

PPT of source data for site scores [DOC-7218034](#)

Auto data: Site prioritisation process	TNN name	NPCP name for the site
	Key fauna and plants	A list of 64 taxa have been identified as key species for management under the programme. These columns indicate which species are to be managed as key species for each site. Separate columns for fauna species (one column for all Powelliphanta spp), one column for all key managed plant species. NPCP management at each site is designed to protect the key species as a priority.
	Benefit species	Threatened species at the site, further to any key species for that site, that NPCP management is designed to protect. Generally the pest management, optimised for the key species, will meet the recovery/protection needs of the benefit species. Where the optimal pest control needs differ between key species and benefit species priority should be given to the key species.
	rank	Site ranking based on the overall site score that is based on species score, management score, and forest score (See DOC-7218034)
	Hectares_air	Area in hectares of aerial treatment required
	treat.freq.air	Annualised aerial treatment frequency. -For mast sites (see below) this is based off of an estimate of mast frequency, the number of treatments per mast (1 or for some sites 2 treatments in some mast events), and the time to aerial retreatment if a mast did not occur. -For non mast sites this is based on the planned retreatment interval
	Hectares_ground	Area in hectares of ground treatment required
	treat.freq_ground	Annualised ground treatment frequency
	mast.site	Site is classed for aerially applied treatment as either: "non-mast" =aerial treatment timing and frequency will not be determined by masting (prevalent forest type/target pest dynamics/species vulnerability do not require it) "mast" = aerial treatment frequency and timing will be for managing predator irruptions from mast events. 1 aerial treatment per mast event. "mast2"= aerial treatment frequency and timing will be for managing predator irruptions from mast events . 2 aerial treatments <u>may be</u> required per mast event
	non.mast.return	Number of years between aerial treatments for non-mast sites; for mast/mast2 sites this figure is the number of years until retreatment in the absence of any mast response.
	forest_score	Forest score value (see DOC-7218034) based on vulnerability, condition, size & shape
	forest_score_wo_area	Forest value score without the effect of area
	spp_score	Species score value (see DOC-7218034) based on threat score, population score and vulnerability score
	Payed by others (%)	Percentage of the treatment cost paid for by others (not DOC)
Manual data: Manually entered advice/planning information	Aerial treatment type	The aerial operation treatment frequency and timing advice (one of 7 types) for the site. This is based on the forest type/pest dynamics. The linked document describes the approach, advised timing and rationale, expected efficacy and limitations.
	Target pest(s)	Pests that must be controlled to protect the key managed species, benefit species, forest values (possum vulnerable). Pests that must be controlled to protect the key species should be indicated in bold.
	Key Species	A list of 64 taxa have been identified as key species for management under the programme. These columns indicate which species are to be managed as key species for each site. Separate columns for fauna species (one column for all Powelliphanta spp), one column for all key managed plant species. NPCP management at each site is designed to protect the key species as a priority.
	Outcome target(s)	SMART target(s) for the key managed species, benefit species, forest values. These state in a measurable way, what the NPCP is trying to achieve at the site, so monitoring can be undertaken to determine if the purpose of the work is being achieved. Targets for key species are a priority.
	Result target(s)	
	Aerial treatment timing(s)	SMART target(s) for the target pests. These need to describe the pest level(s) (and timing(s)) required to achieve the outcome targets. Timing of aerial treatment required to achieve result and outcome targets (protect the species and/or forest values). The advised timing should provide maximum time period 'window' for aerial treatment where targets can be confidently achieved, but could indicate preferred/ideal and acceptable periods to assist with scheduling of treatment across sites. "mast" and "mast2" sites should have the optimised mast cycle treatment timings expressed. This will depend on the key/benefit species vulnerabilities, pest and mast system dynamics, and irruption magnitude potential.
	Aerial operation triggering information	Suggested thresholds (deltaT or pest relative abundance level) and their timings that trigger the need for aerial treatment in order to achieve result targets.
	Ground control	If ground control is also required in order to achieve the NPCP outcome for the site then describe this: target pest(s), result targets, scale, frequency, timing, basic method.
	Comments/issues to resolve	Identified issues with any of the current content noted here
	Last manual entry date and author	Most recent entry date for manual columns and the person(s) responsible for it.
Benefit species	Threatened species at the site, further to any key species for that site, that NPCP management is designed to protect. Generally the pest management, optimised for the key species, will meet the recovery/protection needs of the benefit species. Where the optimal pest control needs differ between key species and benefit species priority should be given to the key species.	
Result target level	Possums	Express level as 'RAI [Relative Abundance Index] level of/below/not exceeding XX% RTC [Residual Trap Catch from NPCA/Bionet possum population monitoring method]' The sought level of possum (relative) abundance is expressed in RTC for consistency. Evaluation of possum abundance relative to target levels may be done using other RAI methods and will need to make an estimate of the equivalent level with the actual method used. Operational plans or reports may express target levels in the planned monitoring index level with the estimated equivalence.
		Express level as either % 1-night TTI (Tracking tunnel Index method ~Gillies and Williams methodology) or % 21-night TTI (Method Ref?). The choice of which method to express the target in will depend on the rat abundance range at which sensitivity is required. 1-night TTI has been widely used and is generally sensitive enough for defining sought rat target or threshold levels relating to rat sensitive values in forest systems. 21-night index may be necessary or preferable for resolving relative rat abundance at low levels. This may be required for some highly rat sensitive values (and particularly in alpine systems).
	Rats	Express level as either % 3-night TTI (Tracking tunnel Index method ~Gillies and Williams methodology) or % 21-night TTI (Method Ref?). The choice of which method to express the target in may be decided by the (relative) abundance range at which sensitivity is required, and/or the monitoring plan intentions. 21-night TTI provides a higher level of sensitivity to the presence of stoats at low abundances than the 3 night index. At some sites where there is confidence that outcome targets will be met with a result target level expressed in 3 night TTI it may be OK to continue to use the 3-night index to express the target and for the monitoring.
	Stoats	

[illegible]

Method Best practice for National Predator Control Programme Aerial 1080 baiting

Version 2.0 April 2024

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Introduction

These guidelines provide best practice recommendations for DOC's National Predator Control Programme (NPCP) aerial 1080 operations to be applied at the relevant steps in the Operational planning for animal pest operations SOP [DOCDM-1488532](#). They draw on the existing [Current Agreed Best Practice](#) System and from lessons learned from previous NPCP operations. They have been evaluated and agreed to by the NPCP Technical Advisory Group.

This method best practice guidance applies to operations using aerially applied 1080 cereal pellets to target rats and/or possums and those that also target stoats (through secondary poisoning) as a beneficial by-kill.

Best practice is guidance you should follow unless you have very good reason not to. Unlike SOP standards which must be adhered to, best practice is there to provide the current benchmark for doing a good job but recognises that some adaptation may be required to suit different circumstances. If you think you cannot or should not follow best practice, this is a signal that you need to discuss the issue with technical staff (e.g., NPCP TAG) and managers. Operations in kea habitat are required as a condition of the DOC permission to comply with the standards identified in the aerial 1080 in kea habitat SOP.

Summary

Key elements of this current agreed best practice are summarised in the box below. Each point and variations are further explained in the numbered points following [and identified in brackets in the summary]. The main topic of each numbered point is **bold**.

- **To optimise rat kills, the timing of bait application should avoid mast seeding periods [1.]**
- **Always use 6 gram (16mm) cereal bait single lured [4.]**
- **In normal conditions use 1.5kg/ha prefeed and sow 1.5kg/ha toxic bait as soon as possible after 5 days [5, 6, 8,10, 11, 12].**
- **When possums are >15% RTCI use 2kg/ha prefeed and 2kg/ha toxic bait [7,9.]**
- **A prefeed to toxic bait application interval of up to 8 weeks is acceptable when rat populations are not growing. Toxic bait should be applied within 4 weeks of the prefeed application if rat populations could be growing. If these intervals may be exceeded seek TAG advice to consider if prefeed application should be repeated [13.].**
- **Overlap swathes of bait in both the prefeed and toxic applications by 20m [17.]**

Design

1. Baiting when rats have abundant natural food (e.g., during seed availability periods of beech mast events) risks a poor kill. Rat kills can be optimised by baiting when natural food resources are low, and the population is not growing. These conditions are also likely to result in high mouse kills. Designing operations to ensure that few non-toxic rodents remain (i.e., high kill rates of rats and mice collectively), will help to optimise stoat kills.
2. The aerial 1080 in kea habitat SOP [DOC-2612859](#) includes performance standards that constrain the timing of operations in kea habitat to prevent a stoat irruption. Refer to the aerial 1080 in kea habitat SOP to determine the performance standards that apply to your operation.
3. Be clear about which pests are targeted and why by working through the animal pest framework preparing phase steps 1-5. Advice to support these steps can be found in the Outcomes, Targets and Control Design Spreadsheet ([DOC-7200348](#)). For guidance on legal aspects of **selecting target pests**, refer to technical advice on target pests for aerial 1080 operations [DOC- 2649524](#).
4. The following **bait formulations** are available:
 - Pronature DF ('RS5' (Orillion))
 - Pestex (PCR)
 - Pronature WF (Wanganui No. 7 (Orillion)).
 - Prodeer Possum and Rat Bait (RS5 with deer repellent (Orillion))
 - Prodeer WF (Wanganui No.7 with deer repellent (Orillion))
 - Pestex DR (Pestex with deer repellent (PCR))

Always use 6 gram (16mm) **sized** baits when targeting rats containing 0.15% **1080 concentration** (1.5g/kg) and 0.15% cinnamon **lure** (i.e., single lure). Higher concentrations of lure may reduce the palatability of baits to rats, lower concentration of 1080 may reduce efficacy against possums.

The aerial 1080 in **kea habitat** SOP [DOC-2612859](#) includes performance standards that limit the bait type to only cinnamon-lured Pronature DF (RS5) or Pestex prefeed and toxic baits in kea habitat.

Prefeed application

5. Pre-feeding is compulsory. Use the same **formulation of non-toxic pre-feed** as the toxic bait. Normally pre-feed is un-dyed but it should contain the lure at 0.15%w/w. If pre-feed is dyed it is more easily confused with toxic bait.
6. Apply **prefeed** at an average **rate** of 1.5 kg/ha (250 baits/ha). This rate has proven successful at a range of rat abundances during periods when natural food satiation is not high.
7. When **possums** are at moderate to **high** abundance (>15% RTCI) apply **prefeed** at an average **rate** of 2kg/ha to ensure all possums access prefeed before it is eaten or stashed by other animals.

Toxic bait application

8. Apply **toxic bait** at an average **rate** of 1.5 kg/ha (250 baits/ha), unless possums are at moderate to high abundance.
9. When **possums** are at moderate to **high abundance** (>15% RTCI) apply **toxic bait** at an average **rate** of 2kg/ha (333 baits/ha). This should improve the chances of possums encountering a second bait before the onset of poisoning symptoms.

Timing – prefeed and toxic

10. **Toxic baiting** should occur no sooner than 5 days **after prefeeding** but as soon as possible after 5 days. This should allow enough time for prefeed to be fully consumed and/or cached so rodents encounter only toxic bait on the ground and not a mixture of prefeed and toxic which would allow them to compare baits and reject toxic.
11. Operations should consider **forecast weather** and logistics of both prefeed and toxic operations at the time a decision is made to go with prefeeding. Prefeed will require reasonably good weather after it has been laid with a maximum of 20mm cumulative rainfall forecast at the site over the first two nights.
12. **Toxic bait** should be available for at least 2 **fine nights** (defined as not more than 10mm cumulative rainfall over the nights) immediately following application. Application should only take place if the weather forecast indicates there is a very high probability of this. When toxic bait application will occur over more than 1 day the weather forecast will also need to indicate 2 fine nights beyond the last day of application. Analysis of operational results indicates that fine 2 nights is a sufficient interval for rats to find and consume the toxic bait while it remains in good condition (both toxicity and palatability).
13. Long delays in laying toxic bait after prefeeding can lead to rodents not being exposed to prefeed and therefore much less likely to accept and consume toxic bait in lethal

quantities. Repeating the prefeed after long delays may be necessary to achieve high kill rates.

The impact of delays on rat kill rates will depend on the rats' natural food supplies/hunger. Measuring food supplies/hunger is tricky, and a useful proxy is the rate of population growth at the time.

If rodent populations are not growing (as expected during low food conditions when operations should ideally occur), application of toxic bait within **8 weeks** of the prefeed should ensure high bait acceptance and kill rates. Seek TAG advice if there are anticipated delays beyond 8 weeks under these conditions.

If rodent populations are growing or could be growing then TAG advice should be sought if there are anticipated delays in toxic bait application beyond **4 weeks** of applying prefeed.

Planning and pre-operational tasks

14. Minimise **exclusion zones** within the block wherever possible or treat them by other methods. Untreated areas will leave survivors.
15. **Coordinate with monitoring** staff to ensure aerial application area, exclusion zones and the location of monitoring lines are compatible. If established tracking tunnel lines fall into and near un-baited areas, the data collected from them cannot be used in result analysis. Pre and post result monitoring (for rodents) should be within 6 weeks of the toxic bait application.
16. Bait quality must be high when it reaches the rat. This means taking good care of the bait from point of manufacture to point of sowing at the site. Refer to the label for advice on storage and shelf life. **Bait handling best practice** is in [DOCDM-636448](#)
17. **Calibration** trials with the correct bait size are required to determine the appropriate bait sowing swath width of each individual bait bucket used. The appropriate **flight path spacing** for your operation is determined by the effective swath width of the bucket used minus 20 metres. Flight path spacing should be stated in the Helicopter Statement of Works. See guidelines for bucket calibration for more information [DOC-2827796](#).

Analyses of all past operations suggest that where flight path spacing is 90% of calibrated useable swath, we get better results. A minus 20m standard is pragmatic to apply. For example, a 160m flight path spacing is close to 90% of a 180m swath. Such an overlap reduces the likelihood of gaps in bait coverage due to wind or bucket swing which would not be mapped by GPS recording.

18. The ideal **bucket design** should:
 - Produce a consistent swath pattern and constant rate of spread whether full or near empty.
 - Be a purpose-built bait bucket, and use a spinner specifically designed for distributing cereal pellets.
 - Have a proven, reliable system for the pilot to start & stop bait sowing (e.g., bucket on/off switch is interfaced with the GPS system) which minimises the risks of bait gaps undetectable in the GPS data and sowing bait outside the treatment area.
 - Have an agitator to maintain constant flow of baits going into the spinner.

- Be easy to clean with no places for 'stray' baits to collect and accidentally drop outside the treatment area.
 - Have an easy to open and secure cover for use when the loading site is outside the treatment area. This prevents bait loss out of the top of the bucket when flying outside the treatment area.
19. **Spare buckets** and associated equipment should be available on site during the operation to minimise downtime due to blockage or breakdown.
 20. Someone with expertise in GIS and knowledge of how flight paths are flown must be present throughout bait application. It is essential to **download and check bait coverage** regularly throughout the operation (e.g., during pilot rest breaks) to identify gaps in bait coverage or over-sows requiring further action.
 21. Use available **guidance** on choosing and setting up a **helicopter loading site** [DOC-1560571](#) to ensure safe and efficient operation of the loading site.

Bait application days

22. Use available **guidance** on **managing aerial baiting operations** [DOC-2651365](#) to ensure bait is applied correctly and necessary data is captured.
23. **Avoid gaps** in coverage. Total bait coverage is required to achieve high rat kills because gaps allow rats to avoid treatment.
24. **Avoid** baiting in **gusty winds** where possible. Accurate bait application is achieved in average wind speeds up to 20 km/h (11 knots). Operating in higher winds may be necessary as trade-offs are made between present and forecast weather conditions and seasonal timing of the operation. In higher winds bucket swinging and bait drift can result in gaps in the coverage or risk bait being applied beyond treatment boundaries. Maintaining a steady ground speed (which affects sowing rate) can be more difficult with headwinds/tailwinds.
25. Maintaining **constant ground speed** is critical to achieving consistent sowing rates.
26. Lower **flight height** that can be achieved safely and reasonably will reduce the risk of leaving gaps. Discuss with pilot. Wind affects where bait lands, this effect is greater when bait is sown from higher, despite it looking better on the GPS.

Glossary

Terms used in the text of this document are defined here. These definitions are extracted from Animal Pests SOP Definitions and FAQs DOCDM-51708 where a more comprehensive list of definitions can be accessed.

Aerial application area

The area over which bait is to be aerially applied. This is the shape file given to the pilot to be flown. May have exclusion zones or no fly zones within its perimeter. It doesn't include the areas of the buffers.

Aerial application boundary

The boundary of the area where bait is to be aerially applied. May be buffered in from the treatment area boundary.

Airspeed

The velocity of the aircraft through the air when flying.

Boundary sow

Sowing bait near and parallel to the aerial application boundary with a full swath or a deflector bucket. This technique is used to cover the ends of sow lines where there may be gaps in coverage. It can also be used to move sow lines further away from sensitive boundaries. Sometimes referred to as 'parallel sow', 'headland run' or 'boundary run'.

Bucket gate

The mechanism on the sowing bucket which controls bait flow from the hopper to the spinner. Normally this system is linked to the GPS Navigational guidance to record sow lines when the gate is open.

Buffer (aerial application)

An area where bait is not to be applied aerially, but if bait is unintentionally applied there is no breach of permission conditions, i.e. the area between the aerial application boundary and either:

- The treatment area/block boundary
- The boundary of an exclusion zone
- The boundary of a no fly zone

Buffer zone (hunting)

The area **outside** the boundaries of the treatment area from which meat for human consumption should not be procured.

(The definition from the Animal Products Notice: Specifications for Products Intended for Human Consumption is "the land situated between the boundaries of an area of land that has been exposed to poison and an area of land where it is acceptable for animals to be procured, measured as a straight line on a horizontal plane".)

Deflector bucket

A bait sowing helicopter bucket modified to only allow bait to be spread to one side of the flight line.

Exclusion zone

An area that is within the treatment boundaries of an operation, but which is excluded from the operation – i.e. no pesticides are laid within the exclusion zone.

Flight corridor

Designated area between the loading site and the aerial application area which all helicopters with buckets must use when travelling between the two.

	Corridors are generally only necessary where the loading site is outside the Treatment area but can also be identified for transiting between treatment blocks.
Flight line	Line of travel by the helicopter recorded by GPS regardless of whether or not the bucket is sowing
Flight path spacing	Distance between sow lines set as a parameter into the GPS. This distance is decided on with reference to the useable swath of the bucket being used.
Flow rate	The rate at which baits pass through the bucket aperture onto the spinner. This figure affects sowing rate. See 'Guidelines for aerial 1080 baiting#1 Bucket calibration' DOC-2651373 for further detail on how it is measured.
Ground speed	The velocity of the aircraft over the ground. This figure affects sowing rate.
Maximum swath	Identified during bucket calibration, this is the maximum distance baits are thrown at right angles to the flight line multiplied by 2. See 'Guidelines for aerial 1080 baiting#1 Bucket calibration' DOC-2651373 for further detail on how it is measured. This figure is used to determine flight paths near boundaries.
No fly zone	An area where aircraft may not traverse with a bait bucket. This may be because of a consent condition, consultation agreement or as an operational planning decision.
Over fly	Fly a helicopter with a bucket attached below 500 feet over areas specified in the Treatment Area map as No-Fly zones. This includes flying outside designated flight corridors.
Over Sow	Misapplication of bait outside the Treatment Area or into an exclusion zone
Recorded sow line	The GPS data of flight line recorded when the bucket gate is open (i.e., usually when the bucket is actually sowing bait). Recorded sow lines will be the underlying data for bait coverage maps produced by GIS Analysts.
Safe Handling Sheet	Part of the Safe Handling of Pesticides SOP used in the field to provide standards on handling pesticides and personal protective equipment.

Sensitive boundary	A Treatment Area boundary which is particularly important to avoid over sowing. This could be for various reasons such as risk to livestock, a high public use area or road, relationship risk etc. Usually extra precautions are taken around sensitive boundaries such as increased buffers or trickle/deflector bucket sowing.
Site lead (aerial operations)	The person in charge of an aerial baiting operation during baiting operations. This person has decision making authority over field operations on the day(s) of aerial baiting. It can be the Operational planner, the Incident Controller, or the Air operations manager. Because these terms are not used consistently in DOC operations the term site lead has been developed.
Sow line	Parallel flight path generated by the navigational guidance GPS inside the aerial application area along which the helicopter applies (or sows) bait. Most GPS system number each line for ease of communication. See also 'Recorded sow line'
Treatment area	The area for which permission (DOC and Public Health) is sought or held to apply pesticides. This is the area entered into the DOCgis Pesticides Application and used for public notification. Treatment area boundary has a corresponding meaning.
Treatment area (performance reporting definition)	The area where animal pests are controlled in any one financial year. Total number of hectares, consisting of one or more treatment blocks. It could include the land covered by search effort if that effort was part of controlling them (eg for heli-hunting it means the area you cover and would shoot target species if encountered).
Treatment block	A subset of a treatment area. A treatment area is broken down into treatment blocks when blocks are physically separated or when different management methods are applied. Treatment block boundary has a corresponding meaning.
Trickle bucket	A bait sowing helicopter bucket modified to only allow a narrow bait swathe either side of the flight line.
Useable swath	Identified during bucket calibration, this is the distance most baits reach at right angles to the flight line (at the desired sowing rate) multiplied by 2. See 'Guidelines for aerial 1080 baiting#1 Bucket calibration' DOC-2651373 for

further detail on how it is measured. This figure is used to determine flight path spacing.

Sometimes referred to as 'effective swath'.

Resource links

Aerial 1080 in kea habitat Standard Operating Procedure [DOC-2612859](#) .

Guidelines for aerial 1080 baiting #1: Bucket calibration [DOC-2827796](#).

Guidelines for aerial 1080 baiting #2: Managing air operations [DOC-2651365](#) .

Guidelines for aerial 1080 baiting #3: Considerations for setting up a helicopter loading site for aerial baiting using cereal pellets [DOC-1560571](#)

Operational planning for animal pest operations SOP [DOC-1488532](#)

Target pests for aerially applied 0.15% 1080 Pellets and 0.08% 1080 Pellets: Technical advice for Battle for our Birds 2016 programme [DOC-2649524](#)

NPCP site outcomes spreadsheet [DOC-7200348](#)

Timing of mast-response aerial 1080 in upland masting ecosystems [DOC-7083017](#)

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Document history

Amendment date	Amendment details	DOCCM	Amended by
July 2018	Updating BP	Version 1.5 DOC-2749355	s9(2)(g)(ii)
10/10/18	Approved s9(2)(g)(ii)	Version 1.5 DOC-2749355	s9(2)(g)(ii)
April 2020	Updated	Version 1.6	s9(2)(g)(ii)
6/4/21	New definition in glossary, added table of contents	Version 1.7	s9(2)(g)(ii)
5/7/21	Revised content and formatting following TAG review of latest data	Version 1.8	s9(2)(g)(ii)
15/08/22	Revised content and formatting following TAG review of latest data. Approved by s9(2)(g)(ii) Director Threats (Acting).	Version 1.9	s9(2)(g)(ii)
2 April 2024	Revised content and formatting follow TAG review of latest data.	Version 2.0	s9(2)(g)(ii)
30 June 2025	Updated bait formulations information and changed 1080 in kea habitat COP to SOP.	Version 2.0	s9(2)(g)(ii)