

PROTECTION OF **GRAIN STORAGE** against rodent infestation



Your local reseller

Guide developed by the Technical Service and Development of
De Sangosse Australia

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THE PESTS

Rats and mice have specific characteristics. By identifying the correct species of rodents present on site, you can select the right rodent control products and the best strategy to insure maximum efficacy of the treatment.

ROOF RAT (Black rat / Ship rat)



KEY FEATURES

Body : 15-20cm • **Tail** : longer than the head + body length (different from Norway rat) • **Ears** round and big

INFESTATION INDICATORS

Droppings shaped like « water drops » cylindrical, 1cm long, very dry, black • **Footprints** and tail prints on dust • **Damages** : electrical wires, stored food and gnaw marks.



BEHAVIOUR

Nest **high up** inside buildings, in roof tops, attics, grain storage areas • Does not burrow but build **nests**. **Highly wary and neophobic** • **Food diet**: Fruits, nuts, grain, meat Requires small amount of water

KEY FEATURES

Body : 20-25cm • **Tail** : shorter than the head + body length (different from Roof rat) • **Ears** small

INFESTATION INDICATORS

Droppings shaped like « olive pits », 1.5cm long. Smell of **urine** • Bare tracks in vegetation and burrows • **Damages** : crop damages, electrical wires, gnaw marks, eats and contaminates foodstuffs.



BEHAVIOUR

Lives in humid and dark areas, **water banks**, sewers. **Burrows in embankments and fields** • **Food diet**: Cereals & grain, meat Requires constant supply of water. • Hoards foodstuffs

KEY FEATURES

Body : 6-10cm • **Tail** : longer than the head + body length
Ears : big, pointy

INFESTATION INDICATORS

- **Droppings** shaped like « rice grain », 0.5cm long. Scattered, brown in colour.
- **Urine** very distinctive smell
- **Damages** : crop damages, electrical wires, insulation, eat and contaminates foodstuffs.



BEHAVIOUR

Lives in farms, houses and grain storage. In crops, with conducive conditions population can explode rapidly. **Builds nest and lives in colony**. Can also dig burrows (especially in crops) • **Curious, not wary**
Food diet: Omnivorous, chews on all materials and removes husks from grains.





NORWAY RAT Brown rat / Sewer rat)













MICE



RECOMMENDED PRODUCTS

	ROOF RAT (Black Rat)	NORWAY RAT (Brown rat)	MICE	PRODUCTS KEY BENEFITS
IN AND AROUND BUILDINGS				
 <p>GENERATION BLUE® SOFT BAIT 5kg - Product code: GENBLUE-SB-5500 1.5kg - Product code: GENBLUE-SB-1500 480g - Product code: GENBLUE-SB-480 <i>Difethialone - 25mg/kg</i></p>	✓	✓	✓	Using food grade ingredients and vegetable oil. Sachet allows aroma to escape Highest attractiveness and palatability QUICK KNOCK DOWN with small dose No genetic resistance globally
 <p>GENERATION BLUE® BLOCKS 7.5kg - Product code: GENBLUE-BL-7500 1.2kg - Product code: GENBLUE-BL-1200 <i>Difethialone - 25mg/kg</i></p>	✓	✓		Extended protection Strong attractiveness Ideal for damp environment Best efficacy on Roof rats Central hole for easy securing.
 <p>BROMAKIL GRAIN 15kg - Product code: 200282 4kg - Product code: 200295 2kg - Product code: 200283 500g - Product code: 200287 <i>Bromadiolone - 50mg/kg</i></p>	✓	✓	✓	Highly palatable cracked grain Does not germinate Ideal in environment with high food competition like grain storage facilities sheds, farm, etc.
 <p>BROMAKIL PELLET 3.4kg - Product code: 200296 10kg - Product code: 200288 <i>Bromadiolone - 50mg/kg</i></p>		✓	✓	Single feed pelletised bait. Can be used in burrows. Great efficacy on Norway rats Ideal under floor spaces and in dry areas

IN AND AROUND BUILDINGS - DRY CONDITIONS				
 <p>BROMAKIL SUPER RAT DRINK 500ml - Product code: 200284 5L - Product code: 200286 <i>Bromadiolone - 50mg/kg</i></p>	✓	✓		Concentrated liquid bait Very effective during summer months Ideal in dry environment and where rats rejected other baits

SECURING BAITS					
 <p>GENERATION TUNNEL STATION Product code: GEN-TUN-ST</p>		 <p>GENERATION RAT STATION Product code: GEN-RAT-ST</p>		 <p>GENERATION® MOUSE STATION Product code: GEN-MOU-ST</p>	
 <p>Quick opening and closing system</p>	 <p>PROTECTION Safe for users and non-target species</p>	 <p>PROTECTION Bait is effectively protected from harsh weather conditions, dust and temperature variations...</p>	 <p>STURDINESS Stations are durable, cleanable and re-usable</p>		

Always read label before use.



Recommendations for heavy infestations

The right product in the right place !

Bait station locations are for guidance

(always read the label and product information before use)

LEGEND

RODENTS ACTIVITY INDICATOR



OUR PRODUCTS

- GENERATION BLUE SOFT BAITS
- GENERATION BLUE BLOCKS
- BROMAKIL GRAINS
- BROMAKIL PELLETS
- BROMAKIL DRINK

RATES

- Mice**
- 3 to 5 sachets (10g) per bait station
 - 25 to 50g of grain per bait station
- Rats**
- 10 to 20 sachets (10g) per bait station
 - 100 to 200g of grain per bait station
 - 10-15 blocks (15g) per bait station

BAIT STATIONS

- TAMPER RESISTANT BAIT STATIONS
- In case of high infestations
- Mouse bait stations
- Every 1 to 1.5m
- Rat bait stations
- Every 4 to 5m

ELECTRICAL CUPBOARD

SILOS

Exterior	Roof Rats		
	Norway Rats		
	Mice		
Inside	Roof Rats		
	Norway Rats		
	Mice		

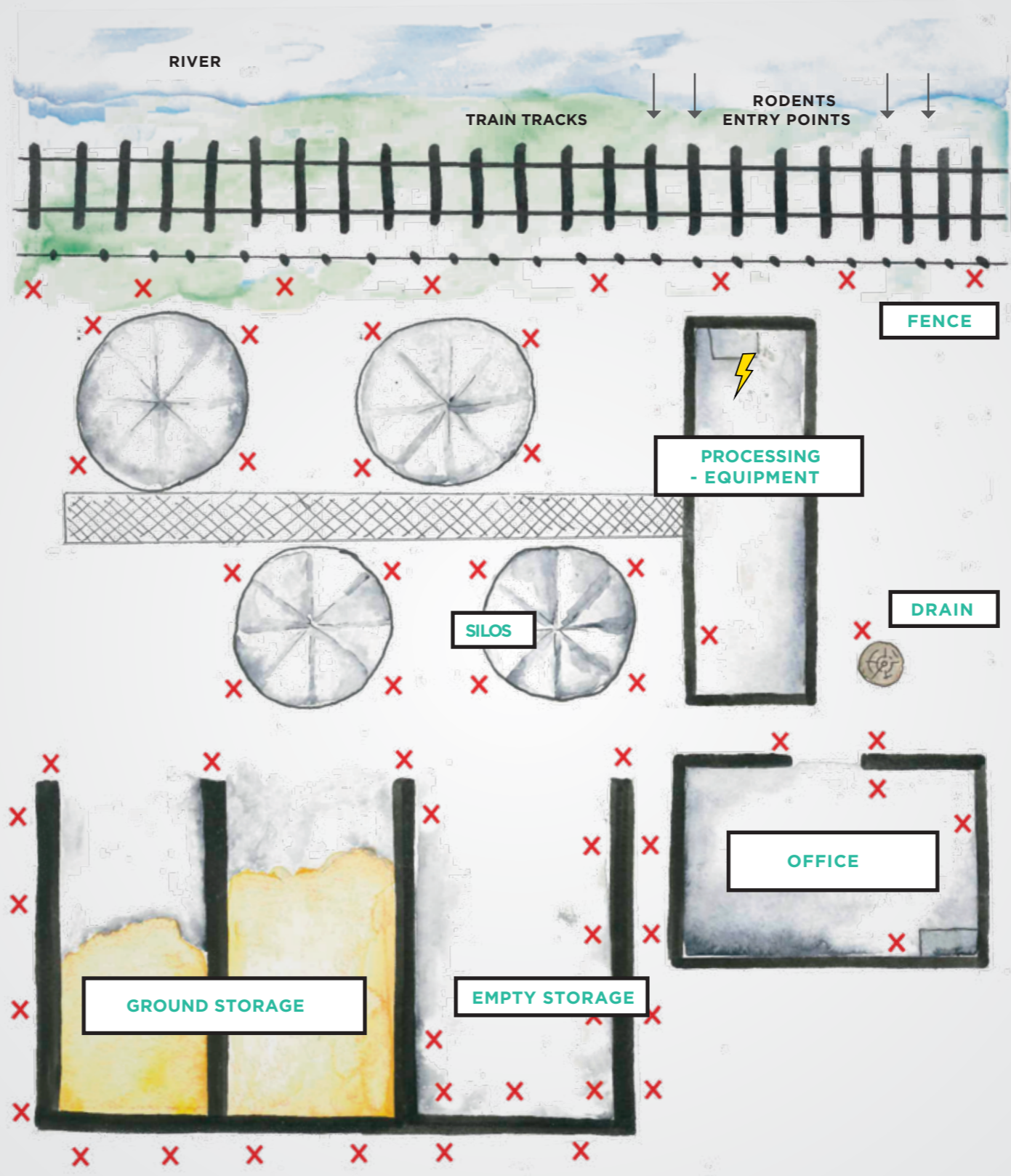
GROUND STORAGE

Exterior	Roof Rats		
	Norway Rats		
	Mice		
Inside	Roof Rats		
	Norway Rats		
	Mice		

Place soft baits sachets in electrical cupboards
Close and lock

EXPERTS ADVICE

- Place baits up high for Roof Rats as close as possible of activity indicators
- Secured baits inside bait stations on rods for better efficacy



FENCE

Exterior	Norway Rats		
	Mice		

DRAIN

Exterior	Norway Rats		
	Mice		

PROCESSING EQUIPMENT

Exterior	Roof rats		
	Norway Rats		
	Mice		
Inside	Roof rats		
	Norway Rats		
	Mice		

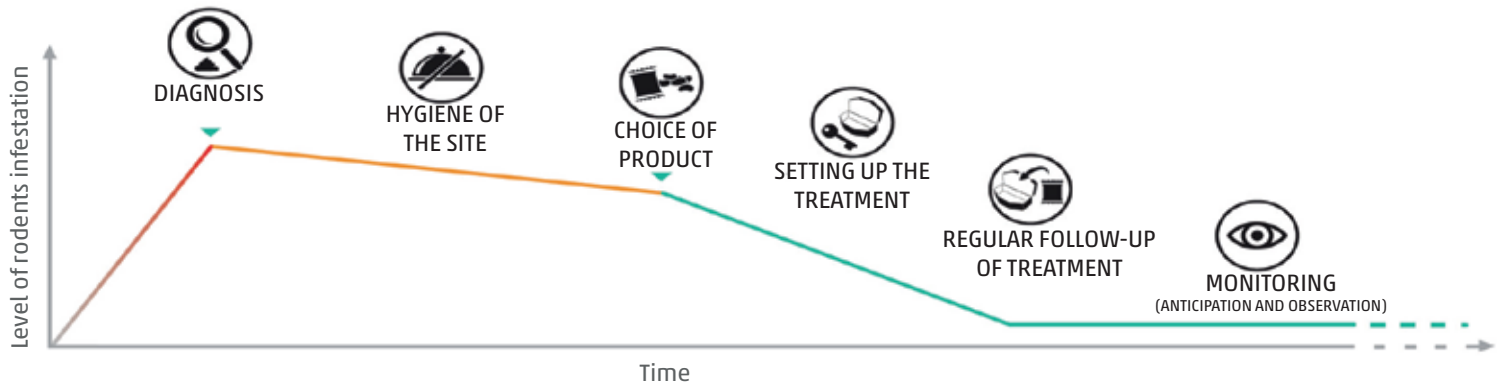
OFFICE

Inside	Roof rats		
	Norway Rats		
	Mice		

In case of ongoing heavy infestations we recommend to seek help from professional pest control operators

KEY STEPS TO EFFICIENT AND SAFE CONTROL

GOOD PRACTICES + GOOD PRODUCT
= SUCCESSFUL TREATMENT



DIAGNOSIS GETTING FAMILIAR WITH THE SITE

- **SITUATIONAL ANALYSIS OF INDOORS AND OUTDOORS AREAS**
- **LOCATE**
 - The most infested areas.
 - Food sources, water points.
 - Rodents' entry points.
- **IDENTIFY RODENT SPECIES**
by investigating signs of activity
- **ASSESS THE EXTENT OF THE INFESTATION**
based upon density of the signs of rodent activity



HYGIENE ON THE SITE PROPHYLACTIC MEASURES

- **REMOVE OR LOCK UP**
all food sources.
- **ELIMINATE COVER AREAS**
trim vegetation 1m from the building,
prune the trees, remove pile of debris.
- **REMOVE ANYTHING THAT MAY BE USED AS SHELTER**
- **UNDERTAKE ANY WORKS NECESSARY TO KEEP**
rodents out and prevent them from settling in



PRODUCT CHOICE

- **ACCORDING TO RODENT SPECIES**
- **ACCORDING TO SITE**
- **ACCORDING TO INFESTATION LEVEL**
- **ACCORDING TO REGULATIONS ON SITE**



SETTING UP THE TREATMENT

- **POSITION THE BAITS**
near places showing rodent activity; we recommend **creating a "layer of protection"** by placing rodents of baits around buildings to prevent rodents entry.
In humid areas, position the bait stations so that water doesn't get in to maximise bait longevity.
- **USE ENOUGH BAITS**
Always read labels and inquire about site restrictions beforehand.
- **PLACE THE BAITS in bait stations for safer control.**



REGULAR FOLLOW UP OF TREATMENT

- **INSPECT THE BAIT STATIONS** a few days after the first application, then once a week until the baits are eaten.
- **REFILL THE BAIT STATIONS** with enough bait in line with conditions of use until baits are no longer eaten.
It is essential to ensure that bait is available at all time (the right dose of the right product at the right place) to cover the entire population.
- **REMOVE ANY BAITS** that may have been pulled out from the station by rodents, discard of any empty sachets and dead rodents to limit risk of secondary poisoning.



ANTICIPATION AND OBSERVATION

**TO CONTROL
INFESTATION OR
RE-INFESTATION
EARLY**