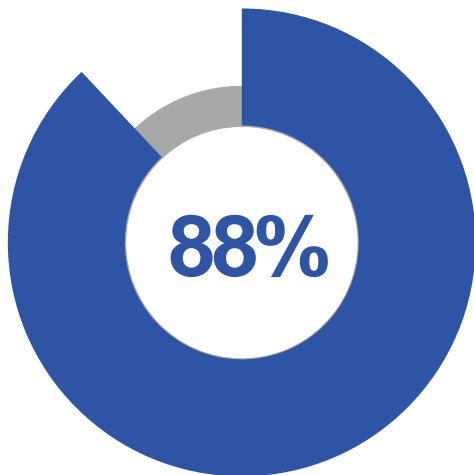
Base: All respondents (n=1,788)

Q7 - Which of the following pest animals are actively controlled on land under your management?

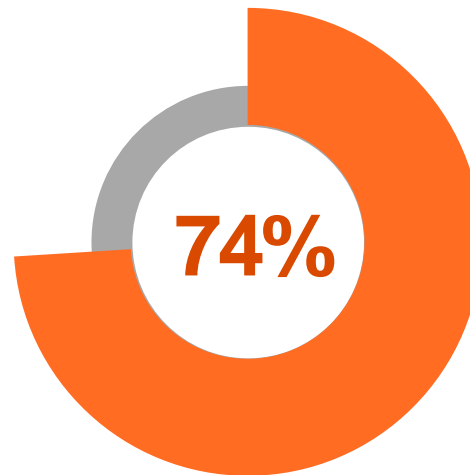
Of those who actively control pest animals, 88% do so to protect commercial interests and 74% to protect native flora / fauna

Motivators for actively controlling pest animals

Actively control pest animals to protect commercial interests



Actively control pest animals to protect native flora / fauna



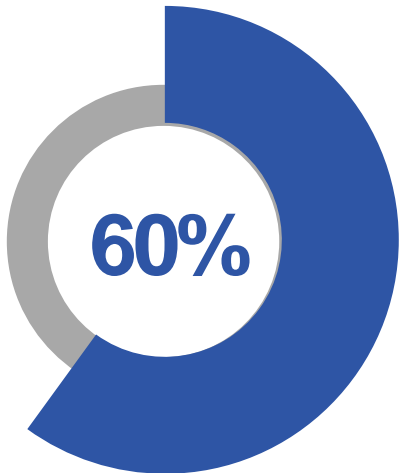
Of those who actively control pest animals, a quarter (28%) do so exclusively to protect commercial interests, and one in ten (14%) do so exclusively to protect native flora / fauna.

As explored on the following slide, while those who operate commercial farms have commercial interests to protect, most also have a very genuine connection to land and an intention to manage it in a way that conserves native flora and fauna.

Base: Those who actively control pest animals (n=1,523)
Q8 / Q22 / Q35 / Q48 - Why do you actively control rabbits / foxes / wild dogs / feral pigs on land under your management?

Three in five (60%) 1080 permit holders have used 1080 in the last 5 years; leaving two in five (40%) who have not

Use of 1080 by permit holders



Of 1080 permit holders have used 1080 in the last 5 years

40% have not used 1080 in the last 5 years

Those who are more likely to have used 1080 in the last 5 years are:

- *Public land managers (77%);*
- *Commercial farm owners (66%);*
- *Those on commercial farms with sheep (72%).*

Common reasons why land managers might have a 1080 permit / licence but not have used 1080 in the last 5 years:

- Retired or no longer working in farming, or has passed away.
- Enjoys shooting or allows access to their land for recreational shooting and this is sufficient to suppress pest animals.
- Part of a Landcare group that no longer uses 1080.
- Has been discouraged from using 1080 due to welfare concerns of target or non-target species, or due to concern from neighbours / community.
- Has been discouraged from using 1080 due to the 'red tape' involved – e.g. signage, notifying neighbours, storage and disposal protocols.

*Base: All respondents (n=1,789)
Q10 / Q24 / Q37 / Q50 - In the past five years, which of the following methods have been used to control rabbits / foxes / wild dogs / feral pigs on land under your management?*

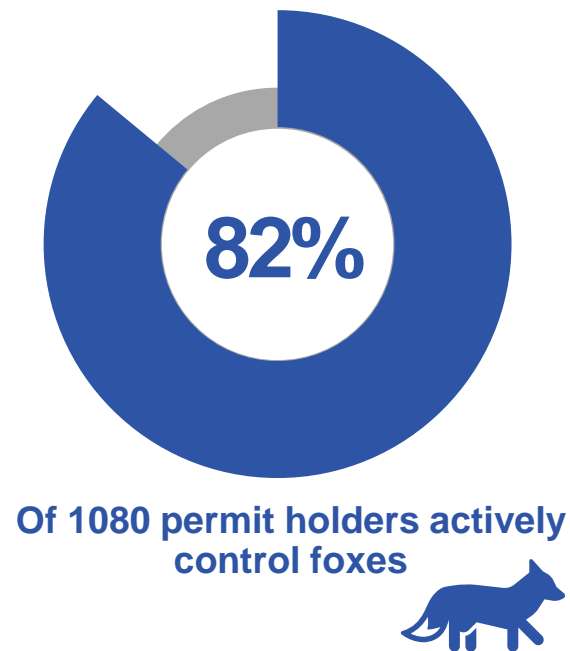
Management of foxes





Four in five (82%) 1080 permit holders actively control foxes

Whether foxes are actively controlled



% who actively control foxes by land manager type



Those who are more likely to actively control foxes are:

- Commercial farm owners (89%); and
- Those on commercial farms with sheep (94%).

Those who are less likely to actively control foxes are:

- Hobby farmers (74%); and
- Pest controller / contractors (69%).

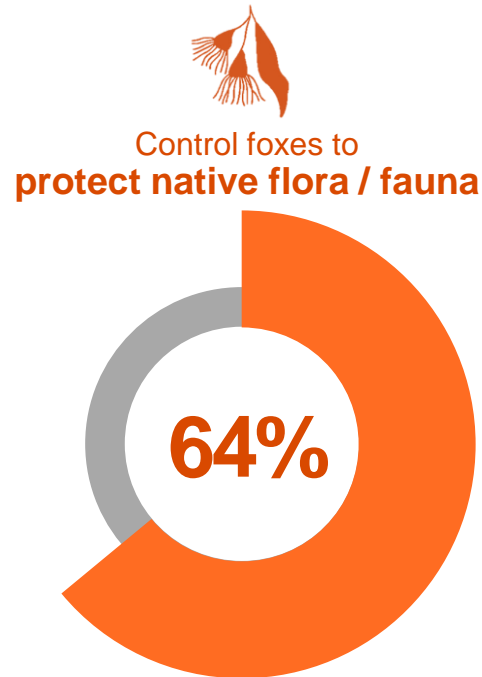
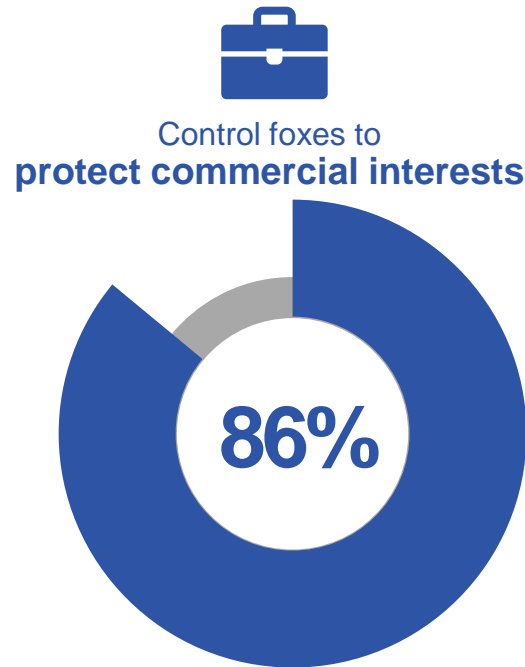
Base: All respondents (n=1,789)

Q7 - Which of the following pest animals are actively controlled on land under your management?



Of those who actively control foxes, 86% do so to protect commercial interests and 64% to protect native flora / fauna

Why 1080 permit holders actively control foxes



Those who are more likely to actively control foxes for commercial interests are: commercial farm owners (96%) or employees (99%), and specifically those on commercial farms with sheep (98%).

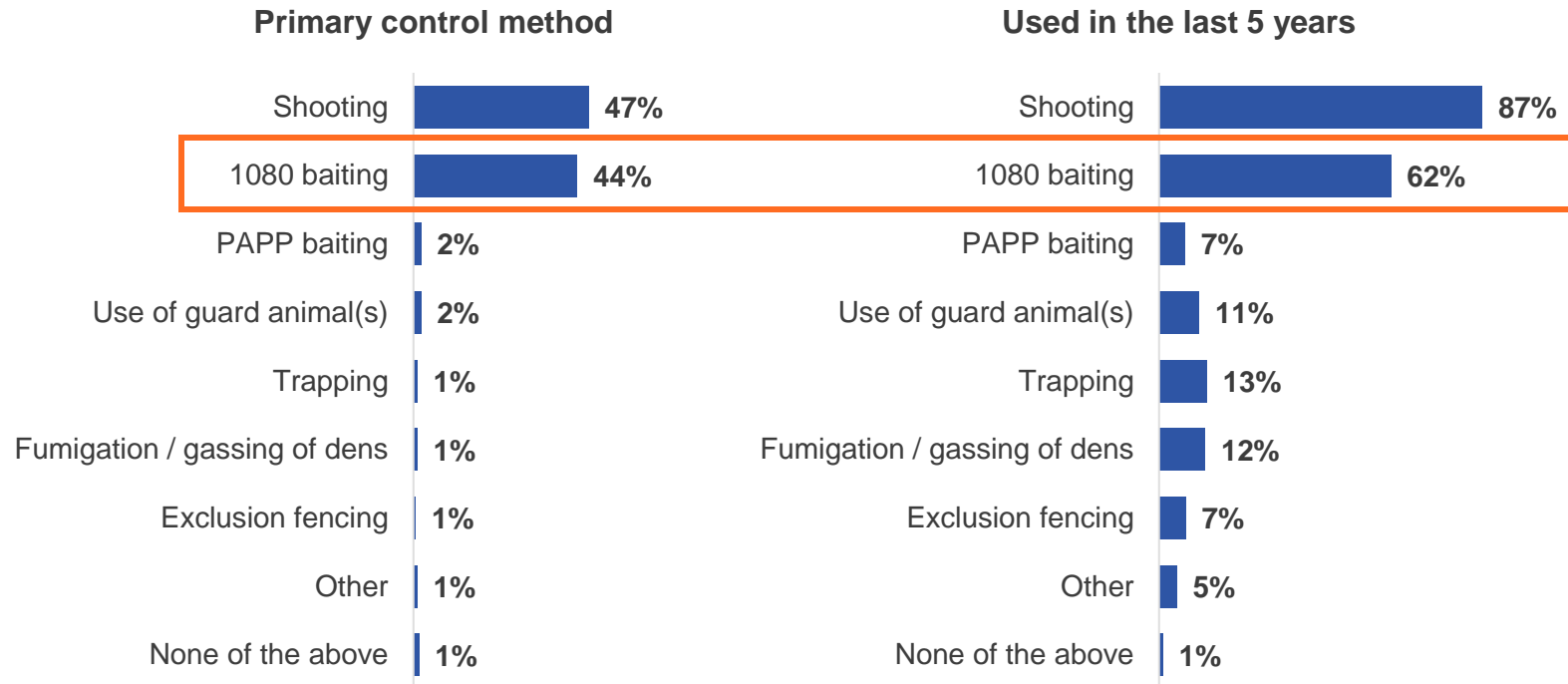
Protecting native flora / fauna is more likely to be a priority for: public land managers (95%) and pest controller / contractors (85%).

Base: Those who actively control foxes (n=1,461)
Q22 - Why do you actively control foxes on land under your management?



Of those who actively control foxes, 1080 has been used by two thirds (62%) of permit holders in the last 5 years

Methods for controlling foxes



1080 is more likely to be the primary control method for:

- Public land managers (66%); and
- Those on commercial farms with sheep (48%).

Base: Those who actively control foxes (n=1,402)
 Q25 - Which one of the following do you consider the primary control method (i.e. the method which is most relied on to control fox populations on land under your management)?

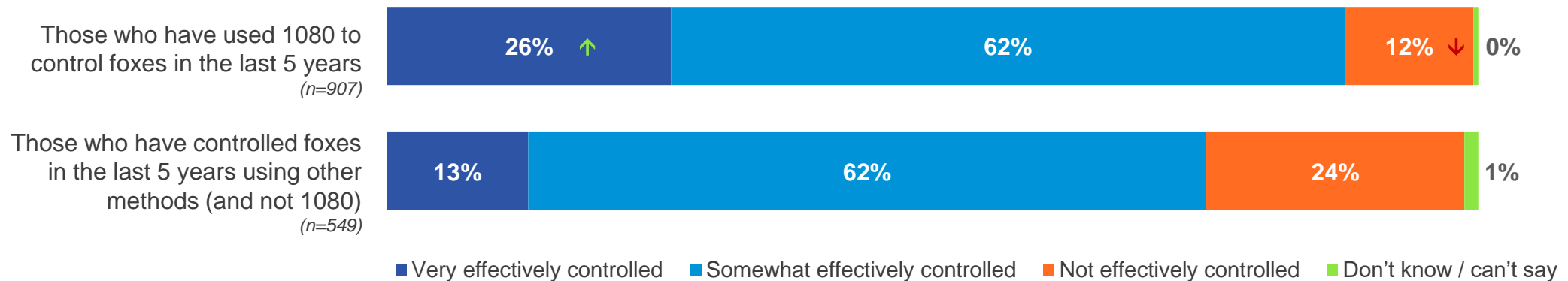
Base: Those who actively control foxes (n=1,461)
 Q24 - In the past five years, which of the following methods have been used to control foxes on land under your management?



Those who have used 1080 to control foxes in the last 5 years are more likely to feel that foxes are very effectively controlled

Effectiveness of controlling foxes

To what extent are foxes effectively controlled on land under your management?



Base: Those who actively control foxes (n=1,456)

Q23 - To what extent do you believe that foxes are effectively controlled on land under your management?

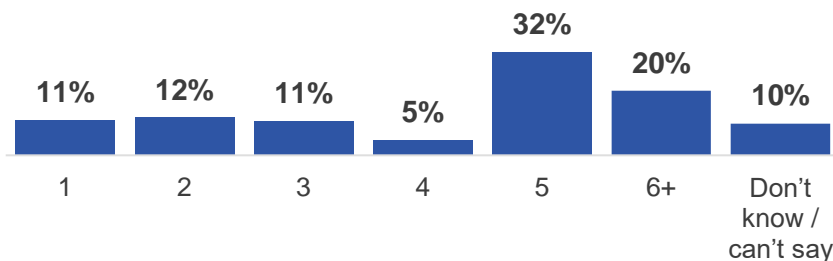
↑↓ Denotes a significant difference to those who haven't used 1080 in the last 5 years

The questions on the following slides were asked only of people who had used 1080 in the last 5 years to control foxes

Of those who have used 1080 in the last 5 years, ground baiting (96%) is most common

Use of 1080 to control foxes – Number of baiting programs and bait method

Number of 1080 baiting programs in the past 5 years to control foxes

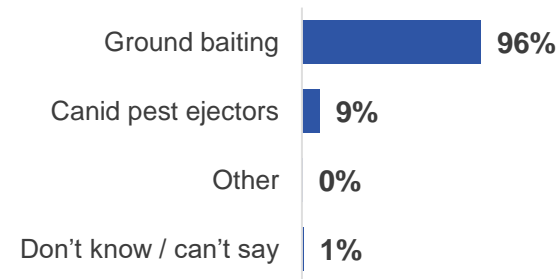


Commercial farm owners and those on commercial sheep farms are more likely to use 1080 annually (39% and 41% respectively).

Pest controllers / contractors are more likely to use 1080 to control foxes more than annually (40% selected 6+), as are those based in Eastern Victoria (27%).

Base: Those who have used 1080 in the last 5 years to control foxes (n=871)
Q26 - How many fox baiting programs involving use of 1080 have been used to control foxes in the past 5 years?

Baiting methods used



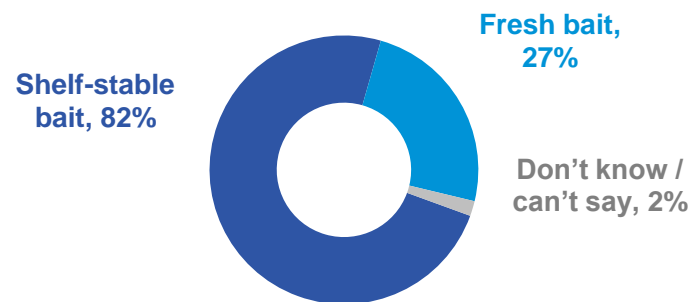
Canid pest ejectors are more likely to be used by public land managers (30%), pest controller / contractors (40%) and those in North East Victoria (15%).

Base: Those who have used 1080 in the last 5 years to control foxes (n=909)
Q29 - Which of the following 1080 baiting methods are used to control foxes on land under your management?

Shelf-stable baits are most popular (82%) and public land managers use significantly higher volumes

Use of 1080 to control foxes – Type of baits and quantity

Type of baits used

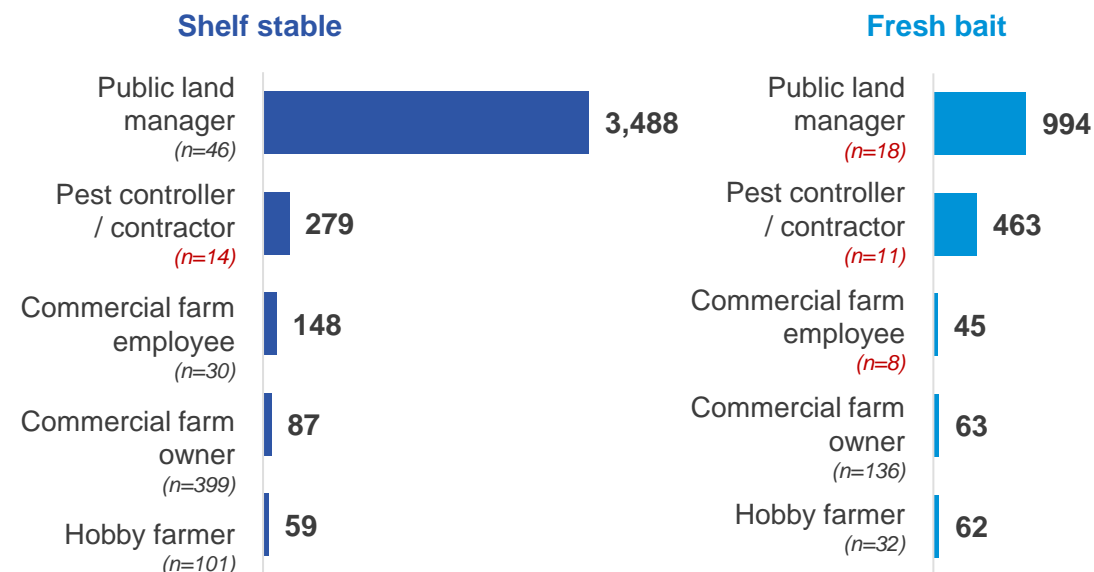


Shelf-stable baits are more likely to be used by those working on commercial farms with livestock (84%, includes all livestock operations), and those in Central (92%), North East (89%) and South West Victoria (93%).

Pest controllers / contractors are more likely to use fresh baits (46%), as are those working on commercial grain farms (34%) and those in Eastern (46%) or North West Victoria (39%).

Base: Those who have used 1080 in the last 5 years to control foxes (n=900)
Q27 - Are the 1080 baits used to control foxes fresh or shelf-stable?

Average individual baits used per year

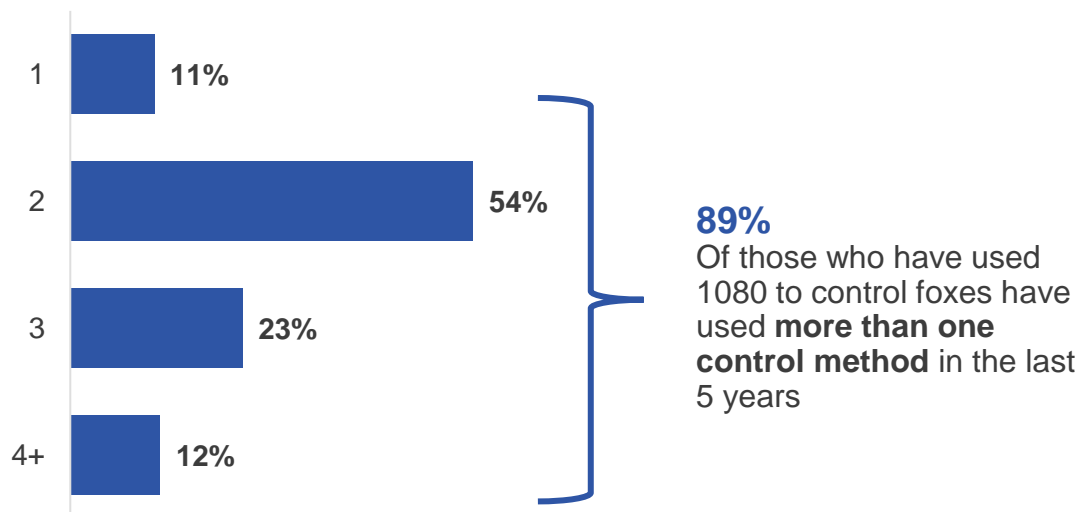


Base: Those who have used 1080 in the last 5 years to control foxes (bases in chart)
Q28 - In a typical year, approximately how many individual 1080 baits are used to control foxes on land under your management?
Note small sample sizes (<30) should be approached with caution; data provides directional insights only.

The majority (89%) of those who have used 1080 to control foxes use it alongside other control methods

Number of methods used to control foxes

Number of methods used in the last 5 years to control foxes



Those who have used more than one control method in the last 5 years are more likely to be:

- Commercial farm owners (92%); and
- Those on commercial sheep farms (94%).

In contrast, public land managers (31%) and hobby farmers (16%) are more likely to use 1080 as the only control method for foxes.

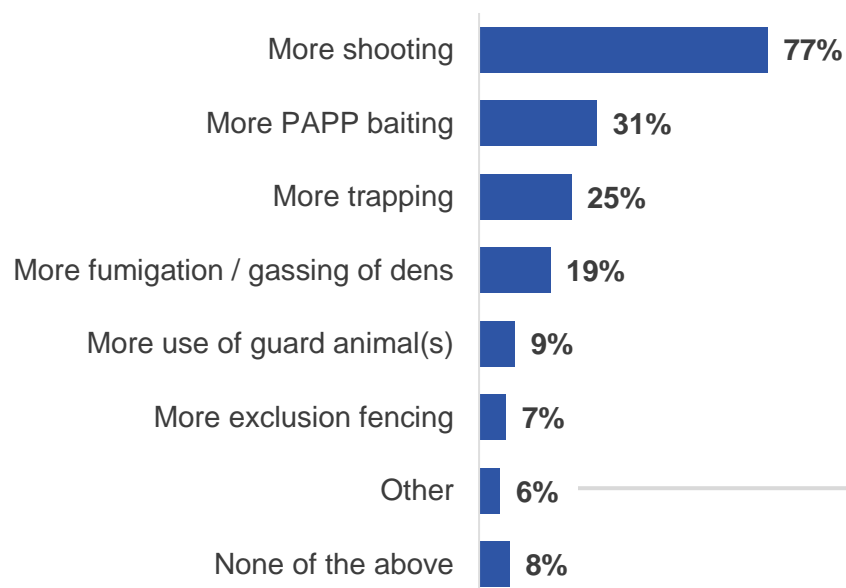
Base: Those who have used 1080 in the last 5 years to control foxes (n=909)

Q24 - In the past five years, which of the following methods have been used to control foxes on land under your management?

If 1080 was no longer available, three quarters (77%) would increase shooting efforts to control foxes

Alternative if 1080 was no longer available

Control methods land managers would use more of (or start doing) to control foxes if 1080 was no longer available



n=53 responses were left under 'Other'. Most were commercial or hobby farmers and many said they would retire from farming, e.g. 'Change enterprise', 'Stop farming sheep', 'Sell the sheep', 'Give up farming', 'May have to leave the industry'.

Commercial farm owners are more likely to replace 1080 with more shooting (82%), commercial farm employees and hobby farmers are more likely to replace 1080 with more guard animals (20% and 16%, respectively), public land managers are more likely to replace 1080 with PAPP (54%) or nothing (14% selected 'None of the above') and pest controllers / contractors are more likely to select PAPP (66%), trapping (51%) and fumigation (34%).

Note that 8% indicate they wouldn't take any other action if 1080 was no longer available.

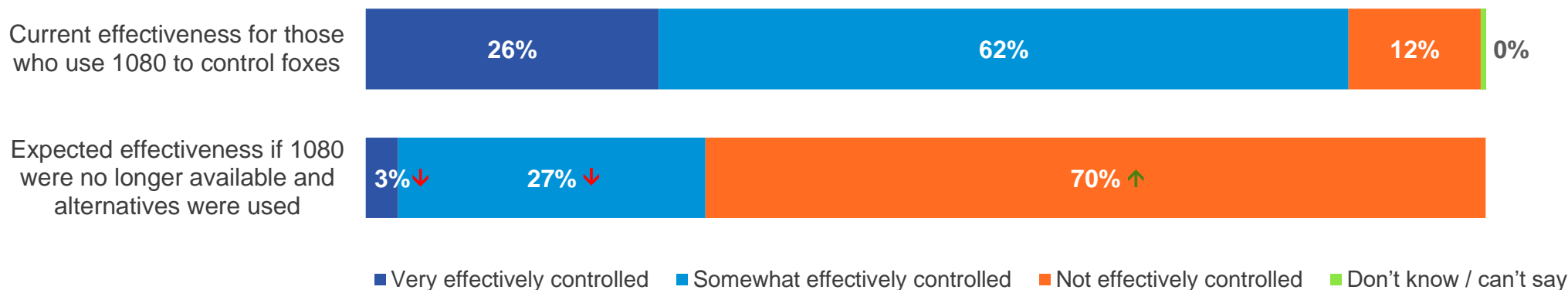
Base: Those who have used 1080 in the last 5 years to control foxes (n=909)

Q31 - If 1080 was no longer available for use, which of the following are you likely to do MORE of (or start doing) to control foxes on land under your management?

Permit holders anticipate the effectiveness of fox control efforts would be greatly reduced if 1080 was no longer available

Effectiveness of controlling foxes – Current effectiveness and expected effectiveness if 1080 was no longer available

To what extent are foxes effectively controlled on land under your management?



Regarding the effectiveness of alternatives, commercial farm owners are more likely to expect alternatives to not effectively control foxes (74%), public land managers are likely to select 'Somewhat effectively controlled' (39%) and pest controllers / contractors are more likely to select 'Very effectively controlled' (11%).

Base: Those who have used 1080 in the last 5 years to control foxes (n=900)

Q23 - To what extent do you believe that foxes are effectively controlled on land under your management?

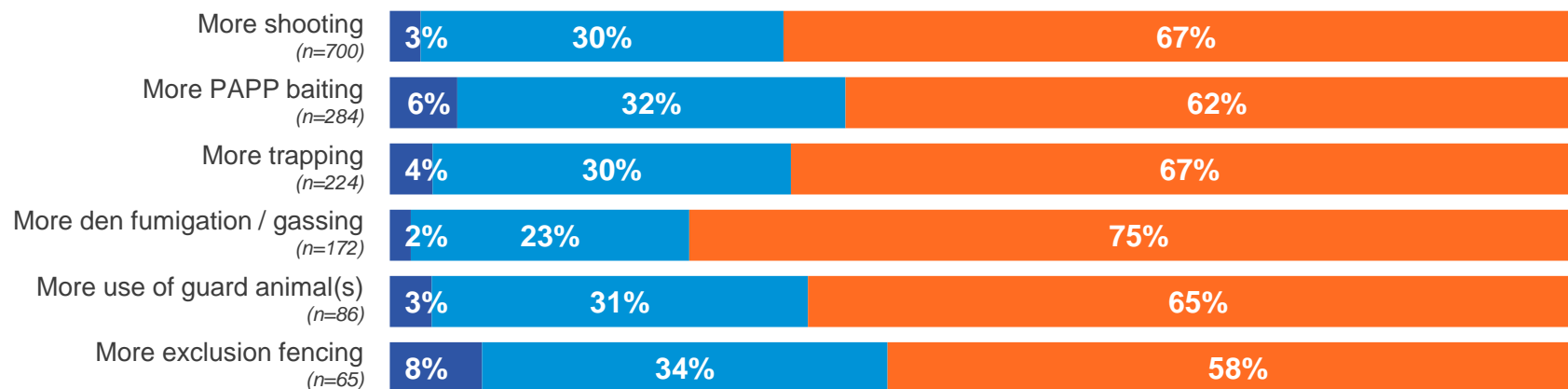
Q32 - If 1080 was no longer available and you had to use other methods, to what extent do you believe that foxes would be effectively controlled on land under your management?

↑ ↓ Denotes a significant difference to current effectiveness

While shooting and PAPP are the most common alternatives, roughly two thirds feel they would not effectively control foxes

Effectiveness of controlling foxes

Alternative control methods by Expected effectiveness



■ Very effectively controlled ■ Somewhat effectively controlled ■ Not effectively controlled

Base: Those who have used 1080 in the last 5 years to control foxes (bases in chart)

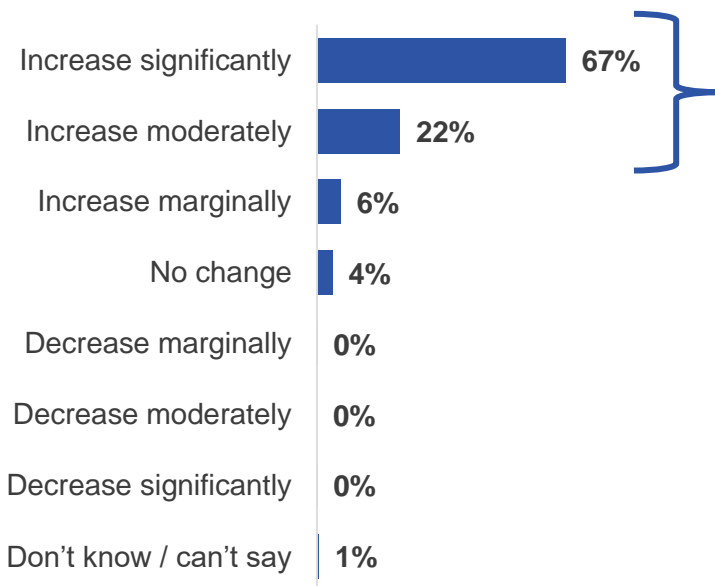
Q31 - If 1080 was no longer available for use, which of the following are you likely to do MORE of (or start doing) to control foxes on land under your management?

Q32 - If 1080 was no longer available and you had to use other methods, to what extent do you believe that foxes would be effectively controlled on land under your management?

The majority believe the number of foxes would increase significantly or moderately if 1080 was no longer available

Fox numbers if 1080 was no longer available

What would happen to the number of foxes if an alternative was used instead of 1080? Fox numbers would...



89%

Believe the number of foxes would increase significantly or moderately if 1080 wasn't available and alternative methods were used

Those who are more likely to believe the number of foxes would increase significantly or moderately are commercial farm owners (92%).

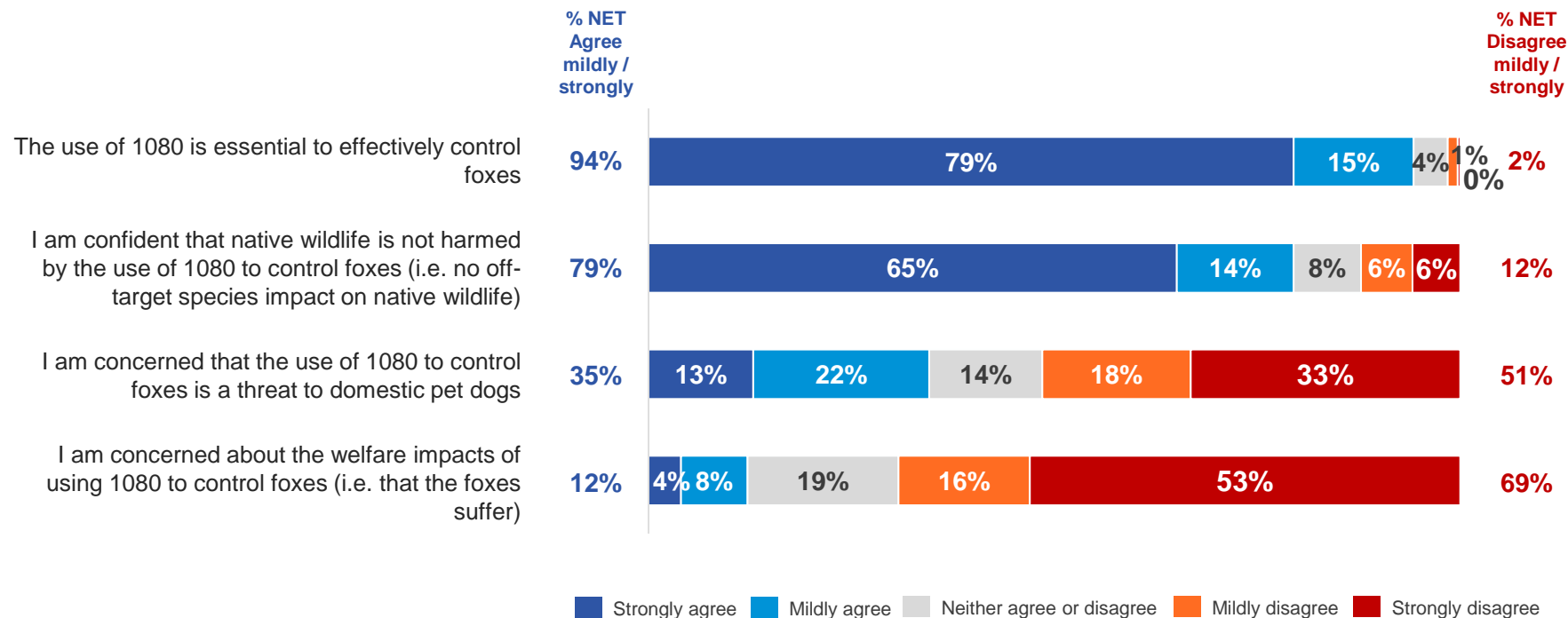
Public land managers are less likely to believe the number of foxes would increase significantly or moderately (69%).

Base: Those who use 1080 to actively control foxes (n=901)

Q33 - What do you believe would happen to the number of foxes if 1080 could no longer be accessed and you had to use other methods to control populations?

Vast majority (94%) agree that the use of 1080 is essential to effectively controlling foxes

Attitudes towards the use of 1080 baiting to control foxes



Commercial farm owners are more likely to agree that 'I am confident that native wildlife is not harmed by the use of 1080 to control foxes' (83%).

Commercial farm employees are more likely to agree that 'I am concerned that the use of 1080 to control foxes is a threat to domestic pet dogs' (51%).

Public land managers are less likely to agree that 'The use of 1080 is essential to effectively control foxes' (89%) and that 'I am confident that native wildlife is not harmed' (66%). They are more likely to agree that 'I am concerned about the welfare impacts of using 1080 to control foxes' (31%).

Base: Those who use 1080 to actively control foxes (n=902 statement 1, n=882 statement 2, n=876 statement 3, n=877 statement 4)
Q30 - Agreement with the following statements about the use of 1080 baiting to control foxes?

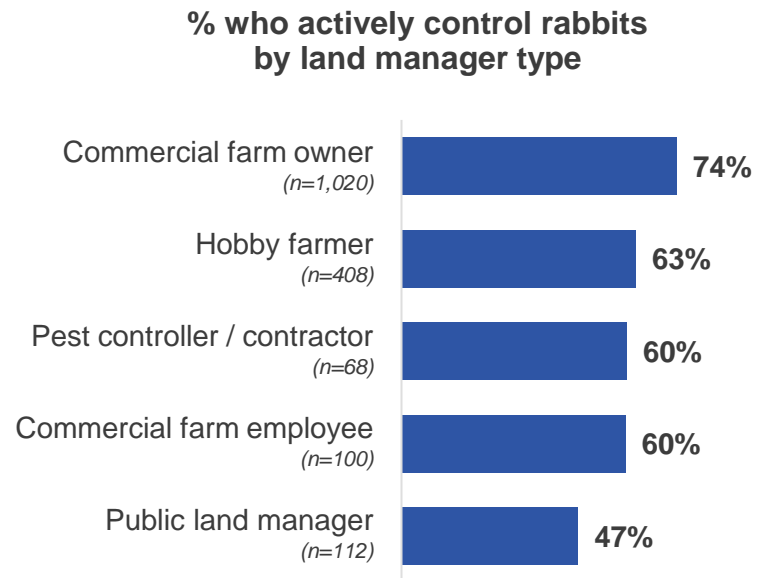
Management of rabbits





Two thirds (67%) of 1080 permit holders actively control rabbits

Whether rabbits are actively controlled



Those who are more likely to actively control rabbits are:

- Commercial farm owners (74%); and
- Those on commercial farms with grain (82%).

Those who are less likely to actively control rabbits are:

- Public land managers (47%); and
- Hobby farmers (63%).

Base: All respondents (n=1,789)
Q7 - Which of the following pest animals are actively controlled on land under your management?

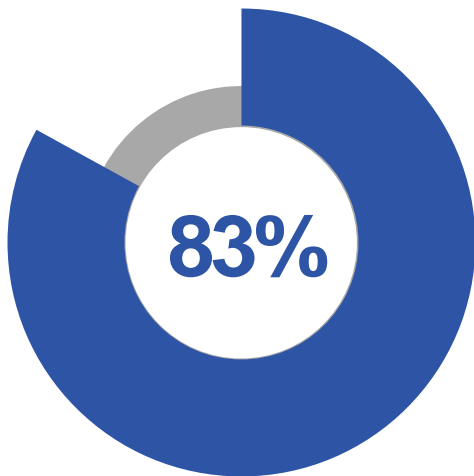


Of those who actively control rabbits, 83% do so to protect commercial interests and 69% to protect native flora / fauna

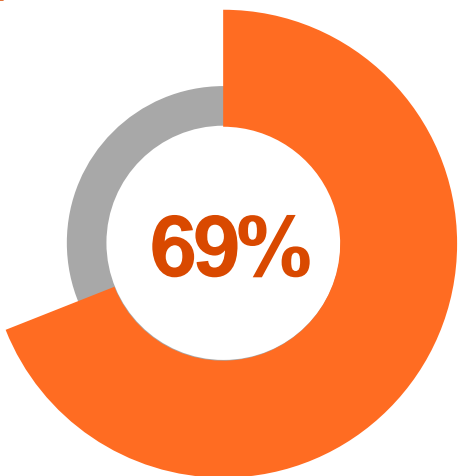
Why 1080 permit holders actively control rabbits



Control rabbits to protect commercial interests



Control rabbits to protect native flora / fauna



Those who are more likely to actively control rabbits for commercial interests are:

- Commercial farm owners (95%) or employees (95%);
- Those on commercial grain farms (97%).

Protecting native flora / fauna is more likely to be a priority for:

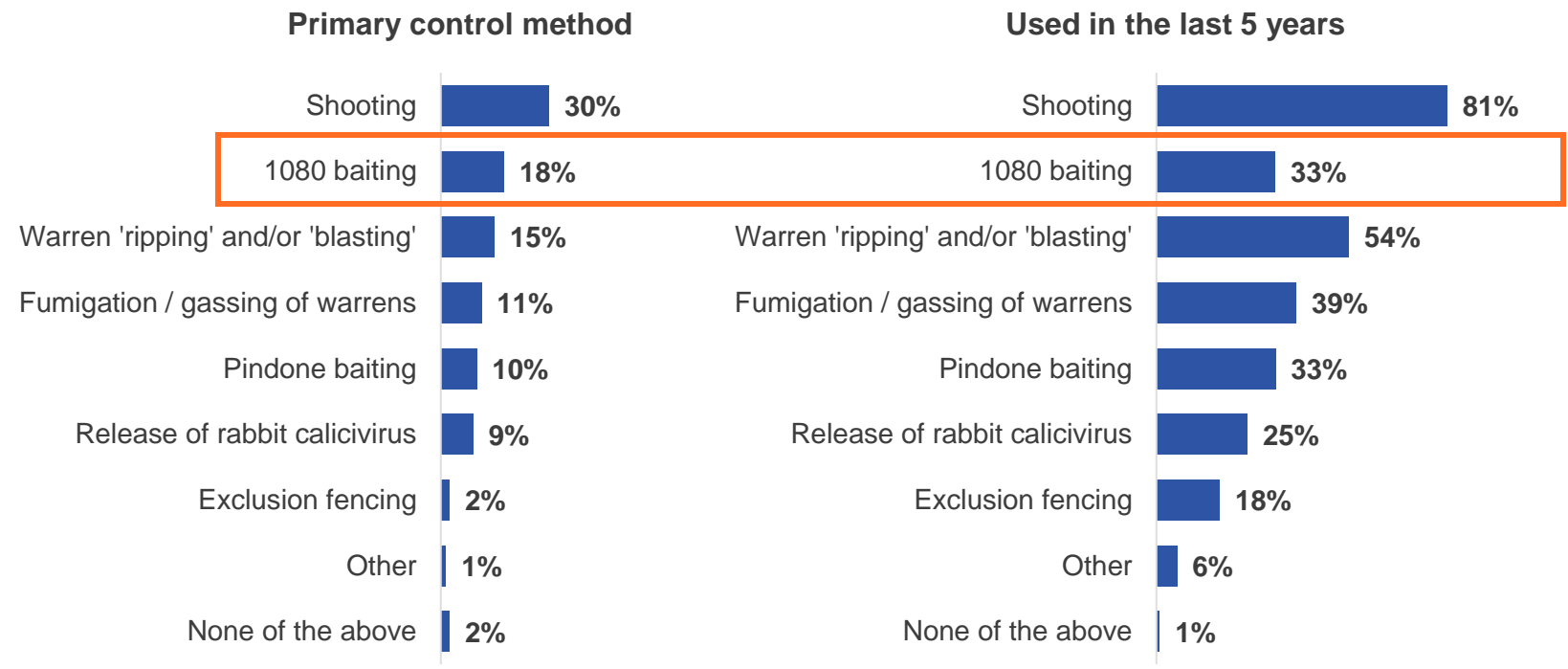
- Public land managers (94%);
- Pest controller / contractors (90%); and
- Those on farms with livestock (68%).

Base: Those who actively control rabbits (n=1,199)
 Q8 - Why do you actively control rabbits on land under your management?



Of those who actively control rabbits, 1080 has been used by one third (33%) of permit holders in the last 5 years

Methods for controlling rabbits



1080 is more likely to be the primary control method for:

- Commercial farm owners (21%); and
- Those on commercial grain farms (31%).

Base: Those who actively control rabbits (n=1,129)
 Q11 - Which one of the following do you consider the primary control method (i.e. the method which is most relied on to control rabbit populations on land under your management)?

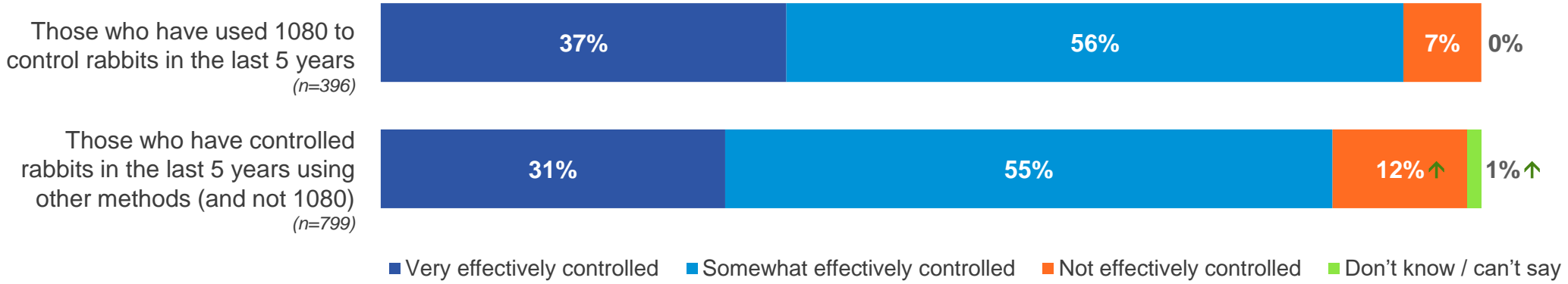
Base: Those who actively control rabbits (n=1,199)
 Q10 - In the past five years, which of the following methods have been used to control rabbits on land under your management?



Those who haven't used 1080 to control rabbits in the last 5 years are more likely to feel that rabbits are not effectively controlled

Effectiveness of controlling rabbits

To what extent are rabbits effectively controlled on land under your management?

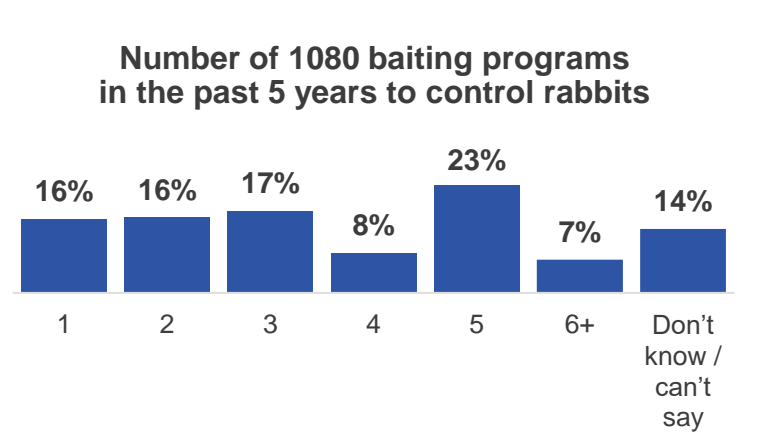


Base: Those who actively control rabbits (n=1,195)
 Q9 - To what extent do you believe that rabbits are effectively controlled on land under your management?
 ↑↓ Denotes a significant difference to those who have used 1080 in the last 5 years

The questions on the following slides were asked only of people who had used 1080 in the last 5 years to control rabbits

Of those who have used 1080 in the last 5 years, programs led by individuals (59%) and community (53%) are both common

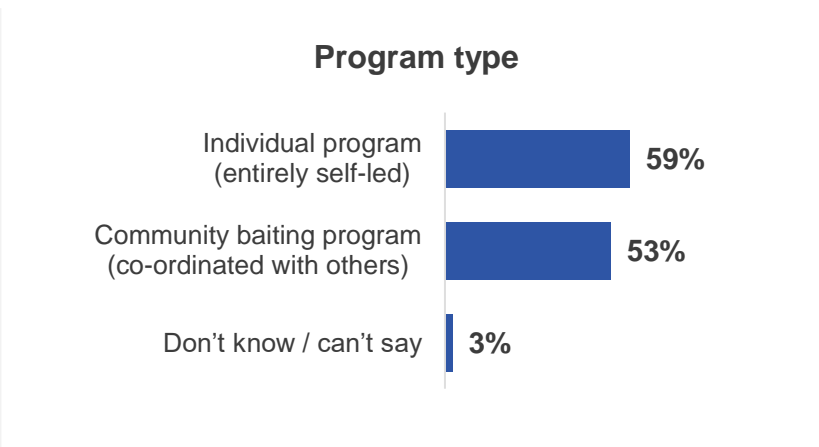
Use of 1080 to control rabbits – Number of baiting programs, program type and bait method



Those who obtained their 1080 permit pre-1999 are more likely to bait annually (29%).

Sample sizes for land manager types and region were too small to conduct significance testing for this question.

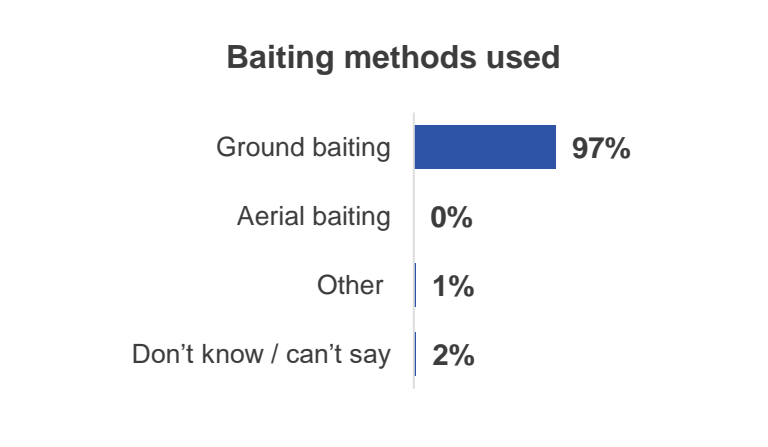
Base: Those who have used 1080 in the last 5 years to control rabbits (n=385). Q12 - How many rabbit baiting programs involving use of 1080 have been used to control rabbits in the past 5 years?



Those on commercial beef farms are more likely to have conducted individual programs (67%) while those on grain farms are more likely to have conducted community programs (67%).

Sample sizes for land manager types and region were too small to conduct significance testing for this question.

Base: Those who have used 1080 in the last 5 years to control rabbits (n=398). Q15 - Which of the following types of baiting programs involving 1080 have occurred to control rabbits in the past five years?



No significant differences for this question by commercial farm type, age and time of obtaining 1080 permit.

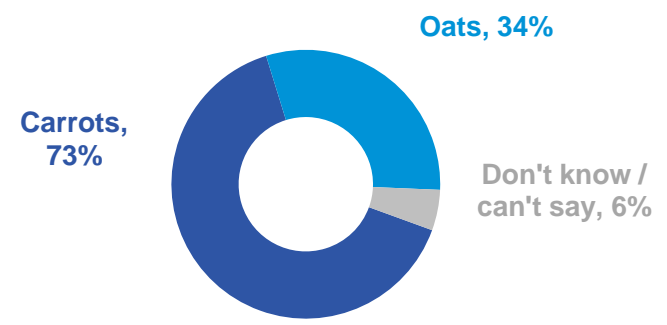
Sample sizes for land manager types and region were too small to conduct significance testing for this question.

Base: Those who have used 1080 in the last 5 years to control rabbits (n=398). Q16 - Which of the following 1080 baiting methods are used to control rabbits on land under your management?

Carrot baits are most popular (73%) and most often used by commercial farm owners

Use of 1080 to control rabbits – Type of baits and quantity

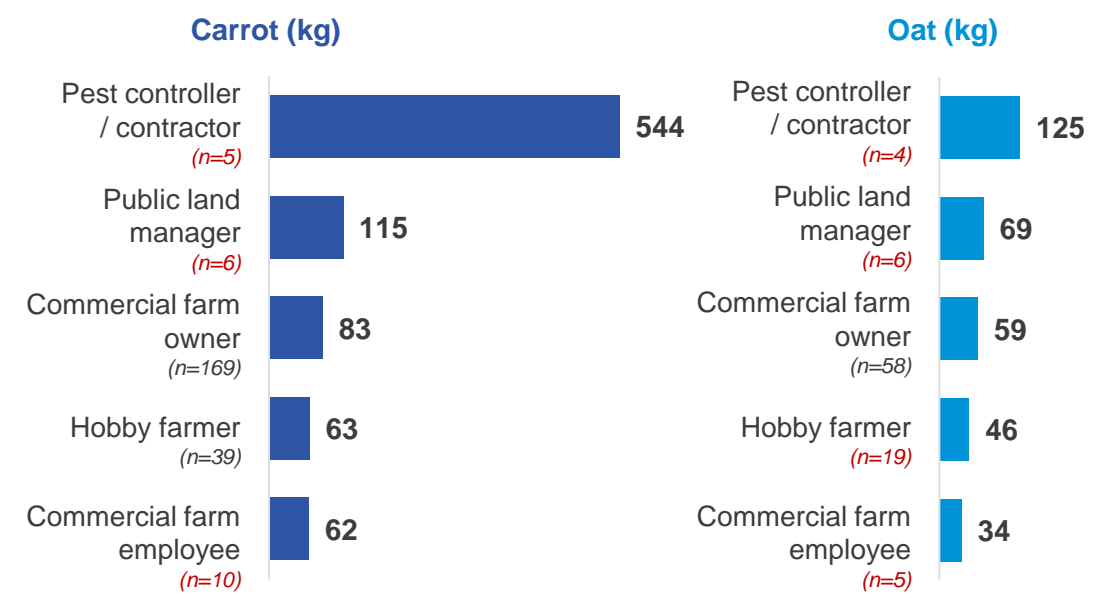
Type of baits used



Those on commercial grain farms are more likely to use carrot baits (82%), while those on commercial beef farms are more likely to use oats (38%).

Sample sizes for land manager types and region were too small to conduct significance testing for this question.

Average kilograms of baits used per year

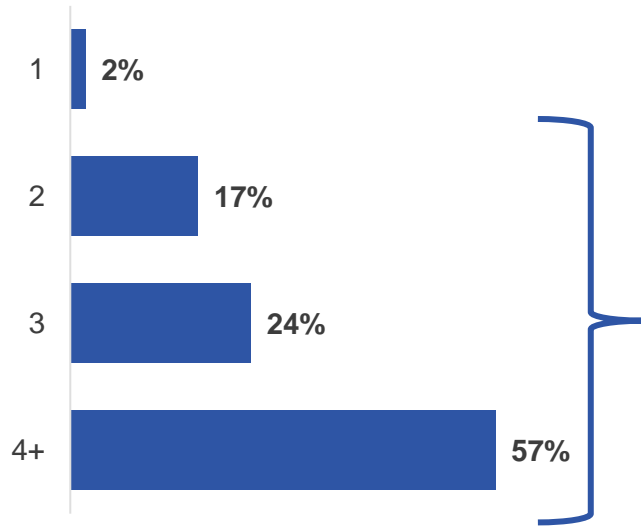


Base: Those who have used 1080 in the last 5 years to control rabbits (bases in chart)
 Q14 - In a typical year, approximately what total volume of each type of 1080 bait is used to control rabbits on land under your management?
 Note small sample sizes (<30) should be approached with caution; data provides directional insights only.

The vast majority (98%) of those who have used 1080 to control rabbits use it alongside other control methods

Number of methods used to control rabbits

Number of methods used in the last 5 years to control rabbits



98%
Of those who have used 1080 to control rabbits had used **more than one control method** in the last 5 years

Those aged 50+ years are more likely to use 4+ methods to control rabbits (61%).

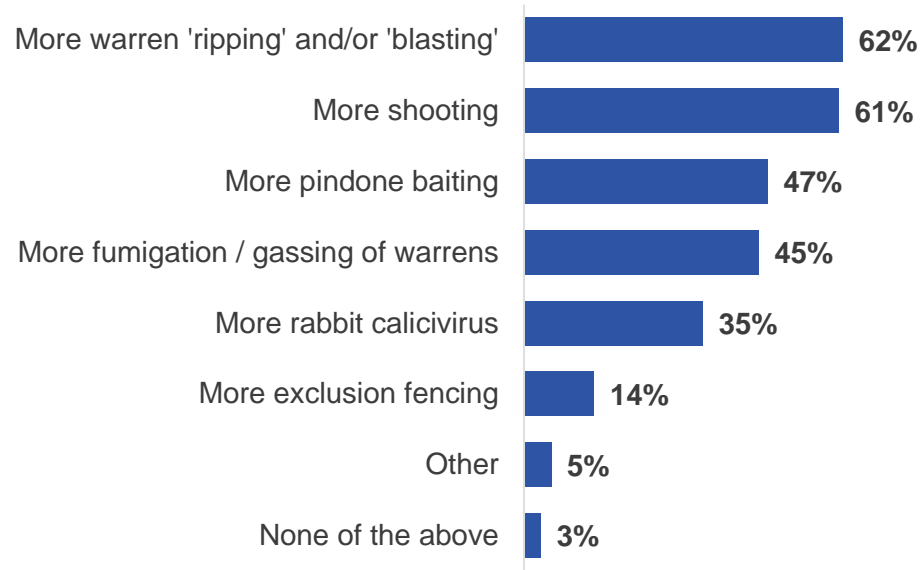
Sample sizes for land manager types and region were too small to conduct significance testing for this question.

Base: Those who have used 1080 in the last 5 years to control rabbits (n=398)
Q10 - In the past five years, which of the following methods have been used to control rabbits on land under your management?

If 1080 was no longer available, two thirds would increase warren 'ripping' (62%) and shooting (61%) efforts to control rabbits

Alternative if 1080 was no longer available

Control methods land managers would use more of (or start doing) to control rabbits if 1080 was no longer available



Those aged 50+ are more likely to anticipate they'd conduct more fumigation / gassing (49%) and more release of rabbit calicivirus (38%).

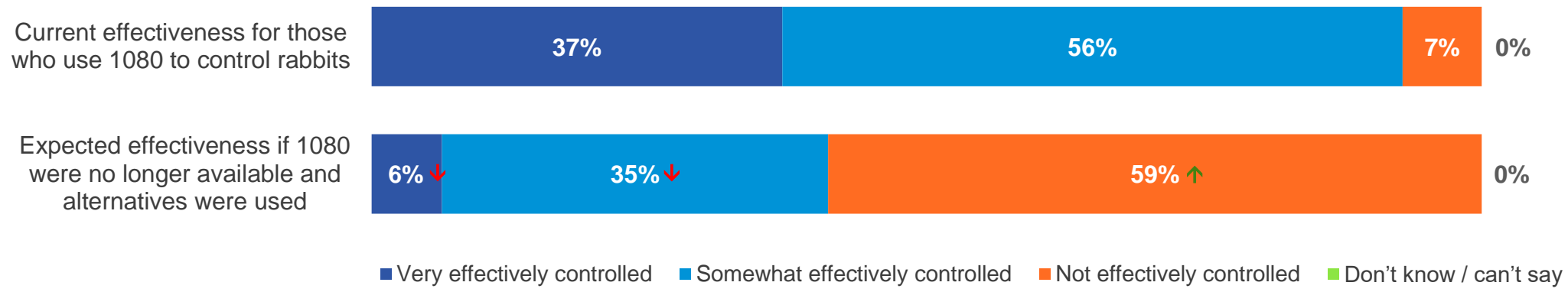
Sample sizes for land manager types and region were too small to conduct significance testing for this question.

Base: Those who have used 1080 in the last 5 years to control rabbits (n=398)
 Q18 - If 1080 was no longer available for use, which of the following are you likely to do MORE of (or start doing) to control rabbits on land under your management?

Permit holders anticipate the effectiveness of rabbit control efforts would be greatly reduced if 1080 was no longer available

Effectiveness of controlling rabbits – Current effectiveness and expected effectiveness if 1080 was no longer available

To what extent are rabbits effectively controlled on land under your management?

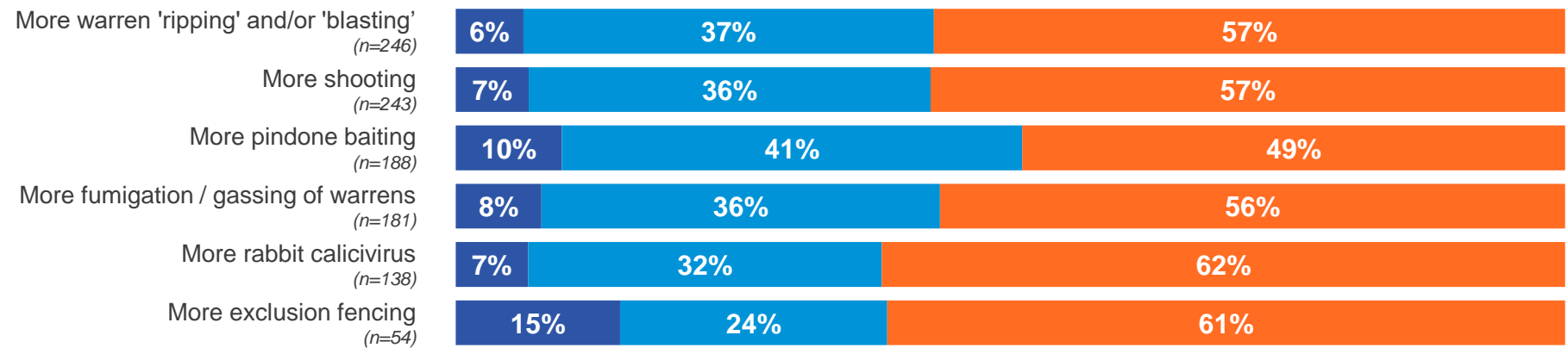


Base: Those who have used 1080 in the last 5 years to control rabbits (n=392)
 Q9 - To what extent do you believe that rabbits are effectively controlled on land under your management?
 Q19 - If 1080 was no longer available and you had to use other methods, to what extent do you believe that rabbits would be effectively controlled on land under your management?
 ↑↓ Denotes a significant difference to current effectiveness

Ripping or shooting are most likely replacements, but are not perceived to match the current effectiveness of 1080

Effectiveness of controlling rabbits

Alternative control methods by Expected effectiveness



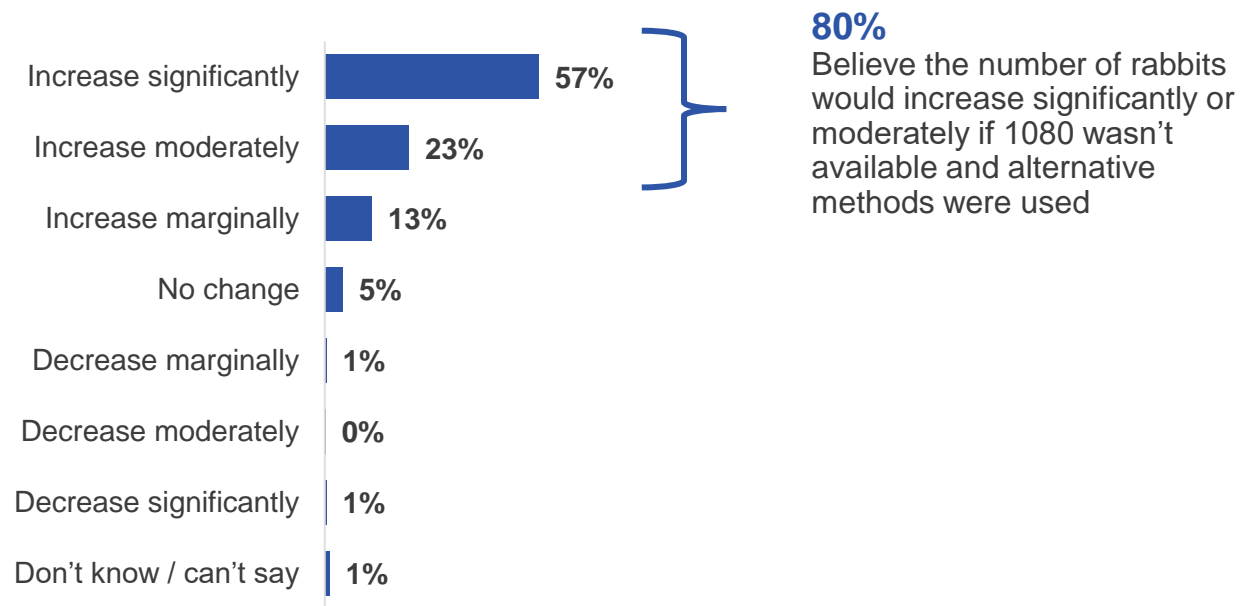
■ Very effectively controlled
 ■ Somewhat effectively controlled
 ■ Not effectively controlled

Base: Those who have used 1080 in the last 5 years to control rabbits (n=394)
 Q18 - If 1080 was no longer available for use, which of the following are you likely to do MORE of (or start doing) to control rabbits on land under your management?
 Q19 - If 1080 was no longer available and you had to use other methods, to what extent do you believe that rabbits would be effectively controlled on land under your management?

The majority believe the number of rabbits would increase significantly or moderately if 1080 was no longer available

Rabbit numbers if 1080 was no longer available

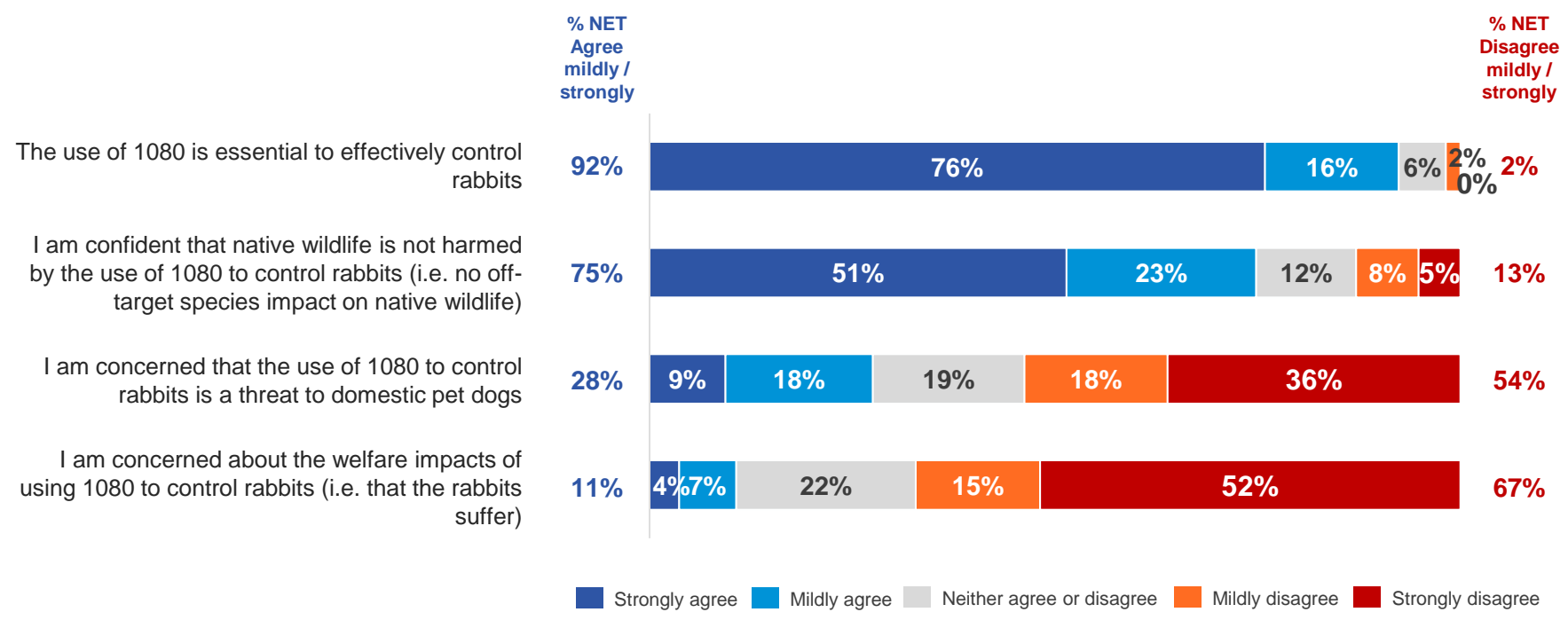
What would happen to the number of rabbits if an alternative was used instead of 1080? Rabbit numbers would...



Base: Those who use 1080 to actively control rabbits (n=394)
Q20 - What do you believe would happen to the number of rabbits if 1080 could no longer be accessed and you had to use other methods to control populations?

Vast majority (92%) agree that the use of 1080 is essential to effectively controlling rabbits

Attitudes towards the use of 1080 baiting to control rabbits



Those on commercial grain farms are more likely to agree that 'The use of 1080 is essential to effectively control rabbits' (97%) and 'I am confident that native wildlife is not harmed by the use of 1080 to control rabbits' (82%).

Sample sizes for land manager types and region were too small to conduct significance testing for this question.

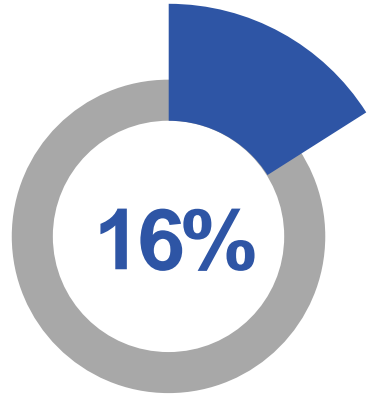
Base: Those who use 1080 to actively control rabbits (n=394 statement 1, n=389 statement 2, n=385 statement 3, n=384 statement 4)
 Q17 - Agreement with the following statements about the use of 1080 baiting to control rabbits?

Management of wild dogs



Around one in six (16%) 1080 permit holders actively control wild dogs

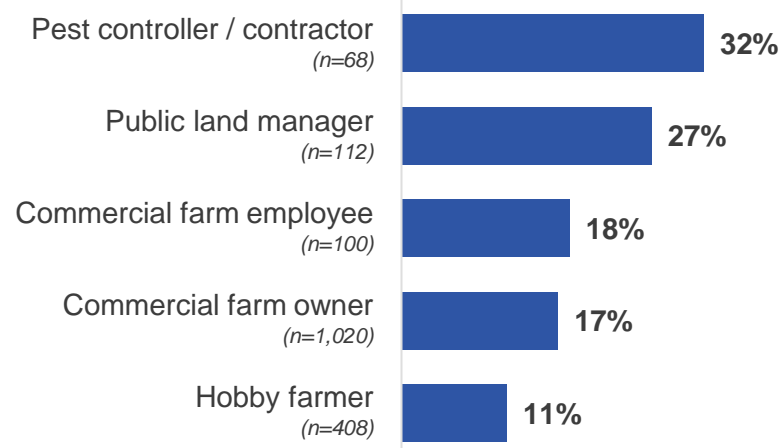
Whether wild dogs are actively controlled



Of 1080 permit holders actively control wild dogs



% who actively control wild dogs by land manager type



Those who are more likely to actively control wild dogs are:

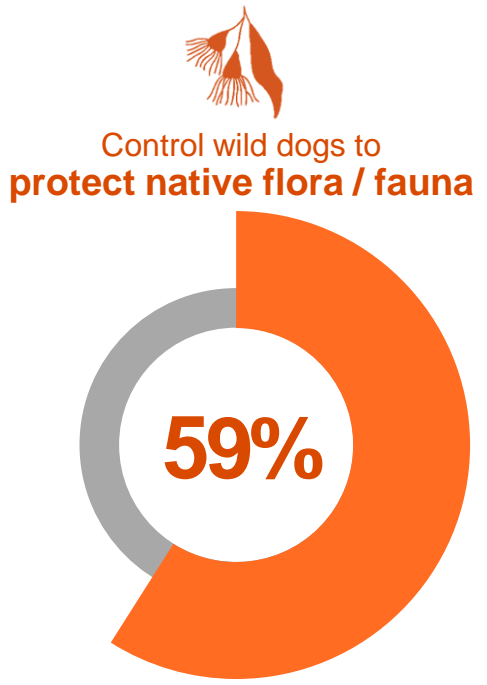
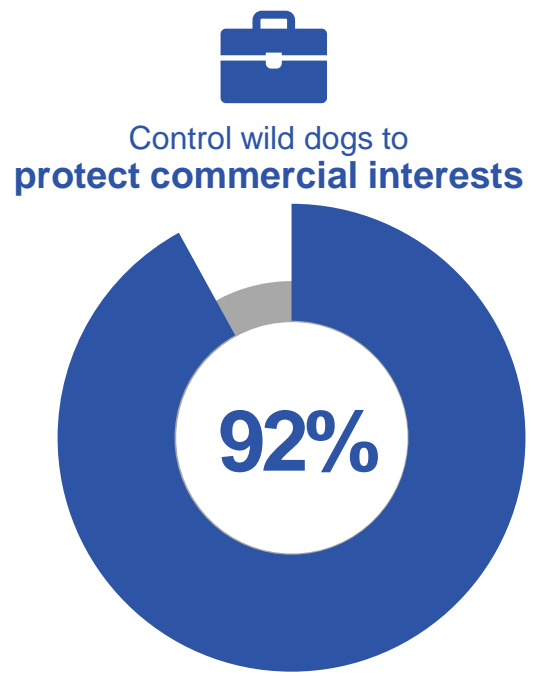
- Pest controller / contractors (32%);
- Public land managers (27%); and
- Those on commercial farms with beef cattle (27%).

Base: All respondents (n=1,789)
 Q7 - Which of the following pest animals are actively controlled on land under your management?



Of those who actively control wild dogs, 92% do so to protect commercial interests and 59% to protect native flora / fauna

Why 1080 permit holders actively control wild dogs



Those who are more likely to actively control wild dogs for commercial interests are:

- Commercial farm owners (96%); and
- Those on commercial farms with beef (99%).

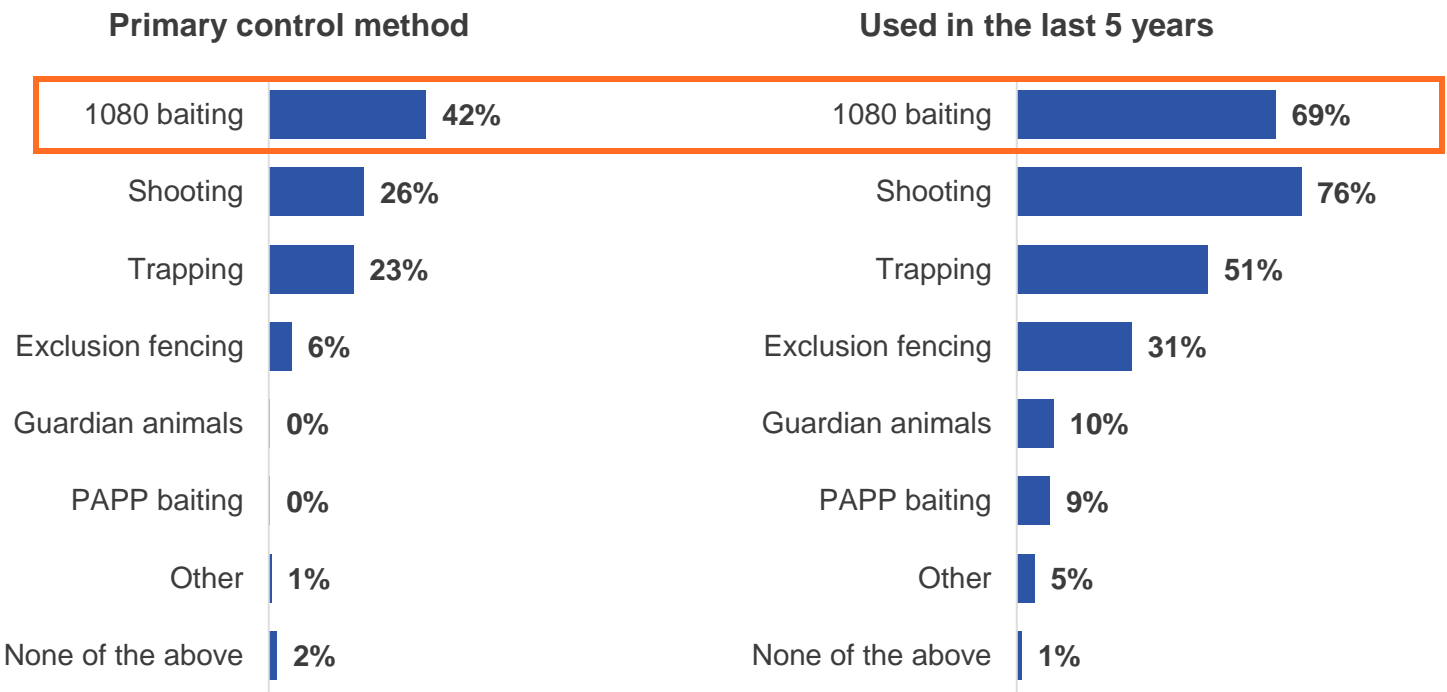
Sample sizes for farm employees and pest controllers / contractors who actively control wild dogs were too small to conduct significance testing for this question.

Base: Those who actively control wild dogs (n=293)
Q35 - Why do you actively control wild dogs on land under your management?



Of those who actively control wild dogs, 1080 has been used by two thirds (69%) of permit holders in the last 5 years

Methods for controlling wild dogs



1080 is more likely to be the primary control method for:

- Commercial farm owners (48%); and
- Those in Eastern Victoria (61%).

Public land managers are more likely to use trapping as their primary control method for wild dogs (67%). Hobby farms are more likely to use shooting (44%).

Sample sizes for farm employees and pest controllers / contractors who actively control wild dogs were too small to conduct significance testing for this question.

Base: Those who actively control wild dogs (n=278)
 Q38 - Which one of the following do you consider the primary control method (i.e. the method which is most relied on to control wild dog populations on land under your management)?

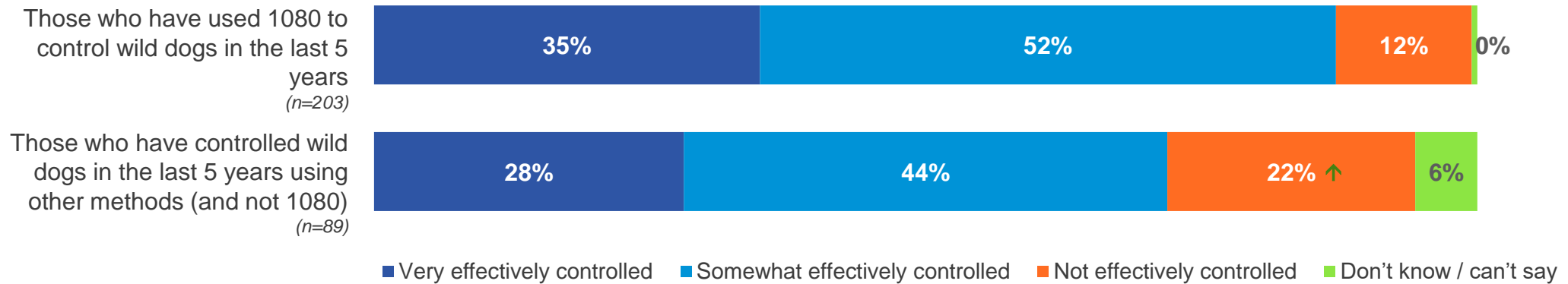
Base: Those who actively control wild dogs (n=293)
 Q37 - In the past five years, which of the following methods have been used to control wild dogs on land under your management?



Those who haven't used 1080 to control wild dogs in the last 5 years are more likely report they are not effectively controlled

Effectiveness of controlling wild dogs

To what extent are wild dogs effectively controlled on land under your management?



Base: Those who actively control wild dogs (n=292)

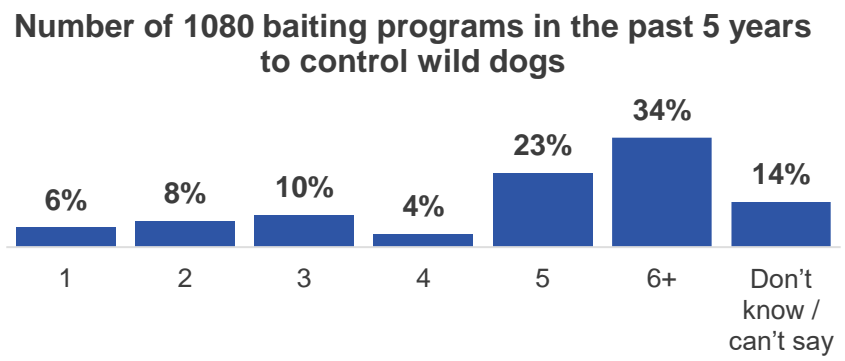
Q36 - To what extent do you believe that wild dogs are effectively controlled on land under your management?

↑↓ Denotes a significant difference to those who have used 1080 in the last 5 years

The questions on the following slides were asked only of people who had used 1080 in the last 5 years to control wild dogs

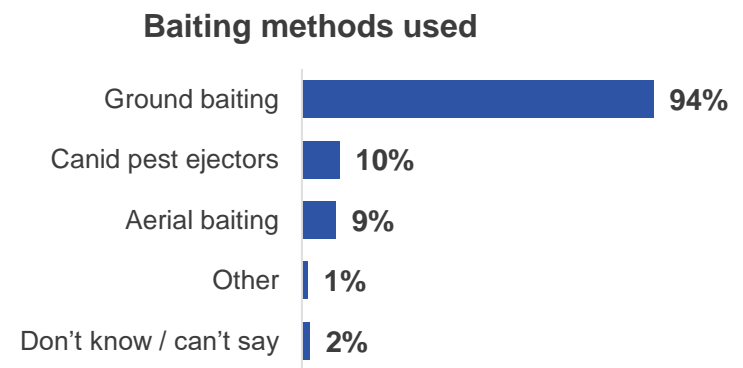
Of those who have used 1080 in the last 5 years, ground baiting is most common (94%)

Use of 1080 to control wild dogs – Number of baiting programs and bait method



No significant differences by age or time of obtaining 1080 permit.
 Sample sizes for land manager types and region were too small to conduct significance testing for this question.

Base: Those who have used 1080 in the last 5 years to control wild dogs (n=194)
 Q39 - How many wild dog baiting programs involving use of 1080 have been used to control wild dogs in the past 5 years?



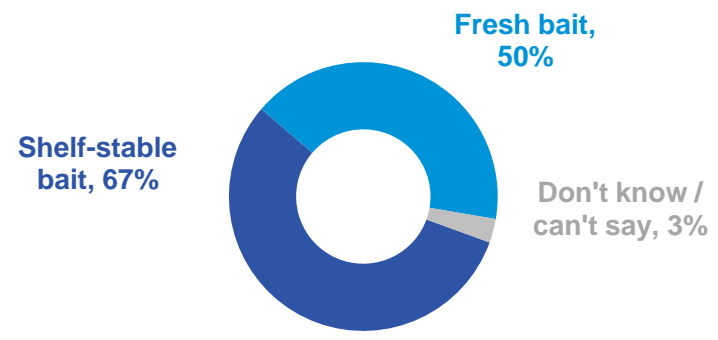
Ground baiting is more likely to be used by those aged 50+ (96%) and both canid pest ejectors and aerial baiting are more likely to be used by those aged less than 50 years (19% canid pest ejector, 17% aerial baiting).
 Sample sizes for land manager types and region were too small to conduct significance testing for this question.

Base: Those who have used 1080 in the last 5 years to control wild dogs (n=203)
 Q42 - Which of the following 1080 baiting methods are used to control wild dogs on land under your management?

Shelf-stable baits (67%) and fresh baits (50%) are both common for wild dog control

Use of 1080 to control wild dogs – Type of baits and quantity

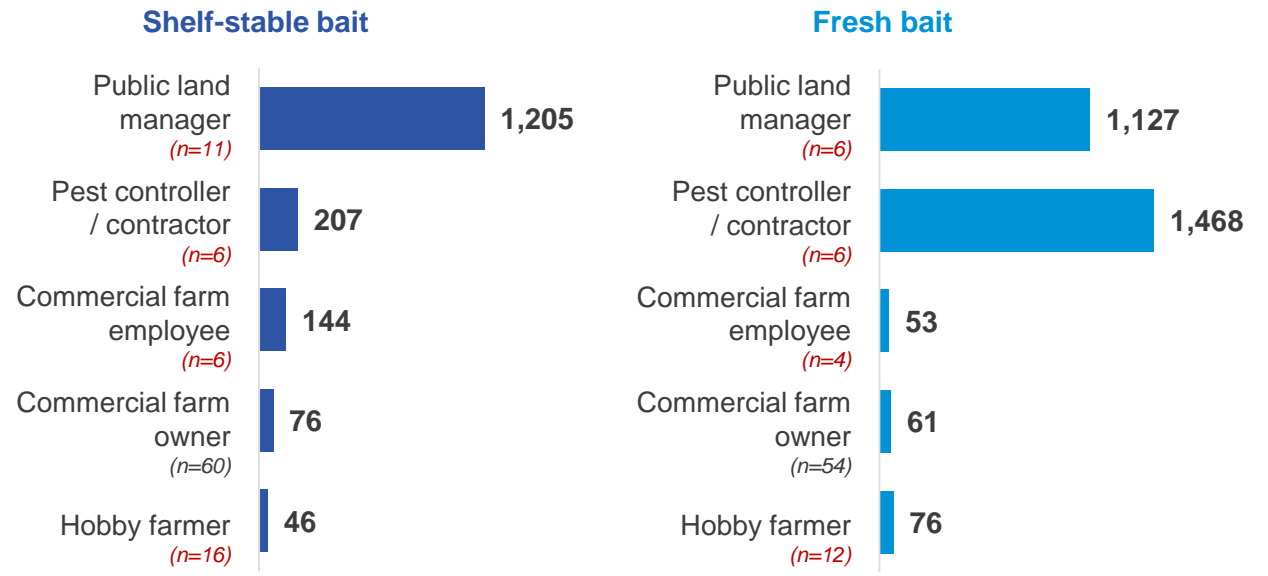
Type of baits used



No significant differences by age or time of obtaining 1080 permit.
 Sample sizes for land manager types and region were too small to conduct significance testing for this question.

Base: Those who have used 1080 in the last 5 years to control wild dogs (n=203)
 Q40 - Are the 1080 baits used to control wild dogs fresh or shelf-stable?

Average individual baits used per year

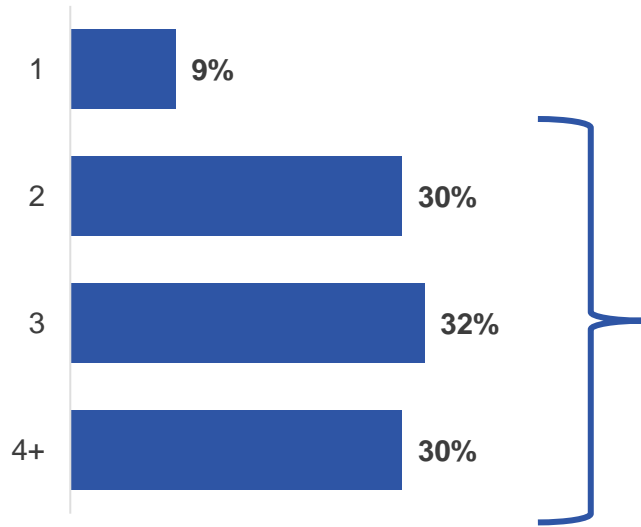


Base: Those who have used 1080 in the last 5 years to control wild dogs (bases in chart)
 Q41 - In a typical year, approximately how many Individual 1080 baits are used to control wild dogs on land under your management?
 Note small sample sizes (<30) should be approached with caution; data provides directional insights only.

The vast majority (91%) of those who have used 1080 to control wild dogs use it alongside other control methods

Number of methods used to control wild dogs

Number of methods used in the last 5 years to control wild dogs



91%
Of those who have used 1080 to control wild dogs had used **more than one control method** in the last 5 years

No significant differences by age or time of obtaining 1080 permit.

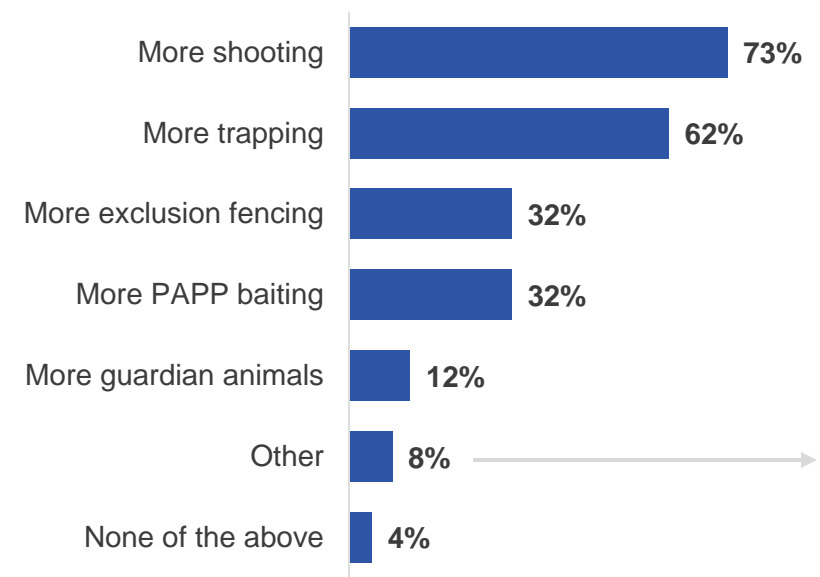
Sample sizes for land manager types and region were too small to conduct significance testing for this question.

Base: Those who have used 1080 in the last 5 years to control wild dogs (n=203)
Q37 - In the past five years, which of the following methods have been used to control wild dogs on land under your management?

If 1080 was no longer available, two thirds would increase shooting (73%) and trapping (62%) efforts to control wild dogs

Alternative if 1080 was no longer available

Control methods land managers would use more of (or start doing) to control wild dogs if 1080 was no longer available



n=22 responses were left under 'Other'. Most were commercial or hobby farmers and many comments mentioned or implied they would retire from livestock farming, e.g. 'Sell sheep', 'Sell farm', 'Exit the sheep industry', 'Get out of having live stock', 'Might get out of sheep', 'Give up', 'Exit farming'.

No significant differences by age or time of obtaining 1080 permit.

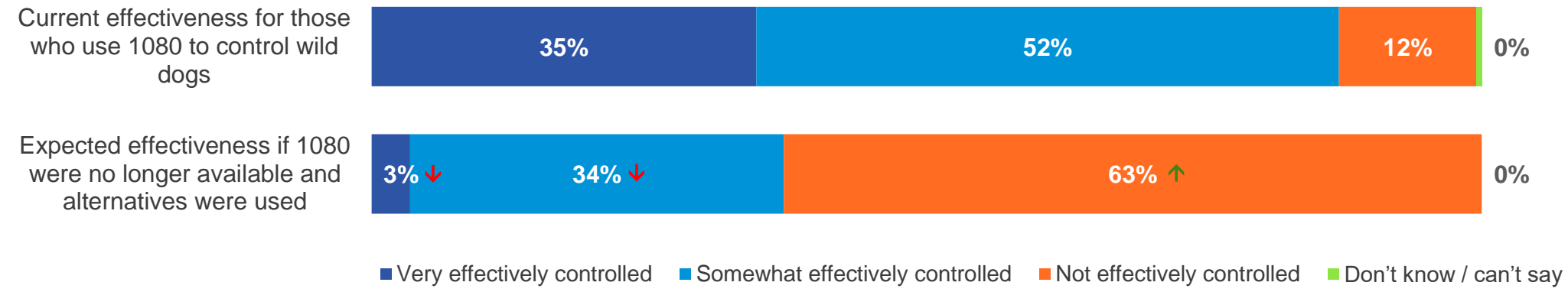
Sample sizes for land manager types and region were too small to conduct significance testing for this question.

Base: Those who have used 1080 in the last 5 years to control wild dogs (n=203)
 Q44 - If 1080 was no longer available for use, which of the following are you likely to do MORE of (or start doing) to control wild dogs on land under your management?

Permit holders anticipate the effectiveness of wild dog control would be greatly reduced if 1080 was no longer available

Effectiveness of controlling wild dogs – Current effectiveness and expected effectiveness if 1080 was no longer available

To what extent are wild dogs effectively controlled on land under your management?



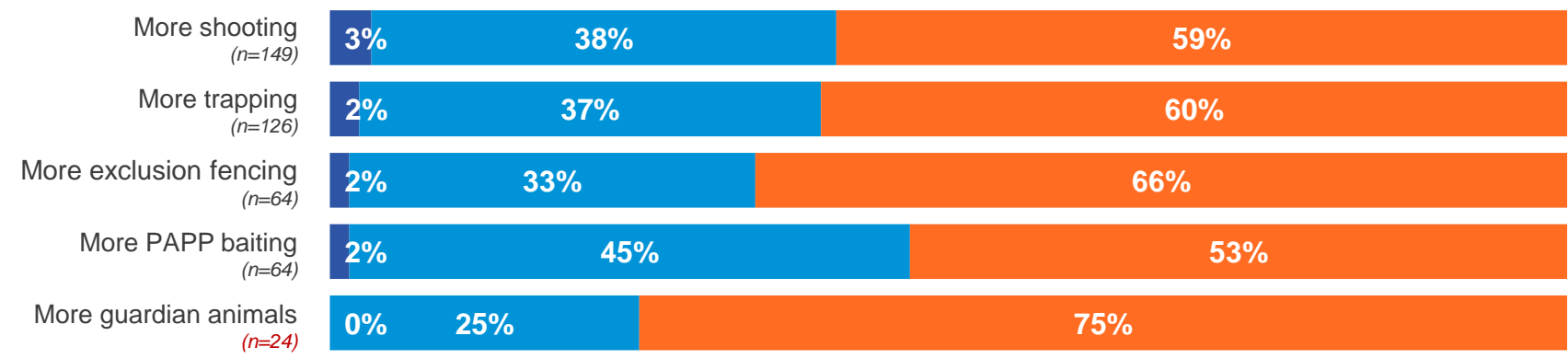
Those who obtained their 1080 permit pre-1999 are more likely to say the alternative would 'not effectively control' wild dogs (77%). Those who obtained their permit in 2010 or after are more likely to select 'somewhat effectively control' (46%).
 Sample sizes for land manager types and region were too small to conduct significance testing for this question.

Base: Those who have used 1080 in the last 5 years to control wild dogs (n=202)
 Q36 - To what extent do you believe that wild dogs are effectively controlled on land under your management?
 Q45 - If 1080 was no longer available and you had to use other methods, to what extent do you believe that wild dogs would be effectively controlled on land under your management?
 ↑↓ Denotes a significant difference to current effectiveness

Permit holders report more shooting and trapping would be somewhat effective, but neither matched 1080's effectiveness

Effectiveness of controlling wild dogs

Alternative control methods by Expected effectiveness



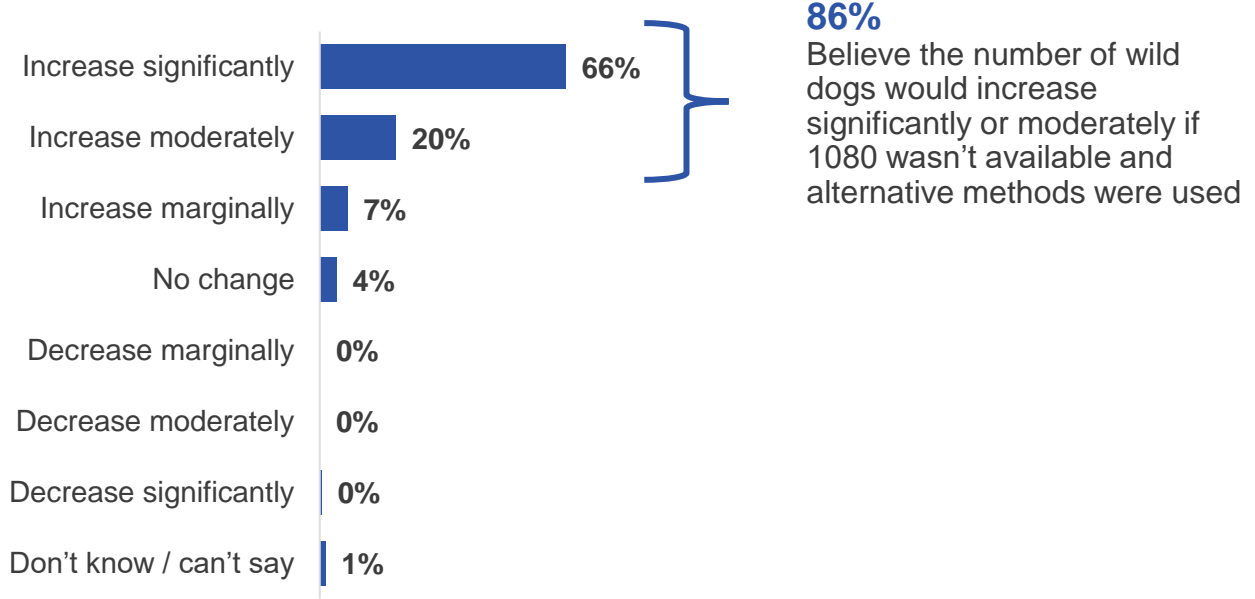
■ Very effectively controlled ■ Somewhat effectively controlled ■ Not effectively controlled

Base: Those who have used 1080 in the last 5 years to control wild dogs (bases in chart)
 Q44 - If 1080 was no longer available for use, which of the following are you likely to do MORE of (or start doing) to control wild dogs on land under your management?
 Q45 - If 1080 was no longer available and you had to use other methods, to what extent do you believe that wild dogs would be effectively controlled on land under your management?

The majority believe the number of wild dogs would increase significantly or moderately if 1080 was no longer available

Wild dog numbers if 1080 was no longer available

What would happen to the number of wild dogs if an alternative was used instead of 1080? Wild dog numbers would...



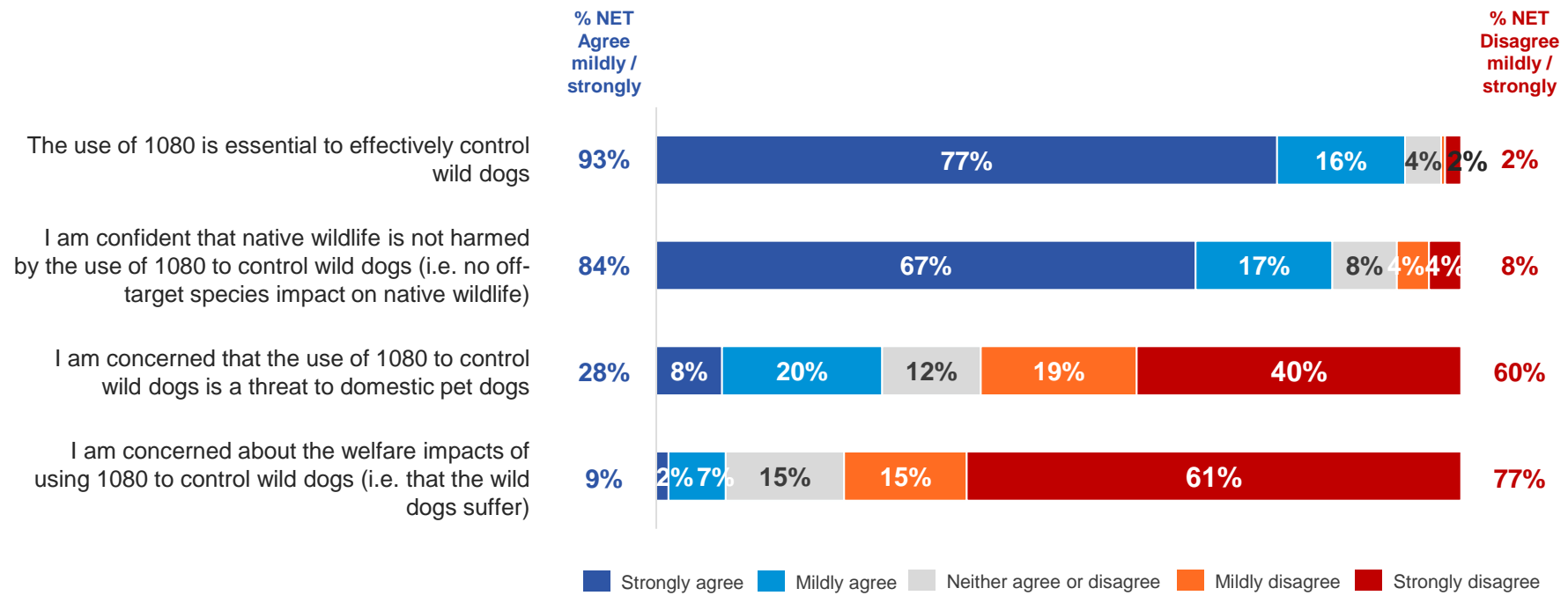
Those who obtained their 1080 permit pre-1999 are more likely to believe the number of wild dogs would increase significantly or moderately (97%). Those who obtained their permit in 2010 or after are less likely to believe numbers would increase significantly or moderately (79%).

Sample sizes for land manager types and region were too small to conduct significance testing for this question.

Base: Those who use 1080 to actively control wild dogs (n=202)
 Q46 - What do you believe would happen to the number of wild dogs if 1080 could no longer be accessed and you had to use other methods to control populations?

Vast majority (93%) agree that the use of 1080 is essential to effectively controlling wild dogs

Attitudes towards the use of 1080 baiting to control wild dogs



Those who obtained their 1080 permit between 2000-2009 are more likely to agree they are concerned that the use of 1080 to control wild dogs is a threat to domestic pet dogs (41%).

Sample sizes for land manager types and region were too small to conduct significance testing for this question.

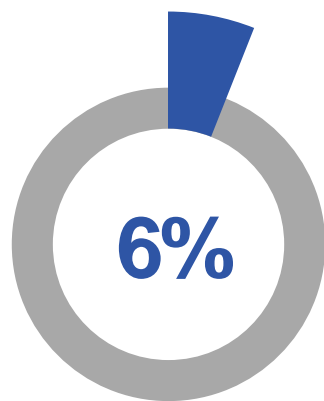
Base: Those who use 1080 to actively control wild dogs (n=201 statement 1, n=200 statement 2, n=196 statement 3, n=197 statement 4)
 Q43 - Agreement with the following statements about the use of 1080 baiting to control wild dogs?

Management of feral pigs

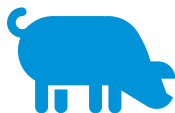


A small minority (6%) of 1080 permit holders actively control feral pigs

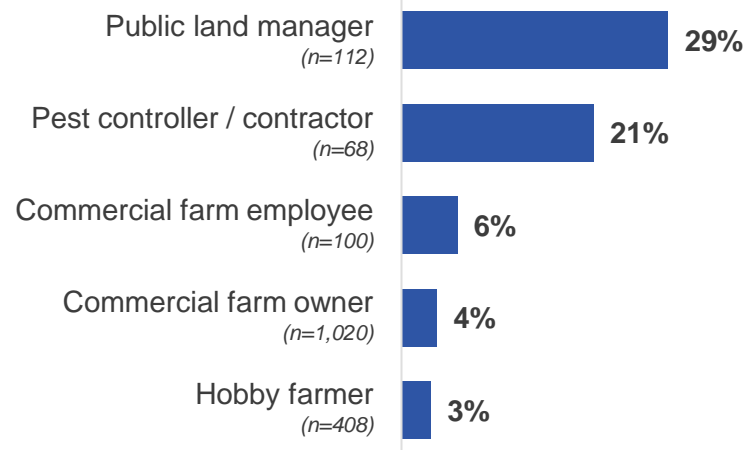
Whether feral pigs are actively controlled



Of 1080 permit holders actively control feral pigs



% who actively control feral pigs by Land manager type



Those who are more likely to actively control feral pigs are:

- Public land managers (29%); and
- Pest controllers / contractors (21%).

Base: All respondents (n=1,789)

Q7 - Which of the following pest animals are actively controlled on land under your management?

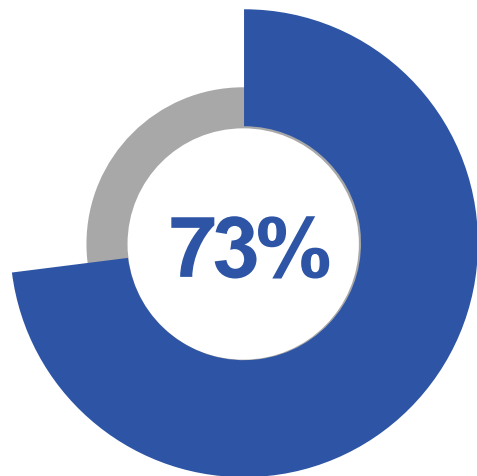


Of those who actively control feral pigs, 73% do so to protect commercial interests and 81% to protect native flora / fauna

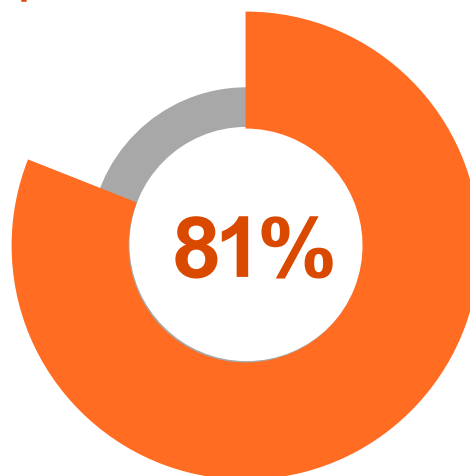
Why 1080 permit holders actively control feral pigs



Control feral pigs to
protect commercial interests



Control feral pigs to
protect native flora / fauna



Commercial farm owners are more likely to actively control feral pigs for commercial interests (100%) while public land managers are more likely to be motivated to protect native flora / fauna (94%).

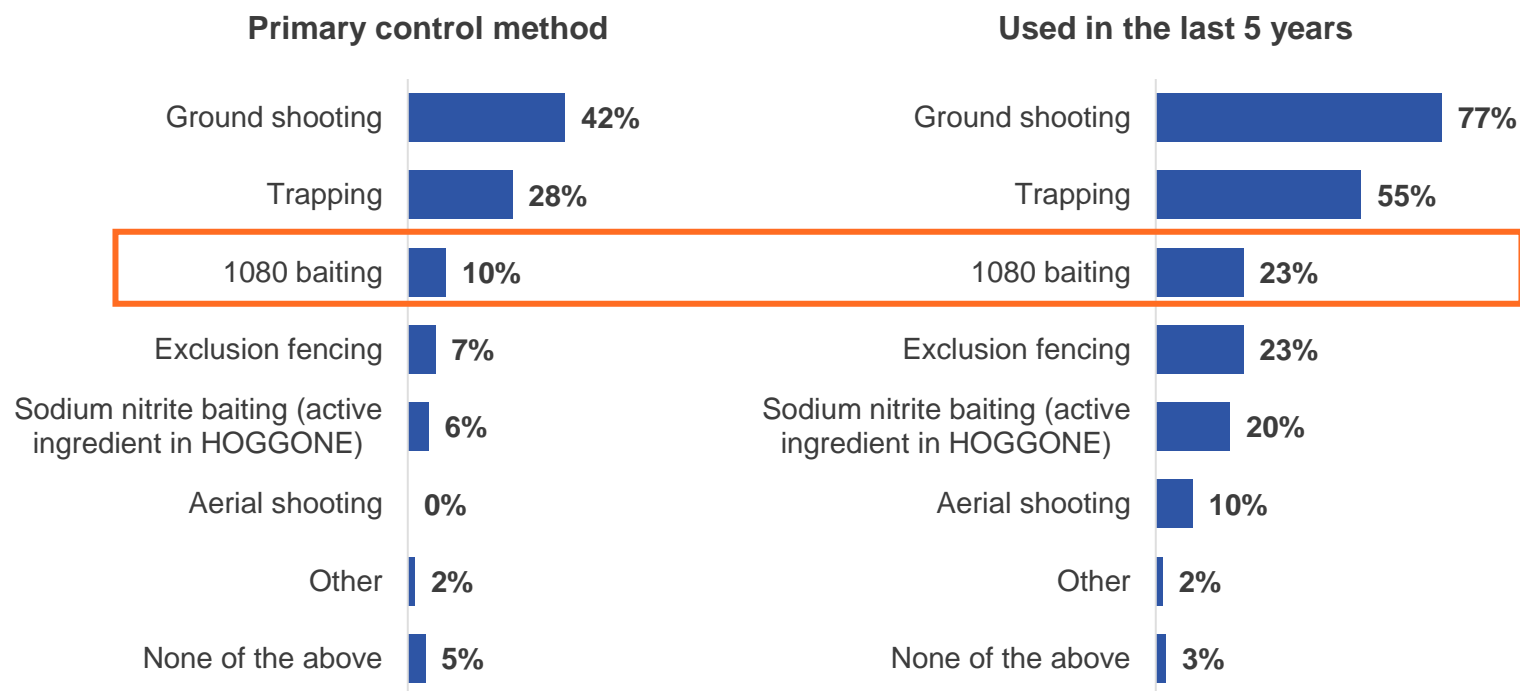
Sample sizes for farm employee, hobby farmers and pest controllers / contractors who actively control feral pigs were too small to conduct significance testing for this question.

Base: Those who actively control feral pigs (n=111)
Q48 - Why do you actively control feral pigs on land under your management?



Of those who actively control feral pigs, 1080 has been used by one quarter (23%) of permit holders in the last 5 years

Methods for controlling feral pigs



Commercial farm owners are more likely to use ground shooting as their primary control method for feral pigs (68%) while public land managers are more likely to use trapping (63%). There are no significant differences in use of 1080 between commercial farm owners and public land managers.

Sample sizes for farm employee, hobby farmers and pest controllers / contractors who actively control feral pigs were too small to conduct significance testing for this question.

Base: Those who actively control feral pigs (n=107)
 Q51 - Which one of the following do you consider the primary control method (i.e. the method which is most relied on to control feral pig populations on land under your management)?

Base: Those who actively control feral pigs (n=111)
 Q50 - In the past five years, which of the following methods have been used to control feral pigs on land under your management?

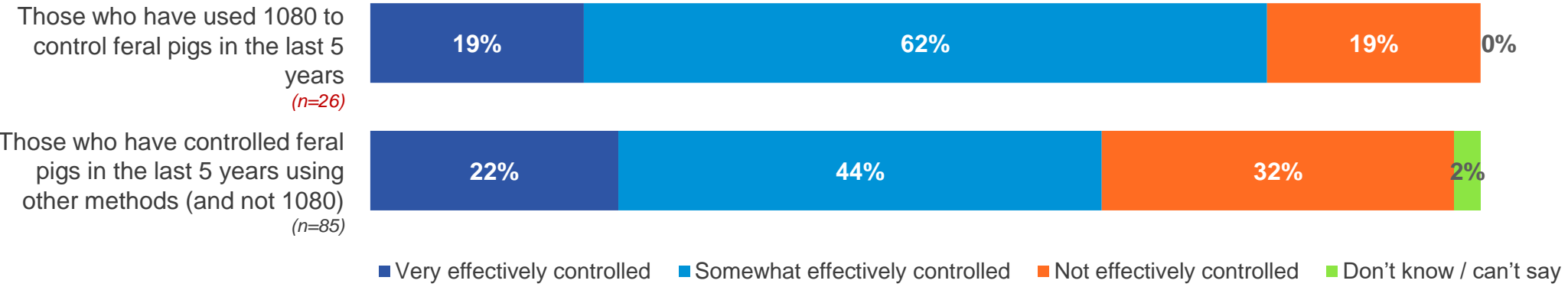


One in five (19%) of those who have used 1080 to control feral pigs in the last 5 years believe they are not effectively controlled

Effectiveness of controlling feral pigs

Note small sample sizes (<30) should be approached with caution; data provides directional insights only.

To what extent are feral pigs effectively controlled on land under your management?



Base: Those who actively control feral pigs (bases in chart)
Q49 - To what extent do you believe that feral pigs are effectively controlled on land under your management?
Note small sample sizes (<30) should be approached with caution; data provides directional insights only. No significance testing conducted due to small sample size.

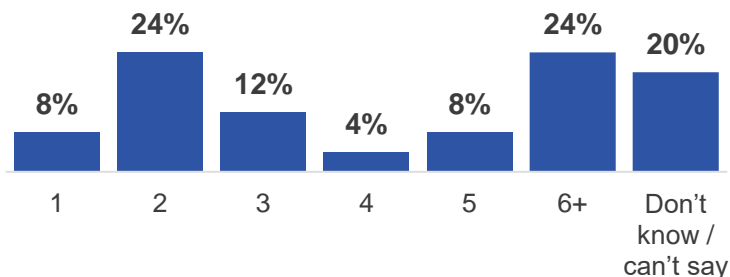
The questions on the following slides were asked only of people who had used 1080 in the last 5 years to control feral pigs

Of those who have used 1080 in the last 5 years to control pigs, ground baiting is most common (96%)

Use of 1080 to control feral pigs – Number of baiting programs and bait method

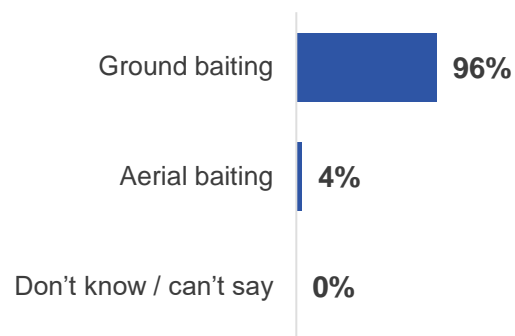
Note small sample sizes (<30) should be approached with caution; data provides directional insights only.

Number of 1080 baiting programs in the past 5 years to control feral pigs



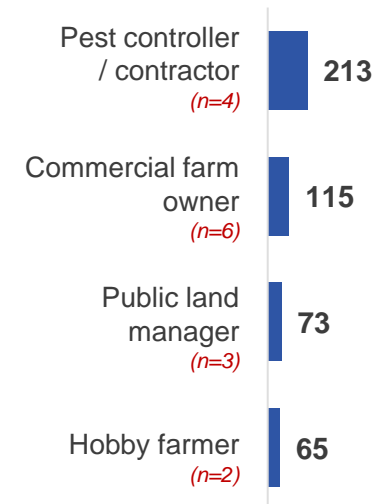
Base: Those who have used 1080 in the last 5 years to control feral pigs (n=25). Q52 - How many feral pig baiting programs involving use of 1080 have been used to control feral pigs in the past 5 years?

Baiting methods used



Base: Those who have used 1080 in the last 5 years to control feral pigs (n=26). Q54 - Which of the following 1080 baiting methods are used to control feral pigs on land under your management?

Average individual baits used per year



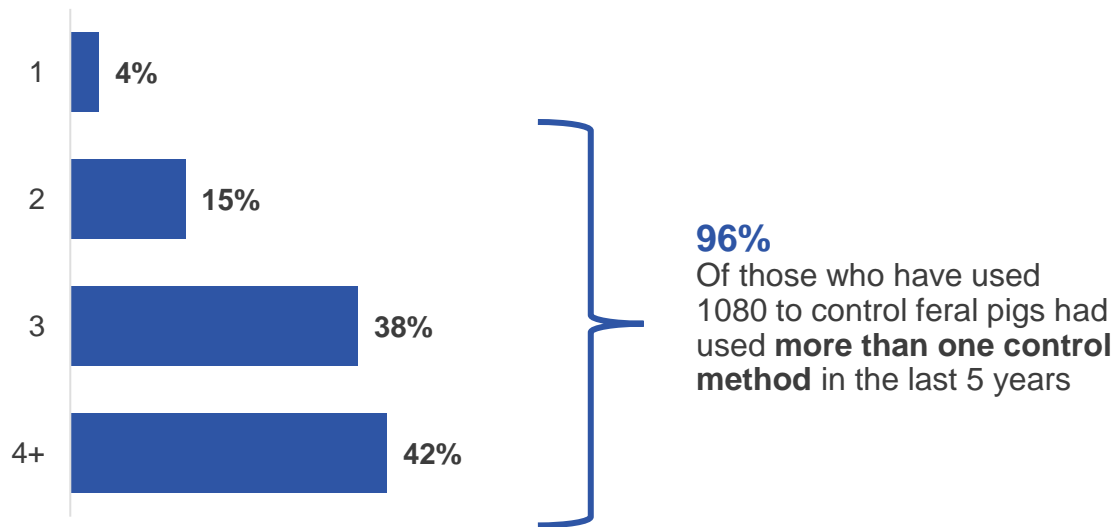
Base: Those who have used 1080 in the last 5 years to control feral pigs (bases in chart). Q53 - In a typical year, approximately how many individual 1080 baits are used to control feral pigs on land under your management?

The vast majority (96%) of those who have used 1080 to control feral pigs use it alongside other control methods

Number of methods used to control feral pigs

Note small sample sizes (<30) should be approached with caution; data provides directional insights only.

Number of methods used in the last 5 years to control feral pigs



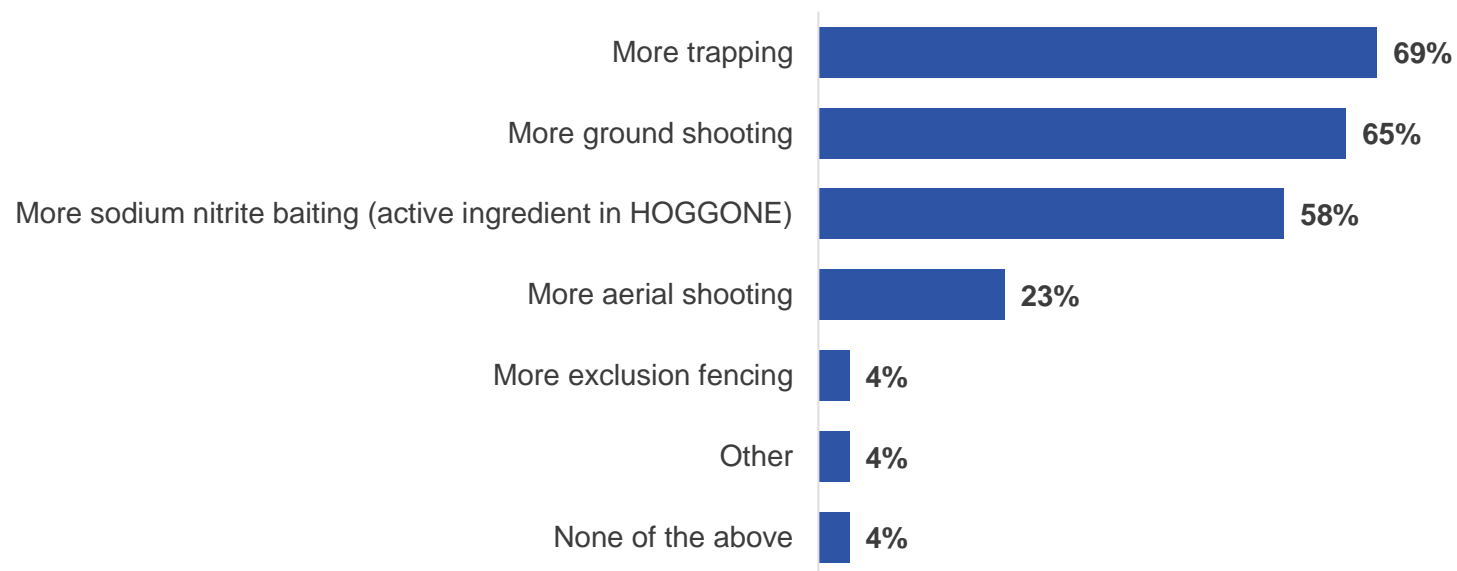
Base: Those who have used 1080 in the last 5 years to control feral pigs (n=26)
Q50 - In the past five years, which of the following methods have been used to control feral pigs on land under your management?

If 1080 was no longer available, two thirds would increase trapping (69%) and shooting (65%) efforts to control feral pigs

Alternative if 1080 was no longer available

Note small sample sizes (<30) should be approached with caution; data provides directional insights only.

Control methods land managers would use more of (or start doing) to control feral pigs if 1080 was no longer available



Base: Those who have used 1080 in the last 5 years to control feral pigs (n=26)

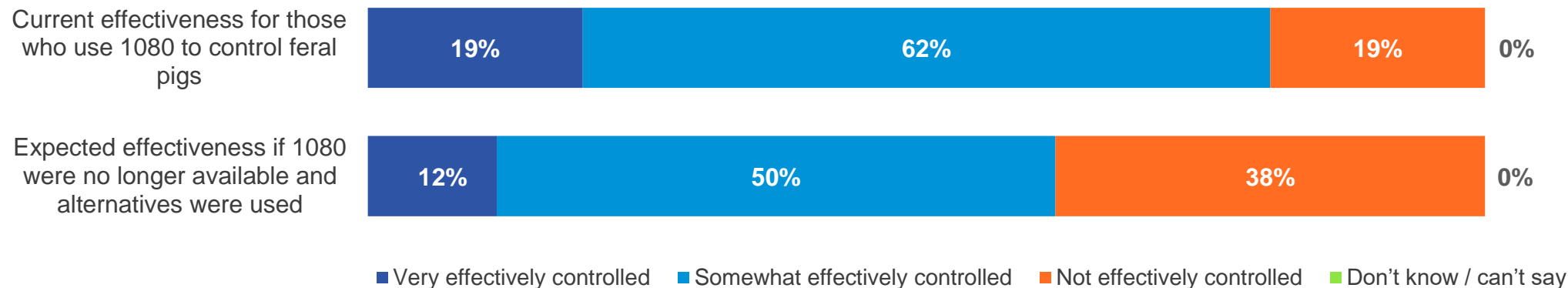
Q56 - If 1080 was no longer available for use, which of the following are you likely to do MORE of (or start doing) to control feral pigs on land under your management?

Two in five (38%) anticipate replacements would not be as effective as 1080

Effectiveness of controlling feral pigs – Current effectiveness and expected effectiveness if 1080 was no longer available

Note small sample sizes (<30) should be approached with caution; data provides directional insights only.

To what extent are feral pigs effectively controlled on land under your management?



Base: Those who have used 1080 in the last 5 years to control feral pigs (n=26)

Q49 - To what extent do you believe that feral pigs are effectively controlled on land under your management?

Q57 - If 1080 was no longer available and you had to use other methods, to what extent do you believe that feral pigs would be effectively controlled on land under your management?

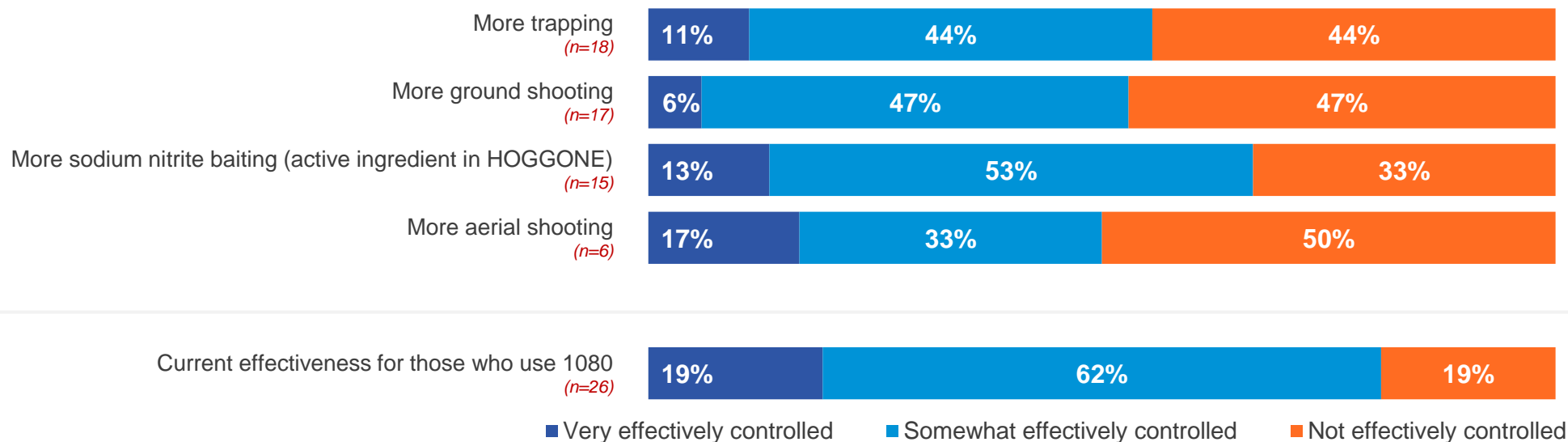
No significance testing conducted due to small sample size.

Around half of permit holders believe more trapping and shooting would not be as effective as 1080

Effectiveness of controlling feral pigs

Note small sample sizes (<30) should be approached with caution; data provides directional insights only.

Alternative control methods by Expected effectiveness



Base: Those who have used 1080 in the last 5 years to control feral pigs (bases in chart).

Q56 - If 1080 was no longer available for use, which of the following are you likely to do MORE of (or start doing) to control feral pigs on land under your management?

Q57 - If 1080 was no longer available and you had to use other methods, to what extent do you believe that feral pigs would be effectively controlled on land under your management?

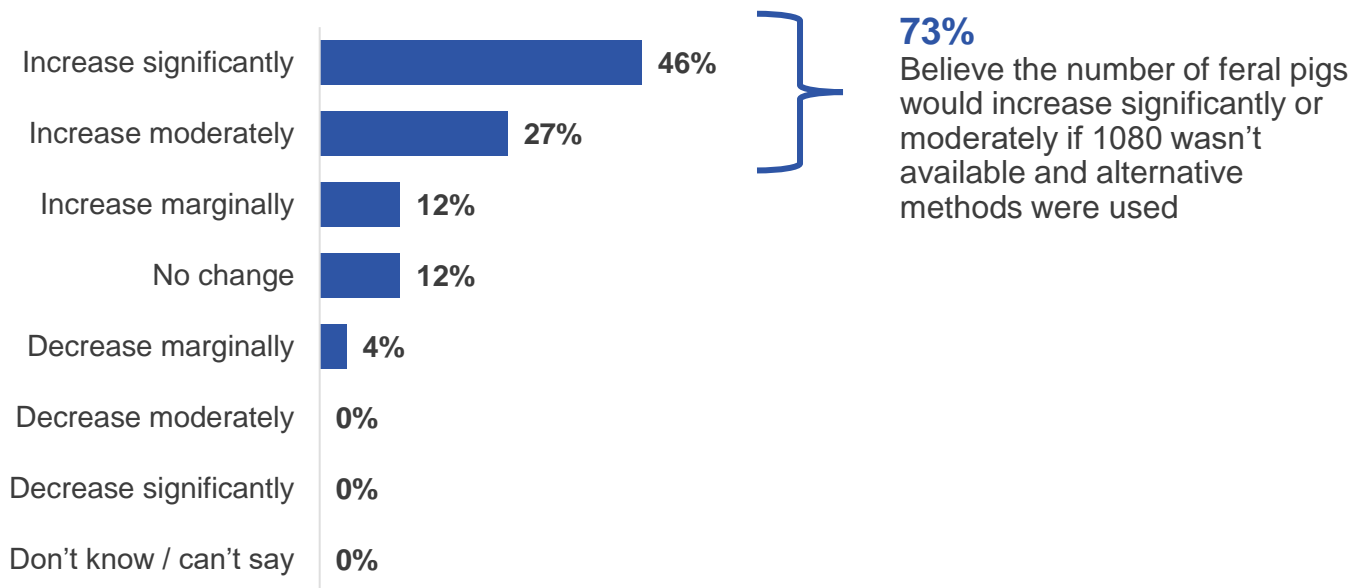
No significance testing conducted due to small sample size.

Three quarters (73%) believe feral pig numbers would increase significantly or moderately if 1080 was no longer available

Feral pig numbers if 1080 was no longer available

Note small sample sizes (<30) should be approached with caution; data provides directional insights only.

What would happen to the number of feral pigs if an alternative was used instead of 1080? Feral pigs numbers would...



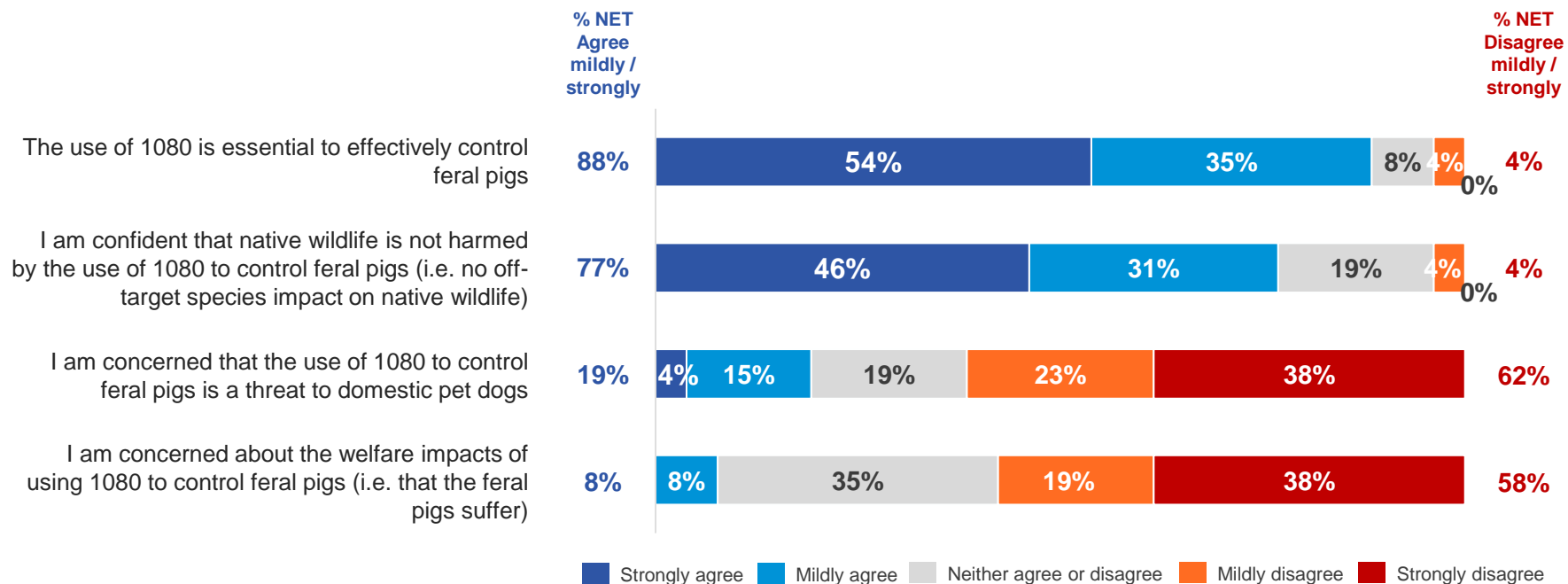
Base: Those who use 1080 to actively control feral pigs (n=26)

Q58 - What do you believe would happen to the number of feral pigs if 1080 could no longer be accessed and you had to use other methods to control populations?

The majority (88%) agree that the use of 1080 is essential to effectively controlling feral pigs

Attitudes towards the use of 1080 baiting to control feral pigs

Note small sample sizes (<30) should be approached with caution; data provides directional insights only.



Base: Those who use 1080 to actively control feral pigs (n=26)





Q55 - Agreement with following statements about the use of 1080 baiting to control feral pigs?

Pest animal comparison

Compared to those who use 1080 to control rabbits or wild dogs, those who use 1080 to control foxes believe it is more essential

Attitudes towards the use of 1080 baiting to control pest animals, by Pest animal

% NET Agree by Those who have used 1080 to control each pest animal

	 Foxes (n=876-902)	 Rabbits (n=384-394)	 Wild dogs (n=196-201)	 Feral pigs (n=26)*
The use of 1080 is essential to effectively control [pest animal]	94% ↑	92%	93%	88%
I am confident that native wildlife is not harmed by the use of 1080 to control [pest animal] (i.e. no off-target species impact on native wildlife)	79%	75%	84%	77%
I am concerned that the use of 1080 to control [pest animal] is a threat to domestic pet dogs	35% ↑	28%	28%	19%
I am concerned about the welfare impacts of using 1080 to control [pest animal] (i.e. that the [pest animal] suffer)	12% ↑	11%	9%	8%

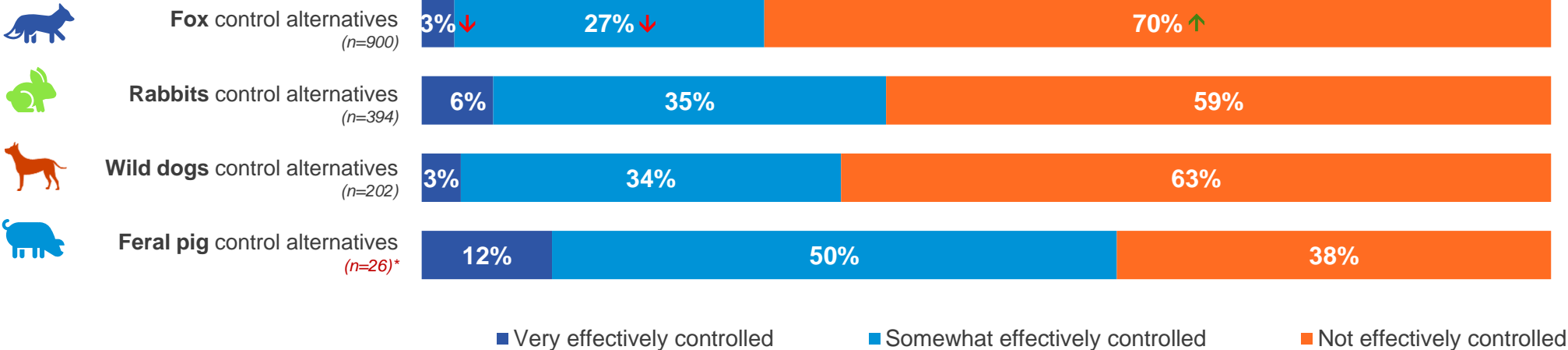
Those who have used 1080 to control foxes are more likely than those who have used it to control rabbits or wild dogs to say it is essential (94%) and that they are concerned for animal welfare (35% are concerned about the threat to pet dogs and 12% are concerned about the welfare of the foxes).

Base: Those who have used 1080 to control each pest animal (bases in table)
 Q17 / Q30 / Q43 / Q55 - Agreement with following statements about the use of 1080 baiting to control [pest animal]?
 ↑↓ Denotes a significant difference to NET % Agree. *Note significance testing excludes 'Feral pigs' column due to small sample size (<30).

Those who have used 1080 to control foxes are also least likely to feel an alternative would effectively control foxes

Expected effectiveness of controlling pest animals if 1080 was no longer available, by Pest animal

Expected effectiveness if 1080 were no longer available and alternatives were used, by Pest type







Base: Those who have used 1080 to control each pest animal (bases in table)
 Q19 / Q32 / Q45 / Q57 - If 1080 was no longer available and you had to use other methods, to what extent do you believe that [pest animal] would be effectively controlled on land under your management?
 ↑↓ Denotes a significant difference to the average. *Note significance testing excludes 'Feral pigs' column due to small sample size (<30).

Those who have used 1080 to control foxes are most likely to feel numbers would significantly or moderately increase without 1080

Expected pest animal numbers if 1080 was no longer available, by Pest animal

% Who believed the number of pest animals would increase significantly or moderately if 1080 wasn't available and alternative methods were used

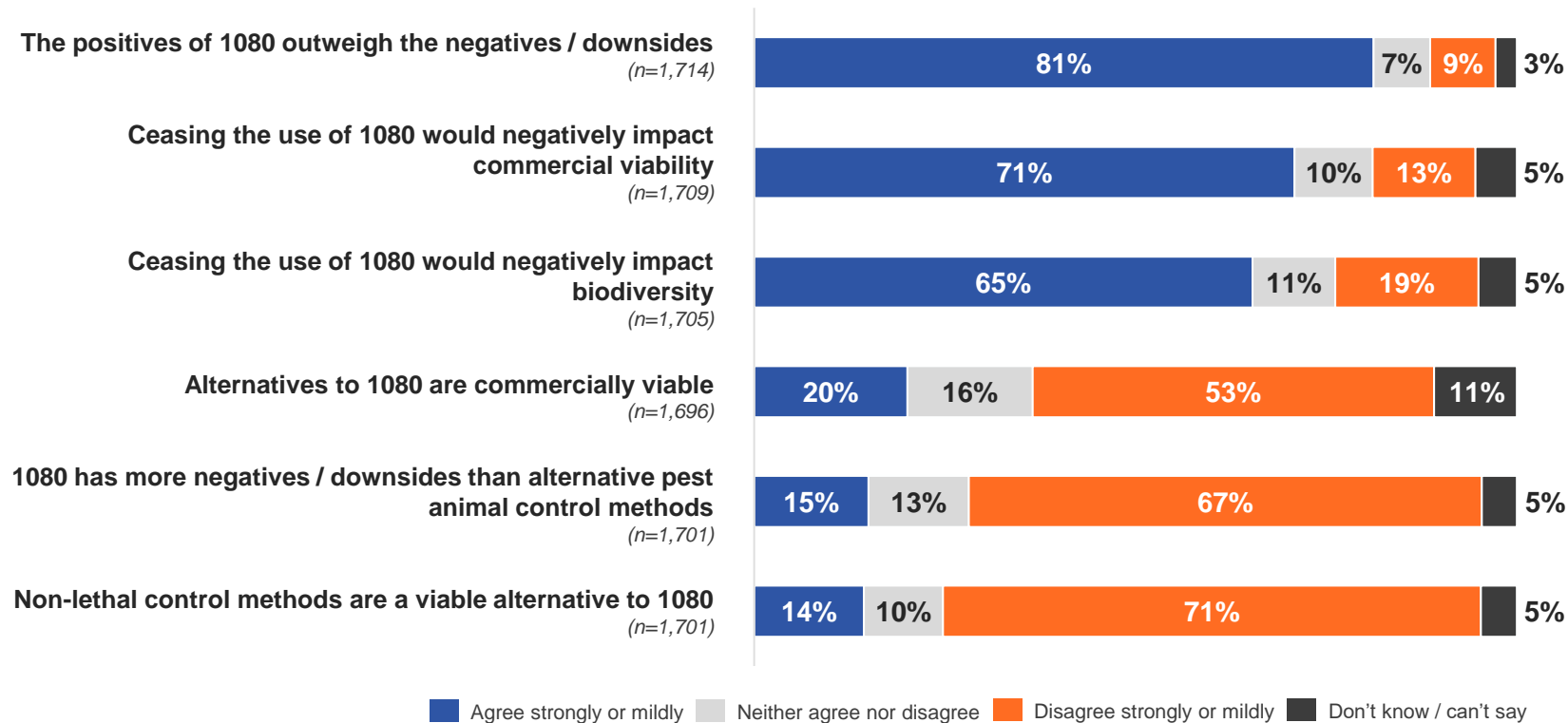
	 Foxes (n=901)	 Rabbits (n=394)	 Wild dogs (n=202)	 Feral pigs (n=26)*
% Selected increase significantly or moderately	89% ↑	80%	86%	73%

Base: Those who have used 1080 to control each pest animal (bases in table)
 Q20 / Q33 / Q46 / Q58 - What do you believe would happen to the number of [pest animals] if 1080 could no longer be accessed and you had to use other methods to control populations?
 ↑↓ Denotes a significant difference to NET % Increase significantly or moderately. *Note significance testing excludes 'Feral pigs' column due to small sample size (<30).

Further attitudes towards 1080

The majority (81%) of 1080 permit holders agree that the positives of 1080 outweigh the negatives

Attitudes towards the use of 1080 – All respondents



Those who have used 1080 in the last 5 years to control any of the four pest animals are more likely to agree to the first three statements (90%, 79%, 71%), and less likely to agree to the bottom three statements (14%, 9%, 9%).

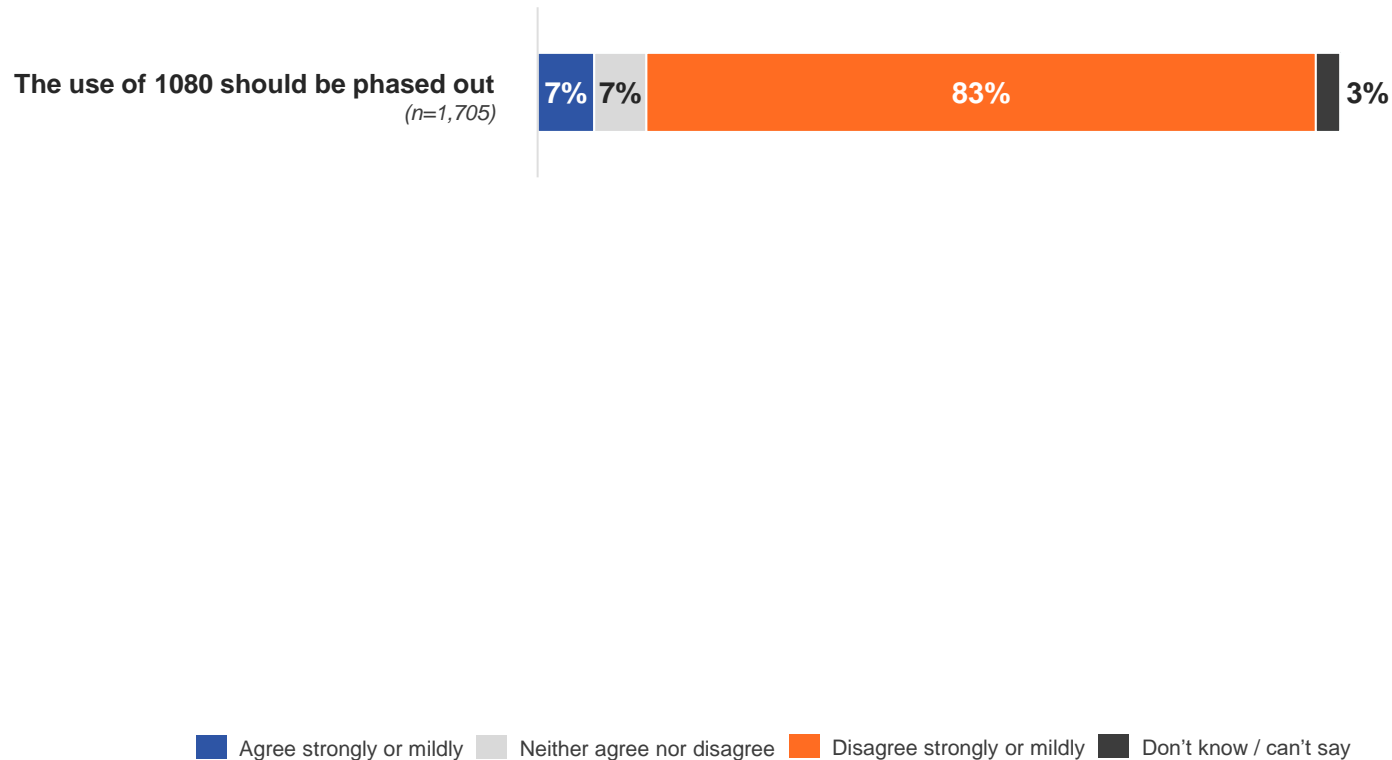
Commercial farm owners are more likely to agree to the first three statements (86%, 80%, 68%), as are those on commercial farms with livestock (86%, 80%, 68%). Those in Eastern Victoria are also more likely to agree that ceasing the use of 1080 baiting would negatively impact commercial viability (77%) and biodiversity (72%).

Hobby farmers and pest controllers / contractors are more likely to agree to the bottom three statements (25%, 19%, 17% for hobby farmers; 46%, 31%, 29% for pest controllers). Public land managers are also more likely to agree that alternatives are commercially viable (31%) and that 1080 has more downsides than alternatives (22%).

Base: All respondents (bases in chart)
Q60 - Agreement with the following statements about the use of 1080 baiting?

The majority (83%) of 1080 permit holders disagree that the use of 1080 should be phased out

Attitudes towards the use of 1080 – All respondents



Those who are more likely to disagree are:

- Those who have used 1080 in the last 5 years to control any of the four pest animals (91%);
- Commercial farm owners (90%); and
- Those on commercial farms with livestock (90%).

Those who are more likely to agree are:

- Public land managers (16%);
- Pest controllers / contractors (13%);
- Hobby farmers (11%); and
- Those on commercial horticulture farms (12%).

Base: All respondents (bases in chart)

Q60 - Agreement with the following statements about the use of 1080 baiting?

Appendices

Questionnaire: Survey with 1080 permit holders

Online introduction for those who received a letter

Thank-you for taking part in this survey.

The purpose of this survey is to gain insights into the current use of 1080 and alternate control methods in Victoria.

This survey is for all permit holders, whether you are actively using 1080 or not.

As 1080 is currently allowed for the management of foxes, rabbits, wild dogs and feral pigs, the survey will focus on these pest species specifically.

The survey should take no more than 10-12 minutes to complete. Responses will be accepted until 02/06/2024.

Note that one survey invitation is provided per permit holder. Only permit holders should complete this survey. If you complete the survey online, you do not need to respond by post and you will not receive a telephone call.

Please be reassured that this survey is anonymous. Quantum Market Research will collate the data and will never use your individual responses on their own. All data will be deidentified (anonymised) before being shared back with Agriculture Victoria. Quantum Market Research is an independent market research company and complies with the Australian Privacy Act 1988 and The Research Society's Code of Professional Behaviour, their privacy policy can be found [here](#).

If you have any queries about the survey or encounter any technical difficulties, please contact Tom Leslie at Quantum Market Research on (03) 9917 3432 or via email at toml@qmr.com.au.

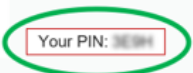
If you would like to discuss the overall research project or further verify that this survey is genuine, please contact Agriculture Victoria by phone on 136 186 or go to: <https://agriculture.vic.gov.au/about/contact-us>

Further information about the survey and 1080 use is available on the Agriculture Victoria website at: agriculture.vic.gov.au/chemicals

To begin, please enter your PIN:

Where to find your PIN

Your PIN is on the first page of your survey, on the right-hand side. In the example below, it is circled in green.



Dear [Name],

As you may be aware, the Victorian government recently announced a commitment to investigate alternative pest animal control methods to 1080 in Victoria as part of the Backing Victoria's World-Class Producers to Grow election commitment.

Agriculture Victoria is leading this project and has collaborated with Quantum Market Research to survey all Victorian holders of [Permit Type].

There are three options to complete the survey. You may complete it by:

1. Complete this document, and return it to Quantum Market Research using the enclosed prepaid envelope; or
2. Scan the QR code below or enter the provided link into your browser and enter the PIN below to complete the survey online.
3. If you choose not to respond via mail or online, Quantum Market Research

Online introduction for email-invitees only

Thank-you for taking part in this survey.

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As 1080 is currently allowed for the management of foxes, rabbits, wild dogs and feral pigs, the survey will focus on these pest species specifically.

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Further information about the survey and 1080 use is available on the Agriculture Victoria website at: agriculture.vic.gov.au/chemicals

Telephone introduction

Hello, my name is [Name] and I am calling on behalf of Agriculture Victoria. I am from Quantum Market Research. We have been engaged by Agriculture Victoria to survey all Victorian holders of Agricultural Chemical User Permits (ACUP) with 1080 and PAPP endorsements and vermin endorsed Commercial Operator Licence holders. The purpose of this survey is to gain insights into the current use of 1080 and alternate control methods in Victoria.

You may already have received correspondence by postal mail with details of the survey.

Q.900. Can I confirm that I'm speaking with [INSERT]?

If no: Can you help me get in touch with [INSERT] by phone?

Confirm 1

Referral 2

Other (specify) 3

The purpose of this survey is to gain insights into the current use of 1080 and alternate control methods in Victoria. This survey is for all permit holders, whether you are actively using 1080 or not. As 1080 is currently allowed for the management of foxes, rabbits, wild dogs and feral pigs, the survey will focus on these pest species specifically.

The survey should take no more than 10-12 minutes to complete.

Q.901. Is now a convenient time?

If no: May I make an appointment to speak to you at another time?

Continue 1

Make appointment 2

Refused (confirmed commitment to respond online)..... 3

Refused (confirmed commitment to respond by post)..... 4

Refused outright 5

Note: Commitment to respond online / by post is last resort and should be offered only if telephone appointment is refused.

Only if requested: If you would like to discuss the overall research project or further verify that this survey is genuine, please contact Agriculture Victoria by phone on 136 186 or go to: <https://agriculture.vic.gov.au/about/contact-us>

Read out before continuing:

Please be reassured that this survey is anonymous. Quantum Market Research will collate the data and will never use your individual responses on their own. All data will be deidentified (anonymised) before being shared back with Agriculture Victoria. Quantum Market Research is an independent market research company and complies with the Australian Privacy Act 1988 and The Research Society's Code of Professional Behaviour.

Main survey

ASK ALL

Q.1. What is your postcode? NUMERIC

Outside of Australia 1

ASK ALL

Q.2. In the context of pest animal control, which of the following best describes you? SR; READ OUT

Commercial farm owner / joint owner 1

Commercial farm employee 2

Commercial pest controller / contractor 3

Private land holder / hobby / lifestyle farmer 4

Public land manager 5

Other (specify) 6

ASK COMMERCIAL FARM OWNERS / EMPLOYEES (CODE 1 OR 2 AT Q.2)

Q.3. Which of the following are the main sector(s) you operate in? MR; READ OUT

Dairy 1

Livestock (beef cattle) 2

Livestock (sheep / lambs) 3

Livestock (other, inc. pigs, poultry, goats, etc.) 4

Grain 5

Horticulture 6

Other (specify) 7

Other (specify) 8

Other (specify) 9

ASK COMMERCIAL FARM OWNERS / EMPLOYEES (CODE 1 OR 2 AT Q.2)

Q.4. What is the estimated annual turnover of the farming operation? *if you work on more than one operation, please consider the largest operation.* SR; READ OUT

More than \$100,000 1

\$100,000 or less 2

Don't know / can't say 3

ASK ALL

Q.5. This survey will ask about 'land under your management'. By this, we mean the total area of land which you work on, own, or otherwise have responsibility for.

What is the approximate land area under your management? NUMERIC / SR; DNRO

___ acres

or

___ hectares

Unsure 1

Does not apply (n/a) 2

ASK ALL

Q.6. Are any pest animals actively controlled on land under your management? SR; DNRO

Yes 1

No 2

Don't know / can't say 3

ASK ALL

Q.7. Which of the following pest animals are actively controlled on land under your management? MR; READ OUT

Rabbits 1	MANAGE RABBITS
Foxes 2	MANAGE FOXES
Wild dogs 3	MANAGE WILD DOGS
Feral pigs 4	MANAGE FERAL PIGS
None of the above SR; DNRO 5	

RABBITS

ASK THOSE WHO MANAGE RABBITS

You have stated that you actively control rabbits on land under your management. The following questions relate to your approach to controlling rabbits.

Q.8. Why do you actively control rabbits on land under your management? MR; READ OUT

To protect native flora / fauna 1

To protect commercial interests 2

Other (specify) 3

ASK THOSE WHO MANAGE RABBITS

Q.9. To what extent do you believe that rabbits are effectively controlled on land under your management? SR; READ OUT

Very effectively controlled 1

Somewhat effectively controlled 2

Not effectively controlled 3

Don't know / can't say DNRO 4

ASK THOSE WHO MANAGE RABBITS

Q.10. In the past five years, which of the following methods have been used to control rabbits on land under your management? MR; READ OUT

1080 baiting 1

Exclusion fencing 2

Fumigation / gassing of warrens 3

Pindone baiting 4

Rabbit calicivirus (release of Rabbit Haemorrhagic Disease Virus 1 K5) 5

Shooting 6

Warren 'ripping' and/or 'blasting' 7

Other (specify) 8

Other (specify) 9

Other (specify) 10

None of the above SR; DNRO 11

ASK THOSE WHO MANAGE RABBITS

Q.11. Which one of the following do you consider the **primary control method** (i.e. the method which is most relied on to control rabbit populations on land under your management)? SR; READ OUT

INSERT THOSE SELECTED AT Q.10

None of the above DNRO 9

ASK THOSE WHO USE 1080 TO CONTROL RABBITS (CODE 1 AT Q.10)

Q.12. How many rabbit baiting programs involving use of 1080 have been used to control rabbits on land under your management in the **past 5 years**? NUMERIC / SR

__ Rabbit baiting programs involving use of 1080 in the past 5 years

Don't know / can't say DNRO 1

ASK THOSE WHO USE 1080 TO CONTROL RABBITS (CODE 1 AT Q.10)

Are the 1080 baits used to control rabbits on land under your management **carrots and/or oats**? NR

Carrots 1

Oats 2

Don't know / can't say SR; DNRO 3

ASK THOSE WHO KNOW WHETHER THEY USE CARROTS OR OATS (CODE 1 AND/OR 2 AT Q.13)

In a **typical year**, approximately what **total volume** of each type of 1080 bait is used to control rabbits on land under your management? NUMERIC / SR; READ OUT

__ kilograms (kg) of carrots

__ kilograms (kg) of oats

Don't know / can't say DNRO 1

ASK THOSE WHO USE 1080 TO CONTROL RABBITS (CODE 1 AT Q.10)

Which of the following types of **baiting programs** involving 1080 have occurred on land under your management to control rabbits in the **past five years**? MR; READ OUT

Community baiting program (co-ordinated with others)..... 1

Individual program (entirely self-led)..... 2

Don't know / can't say SR; DNRO 3

ASK THOSE WHO USE 1080 TO CONTROL RABBITS (CODE 1 AT Q.10)

Which of the following 1080 **baiting methods** are used to control rabbits on land under your management? MR; READ OUT

Ground baiting 1

Aerial baiting 2

Other (please specify) 3

Don't know / can't say SR 4

ASK THOSE WHO USE 1080 TO CONTROL RABBITS (CODE 1 AT Q.10)

To what extent do you agree with the following statements about the use of 1080 baiting to control rabbits on land under your management? SR PER ROW; READ OUT "E.G. IS THAT STRONGLY OR MILDLY AGREE"?

	Strongly agree	Mildly agree	Neither agree or disagree	Mildly disagree	Strongly disagree
The use of 1080 is essential to effectively control rabbits					
I am concerned about the welfare impacts of using 1080 to control rabbits (i.e. that the rabbits suffer)					
I am concerned that the use of 1080 to control rabbits is a threat to domestic pet dogs					
I am confident that native wildlife is not harmed by the use of 1080 to control rabbits (i.e. no off-target species impact on native wildlife)					

ASK THOSE WHO USE 1080 TO CONTROL RABBITS (CODE 1 AT Q.10)

Q.13. If 1080 was no longer available for use, which of the following are you likely to do **MORE** of (or start doing) to control rabbits on land under your management? MR; READ OUT

More exclusion fencing..... 1

More fumigation / gassing of warrens 2

More pindone baiting 3

More rabbit calicivirus (release of Rabbit Haemorrhagic Disease Virus 1 KS)..... 4

More shooting 5

More warren 'ripping' and/or 'blasting' 6

Other (specify) 7

Other (specify) 8

Other (specify) 9

None of the above SR 10

ASK THOSE WHO USE 1080 TO CONTROL RABBITS (CODE 1 AT Q.10)

Q.14. If 1080 was no longer available and you had to use other methods, to what extent do you believe that rabbits would be **effectively controlled** on land under your management? SR; READ OUT

Very effectively controlled..... 1

Somewhat effectively controlled 2

Not effectively controlled 3

ASK THOSE WHO USE 1080 TO CONTROL RABBITS (CODE 1 AT Q.10)

Q.15. What do you believe would happen to the number of rabbits on land under your management if 1080 could no longer be accessed and you had to use other methods to control populations? SR; READ OUT

Increase significantly 1

Increase moderately 2

Increase marginally 3

No change 4

Decrease marginally 5

Decrease moderately 6

Decrease significantly 7

Don't know / can't say DNRO 8

ASK THOSE WHO USE 1080 TO CONTROL RABBITS (CODE 1 AT Q.10)

Q.16. If 1080 was no longer available and you had to use other methods to control rabbits, what do you think the impact would be on the following on land under your management? SR PER ROW; READ OUT "E.G. IS THAT VERY POSITIVELY OR SOMEWHAT POSITIVELY IMPACTED"?

	Very positively impacted	Somewhat positively impacted	Neither positive or negative impact	Somewhat negatively impacted	Very negatively impacted	Don't know	Does not apply (n/a)
Native flora (plants)							
Native fauna (animals)							
The welfare of livestock							
Your commercial interests (e.g. viability, profitability)							
Your mental health							
The welfare of rabbits themselves							
The cost of controlling rabbits							

FOXES

ASK THOSE WHO MANAGE FOXES

You have stated that you actively control foxes on land under your management. The following questions relate to your approach to controlling foxes.

Q.17. Why do you actively control foxes on land under your management? MR; READ OUT

- To protect native flora / fauna 1
- To protect commercial interests 2
- Other (specify)..... 3

ASK THOSE WHO MANAGE FOXES

Q.18. To what extent do you believe that foxes are effectively controlled on land under your management? SR; READ OUT

- Very effectively controlled 1
- Somewhat effectively controlled 2
- Not effectively controlled 3
- Don't know / can't say DNRO 4

ASK THOSE WHO MANAGE FOXES

Q.19. In the past five years, which of the following methods have been used to control foxes on land under your management? MR; READ OUT

- 1080 baiting..... 1
- Exclusion fencing 2
- Fumigation / gassing of dens..... 3
- PAPP baiting 4
- Shooting 5
- Trapping 6
- Use of guard animal(s) 7
- Other (specify)..... 8
- Other (specify)..... 9
- Other (specify)..... 10
- None of the above SR; DNRO 11

ASK THOSE WHO MANAGE FOXES

Q.20. Which one of the following do you consider the primary control method (i.e. the method which is most relied on to control fox populations on land under your management)? SR; READ OUT

INSERT THOSE SELECTED AT Q.24

None of the above DNRO 9

ASK THOSE WHO USE 1080 TO CONTROL FOXES (CODE 1 AT Q.24)

Q.21. How many fox baiting programs involving use of 1080 have been used to control foxes on land under your management in the past 5 years? NUMERIC / SR

___ Fox baiting programs involving use of 1080 in the past 5 years

Don't know / can't say DNRO 1

ASK THOSE WHO USE 1080 TO CONTROL FOXES (CODE 1 AT Q.24)

Are the 1080 baits used to control foxes on land under your management fresh or shelf-stable? MR; READ OUT

- Fresh bait (i.e. fresh meat) 1
- Shelf-stable bait (i.e. manufactured) 2
- Don't know / can't say SR; DNRO..... 3

ASK THOSE WHO KNOW WHETHER THEY USE FRESH OR SHELF STABLE TO CONTROL FOXES (CODE 1 AND/OR 2 AT Q.27)

In a typical year, approximately how many individual 1080 baits are used to control foxes on land under your management? NUMERIC / SR; READ OUT

- ___ individual fresh baits (i.e. fresh meat)
- ___ individual shelf-stable baits (i.e. manufactured)

Don't know / can't say DNRO 1

ASK THOSE WHO USE 1080 TO CONTROL FOXES (CODE 1 AT Q.24)

Which of the following 1080 baiting methods are used to control foxes on land under your management? MR; READ OUT

- Ground baiting 1
- Canid pest ejectors..... 2
- Other (please specify) 3
- Don't know / can't say DNRO 4

ASK THOSE WHO USE 1080 TO CONTROL FOXES (CODE 1 AT Q.24)

To what extent do you agree with the following statements about the use of 1080 baiting to control foxes on land under your management? SR PER ROW; READ OUT "E.G. IS THAT STRONGLY OR MILDLY AGREE"?

	Strongly agree	Mildly agree	Neither agree or disagree	Mildly disagree	Strongly disagree
The use of 1080 is essential to effectively control foxes					
I am concerned about the welfare impacts of using 1080 to control foxes (i.e. that the foxes suffer)					
I am concerned that the use of 1080 to control foxes is a threat to domestic pet dogs					
I am confident that native wildlife is not harmed by the use of 1080 to control foxes (i.e. no off-target species impact on native wildlife)					

ASK THOSE WHO USE 1080 TO CONTROL FOXES (CODE 1 AT Q.24)

Q.22. If 1080 was no longer available for use, which of the following are you likely to do MORE of (or start doing) to control foxes on land under your management? MR; READ OUT

- More exclusion fencing 1
- More fumigation / gassing of dens 2
- More PAPP baiting 3
- More shooting..... 4
- More trapping..... 5
- More use of guard animal(s) 6
- Other (specify) 7
- Other (specify) 8
- Other (specify) 9
- None of the above 10

ASK THOSE WHO USE 1080 TO CONTROL FOXES (CODE 1 AT Q.24)

Q.23. If 1080 was no longer available and you had to use other methods, to what extent do you believe that foxes would be effectively controlled on land under your management? SR; READ OUT

- Very effectively controlled 1
- Somewhat effectively controlled 2
- Not effectively controlled 3

ASK THOSE WHO USE 1080 TO CONTROL FOXES (CODE 1 AT Q.24)

Q.24. What do you believe would happen to the number of foxes on land under your management if 1080 could no longer be accessed and you had to use other methods to control populations? SR; READ OUT

- Increase significantly 1
- Increase moderately..... 2
- Increase marginally 3
- No change 4
- Decrease marginally 5
- Decrease moderately 6
- Decrease significantly..... 7
- Don't know / can't say DNRO 8

ASK THOSE WHO USE 1080 TO CONTROL FOXES (CODE 1 AT Q.24)

Q.25. If 1080 was no longer available and you had to use other methods to control foxes, what do you think the impact would be on the following on land under your management? SR PER ROW; READ OUT "E.G. IS THAT VERY POSITIVELY OR SOMEWHAT POSITIVELY IMPACTED"?

	Very positively impacted	Somewhat positively impacted	Neither positive or negative impact	Somewhat negatively impacted	Very negatively impacted	Don't know	Does not apply (n/a)
Native flora (plants)							
Native fauna (animals)							
The welfare of livestock							
Your commercial interests (e.g. viability, profitability)							
Your mental health							
The welfare of foxes themselves							
The cost of controlling foxes							

WILD DOGS

ASK THOSE WHO MANAGE WILD DOGS

You have stated that you actively control wild dogs on land under your management. The following questions relate to your approach to controlling wild dogs.

Q.26. Why do you actively control wild dogs on land under your management? MR; READ OUT

- To protect native flora / fauna 1
- To protect commercial interests 2
- Other (specify) 3

ASK THOSE WHO MANAGE WILD DOGS

Q.27. To what extent do you believe that wild dogs are effectively controlled on land under your management? SR; READ OUT

- Very effectively controlled 1
- Somewhat effectively controlled 2
- Not effectively controlled 3
- Don't know / can't say DNRO 4

ASK THOSE WHO MANAGE WILD DOGS

Q.28. In the past five years, which of the following methods have been used to control wild dogs on land under your management? MR; READ OUT

- 1080 baiting 1
- Exclusion fencing 2
- Guardian animals 3
- PAPP baiting 4
- Shooting 5
- Trapping 6
- Other (specify) 7
- Other (specify) 8
- Other (specify) 9
- None of the above SR; DNRO 10

ASK THOSE WHO MANAGE WILD DOGS

Q.29. Which one of the following do you consider the primary control method (i.e. the method which is most relied on to control wild dog populations on land under your management)? SR; READ OUT

INSERT THOSE SELECTED AT Q.37

None of the above DNRO 8

ASK THOSE WHO USE 1080 TO CONTROL WILD DOGS (CODE 1 AT Q.37)

Q.30. How many wild dog baiting programs involving use of 1080 have been used to control wild dogs on land under your management in the past 5 years? NUMERIC / SR

__ Wild dog baiting programs involving use of 1080 in the past 5 years

Don't know / can't say DNRO 1

ASK THOSE WHO USE 1080 TO CONTROL WILD DOGS (CODE 1 AT Q.37)

Are the 1080 baits used to control wild dogs on land under your management fresh or shelf-stable? MR

- Fresh bait (i.e. fresh meat) 1
- Shelf-stable bait (i.e. manufactured) 2
- Don't know / can't say SR 3

ASK THOSE WHO KNOW WHETHER THEY USE FRESH OR SHELF STABLE TO CONTROL WILD DOGS (CODE 1 AND/OR 2 AT Q.40)

In a typical year, approximately how many individual 1080 baits are used to control wild dogs on land under your management? NUMERIC / SR; READ OUT

__ individual fresh baits (i.e. fresh meat)
 __ individual shelf-stable baits (i.e. manufactured)

Don't know / can't say DNRO 1

ASK THOSE WHO USE 1080 TO CONTROL WILD DOGS (CODE 1 AT Q.37)

Which of the following 1080 baiting methods are used to control wild dogs on land under your management? MR; READ OUT

- Ground baiting 1
- Canid pest ejectors 2
- Aerial baiting 3
- Other (please specify) 4
- Don't know / can't say DNRO 5

ASK THOSE WHO USE 1080 TO CONTROL WILD DOGS (CODE 1 AT Q.37)

To what extent do you agree with the following statements about the use of 1080 baiting to control wild dogs on land under your management? SR PER ROW; READ OUT "E.G. IS THAT STRONGLY OR MILDLY AGREE"?

	Strongly agree	Mildly agree	Neither agree or disagree	Mildly disagree	Strongly disagree
The use of 1080 is essential to effectively control wild dogs					
I am concerned about the welfare impacts of using 1080 to control wild dogs (i.e. that the wild dogs suffer)					
I am concerned that the use of 1080 to control wild dogs is a threat to domestic pet dogs					
I am confident that native wildlife is not harmed by the use of 1080 to control wild dogs (i.e. no off-target species impact on native wildlife)					

ASK THOSE WHO USE 1080 TO CONTROL WILD DOGS (CODE 1 AT Q.37)

Q.31. If 1080 was no longer available for use, which of the following are you likely to do MORE of (or start doing) to control wild dogs on land under your management? MR; READ OUT

- More exclusion fencing 1
- More guardian animals 2
- More PAPP baiting 3
- More shooting 4
- More trapping 5
- Other (specify) 6
- Other (specify) 7
- Other (specify) 8
- None of the above SR; DNRO 9

ASK THOSE WHO USE 1080 TO CONTROL WILD DOGS (CODE 1 AT Q.37)

Q.32. If 1080 was no longer available and you had to use other methods, to what extent do you believe that wild dogs would be effectively controlled on land under your management? SR; READ OUT

- Very effectively controlled 1
- Somewhat effectively controlled 2
- Not effectively controlled 3

ASK THOSE WHO USE 1080 TO CONTROL WILD DOGS (CODE 1 AT Q.37)

Q.33. What do you believe would happen to the number of wild dogs on land under your management if 1080 could no longer be accessed and you had to use other methods to control populations? SR; READ OUT

- Increase significantly 1
- Increase moderately 2
- Increase marginally 3
- No change 4
- Decrease marginally 5
- Decrease moderately 6
- Decrease significantly 7
- Don't know / can't say DNRO 8

ASK THOSE WHO USE 1080 TO CONTROL WILD DOGS (CODE 1 AT Q.37)

Q.34. If 1080 was no longer available and you had to use other methods to control wild dogs, what do you think the impact would be on the following on land under your management? SR PER ROW; READ OUT "E.G. IS THAT VERY POSITIVELY OR SOMEWHAT POSITIVELY IMPACTED"?

	Very positively impacted	Somewhat positively impacted	Neither positive or negative impact	Somewhat negatively impacted	Very negatively impacted	Don't know	Does not apply (n/a)
Native flora (plants)							
Native fauna (animals)							
The welfare of livestock							
Your commercial interests (e.g. viability, profitability)							
Your mental health							
The welfare of wild dogs themselves							
The cost of controlling wild dogs							

FERAL PIGS

ASK THOSE WHO MANAGE FERAL PIGS

You have stated that you actively control feral pigs on land under your management. The following questions relate to your approach to controlling feral pigs.

Q.35. Why do you actively control feral pigs on land under your management? MR; READ OUT

- To protect native flora / fauna 1
- To protect commercial interests 2
- Other (specify) 3

ASK THOSE WHO MANAGE FERAL PIGS

Q.36. To what extent do you believe that feral pigs are effectively controlled on land under your management? MR; READ OUT

- Very effectively controlled 1
- Somewhat effectively controlled 2
- Not effectively controlled 3
- Don't know / can't say DNRO 4

ASK THOSE WHO MANAGE FERAL PIGS

Q.37. In the past five years, which of the following methods have been used to control feral pigs on land under your management? MR; READ OUT

- 1080 baiting 1
- Exclusion fencing 2
- Sodium nitrite baiting (active ingredient in HOGGONE) 3
- Aerial shooting 4
- Ground shooting 5
- Trapping 6
- Other (specify) 7
- Other (specify) 8
- Other (specify) 9
- None of the above SR; DNRO 10

OFFICIAL

ASK THOSE WHO MANAGE FERAL PIGS

Q.38. Which one of the following do you consider the **primary control method** (i.e. the method which is most relied on to control feral pig populations on land under your management)? SR

INSERT THOSE SELECTED AT Q.50

None of the above 8

ASK THOSE WHO USE 1080 TO CONTROL FERAL PIGS (CODE 1 AT Q.50)

Q.39. How many feral pig baiting programs involving use of 1080 have been used to control feral pigs on land under your management in the past 5 years? NUMERIC / SR

___ Feral pig baiting programs involving use of 1080 in the past 5 years

Don't know / can't say DNRO 1

ASK THOSE WHO USE 1080 TO CONTROL FERAL PIGS (CODE 1 AT Q.50)

In a typical year, approximately how many individual 1080 baits are used to control feral pigs on land under your management? NUMERIC / SR; READ OUT

___ Individual 1080 baits

Don't know / can't say DNRO 1

ASK THOSE WHO USE 1080 TO CONTROL FERAL PIGS (CODE 1 AT Q.50)

Which of the following 1080 baiting methods are used to control feral pigs on land under your management? MR; READ OUT

Ground baiting 1

Aerial baiting 2

Don't know / can't say SR; DNRO 3

OFFICIAL

ASK THOSE WHO USE 1080 TO CONTROL FERAL PIGS (CODE 1 AT Q.50)

To what extent do you agree with the following statements about the use of 1080 baiting to control feral pigs on land under your management? SR PER ROW; READ OUT "E.G. IS THAT STRONGLY OR MILDLY AGREE"?

	Strongly agree	Mildly agree	Neither agree or disagree	Mildly disagree	Strongly disagree
The use of 1080 is essential to effectively control feral pigs					
I am concerned about the welfare impacts of using 1080 to control feral pigs (i.e. that the feral pigs suffer)					
I am concerned that the use of 1080 to control feral pigs is a threat to domestic pet dogs					
I am confident that native wildlife is not harmed by the use of 1080 to control feral pigs (i.e. no off-target species impact on native wildlife)					

ASK THOSE WHO USE 1080 TO CONTROL FERAL PIGS (CODE 1 AT Q.50)

Q.40. If 1080 was no longer available for use, which of the following are you likely to do **MORE** of (or start doing) to control feral pigs on land under your management? MR; READ OUT

More exclusion fencing 1

More sodium nitrite baiting (active ingredient in HOGGONE) 2

More aerial shooting 3

More ground shooting 4

More trapping 5

Other (specify) 6

Other (specify) 7

Other (specify) 8

None of the above DNRO 9

OFFICIAL

ASK THOSE WHO USE 1080 TO CONTROL FERAL PIGS (CODE 1 AT Q.50)

Q.41. If 1080 was no longer available and you had to use other methods, to what extent do you believe that feral pigs would be **effectively controlled** on land under your management? SR; READ OUT

Very effectively controlled 1

Somewhat effectively controlled 2

Not effectively controlled 3

ASK THOSE WHO USE 1080 TO CONTROL FERAL PIGS (CODE 1 AT Q.50)

Q.42. What do you believe would happen to the number of feral pigs on land under your management if 1080 could no longer be accessed and you had to use other methods to control populations? SR; READ OUT

Increase significantly 1

Increase moderately 2

Increase marginally 3

No change 4

Decrease marginally 5

Decrease moderately 6

Decrease significantly 7

Don't know / can't say DNRO 8

ASK THOSE WHO USE 1080 TO CONTROL FERAL PIGS (CODE 1 AT Q.50)

Q.43. If 1080 was no longer available and you had to use other methods to control feral pigs, what do you think the impact would be on the following on land under your management? SR PER ROW; READ OUT "E.G. IS THAT VERY POSITIVELY OR SOMEWHAT POSITIVELY IMPACTED"?

	Very positively impacted	Somewhat positively impacted	Neither positive or negative impact	Somewhat negatively impacted	Very negatively impacted	Don't know	Does not apply (n/a)
Native flora (plants)							
Native fauna (animals)							
The welfare of livestock							
Your commercial interests (e.g. viability, profitability)							
Your mental health							
The welfare of feral pigs themselves							
The cost of controlling feral pigs							

Additional attitudes

ASK ALL

Q.44. The following statements ask about your attitudes toward 1080 baiting in general (i.e. not in relation to any specific pest animals) on land under your management.

To what extent do you agree with the following statements about the use of 1080 baiting? SR PER ROW; READ OUT "E.G. IS THAT STRONGLY OR MILDLY AGREE"?

	Strongly agree	Mildly agree	Neither agree or disagree	Mildly disagree	Strongly disagree	Don't know / can't say
Non-lethal control methods are a viable alternative to 1080 baiting						
Alternatives to 1080 baiting are commercially viable						
The positives of 1080 baiting outweigh the negatives / downsides						
1080 baiting has more negatives / downsides than alternative pest animal control methods						
Ceasing the use of 1080 baiting would negatively impact biodiversity						
Ceasing the use of 1080 baiting would negatively impact commercial viability						
The use of 1080 should be phased out						

Demographics

And finally, just a couple more questions about you, so that we can understand how different people have answered these questions. As this is market research, it is carried out in compliance with the Privacy Act 1988 and the information you provided will be used only for research purposes.

ASK ALL

Q.45. How old are you? SR; READ OUT IF PREFERRED

18-29.....	1
30-39.....	2
40-49.....	3
50-59.....	4
60-69.....	5
70-79.....	6
80-89.....	7
90+.....	8
Rather not say DNRO.....	9

ASK ALL

Q.46. Approximately what year did you first obtain a 1080 and PAPP endorsement on your chemical user permit? NUMERIC / SR

.....	1
Don't know / can't say DNRO.....	2

ASK ALL

Q.47. What gender do you identify with? SR; READ OUT IF PREFERRED

Male.....	1
Female.....	2
Non-binary.....	3
Another gender (please specify):.....	4
Rather not say.....	5

Thanks

Thank you for assisting us today. Your response to this questionnaire will be kept strictly confidential and will be used only for research purposes.



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