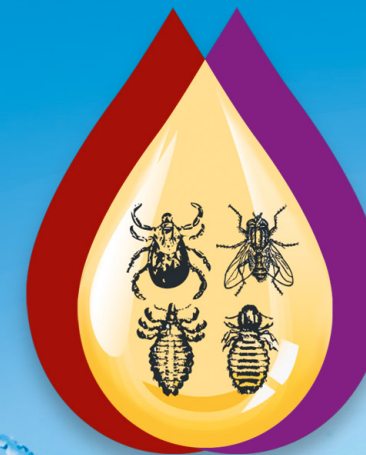


THE VIRBAC SOLUTION

... for comprehensive ectoparasite control



Virbac

Shaping the future of animal health



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS





ECONOMIC IMPACT OF PARASITES

Ticks are the most economically important external parasite of livestock

Heavy tick infestations lead to:

- **Production losses**
- **Mechanical damage**
- **Transmission of diseases**



ECONOMIC IMPACT

TICKS AND TICK CONTROL

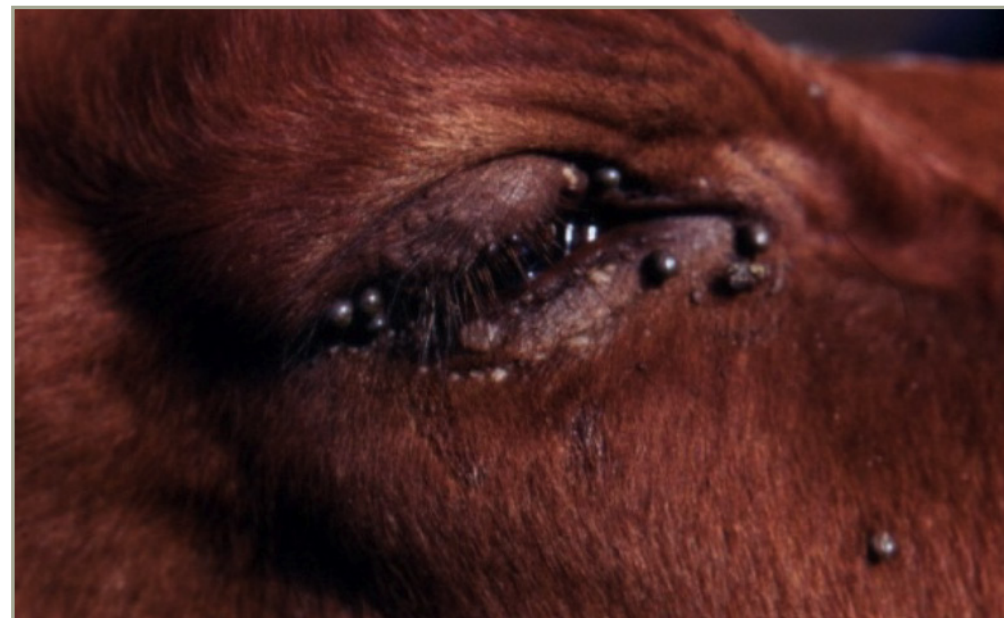
THE PRODUCTS



ECONOMIC IMPACT OF TICKS



MECHANICAL DAMAGE



Tick bite wounds cause:

Skin damage which leads to:

- **Downgrade quality of hides**
- **Damage to reproductive organs**
- **Loss / damage to ears**

Wounds & abscesses which may lead to:

- **Secondary infections**
- **Blowfly strike / miasis**



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



ECONOMIC IMPACT OF TICKS



TRANSMISSION OF DISEASE



Most important and well known tick-borne diseases causing stock losses

- **Anaplasmosis**
- **Redwater**
- **Heartwater**
- **Tick toxicosis**
- **Lumpy skin disease**
(new research)

ECONOMIC IMPACT OF TICKS



PRODUCTION LOSSES

**22 engorging Bont ticks on cow per day
over a 90 day period leads to**



Heavy tick infestations also effects production:

- **Loss of condition**
- **Decreased weight gain**
 - A heavy Bont tick infestation reduce weight gain by a loss of 10 g per engorging female tick on cattle and has shown to reduce milk yield, to the extend that a loss of 6 g live weight gain was recorded in calves per engorged tick on the dams
- **Reduction in milk yield**





Efficient control of ticks enables profitable stock farming

Important factors to consider for a **complete tick control strategy**:

- **Different tick species**
- **Seasonal occurrences of the different tick species**
- **Tick control regimes**
- **Products**



TICKS AND TICK CONTROL

ONE-HOST TICKS

TWO-HOST TICKS

THREE-HOST TICKS



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS





ONE-HOST TICKS

There are 2 different
one-host ticks:

THE BLUE TICK

*Rhipicephalus (Boophilus)
decoloratus*

THE ASIATIC BLUE TICK

*Rhipicephalus (Boophilus)
microplus*



ECONOMIC IMPACT

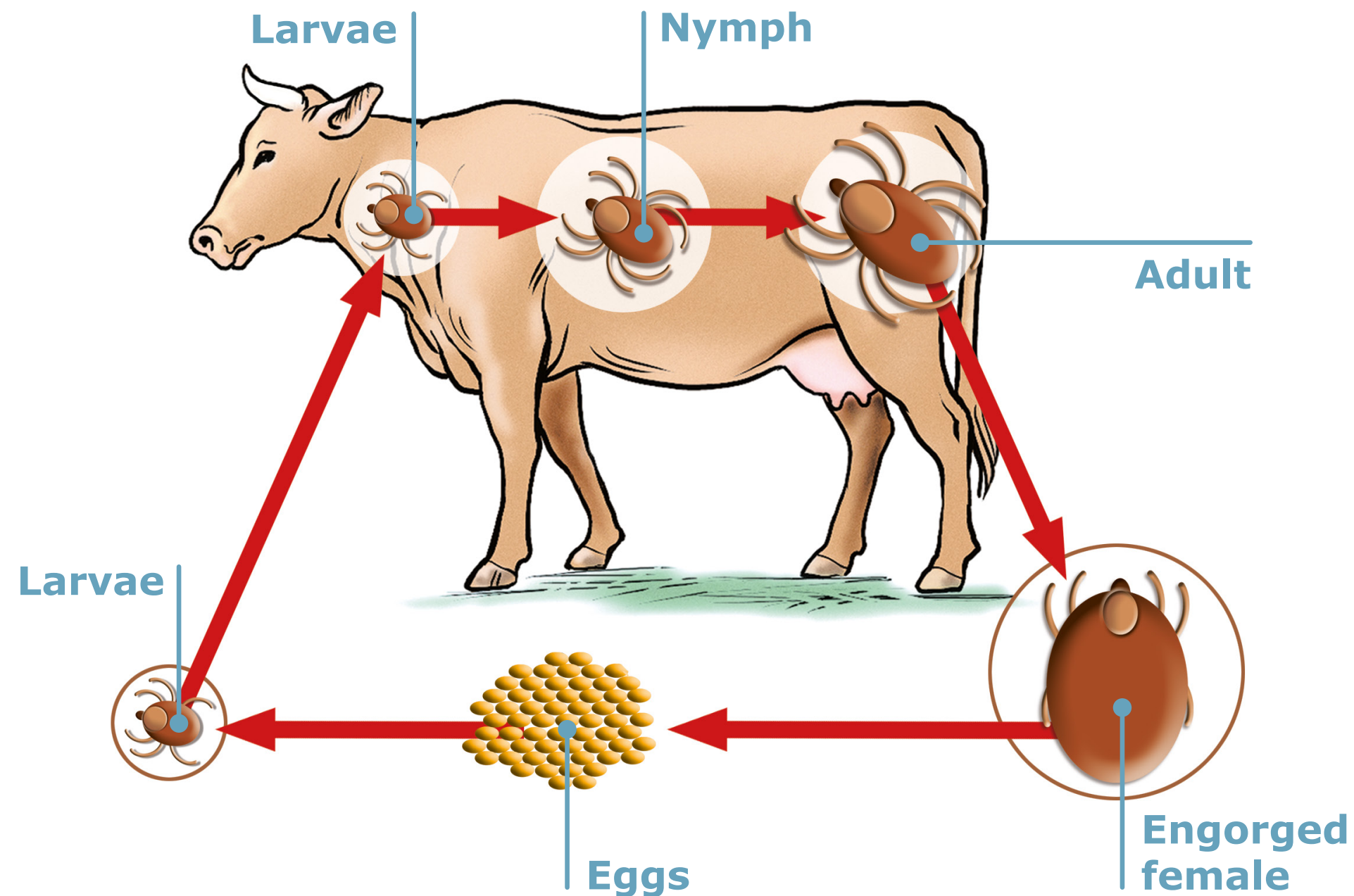
TICKS AND TICK CONTROL

THE PRODUCTS



ONE-HOST TICKS LIFECYCLE

1



ALL THREE STAGES
ON THE SAME HOST

Lifecycle lasts 2 months

- For eggs to hatch: \pm 3 – 6 weeks
- Larvae to adult: \pm 21 days

Female lays 2 500 – 3 000 eggs

**3 – 4 generational cycles can
be completed in 12 months**

**SURVIVAL PERIOD
WITHOUT A HOST**
LARVAE: 8 MONTHS

Adapted from Ticks and tick-borne diseases¹



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



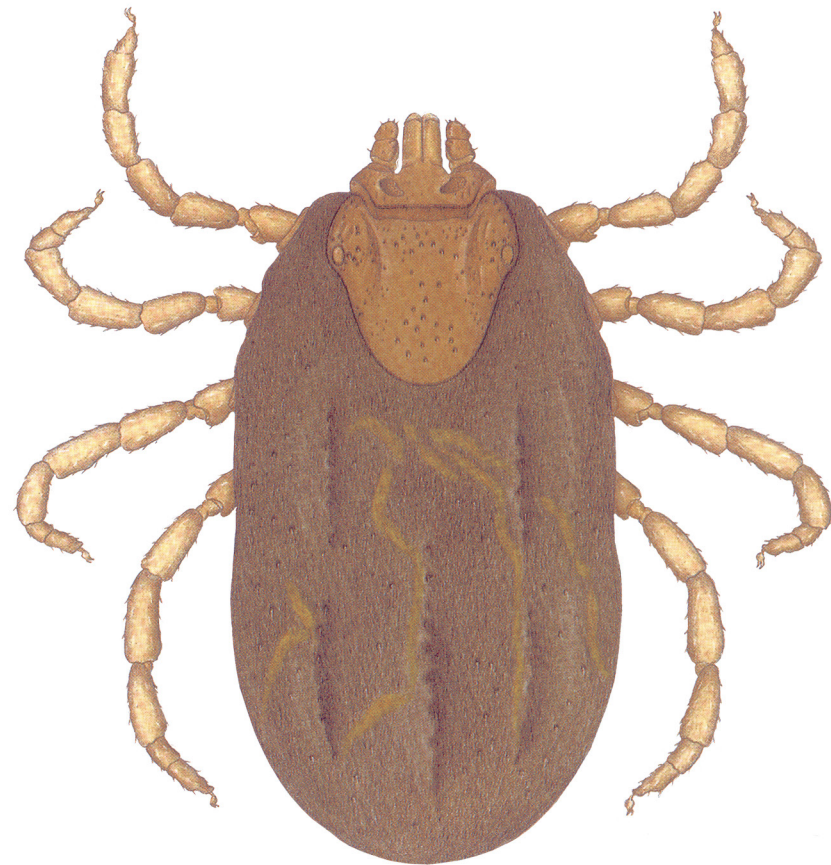
BLUE TICK & ASIATIC BLUE TICK

IDENTIFICATION AND DISEASES

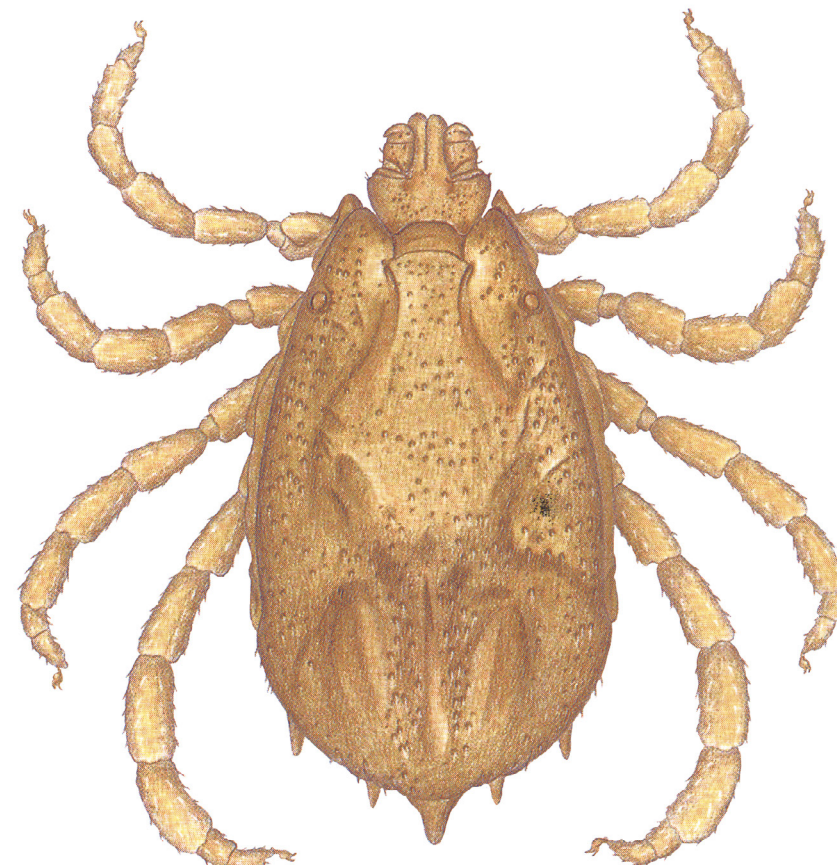
1



ADULT FEMALE



ADULT MALE



DISEASES

- Redwater
- Gallsickness
- Spirocheatosis

Adapted from Ticks and tick-borne diseases¹



ECONOMIC IMPACT

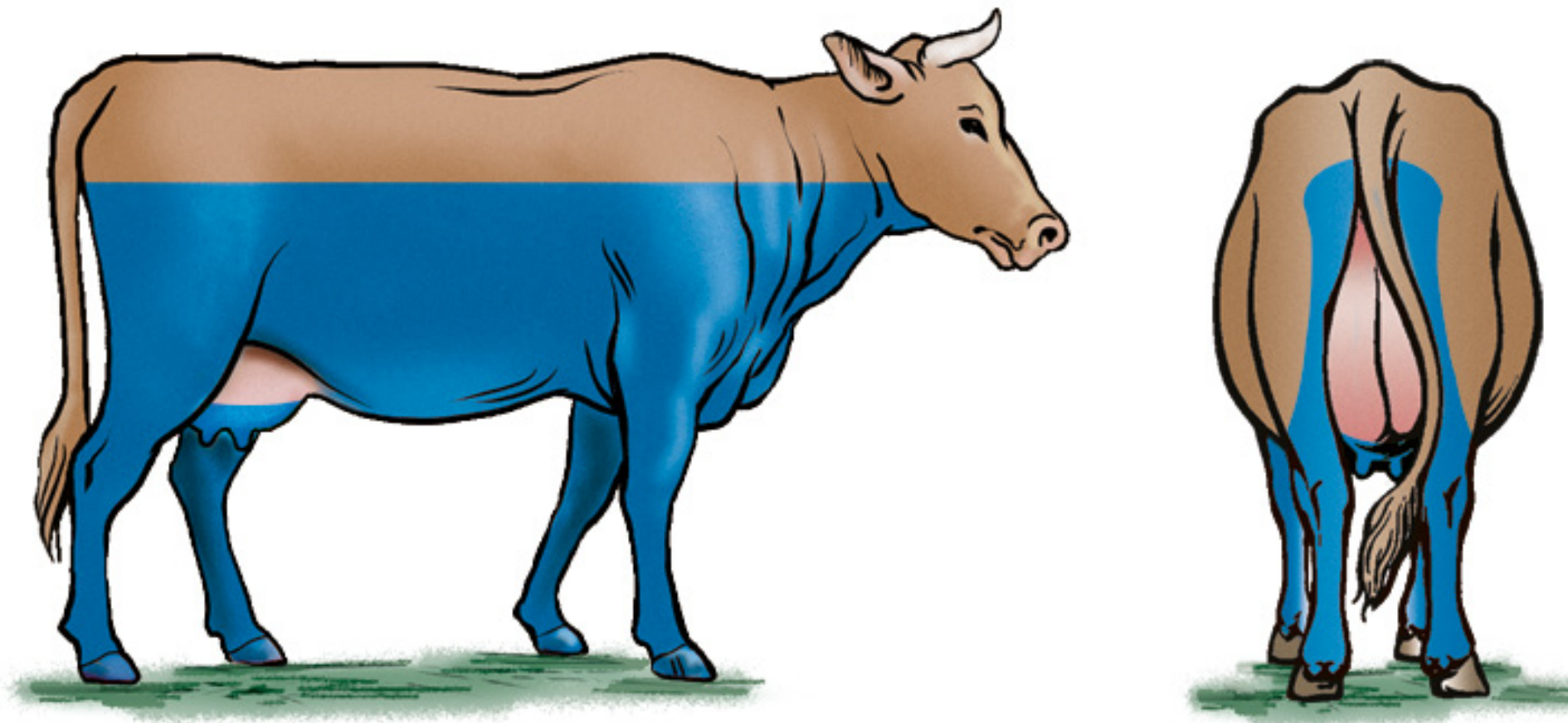
TICKS AND TICK CONTROL

THE PRODUCTS



BLUE TICK & ASIATIC BLUE TICK ATTACHMENT SITES

1



- Neck
- Dewlap
- Lower body
- Escutcheon (udder area)
- Back of head (poll)
- Legs

Adapted from Ticks and tick-borne diseases¹



ECONOMIC IMPACT

TICKS AND TICK CONTROL

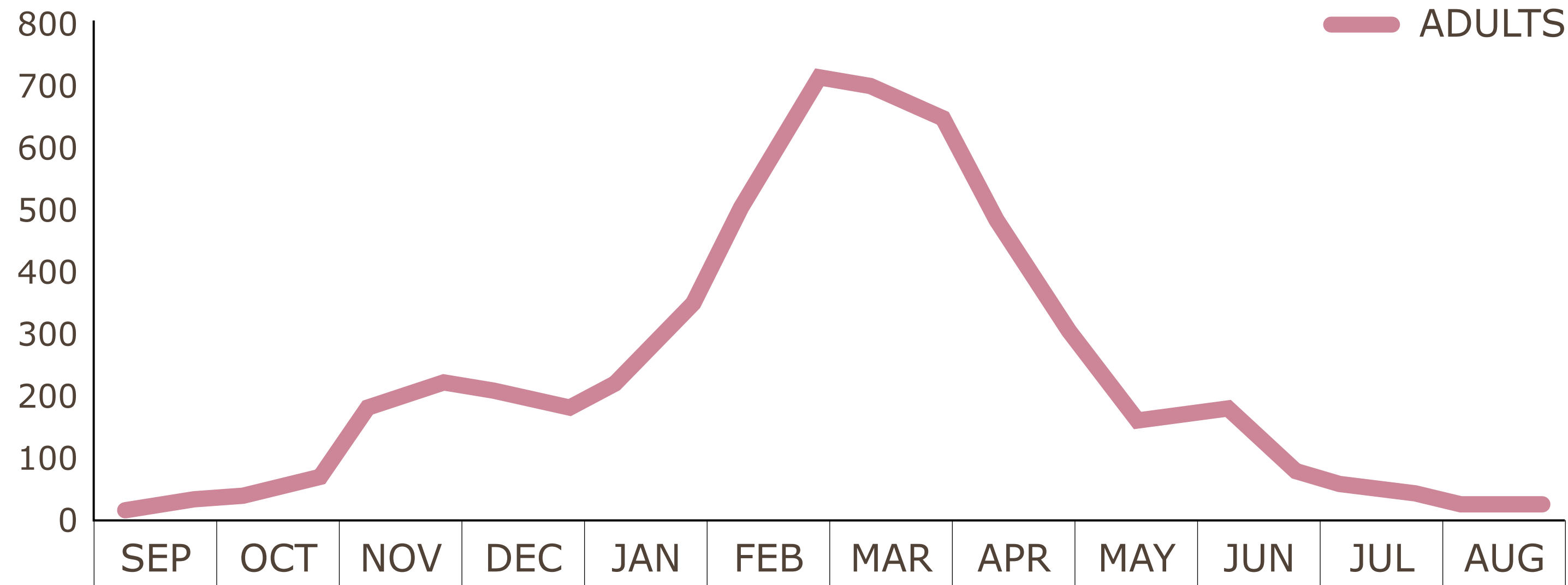
THE PRODUCTS



ONE-HOST TICKS

SEASONAL OCCURRENCE

1



Adapted from Ticks and tick-borne diseases¹



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



VIRBAC SOLUTION FOR ONE-HOST TICK CONTROL

1



- Treat animals in **early spring** to reduce larvae and nymphs
- Follow up with a contact dip when endectocides are used

With high tick challenges or when animals are moved to rested camps:

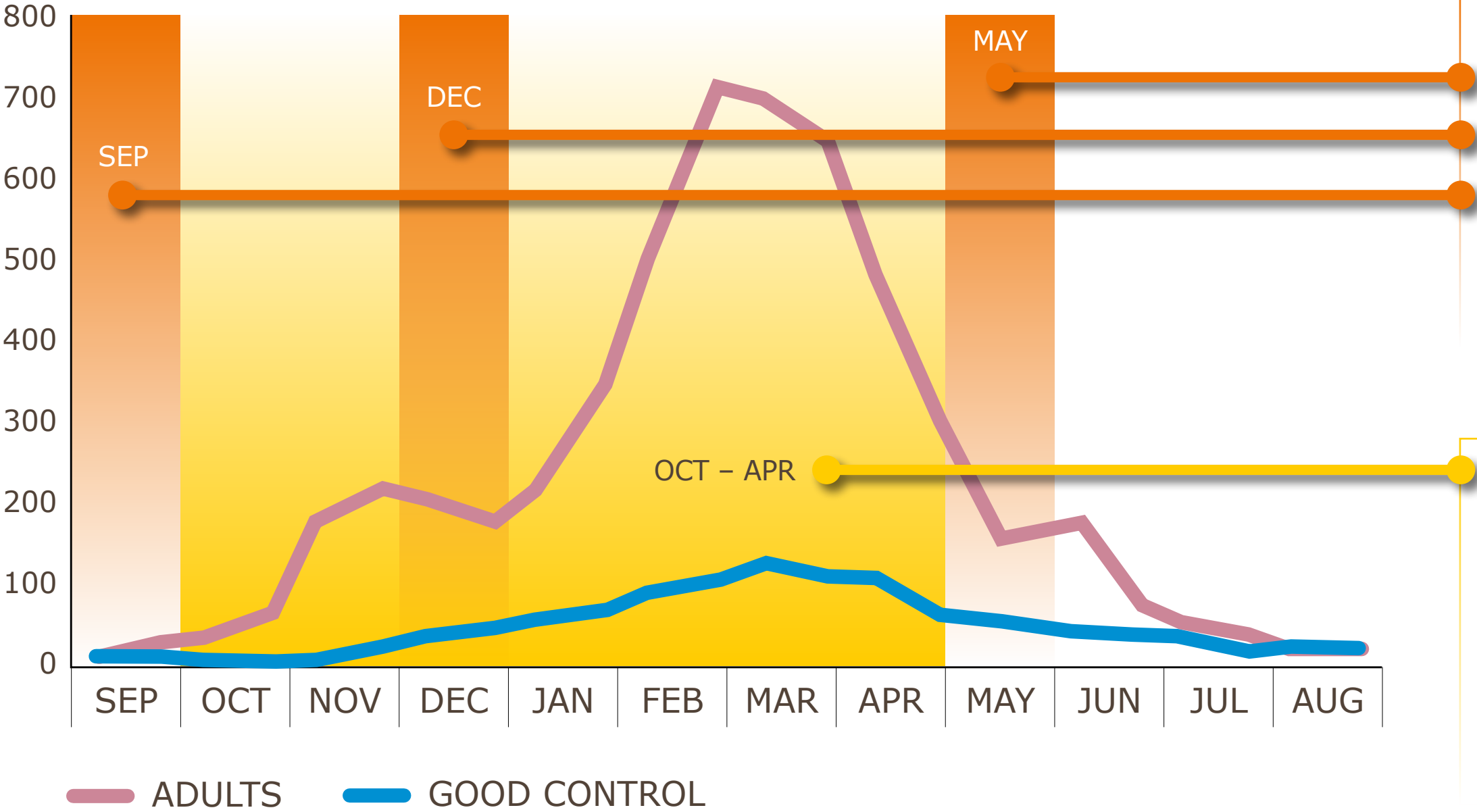
- 1 x per week, dip for 3 weeks
- 5, 5, 4 day dip strategy
- Always use contact dips containing **amitraz**
 - **AMIPOR®**
 - **AMIDIP® MAX / PRO-DIP™ CYP 20 %** combo

VIRBAMEC® LA
ELIMINATE
AMIPOR®
PRO-DIP™ CYP 20 %
AMIDIP® MAX



VIRBAC TREATMENT STRATEGY FOR ONE-HOST TICK CONTROL

1



VIRBAMEC® L
VIRBAMEC® LA
ELIMINATE



AMIPOR®
PRO-DIP™ CYP 20 %
AMIDIP® MAX



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS





TWO-HOST TICKS

There are 2 different
two-host ticks:

BONT-LEGGED TICK

Hyalomma spp.

RED-LEGGED TICK

*Rhipicephalus evertsi
evertsi*



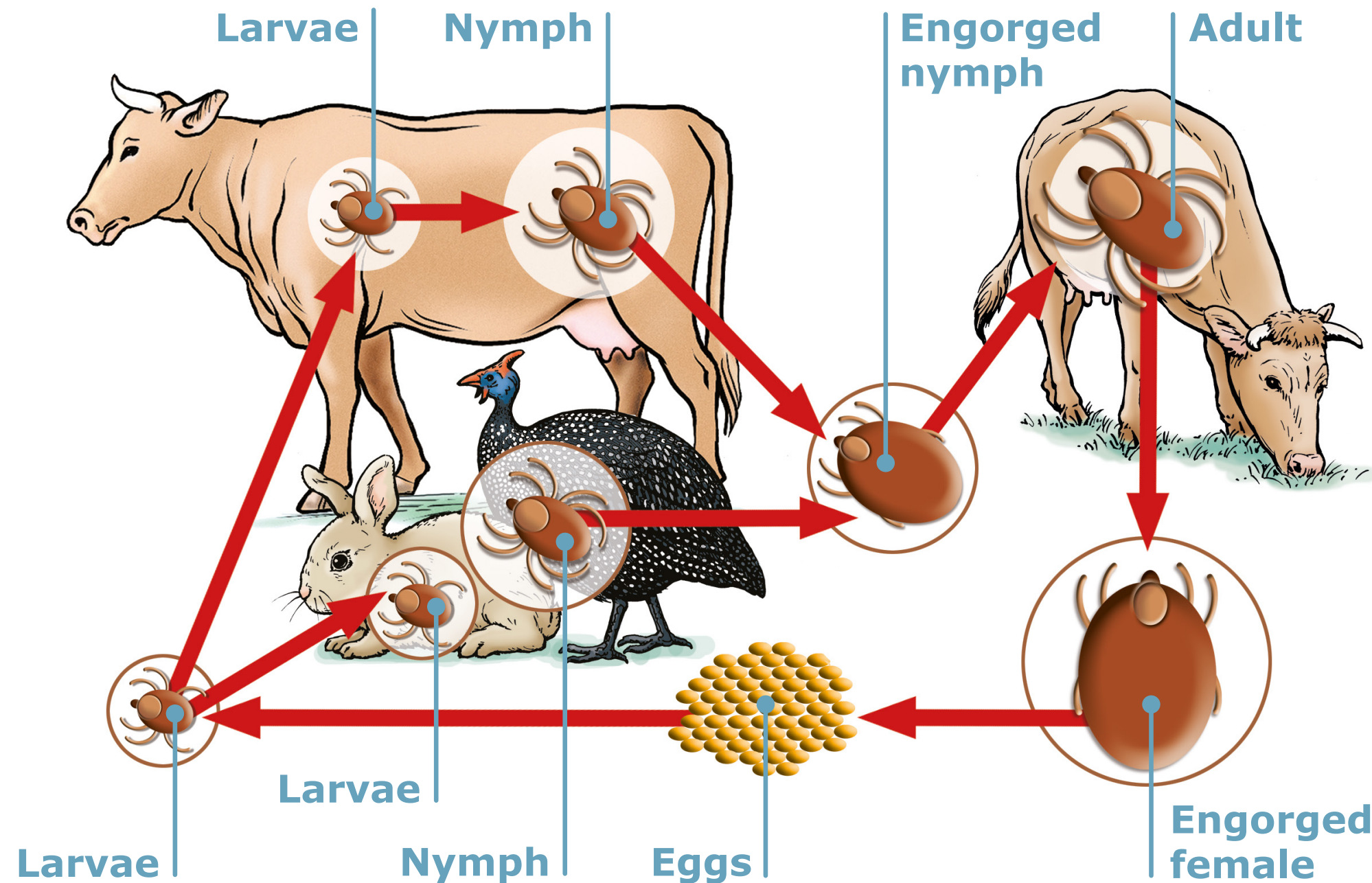
ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



TWO-HOST TICKS LIFECYCLE



THESE TICKS NEED 2 ANIMALS
TO COMPLETE THEIR LIFE CYCLE

- Larvae and nymph stages on the same host
- Adult stage on a different host

BONT-LEGGED TICK

- Lifecycle takes \pm 1 year to complete
- Female lays 10 000 – 15 000 eggs

RED-LEGGED TICK

- Lifecycle takes \pm 4 months to complete
- Female lays 7 000 eggs

Adapted from Ticks and tick-borne diseases¹



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS

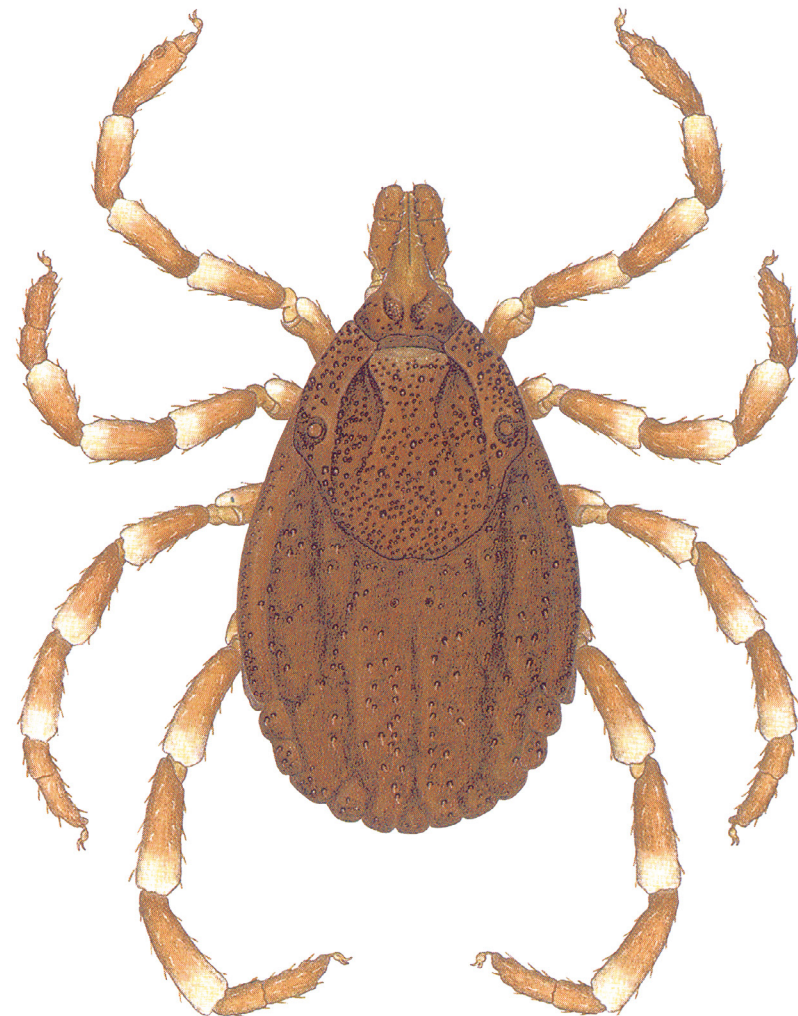


BONT-LEGGED TICK

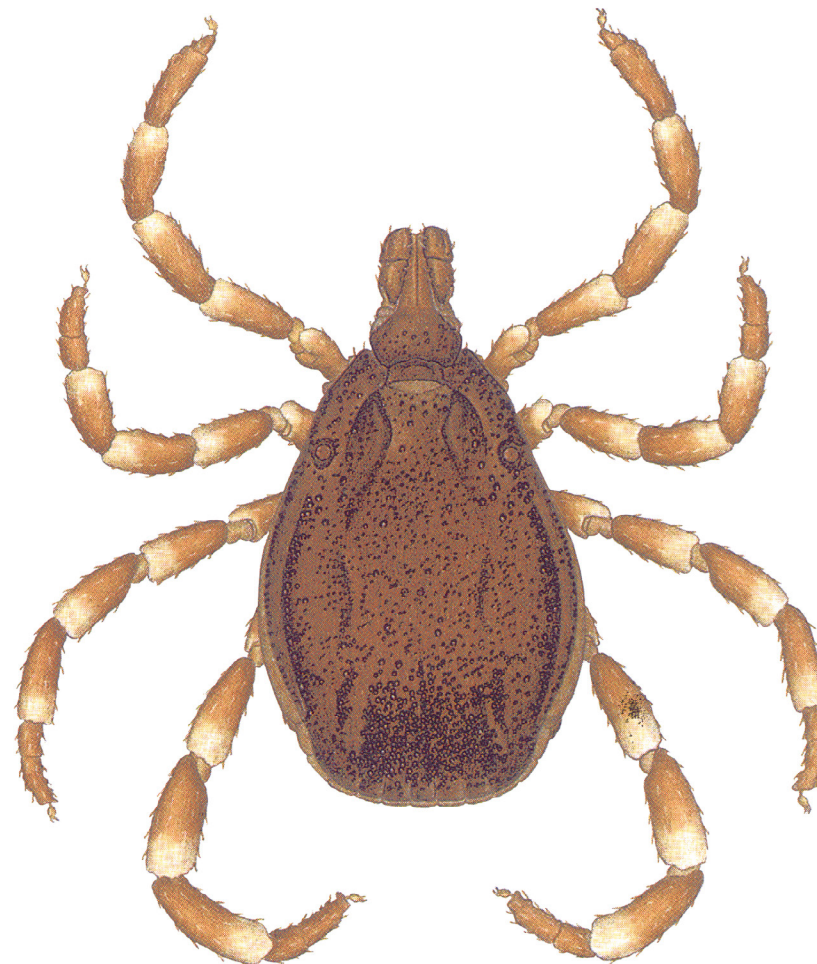
IDENTIFICATION AND DISEASES



ADULT FEMALE



ADULT MALE



DISEASES

CATTLE

- Anaplasmosis
- Severe abscesses
- Sweating sickness
- Secondary infections
- Wounds that attract blowflies resulting in myiasis

LAMBS

- Lameness

HUMANS

- *Rickettsia conori*
(tick-bite fever)

Adapted from Ticks and tick-borne diseases¹



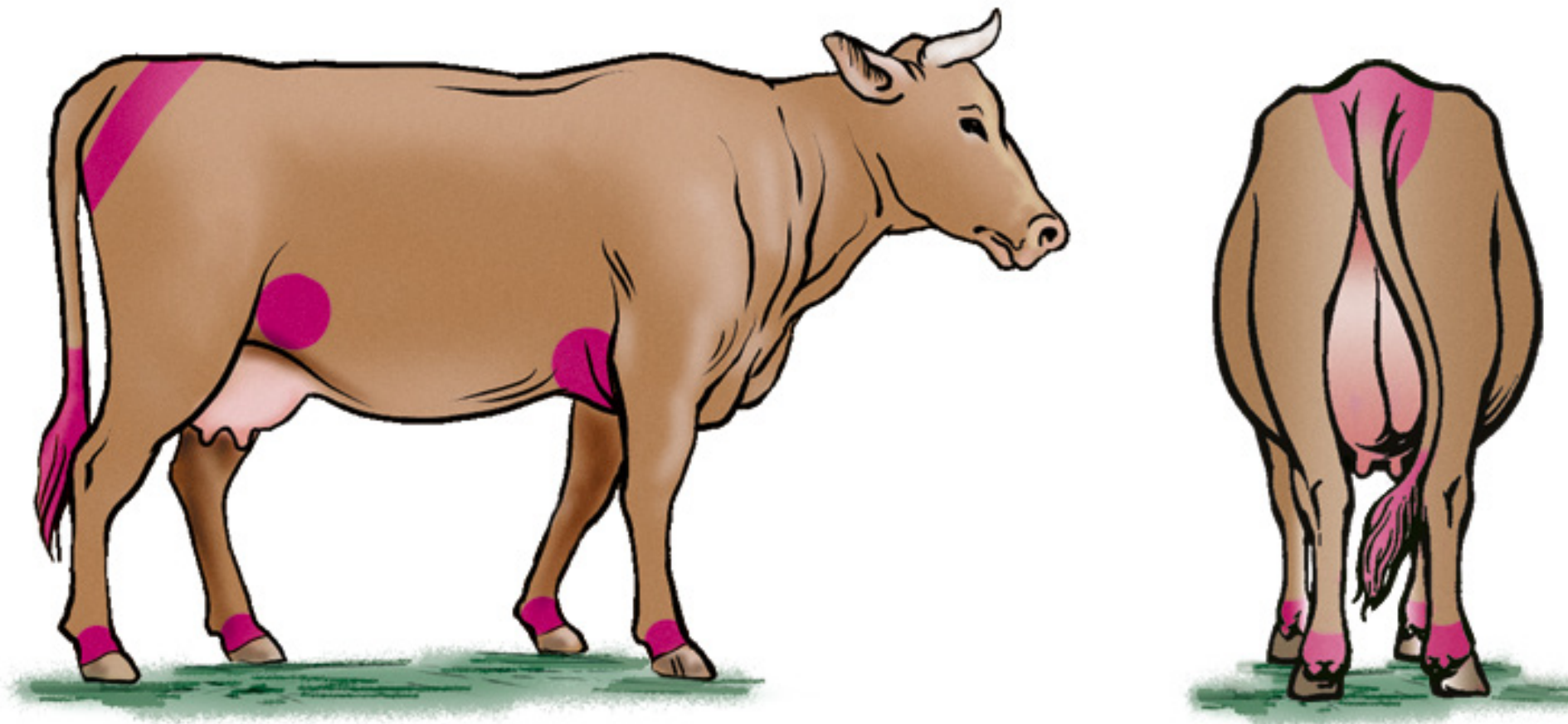
ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



BONT-LEGGED TICK ATTACHMENT SITES



- Anus
- Genitals
- Hocks

Adapted from Ticks and tick-borne diseases¹



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS

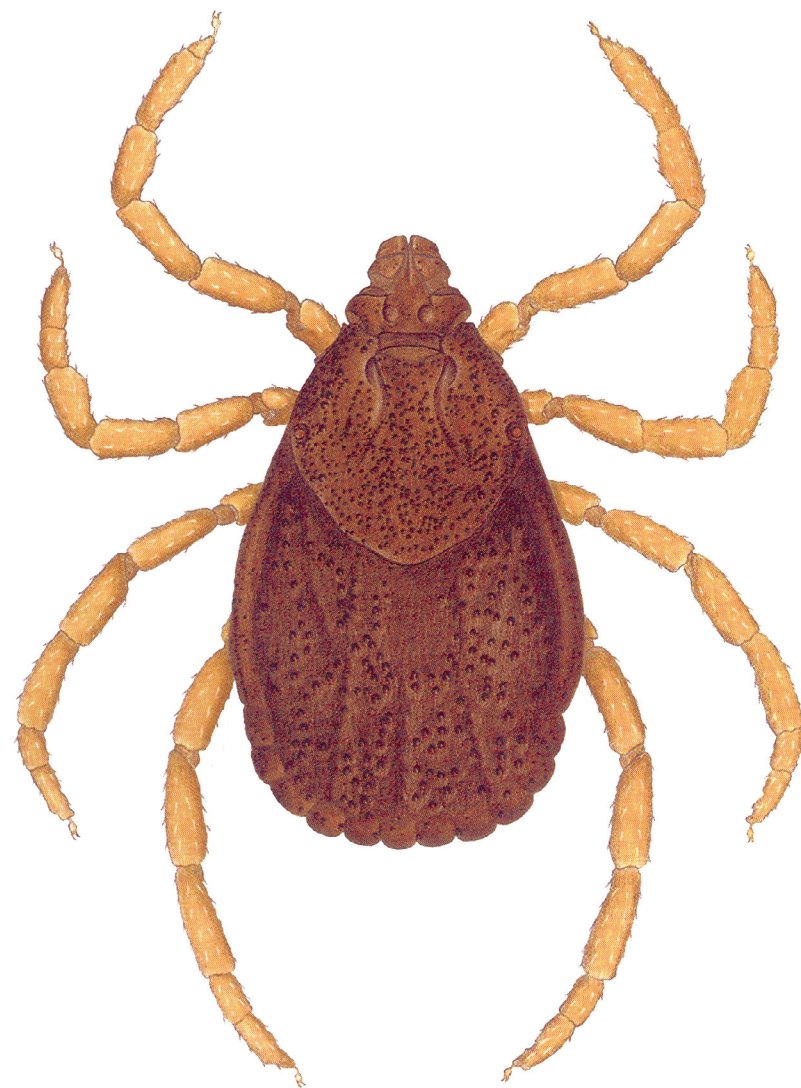


RED-LEGGED TICK

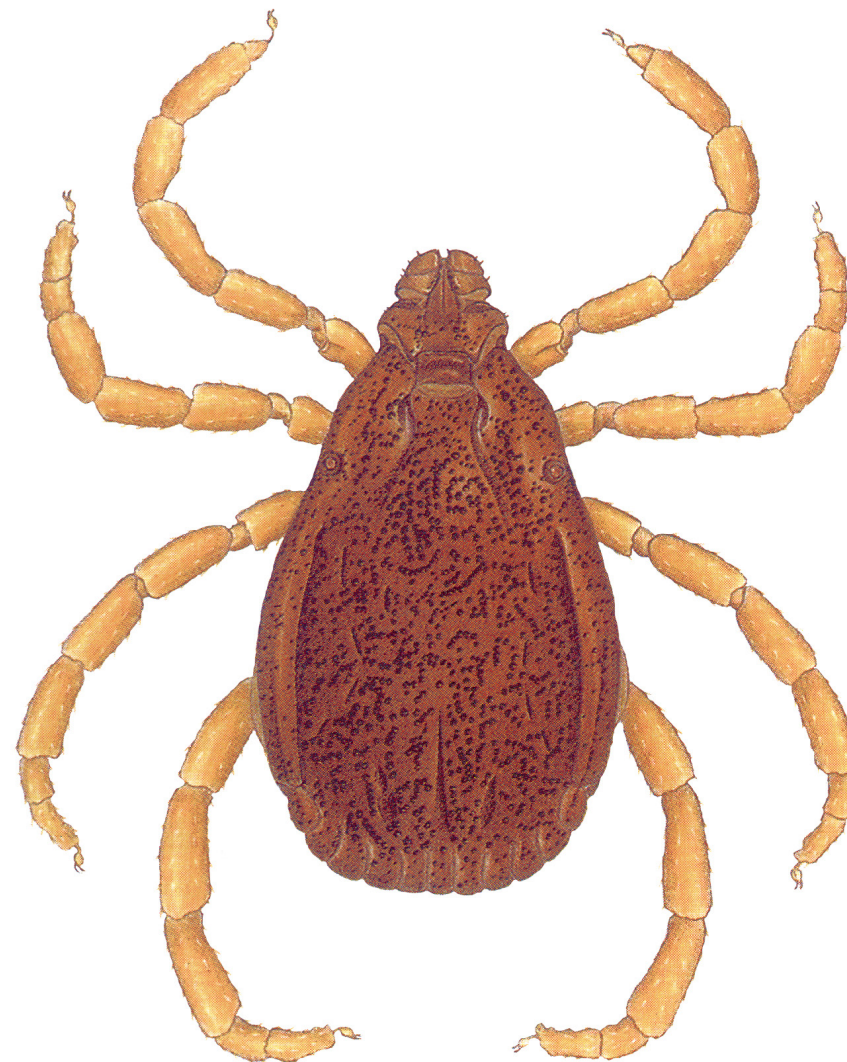
IDENTIFICATION AND DISEASES



ADULT FEMALE



ADULT MALE



DISEASES

- **Gallsickness in horse** (equine) family
- **African Redwater**
- **East Coast Fever**
- **Spring paralysis**
- **Cattle Theileriosis**
- **Anaplasmosis**
- **Spring lamb paralysis – toxicosis**

Adapted from Ticks and tick-borne diseases¹



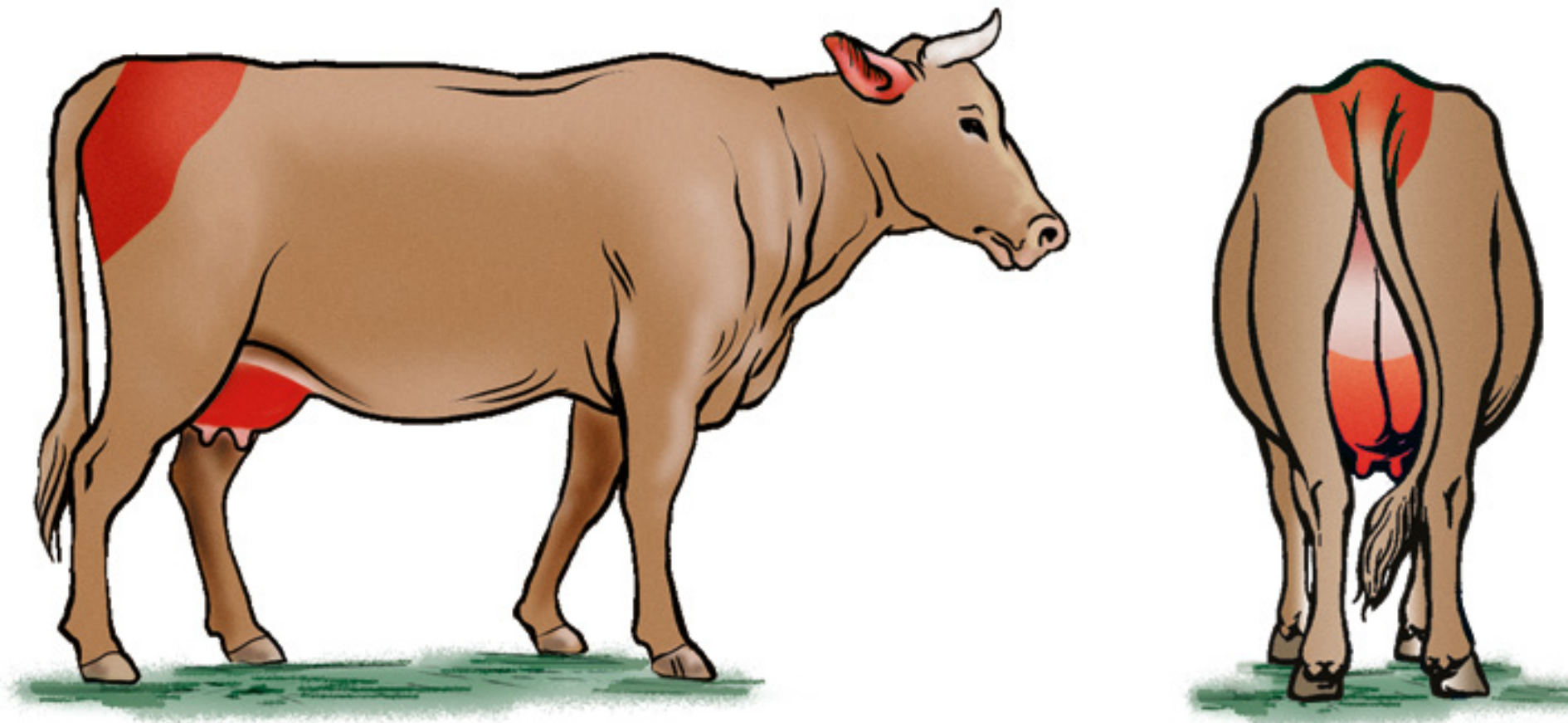
ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



RED-LEGGED TICK ATTACHMENT SITES



Adults:

- Under the tail around the anus
- Flank, axilla
- Sternum

Larvae:

- Deep inside the ear canal

Adapted from Ticks and tick-borne diseases¹



ECONOMIC IMPACT

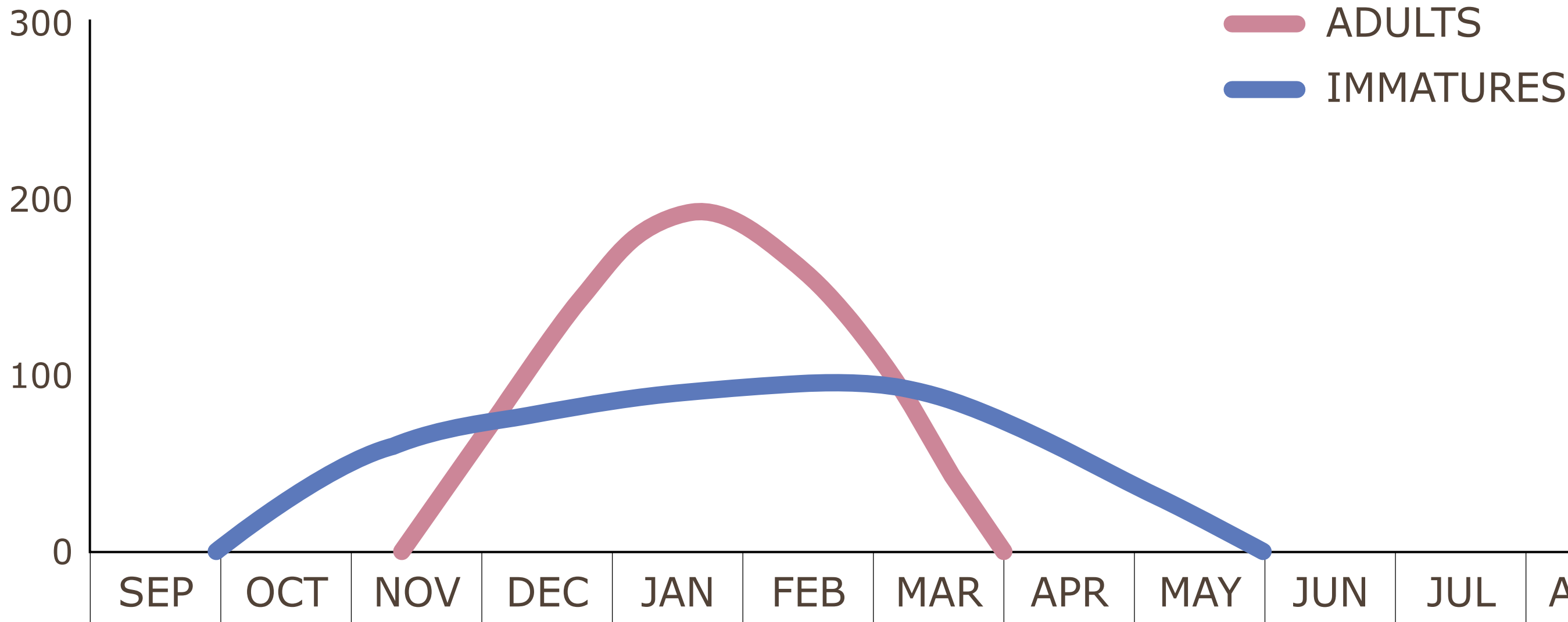
TICKS AND TICK CONTROL

THE PRODUCTS



TWO-HOST TICKS

SEASONAL OCCURRENCE



Adapted from Ticks and tick-borne diseases¹



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



VIRBAC SOLUTION FOR TWO-HOST TICK CONTROL



➤ Dip animals in **summer** to reduce immature and adult stages

➤ Spot treatments can be done frequently

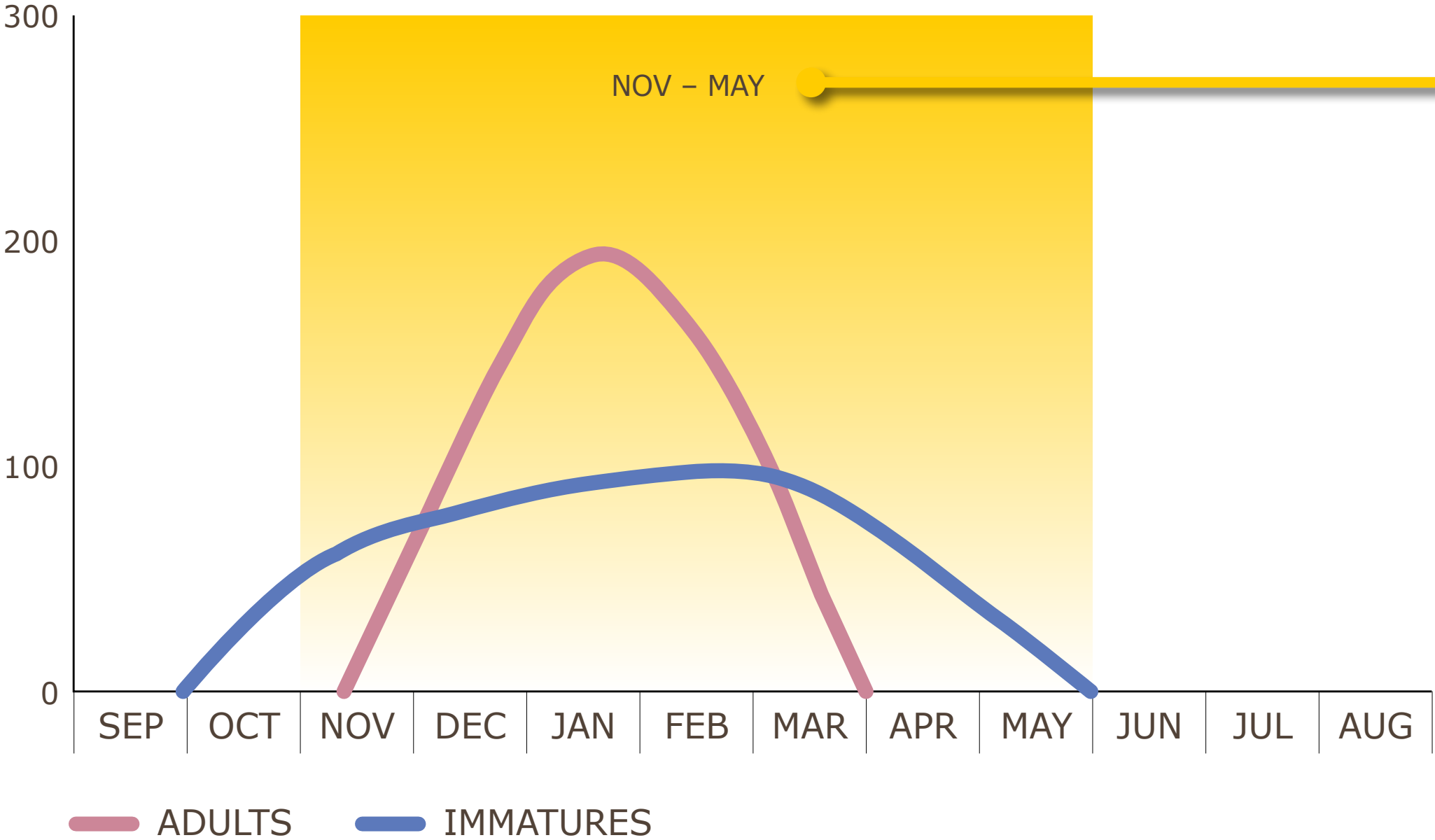
With high tick challenges or when animals are moved to rested camps:

- 1 x per week, dip for 3 weeks
- 5, 5, 4 day dip strategy
- Always use contact dips containing **amitraz**
 - AMIPOR®
 - AMIDIP® MAX / PRO-DIP™ CYP 20 % combo

AMIPOR®
PRO-DIP™ CYP 20 %
AMIDIP® MAX



VIRBAC TREATMENT STRATEGY FOR TWO-HOST TICK CONTROL



AMIPOR®
PRO-DIP™ CYP 20 %
AMIDIP® MAX

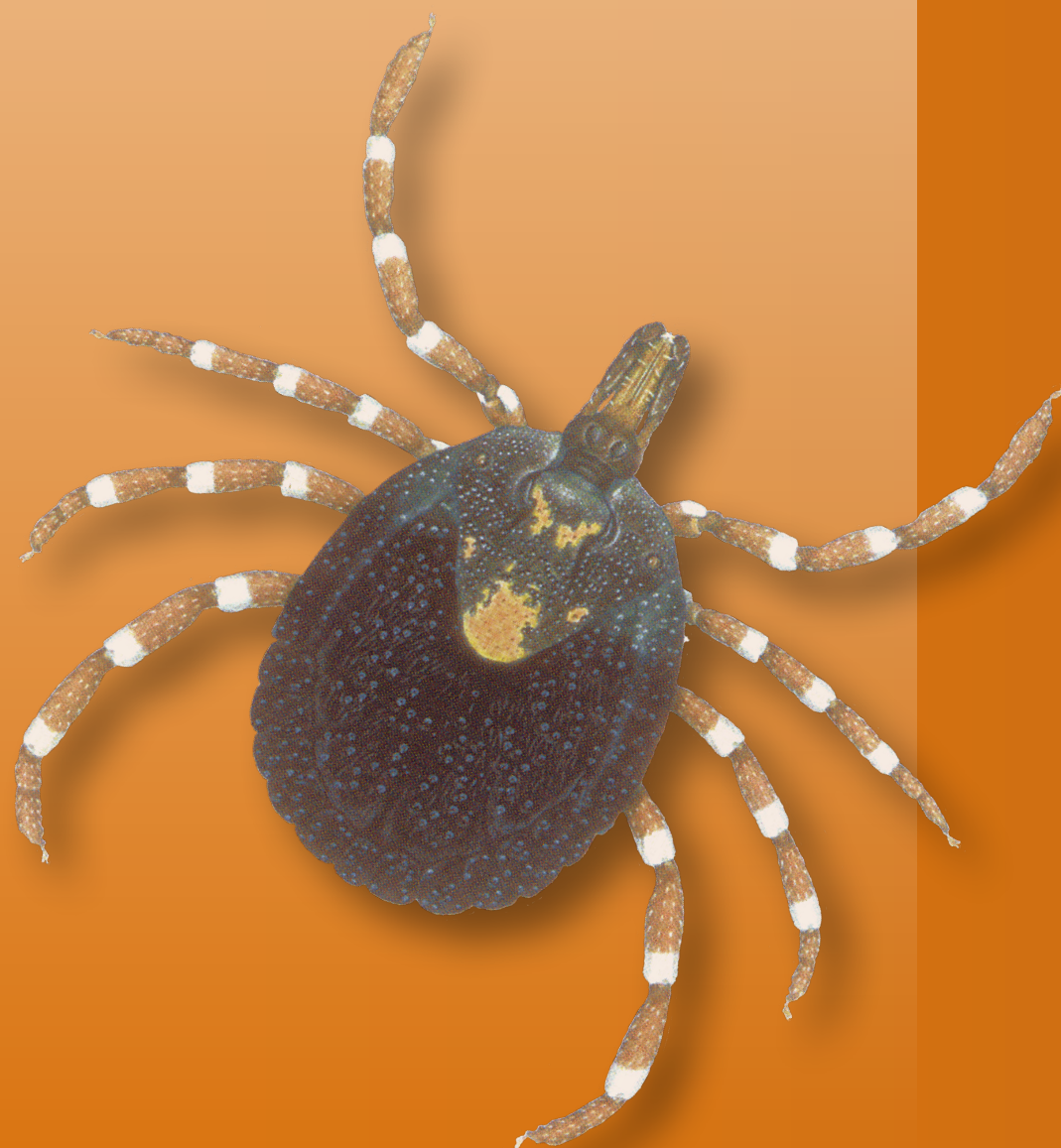


ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS





There are 3 different
three-host ticks:

BONT TICK

Amblyomma hebraeum

BROWN EAR TICK

*Rhipicephalus
appendiculatus*

KAROO PARALYSIS TICK

Ixodes rubicundus



THREE-HOST TICKS



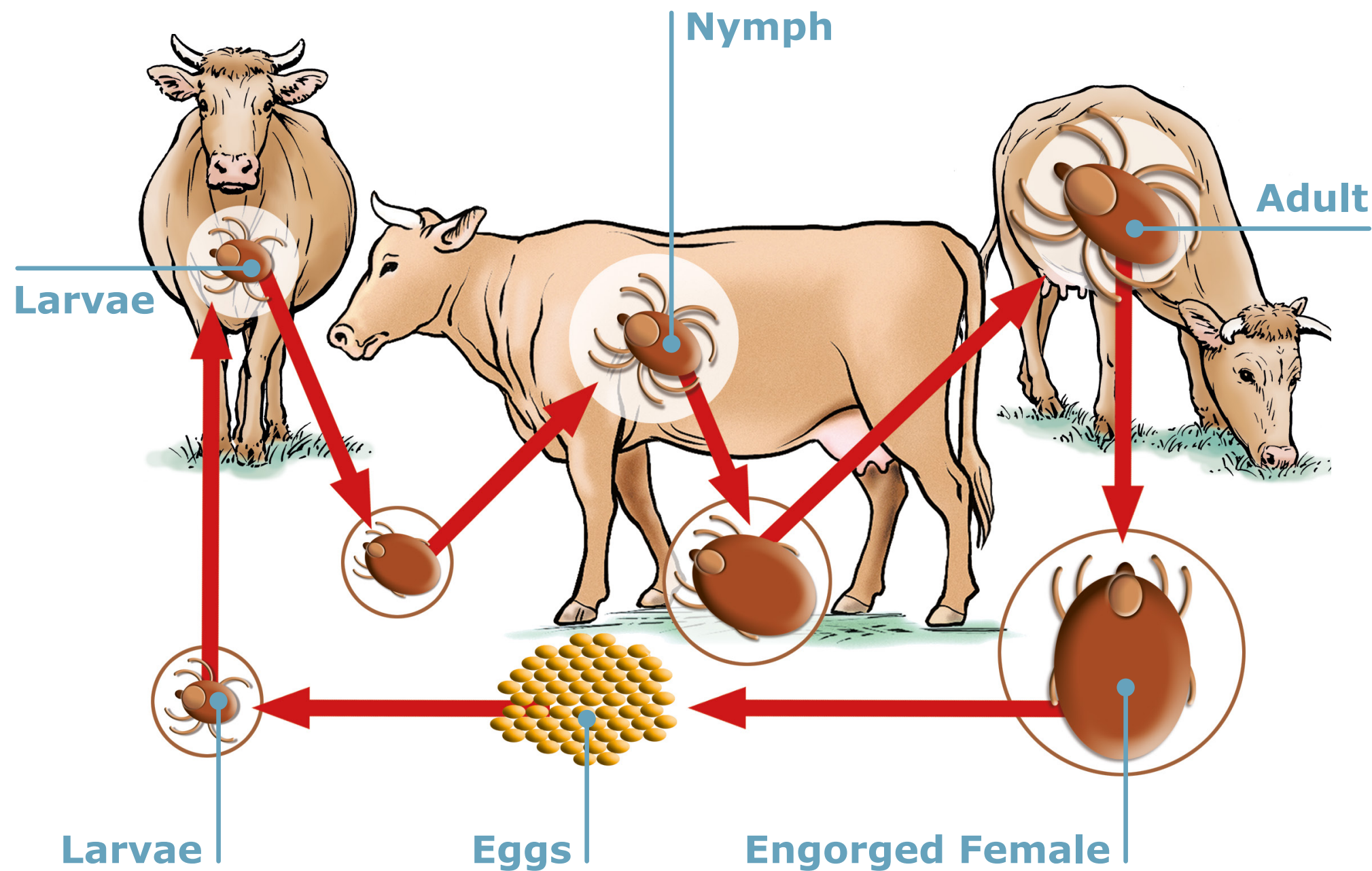
ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



THREE-HOST TICKS LIFECYCLE



THESE TICKS NEED 3 ANIMALS
TO COMPLETE THEIR LIFE CYCLE

- Larvae, nymph and adult stages are on different hosts

BONT TICK

- Lifecycle takes $\pm 1 - 3$ years to complete
- Female lays 18 000 eggs

BROWN EAR TICK

- Lifecycle takes ± 1 year to complete
- Female lays 5 000 eggs

KAROO PARALYSIS TICK

- Lifecycle takes $\pm 1 - 2$ years to complete
- Female lays 2 000 – 4 000 eggs

Adapted from Ticks and tick-borne diseases¹



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



BONT TICK

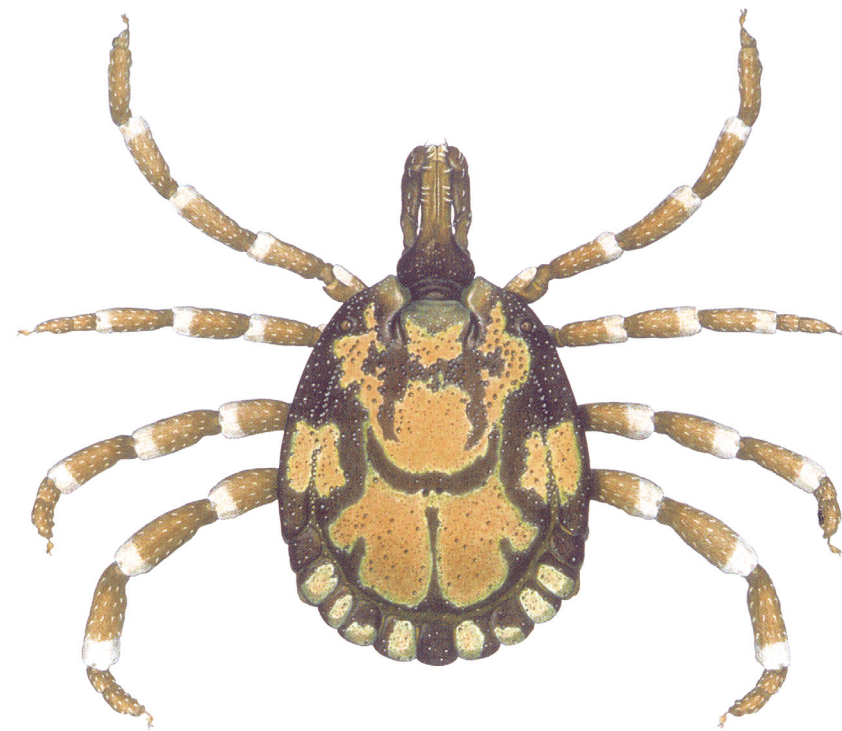
IDENTIFICATION AND DISEASES



ADULT FEMALE



ADULT MALE



DISEASES

- Heartwater
- Cattle Theileriosis
- Abscesses
- Maggots

HUMANS

- *Rickettsia africae*
(tick-bite fever)

Adapted from Ticks and tick-borne diseases¹



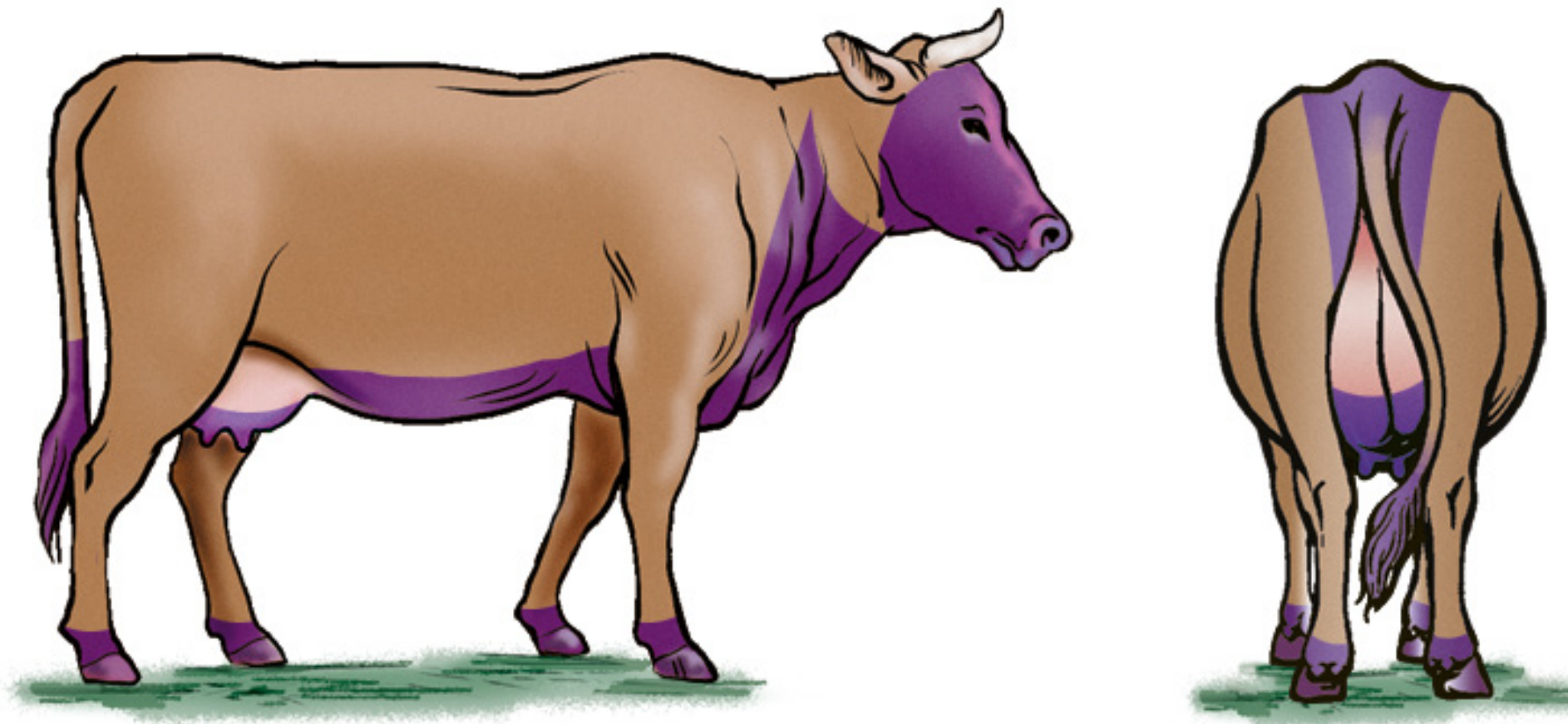
ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



BONT TICK ATTACHMENT SITES



Hairless parts of the lower body,
namely:

- Flank
- Axilla
- Dewlap and neck skin
- Stomach
- Perineum and perianal area
- Tail floccus (hair tufts)

Adapted from Ticks and tick-borne diseases¹



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS

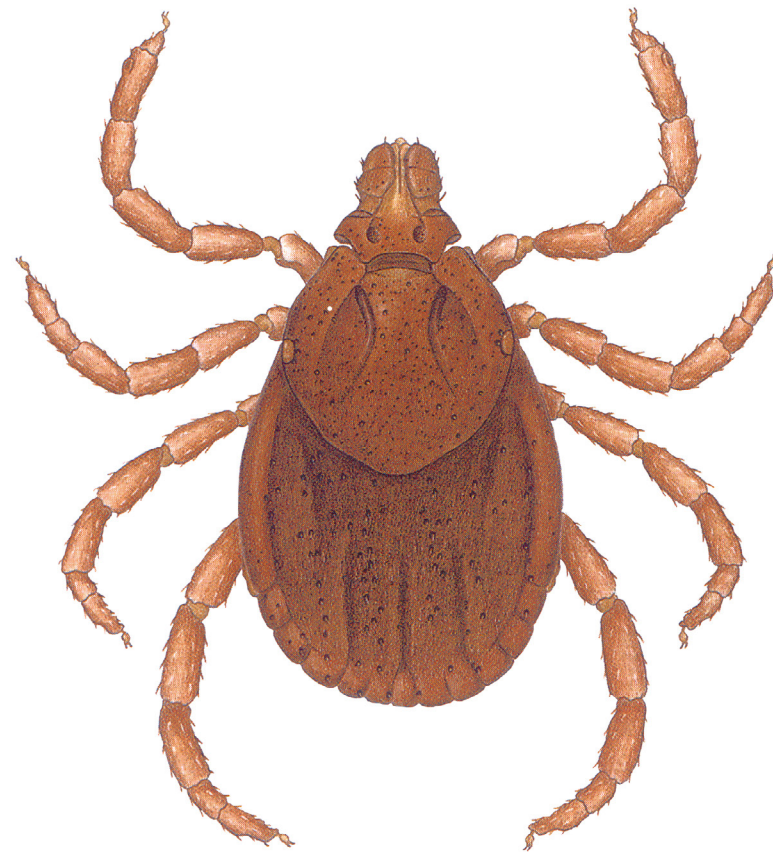


BROWN EAR TICK

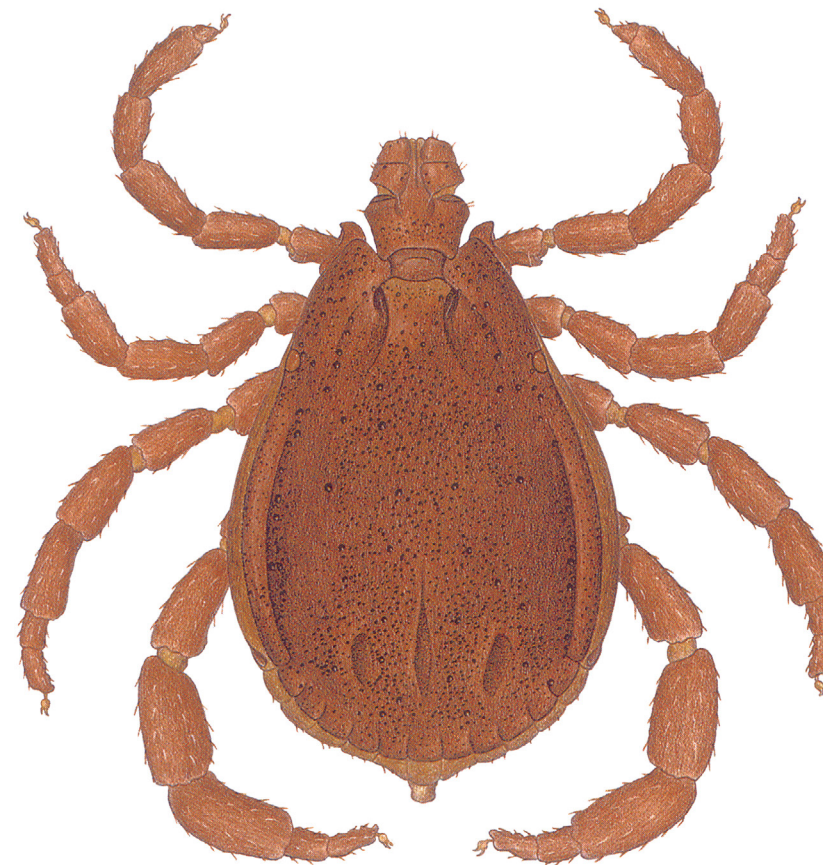
IDENTIFICATION AND DISEASES



ADULT FEMALE



ADULT MALE



DISEASES

- Tick Toxicosis
- Corridor/buffalo disease
- Cattle Theileriosis
- East Coast Fever
- Lumpy skin disease

HUMANS

- *Rickettsia conori*
(tick-bite fever)

Adapted from Ticks and tick-borne diseases¹



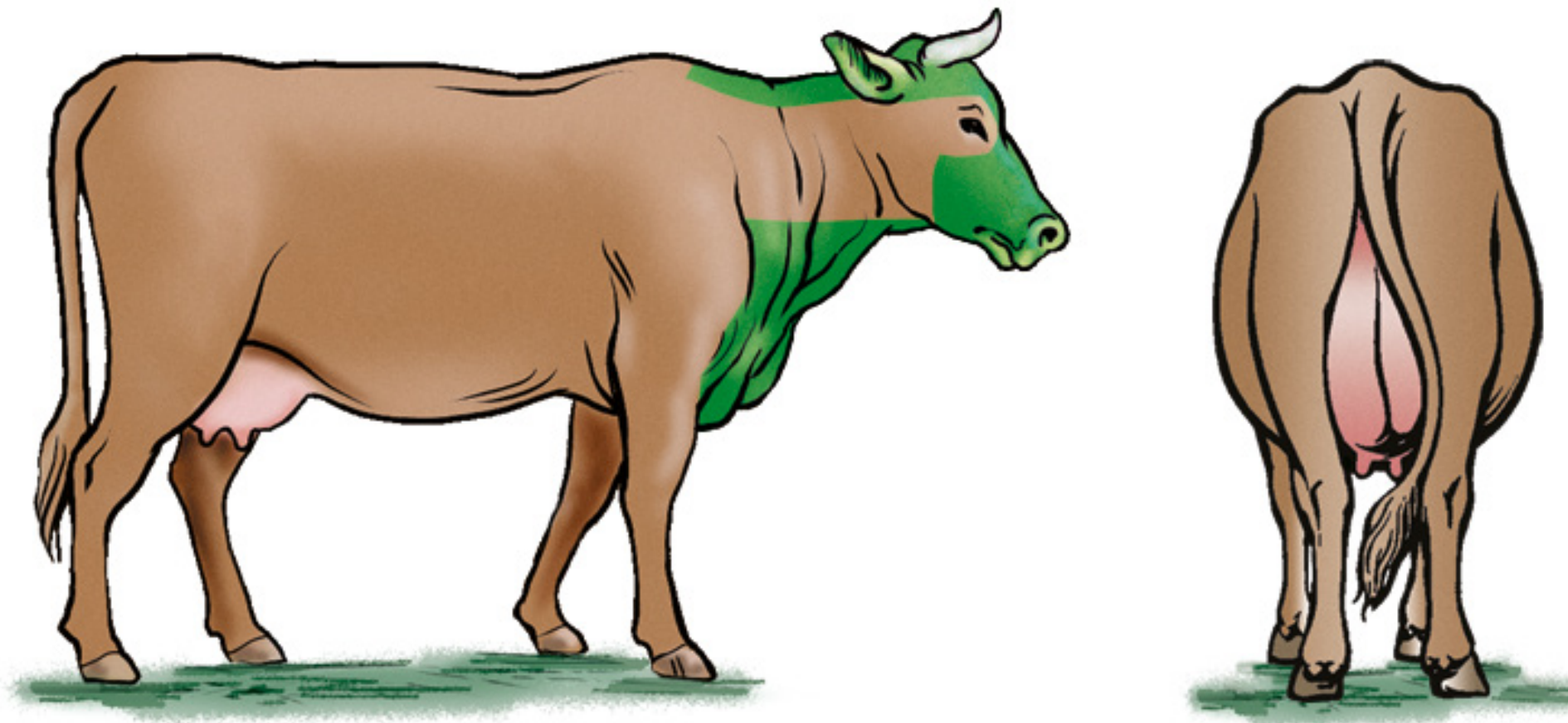
ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



BROWN EAR TICK ATTACHMENT SITES



- **Ears (pinna)**
- **Around the eyes**
- **Upper part of neck**
- **Behind the crown of head (poll)**
- **Perineum**
- **Below the stomach**

Adapted from Ticks and tick-borne diseases¹



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS

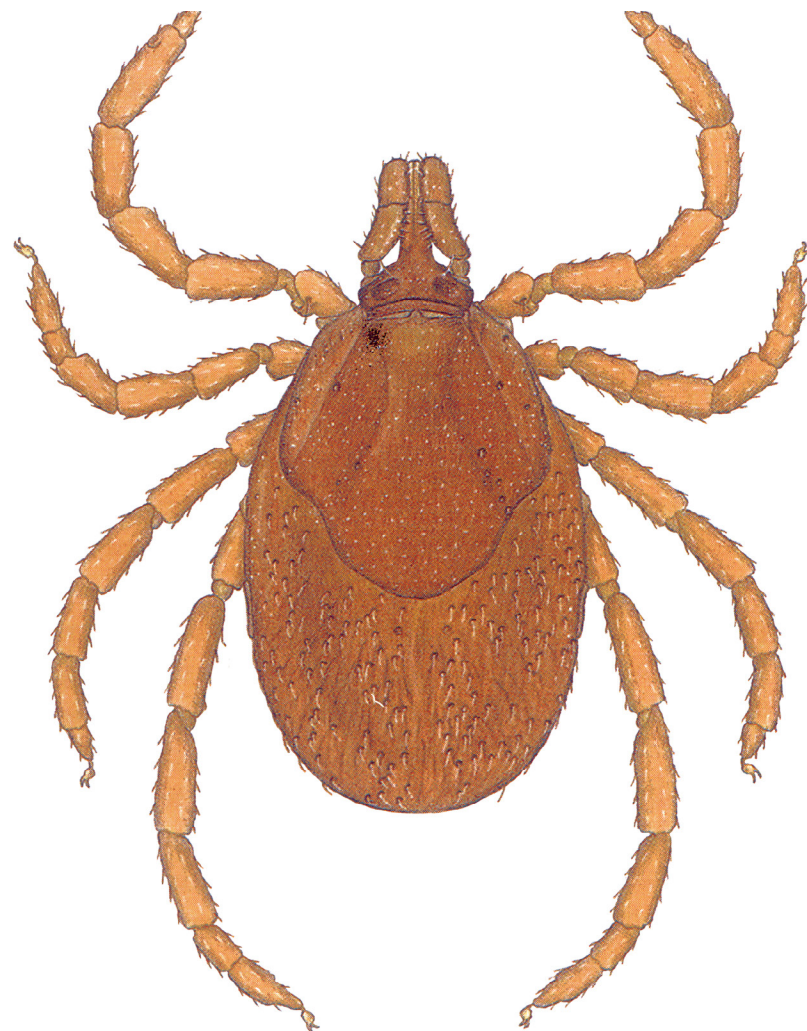


KAROO PARALYSIS TICK

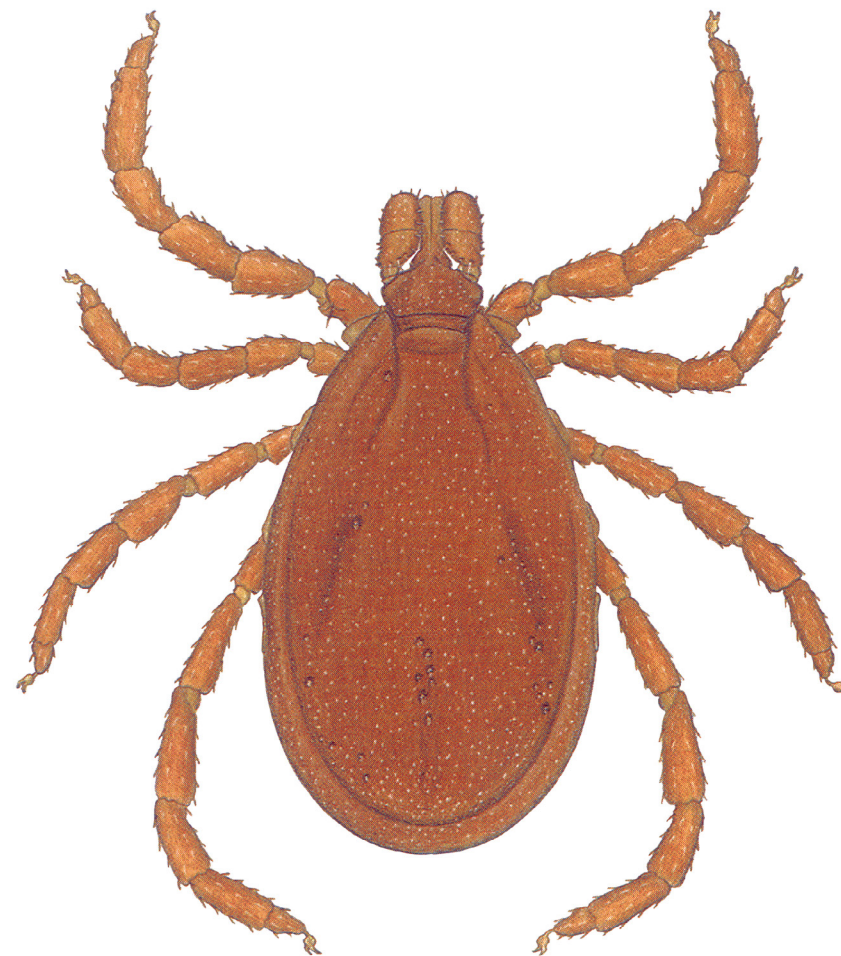
IDENTIFICATION AND DISEASES



ADULT FEMALE



ADULT MALE



DISEASES

- Tick paralysis

Adapted from Ticks and tick-borne diseases¹



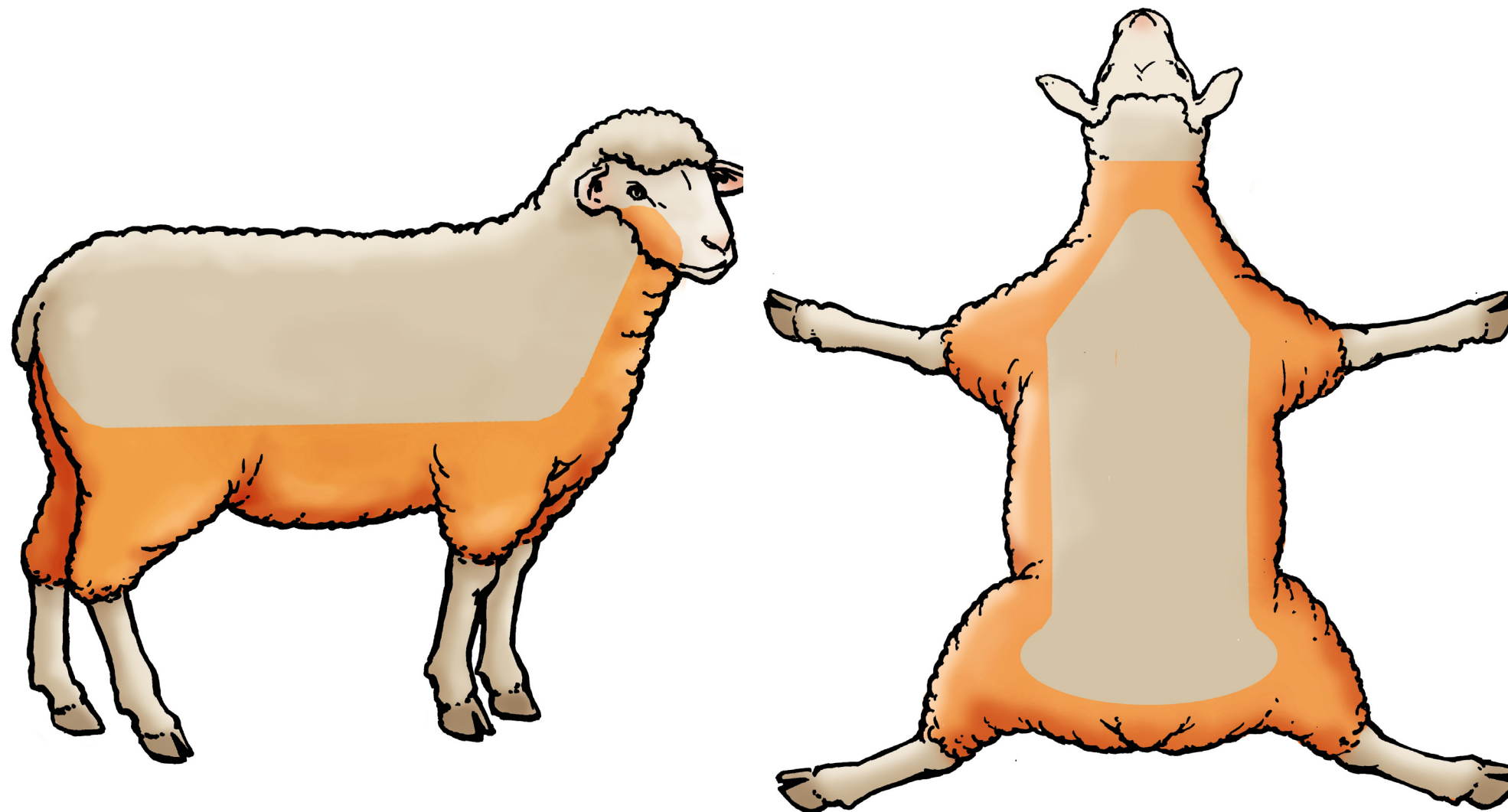
ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



KAROO PARALYSIS TICK ATTACHMENT SITES



- Undersides of body and neck
- Legs above the knees
- Cheeks
- Lower jaw

Adapted from Ticks and tick-borne diseases¹



ECONOMIC IMPACT

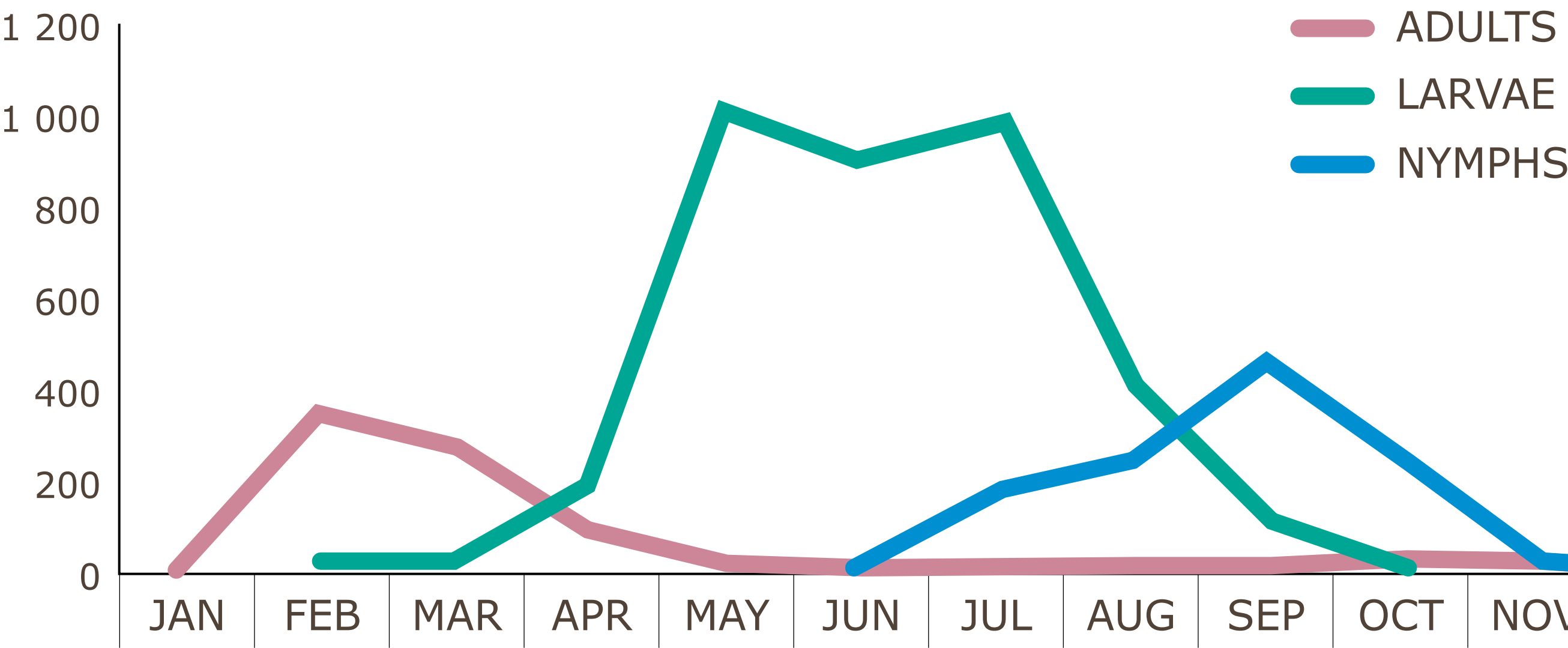
TICKS AND TICK CONTROL

THE PRODUCTS



THREE-HOST TICKS

SEASONAL OCCURRENCE



Adapted from Ticks and tick-borne diseases¹



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



VIRBAC SOLUTION FOR THREE-HOST TICK CONTROL

BROWN EAR TICK & BONT TICK CONTROL



- Dip animals in **winter** to reduce immature stages
- Dip animals in **summer** to reduce adult stages
- Spot treatments can be done frequently

With high tick challenges or when animals are moved to rested camps:

- 5, 5, 4 day dip strategy
- Always use contact dips containing **amitraz**
 - AMIPOR®
 - AMIDIP® MAX / PRO-DIP™ CYP 20 % combo

AMIPOR®
PRO-DIP™ CYP 20 %
AMIDIP® MAX



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



VIRBAC SOLUTION FOR THREE-HOST TICK CONTROL

KAROO PARALYSIS TICK CONTROL



- Dip animals in **early winter** to reduce immature & adult stages
- Treat animals frequently in karoo paralysis season
- Spot treatments can be done frequently

With high tick challenges or when animals are moved to rested camps:

- 5, 5, 4 day dip strategy
- Always use contact dips
 - AMIPOR®
 - PRO-DIP™ CYP 20 %

AMIPOR®
PRO-DIP™ CYP 20 %



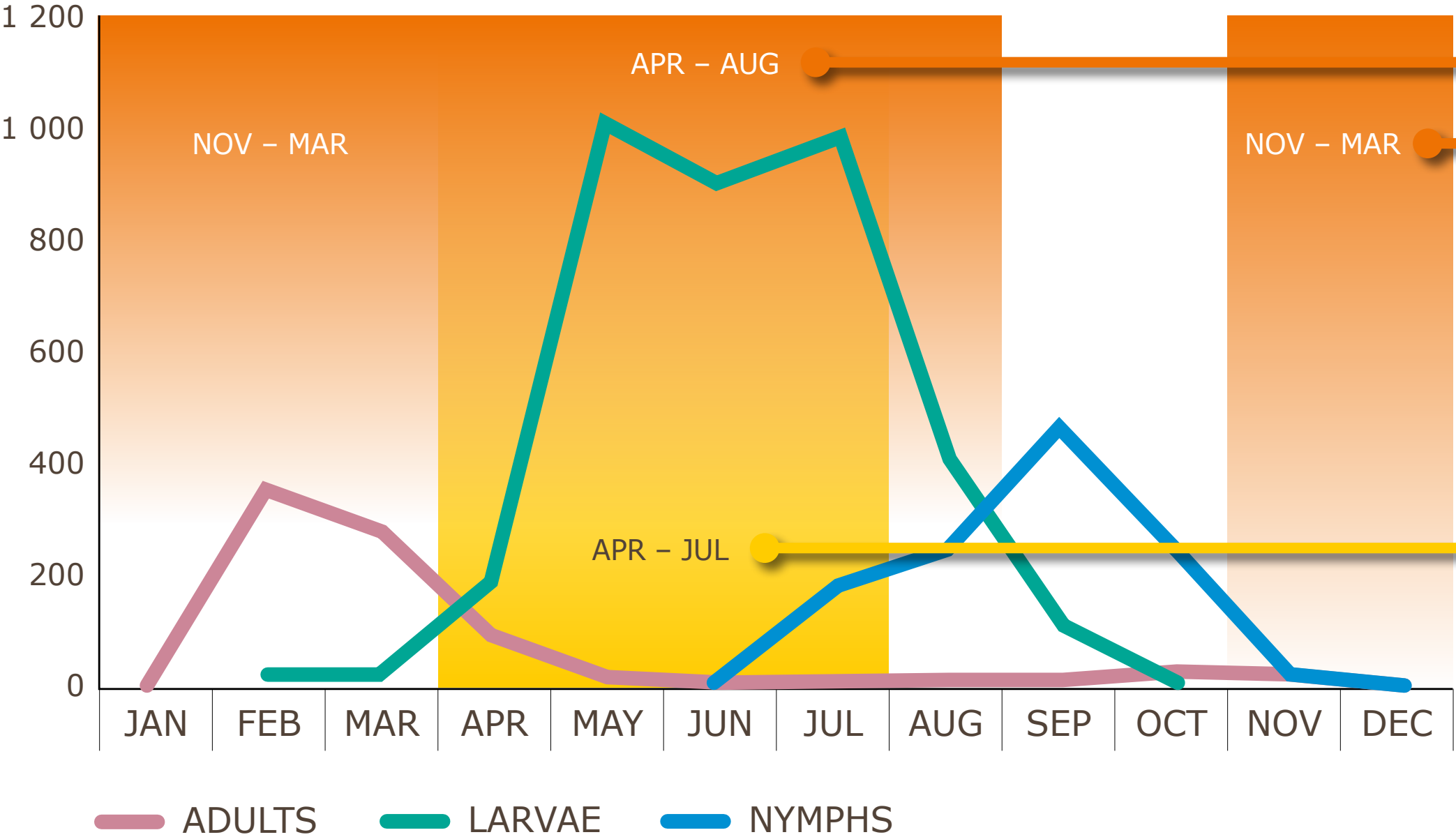
ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



VIRBAC TREATMENT STRATEGY FOR THREE-HOST TICK CONTROL



AMIPOR®
PRO-DIP™ CYP 20 %
AMIDIP® MAX

**KAROO
PARALYSIS**



AMIPOR®
PRO-DIP™ CYP 20 %



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



The **Virbac** solution – **quality** and **reliability**

- Modern formulation technology
- Products choice for cattle, game and sheep
- Choice of internal and external parasite control
- Rotational program – protection of chemical actives
- Environmentally friendly

...making **Double Sure**

THE PRODUCTS

AMIPOR®

ELIMINATE

VIRBAMEC® LA

PRO-DIP™ CYP 20%

AMIDIP® MAX

PRO-DIP™ CYP 20 %
& AMIDIP® MAX COMBO

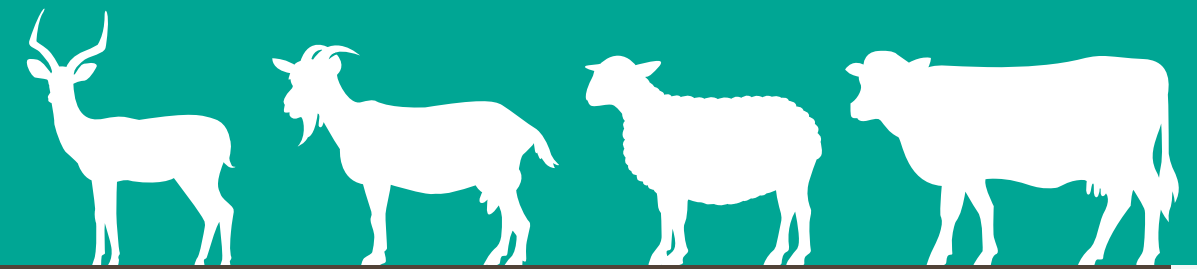
ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



AMIPOR®



THE FIRST COMBINATION POUR-ON FOR COMPREHENSIVE ECTOPARASITE CONTROL



AMITRAZ

1 % m/v

CYPERMETHRIN

1 % m/v

PIPERONYL BUTOXIDE

5 % m/v

POUR-ON

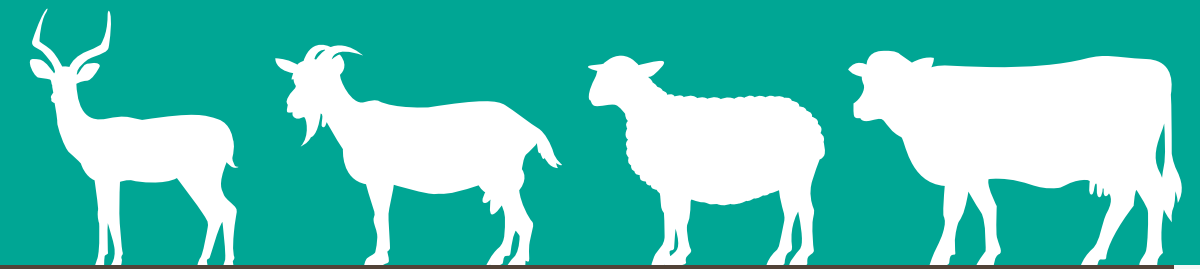


ECONOMIC IMPACT

TICKS AND TICK CONTROL

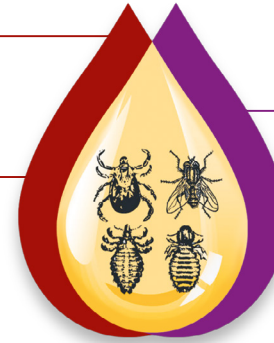
THE PRODUCTS





THE FIRST COMBINATION POUR-ON FOR COMPREHENSIVE ECTOPARASITE CONTROL

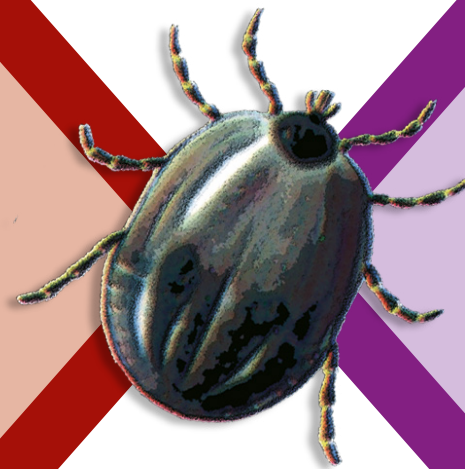
DOUBLE SURE ON TICKS



DOUBLE SURE ON FLIES

A

- Paralyse & detach ticks
- Limits disease transmission
- Inhibits larval development



- Broad-spectrum tick control
- Hyperstimulates nervous system
- Irreversible damage to nervous system

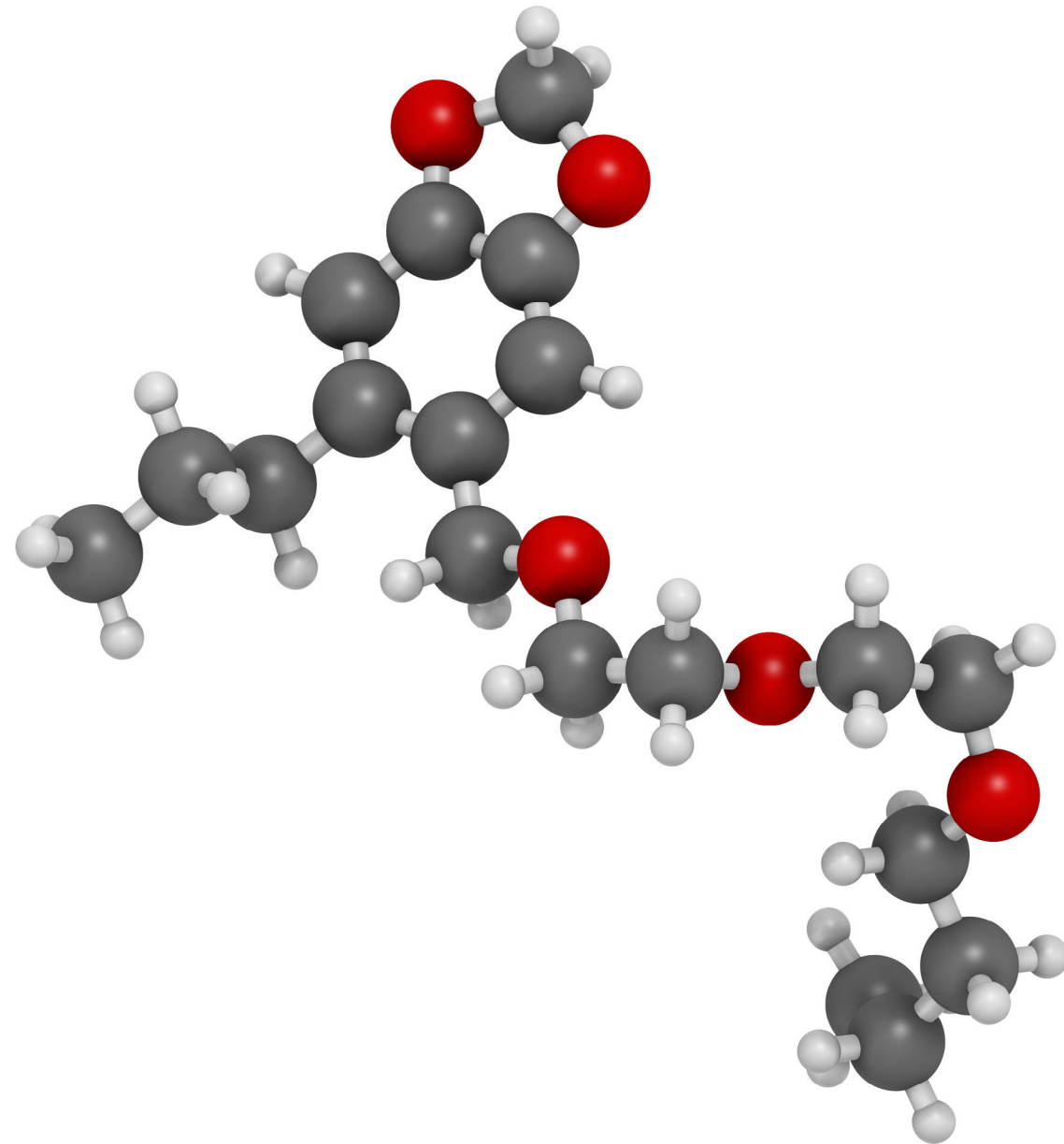
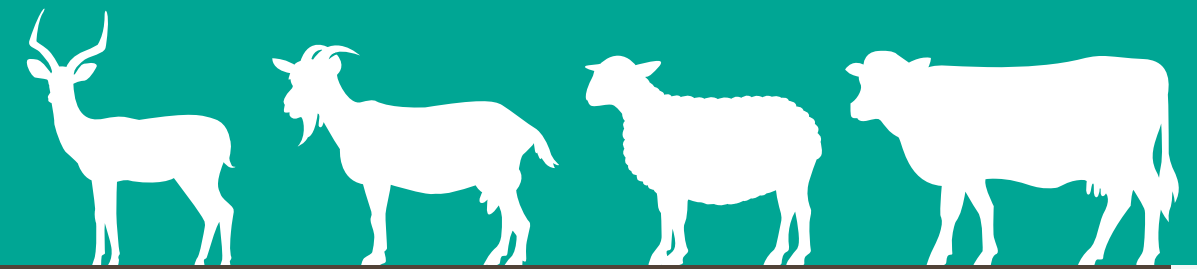
C

- Broad-spectrum fly control
- Good knock-down effect
- Kills on contact



AMITRAZ

CYPERMETHRIN

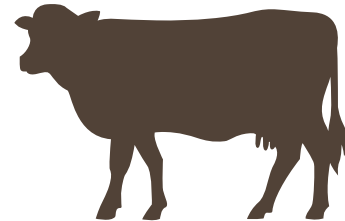


PIPERONYL BUTOXIDE (PBO)

Piperonyl butoxide is a synergistic chemical:

- That enhances the effectiveness of the active ingredients
- Overcome resistant insect populations – **tough to kill ticks** will be affected

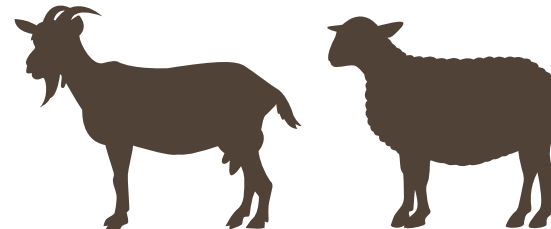
The *ideal* ratio of pyrethroid to PBO to obtain optimum synergism = **1:5 to 1:8**



CATTLE

TICKS
HOUSE FLIES
STABLE FLIES
FACE FLIES
BITING LICE
SUCKING LICE

5 ml
PER
50 kg



SHEEP AND GOATS

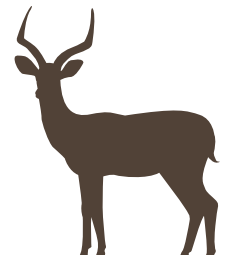
KAROO PARALYSIS TICKS
RED LICE

KAROO
PARAYLSIS
TICKS

2 ml
PER
10 kg

RED LICE

4 ml
PER
10 kg



GAME

TICKS

5 ml
PER
50 kg

ELIMINATE



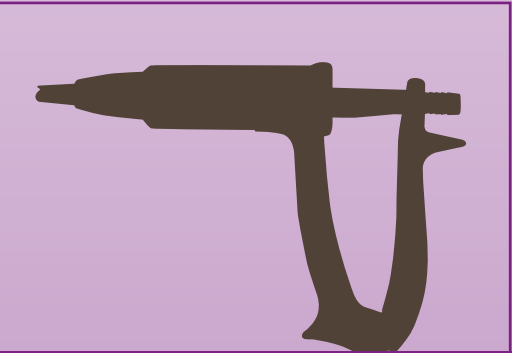
TRANSDERMAL INTERNAL AND EXTERNAL PARASITE CONTROL

ABAMECTIN

0,5 % m/v



POUR-ON



ECONOMIC IMPACT

TICKS AND TICK CONTROL

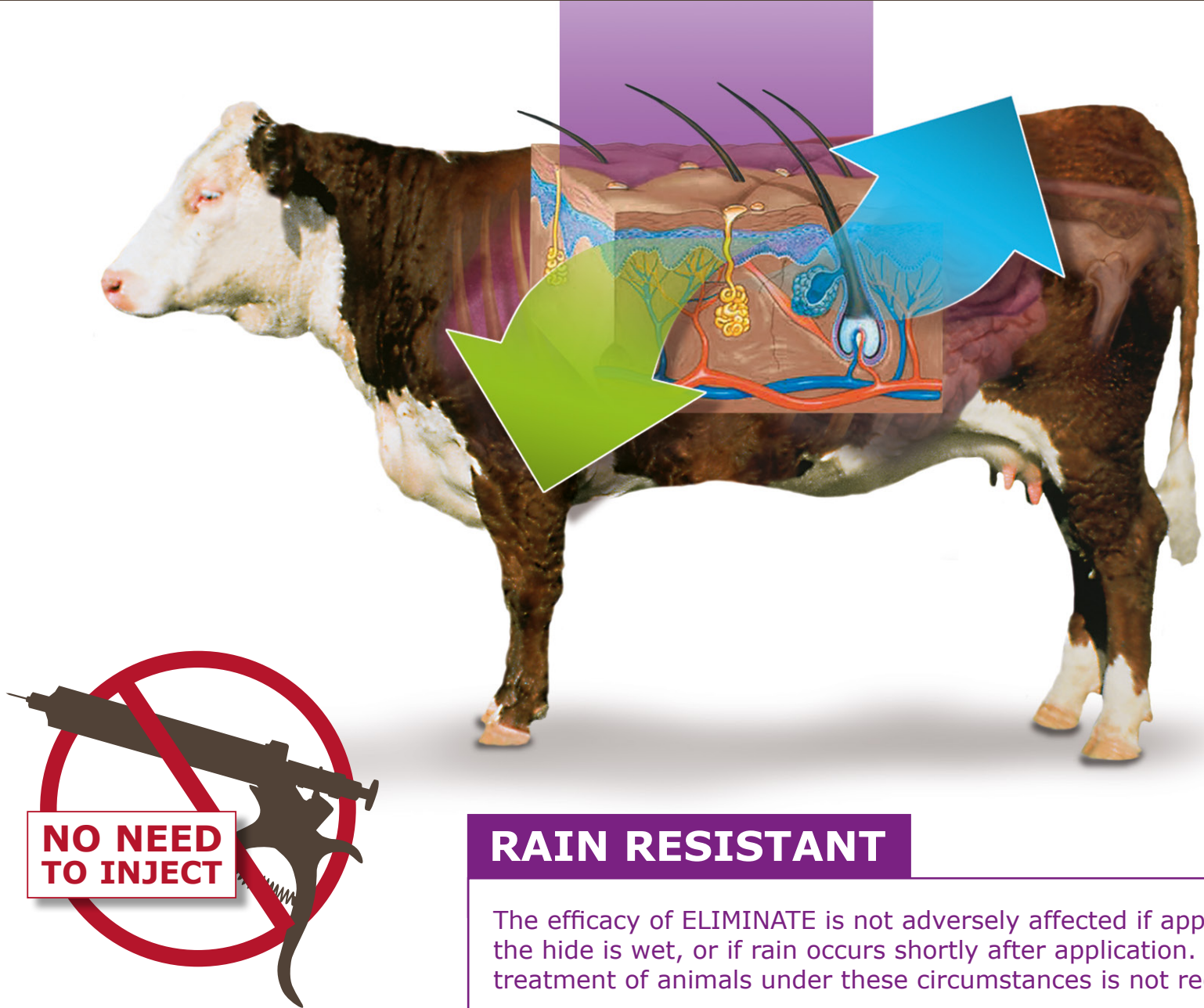
THE PRODUCTS



ELIMINATE



TRANSDERMAL INTERNAL AND EXTERNAL PARASITE CONTROL



RAIN RESISTANT

The efficacy of ELIMINATE is not adversely affected if applied when the hide is wet, or if rain occurs shortly after application. However treatment of animals under these circumstances is not recommended.

TRANSDERMAL TECHNOLOGY

The formulation allows the active ingredient (abamectin) to be absorbed through the skin to deliver effective and reliable parasite control



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



ELIMINATE

TRANSDERMAL INTERNAL AND EXTERNAL PARASITE CONTROL



CATTLE AND GAME

INTERNAL PARASITES

	IMMATURES	ADULTS	PERSISTENCY
WIREWORM	✓	✓	14 DAYS
BROWN STOMACHWORM*	✓	✓	14 DAYS
CATTLE BANKRUPTWORM	✓	✓	14 DAYS
HOOKWORM	✓	✓	
NODULAR WORM	✓	✓	21 DAYS
LUNG WORM	✓	✓	28 DAYS
EYEWORM		✓	

*including inhibited stages

KEY ✓ **Control** (≥ 90 % effective)
✓ **Aids in control** (60 – 89 % effective)

EXTERNAL PARASITES

Controls **BLUE TICKS**
for control of blue ticks – treatment must be repeated every 21 days

Aids in the control of **MULTI-HOST TICKS**

Kills **SUCKING** and **BITING LICE**

Controls **MANGE MITES**

Controls **HORN FLY**
(*Haematobia sp*) for up to 21 days

1ml
PER
10^{kg}



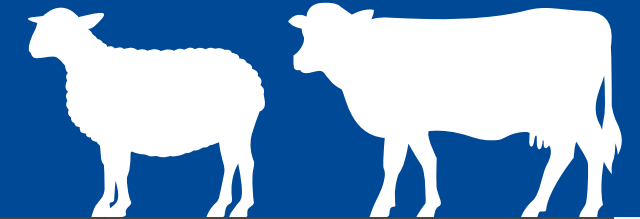
ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



VIRBAMEC® LA



THE RELIABLE CHOICE FOR INTERNAL AND EXTERNAL PARASITE CONTROL



IVERMECTIN

1 % m/v

INJECTABLE

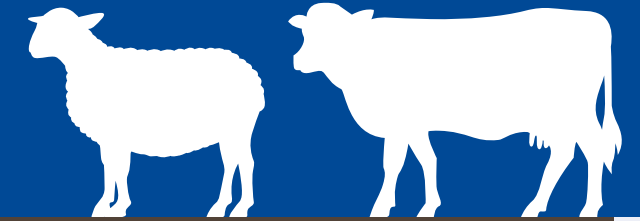


ECONOMIC IMPACT

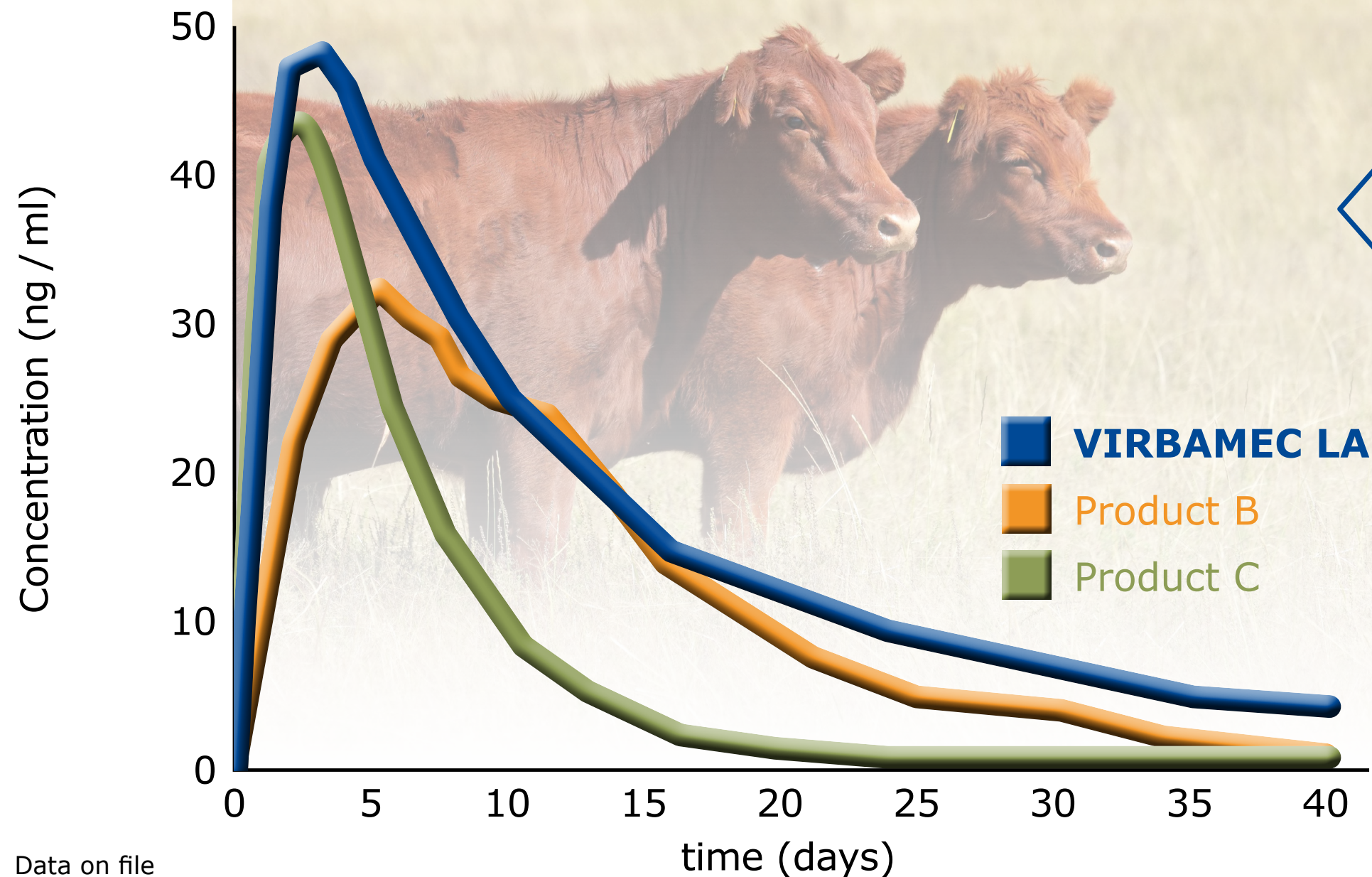
TICKS AND TICK CONTROL

THE PRODUCTS





THE RELIABLE CHOICE FOR INTERNAL AND EXTERNAL PARASITE CONTROL

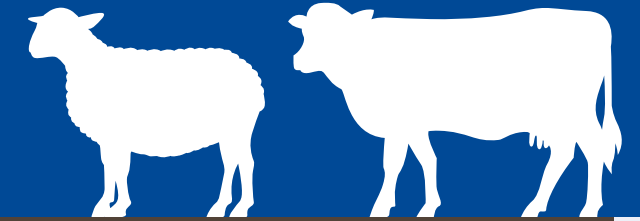


**GREATER
PEAK PLASMA
LEVELS**

**Higher plasma levels means
more active available
to kill parasites under all conditions**

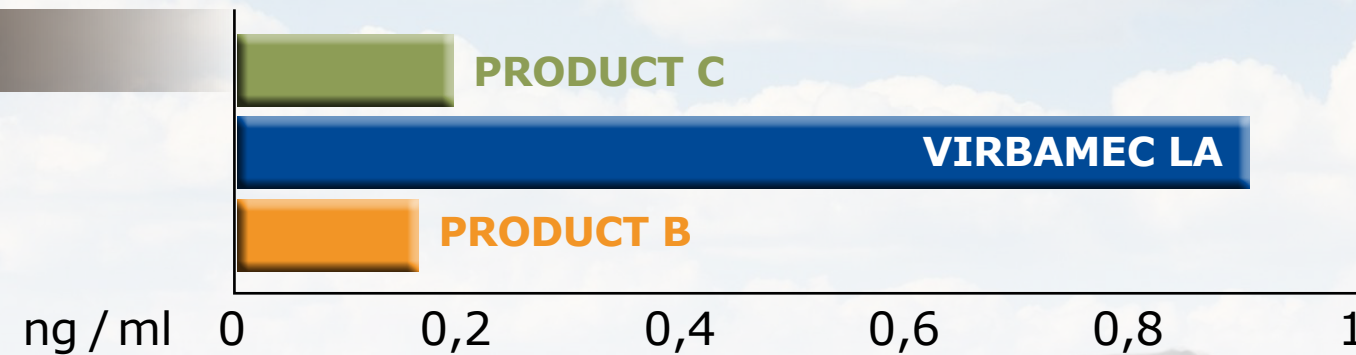
**Higher plasma level means
greater therapeutic action**



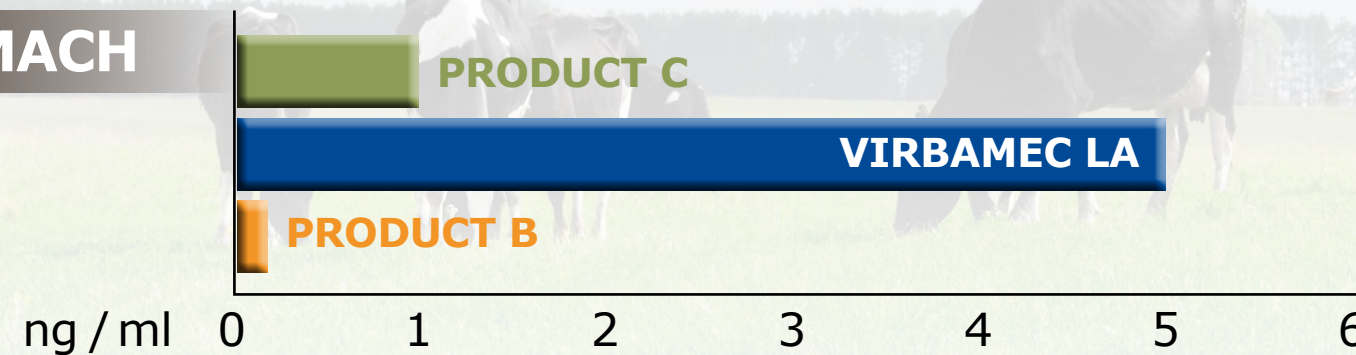


THE RELIABLE CHOICE FOR INTERNAL AND EXTERNAL PARASITE CONTROL

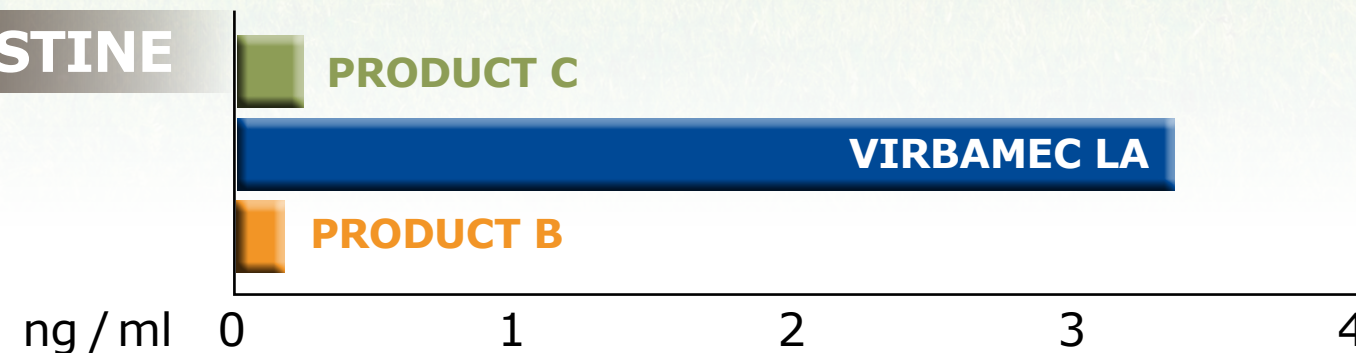
IN THE SKIN



IN THE STOMACH



IN THE INTESTINE



Lifschitz et al.²

**MORE ACTIVE
AVAILABLE IN
TISSUES**

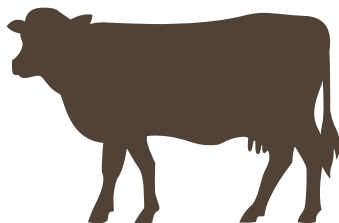
... proof that **VIRBAMEC LA** has a better formulation technology – delivering more active to the tissues where the parasites live

More active means better action, better control and healthier animals under all conditions



VIRBAMEC® LA


















THE RELIABLE CHOICE FOR INTERNAL AND EXTERNAL PARASITE CONTROL



KEY  **Control** (≥ 90 % effective)

CATTLE

INTERNAL PARASITES

	IMMATURES	ADULTS	PERSISTENCY
WIREWORM*			35 DAYS
BROWN STOMACHWORM*			35 DAYS
BANKRUPTWORM			28 DAYS
HOOKWORM			42 DAYS
NODULAR WORM			49 DAYS
LUNGWORM			21 DAYS
EYEWORM			
LONG-NECKED BANKRUPTWORM			
WHITE BANKRUPTWORM			
ASCARIDS			
FALSE BRUISING			

EXTERNAL PARASITES

BLUE TICKS up to 42 days
SUCKING LICE
WARBLE FLIES
MANGE MITES
CATTLE SCREW WORM
SANDTAMPANS

1 ml
PER
50 kg

*including inhibited stages



ECONOMIC IMPACT



TICKS AND TICK CONTROL

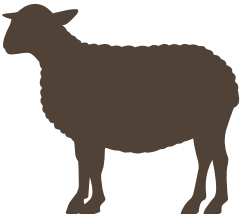
THE PRODUCTS



VIRBAMEC® LA





















THE RELIABLE CHOICE FOR INTERNAL AND EXTERNAL PARASITE CONTROL

KEY  **Control** (≥ 90 % effective)
 **Aids in control** (60 – 89 % effective)



SHEEP

INTERNAL PARASITES

	IMMATURES	ADULTS
WIREWORM		
NOOITGEDACHT RESISTANT WIREWORM STRAIN		
BROWN STOMACHWORM		
BANKRUPTWORM		
HOOKWORM		
NODULAR WORM		
LARGE-MOUTHED BOWELWORM		
LUNGWORM		
LONG-NECKED BANKRUPTWORM		
WHIPWORM		
WHITE BANKRUPTWORM		

EXTERNAL PARASITES

- SHEEP SCAB
 - MANGE MITES
 - AUSTRALIAN ITCH MITE
 - SUCKING LICE
 - NASALBOT
- controls all stages
(1st, 2nd and 3rd instar larvae)

1 ml
PER
50 kg



ECONOMIC IMPACT

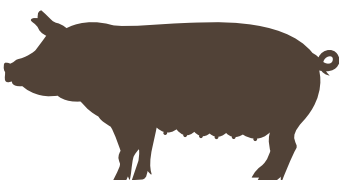
TICKS AND TICK CONTROL

THE PRODUCTS



VIRBAMEC® LA










THE RELIABLE CHOICE FOR INTERNAL AND EXTERNAL PARASITE CONTROL



KEY  Control ($\geq 90\%$ effective)

PIGS

INTERNAL PARASITES

	IMMATURES	ADULTS
ASCARIDS		
WHITE BANKRUPTWORM		
NODULAR WORM		
LUNGWORM		
WHIPWORM		

EXTERNAL PARASITES

SUCKING LICE (KILLS)

MANGE MITES

with a persistent activity for 56 days

1 ml
PER
33 kg



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



PRO-DIP™ CYP 20 %



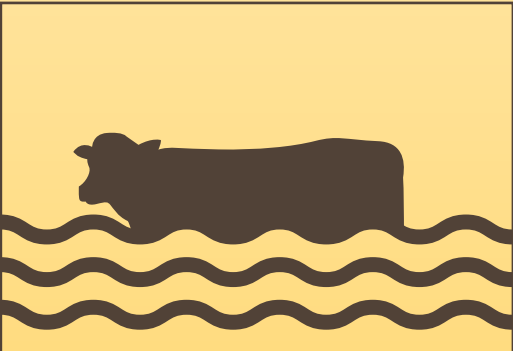
THE VERSATILE SHEEP AND CATTLE DIP



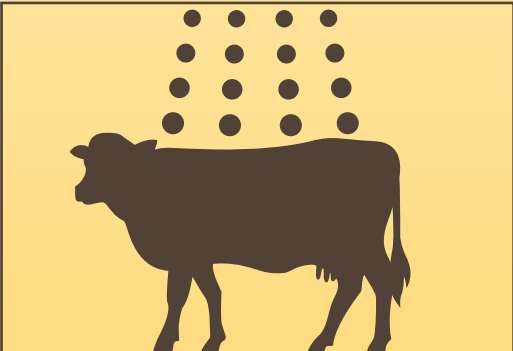
CYPERMETHRIN

20 % m/v

PLUNGE DIP



SPRAY RACE



ECONOMIC IMPACT

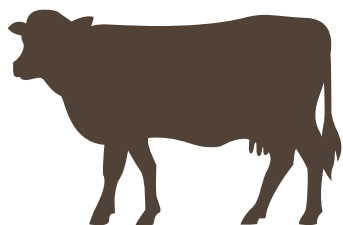
TICKS AND TICK CONTROL

THE PRODUCTS



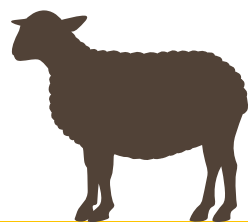
PRO-DIP™ CYP 20 %

THE VERSATILE SHEEP AND CATTLE DIP



CATTLE

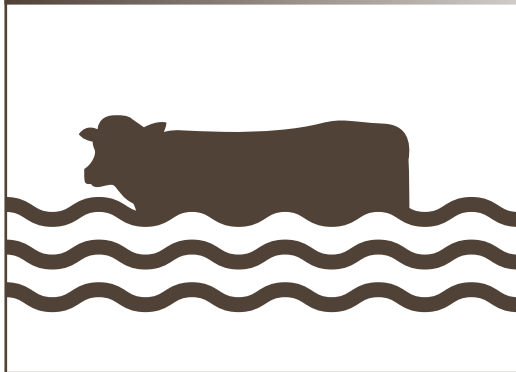
TICKS
NUISANCE FLIES
BITING FLIES
BITING LICE
SUCKING LICE



SHEEP

KAROO PARALYSIS TICKS
SHEEP SCAB MITE
BLOW FLY STRIKE up to 4 weeks

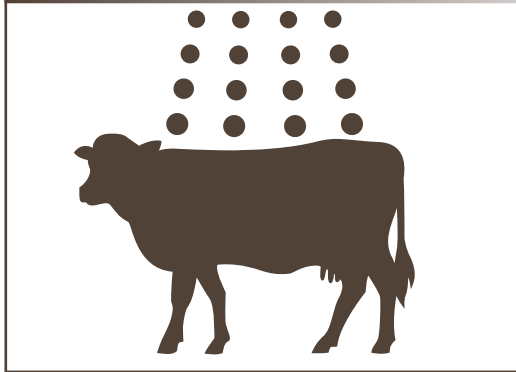
PLUNGE DIP



FRESH FILL / REPLENISH

1^L TO 1 000^L
WATER

SPRAY RACE



FRESH FILL

REPLENISH

1^L TO 1 000^L
WATER

1^L TO 800^L
WATER



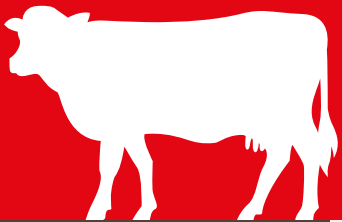
ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



AMIDIP[®] MAX



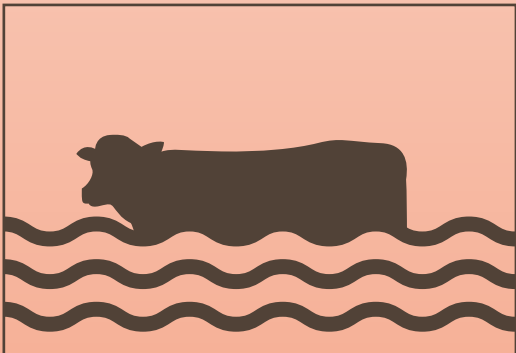
THE VERSATILE CATTLE DIP



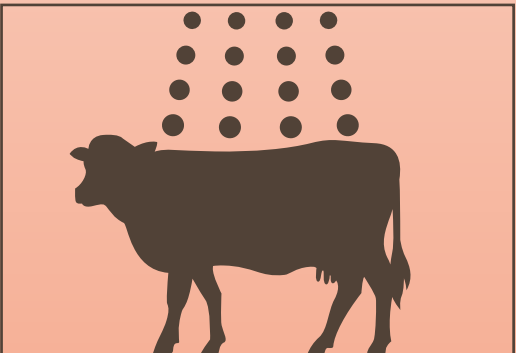
AMITRAZ

25 % m/v

PLUNGE DIP



SPRAY RACE



ECONOMIC IMPACT

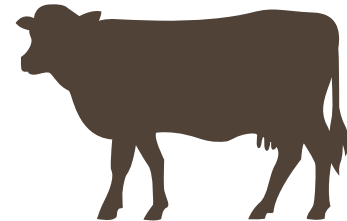
TICKS AND TICK CONTROL

THE PRODUCTS



AMIDIP[®] MAX

THE VERSATILE CATTLE DIP



CATTLE

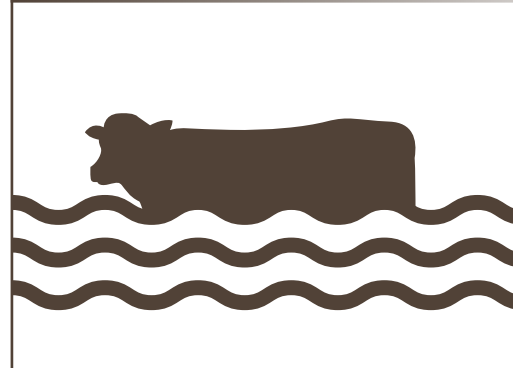
SINGLE-HOST TICKS

MULTI-HOST TICKS

LICE

MANGE MITES

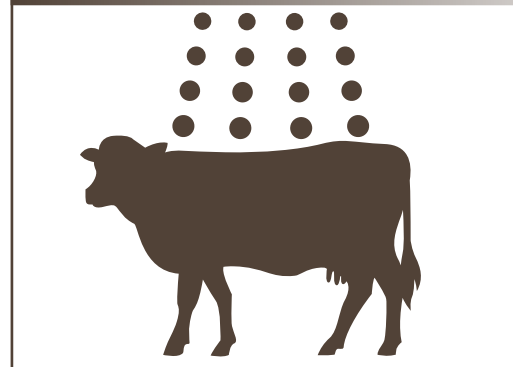
PLUNGE DIP



FRESH FILL / REPLENISH

1^L TO 5 000^L
WATER

SPRAY RACE



FRESH FILL

1^L TO 1 000^L
WATER



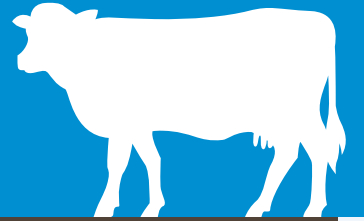
ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



AMIDIP[®] MAX | PRO-DIP[™] CYP 20 %



USE IN COMBINATION FOR POWERFUL COMPREHENSIVE PARASITE CONTROL



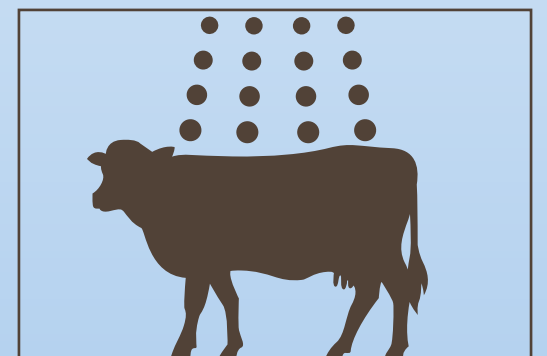
AMITRAZ

25 % m/v

CYPERMETHRIN

20 % m/v

SPRAY RACE



ECONOMIC IMPACT

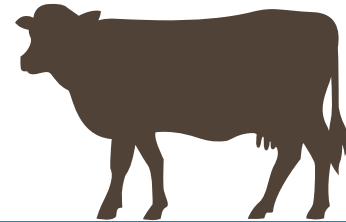
TICKS AND TICK CONTROL

THE PRODUCTS



AMIDIP[®] MAX | PRO-DIP[™] CYP 20 %

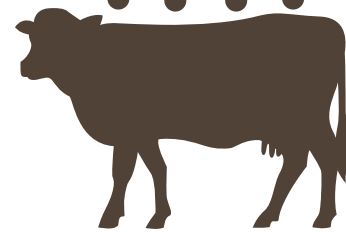
USE IN COMBINATION FOR POWERFUL COMPREHENSIVE PARASITE CONTROL



CATTLE

SINGLE-HOST TICKS
MULTI-HOST TICKS
LICE
MANGE MITES
NUISANCE FLIES
BITING FLIES

SPRAY RACE



1 L PRO-DIP[™]
CYP 20 % + 1 L AMIDIP[®]
MAX

WITH
2 000 L
WATER

Each product must be mixed
with 20 litres of clean water **separately**
prior to being included into the dip
sump / tank



ECONOMIC IMPACT

TICKS AND TICK CONTROL

THE PRODUCTS



REFERENCES

- 1. Spickett AM. Ticks and tick-borne diseases
- 2. Lifschitz *et al.* Comparative distribution of ivermectin and doramectin to parasite location tissues in cattle. *Veterinary Parasitology*. 2000;87:327-448



Virbac (Pty) Ltd (Reg. No. 1990/003743/07)
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AMIPOR® – Reg. No. G2058 (Act 36/1947)
Namibia Reg. No. V06/19.3.9/75 [NSO](#)
Botswana Reg. No: W130656
Contains: Amitraz 1 % m/v, Cypermethrin 1 % m/v and
Piperonyl Butoxide 5 % m/v

ELIMINATE – Reg. No. G3348 (Act 36/1947)
Namibia Reg. No. V09/18.1.2/77 [NSO](#)
Botswana Reg. No: W130659
Contains: Abamectin 0,5 % m/v

VIRBAMEC® LA – Reg. No. G2885 (Act 36/1947)
Namibia Reg. No. V09/18.1.2/109 [NSO](#)
Contains: Ivermectin 1 % m/v

PRO-DIP™ CYP 20 % – Reg. No. G2311 (Act 36/1947)
Namibia Reg. No. V04/18.3.4/119 [NSO](#)
Botswana Reg. No. W130658
Contains: Cypermethrin 20 % m/v

AMIDIP® MAX – Reg. No. G3767 (Act 36/1947)
Namibia Reg. No. V08/18.3.4/131 [NSO](#)
Botswana Reg. No: W130660
Contains: Amitraz 25 % m/v

July 2017

