Feedmaster

Your Quality Solution

BUY LOCAL
GROW NAMIBIA

PRODUKGIDS
PRODUCT GUIDE

N$50

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VOORWOORD / PREFACE

Feedmaster se strategiese visie is om innoverende voerprodukte te verskaf wat volhoubare en winsgewende diereproduksie verseker as skakel in die groter voedselketting. Met Feedmaster se nuwe slagspreuk as "Your quality solution", is ons produkgehalte en prestasie 'n ononderhandelbare vereiste wat Feedmaster sal bly dryf tot ons dit 'n werklikheid gemaak het. Feedmaster voldoen aan die voorskrifte en vereistes vir die Namibiese vleisbedryf onder die vaandel van "Farm Assured Namibian Meat". Feedmaster beskik ook oor 'n ISO 22000 akkreditasie wat verseker dat ons aan al die nodige voedselveiligheidvereistes voldoen vir rooivleis uitvoere na die Europese mark.

Feedmaster volg vanuit die staanspoor die strategie om unieke produkte te ontwikkel onder Namibiese toestande deur gebruik te maak van plaaslike navorsing vir die Namibiese mark.

Die voorgestelde programme soos saamgevat in hierdie produkgids het deurgaans ten doel om produksie te verbeter en sekere voedingstekorte in sekere areas aan te vul.

Vir enige aanbevelings om u spesifieke behoefte te bevredig, skakel gerus enige van ons kundige personeel.

Feedmaster's strategic vision is to introduce innovative products to provide sustainable and profitable animal production, guaranteed as an input in the larger food chain.

Feedmaster's new slogan "Your quality solution" ensures that our product quality and performance is a non-negotiable requirement which Feedmaster is determined to make a reality.

Feedmaster complies with the requirements of the Namibian meat industry, operating under the banner of "Farm Assured Namibian Meat." Feedmaster also has an ISO 22000 accreditation which ensures that we meet all the necessary food safety requirements for red meat exports to the European market. From the outset Feedmaster followed the strategy to develop unique products for Namibian conditions, by making use of local research for the Namibian market.

The proposed feeding programs as summarized in this product guide are consistently aimed at improving production and aim to overcome certain nutritional deficiencies in specific areas.

For any recommendations for you specific needs, please contact any of our expert staff.

JACO LABUSCHAGNE
General Manager

FUTTERFOS

FUTTERFOS
Reg.No. N - FF 1005

Feedmaster FUTTERFOS is 'n P14 met molasse en 'n nuwe spoormineraalmengsel.

- Die produk se Ca:P verhouding is 1:1.
- Vervang die standaard P12 produkte a.g.v. nuwe Namibiese navorsingsresultate.
- Omdat te hoë Ca-vlakke die absorpsie van P en ander spoorminerale (yster, jodium, sink en mangaan) onderdruk en Namibiese sandveld reeds 'n oormaat Ca in verhouding tot P bevat, help die 1:1 verhouding van Futterfos om die verhouding reg te stel.
- Die Ca:P verhouding van blaarmateriaal van bosse baie hoër is as dié van grasweiding, m.a.w. waar baie bos gevreet word, is 'n lek waarvan die Ca:P kleiner is soos 1:1 meer voordelig is vir beter benutting van fosfor en ander minerale.
- Die hoogste bio-beskikbare fosfaatbronne is gebruik in die ontwikkeling van die produk.

FUTTERFOS
Reg.No. N - FF 1005

Feedmaster FUTTERFOS is a P14 with 8% molasses and a new trace-mineral premix.

- The product's Ca:P ratio is 1:1.
- It replaces the standard P12 products as a result of new Namibian research results.
- Due to the fact that too high levels of Ca suppress the absorption of P and other trace minerals (iron, iodine, zinc and manganese) and that Namibian sandveld areas already have too much Ca in relation to P the better ratio of 1:1 of Futterfos improves the absorption of P.
- Another point is that the Ca:P ratio of leaf material of bush is much higher than that of grass pastures. Therefore, where animals consume a big amount of bush the 1:1 ratio of Futterfos also improves the absorption of P and other minerals.
- Phosphate sources with the highest bio-availability was used in the development of the product.

FUTTERFOS™
Reg. No. N - FF 1005 (Act/36/1947)

Klas / Class: Mineraal Konsentraat / Mineral Concentrate

Samestelling / Composition

		Minimum	Maximum		
Fosfaat	g/kg	140		g/kg	Phosphorus
Kalsium	g/kg		150	g/kg	Calcium
Swael	g/kg	5		g/kg	Sulphur
Vog	g/kg		120	g/kg	Moisture
Koper	mg/kg	300		mg/kg	Copper
Mangaan	mg/kg	1300		mg/kg	Manganese
Sink	mg/kg	1600		mg/kg	Zinc
Kobalt	mg/kg	8		mg/kg	Cobalt
Jodium	mg/kg	30		mg/kg	Iodine
Selenium	mg/kg	6		mg/kg	Selenium
Magnesium	mg/kg	3600		mg/kg	Magnesium

Massa / Mass : 40 kg

Meng / Voedinginstruksies:
Om 'n P6 lek (Mineraal-Spoormineraal-Sout-Aanvulling) te verkry meng 40 kg Feedmaster Futterfos met 50 kg sout. Die mengsel bevat 45% van die minerale soos bo aangedui. Voer aan herkouers op groen weiding as 'n mineraalaanvulling.

Aanbevole daaglikse inname (P6):
Beeste 100-200 g
Skape 17-50 g

Mixing / Feeding Instructions:
To obtain a P6 (Mineral-Trace Mineral-Salt Supplement), mix 40 kg Feedmaster Futterfos with 50 kg salt. The mixture contains 45% of the minerals indicated above. Feed to ruminants on green grazing as a mineral supplement.

Recommended daily intake (P6):
Cattle 100-200 g
Sheep 17-50 g

VEEFOS P12

VEEFOS P12
Reg. No. N - FF 1991

VEEFOS P12 is meer as net 'n fosfaat. Die produk voorsien ook alle nodige spoormineraale wat deur die dier benodig word in die reënseisoen.

- Sodoende verseker die produk beter massatoename.
- Verhoog vrugbaarheid.
- Bevorder weerstand teen siektes.

VEEFOS P12
Reg. No. N - FF 1991

VEEFOS P12 is more than just phosphate. The product also provides all the necessary trace minerals needed by the animal during the rainy season.

- Thus improves weight gain.
- It increases fertility.
- Promotes immunity against diseases.

VEEFOS P12
Reg. No. N - FF 1991 (Act/Wet 36/1947)

Klas: Mineraal-spoormineraal-aanvullende Konsentraat vir Herkouers
Class: Mineral-Trace Mineral Supplement Concentrate for Ruminants
Samestelling / Composition

		Minimum	Maximum		
Fosfaat	g/kg	120		g/kg	Phosphorus
Kalsium	g/kg		240	g/kg	Calcium
Vog	g/kg		120	g/kg	Moisture
Koper	mg/kg	150		mg/kg	Copper
Mangaan	mg/kg	650		mg/kg	Manganese
Sink	mg/kg	800		mg/kg	Zinc
Kobalt	mg/kg	4		mg/kg	Cobalt
Jodium	mg/kg	15		mg/kg	Iodine
Selenium	mg/kg	3		mg/kg	Selenium
Magnesium	mg/kg	1800		mg/kg	Magnesium

Massa / Mass: 50 kg

Meng / Voedinginstruksies:
Om 'n P6 lek (Mineraal-Spoormineraal-Sout-aanvulling) te verkry meng 50 kg Veefos P12 met 50 kg sout. Die mengsel bevat 50% van die minerale soos bo aangedui. Voer aan herkouers op groen weiding as 'n mineraalaanvulling.

Aanbevole daaglikse inname (P6):
Beeste 100-200 g
Skape 17-50 g

Mixing / Feeding Instructions:
To obtain a P6 (Mineral-Trace Mineral-Salt Supplement), mix 50 kg Veefos P12 with 50 kg salt. The mixture contains 50% of the minerals indicated above. Feed to ruminants on green grazing as a mineral supplement.

Recommended daily intake (P6):
Cattle 100-200 g
Sheep 17-50 g

FUTTERFOS P6

FUTTERFOS P6
[Klaargemeng]
Reg. No. N - FF 145

FUTTERFOS P6 is die klaargemengde weergawe van Feedmaster Futterfos P14. Dit bied u die gerief van 'n klaargemengde produk. Dit bevat 'n kombinasie van MCP en MAP, wat fosfaatbronne is met die hoogste bio-beskikbaarheid.

- Dit is meer as net fosfaat met 'n nuwe spoormineraalmengsel spesiaal geformuleer vir die groen/reënseisoen.
- Die produk se Ca:P verhouding is 1:1.
- Ontwikkel uit nuwe Namibiese navorsingsresultate.
- Omdat te hoë Ca-vlakke die absorpsie van P en ander spoorminerale(yster, jodium, sink en mangaan) onderdruk en Namibiese sandveld reeds 'n oormaat Ca in verhouding met P bevat, help die 1:1 verhouding van Futterfos P6 om die verhouding reg te stel.

FUTTERFOS P6
[Ready-mixed]
Reg. No. N - FF 145

FUTTERFOS P6 is the ready-mixed version of Feedmaster Futterfos P14. It offers the convenience of a ready-made product.

- It is more than just phosphate with all the necessary trace minerals for the green/rainy season.
- The product has a Ca:P relationship of 1:1.
- Developed from Namibian research results.
- Due to the fact that high levels of Ca suppress the absorption of P and other trace minerals (iron, iodine, zinc and manganese) and that Namibian sand veld area already have high levels of Ca in relation to P, the better ratio of 1:1 of Futterfos P6 improves the absorption of P.

FUTTERFOS P6
Reg. No. N - FF 145 (Act/Wet 36/1947)

Klas: Mineraal-Spoormineraal-Soutaanvulling vir Herkouers
Class: Mineral-Trace Mineral-Salt Supplement for Ruminants

Samestelling / Composition

		Minimum	Maximum		
Fosfaat	g/kg	60		g/kg	Phosphorus
Kalsium	g/kg		66	g/kg	Calcium
Swael	g/kg	2		g/kg	Sulphur
Vog	g/kg		120	g/kg	Moisture
Koper	mg/kg	150		mg/kg	Copper
Mangaan	mg/kg	650		mg/kg	Manganese
Sink	mg/kg	800		mg/kg	Zinc
Kobalt	mg/kg	4		mg/kg	Cobalt
Jodium	mg/kg	15		mg/kg	Iodine
Selenium	mg/kg	3		mg/kg	Selenium
Magnesium	mg/kg	1800		mg/kg	Magnesium

Massa / Mass: 50 kg

Voedinginstruksies: (gereed vir gebruik)
Voer Feedmaster FUTTERFOS P6 aan herkouers op groen weiding as 'n mineraalaanvulling.
Aanbevole daaglikse inname:
Beeste 100-200 g | Skape 17-50 g

Feeding instructions: (Ready to use)
Feed Feedmaster FUTTERFOS P6 to ruminants on green grazing as a mineral supplement.
Recommended daily intake:
Cattle 100-200 g | Sheep 17-50 g

ECO-GRASVELDLEK

ECO-GRASVELDLEK

[Klaargemeng]
Reg. No. N - FF 460

ECO-GRASVELDLEK voorsien die nodige voedingstowwe vir groot- en kleinvee op droë weiding in Namibië.

- Daar word voldoen aan die onderhoudsbehoeftes van u vee met Eco-Grasveldlek om massaverlies in die droë maande te beperk.
- Hierdie produk is geskik vir klein- en grootvee in die hele land. Dit is ideaal om te gebruik waar skaap en bees saam in dieselfde kampe loop.
- Hierdie lek lok nie voëls en bobbejane nie.
- Dit is 'n klaargemengde onderhoudslek.

ECO-GRASSVELD LICK

[Ready-mixed]
Reg. No. N - FF 460

ECO-GRASSVELD LICK supplies the required nutrients to large and small stock feeding on Namibia's dry grazing.

- Your stock's maintenance requirements are fulfilled with Eco-Grassveld Lick to limit weight loss during the dry months.
- This product is suited for small and large stock throughout the country. This is the ideal product to use where sheep and cattle graze together in the same camp.
- This lick does not attract baboons and birds.
- It is a ready-mixed maintenance lick.

ECO-GRASVELDLEK / ECO GRASSVELD LICK

Reg. No. N - FF: 460 (Act/Wet 36/1947)

Klas: Proteïen / Mineraalaanvulling vir Herkouers
Class: Protein / Mineral Supplement for Ruminants

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	300		g/kg	Protein
Proteïen ex NPN	%		80	%	Protein ex NPN
Ureum	g/kg		75	g/kg	Urea
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	15		g/kg	Phosphorus
Kalsium	g/kg		30	g/kg	Calcium
Vesel	g/kg		100	g/kg	Fibre
Swael	g/kg	3.2		g/kg	Sulphur
Koper	mg/kg	32.5		mg/kg	Copper
Mangaan	mg/kg	100		mg/kg	Manganese
Sink	mg/kg	160		mg/kg	Zinc
Kobalt	mg/kg	1.5		mg/kg	Cobalt
Jodium	mg/kg	2.4		mg/kg	Iodine
Selenium	mg/kg	0.7		mg/kg	Selenium
Magnesium	mg/kg	1500		mg/kg	Magnesium

Massa / Mass: 50 kg

WAARSKUWING: Die voer bevat NPN en moet streng volgens voorskrif gevoer word.
WARNING: This feed contains NPN and must be fed strictly according to instructions.
Instructions: Feed as is, no mixing required
Recommended daily intake: Cattle 500 g | Small Stock 85 g

BEESLEK 40

BEESLEK 40
[Klaargemeng]
Reg. No. N – FF 2274

BEESLEK 40 is 'n klaar gemengde lek en word aangewend om aan u bees se onderhoudsbehoeftes te voorsien op droë weiding en sluit hoë vlakke van proteïen en fosfaat in.

- Dit is 'n 40% proteïenlek wat meer proteïen beskikbaar stel vir mikro-organismes in die rumen om vertering te verbeter.
- Veral geskik vir die sandveld-areas van Namibië (Omaheke, Otjozondjupa, Okavango, Caprivi, Oshikoto, Oshana, Ohangwena en Omusati) waar die weiding se kwaliteit swakker is a.g.v. die hoër reënval wat meer sellulose en lignien in die selwandstruktuur veroorsaak en vertering verlaag.
- Die hoër fosfaatvlakke is ook geformuleer uit plaaslike sandveld-navorsingsdata waar die diere op sandveld areas se fosfaatbehoeftes hoër is.
- Bevat alle nodige spoorminerale.
- Hierdie lek lok nie voëls en bobbejane nie.

CATTLE LICK 40
[Ready-mixed]
Reg. No. N - FF 2274

CATTLE LICK 40 is a already mixed lick which meets your cattle's maintenance requirements on dry grazing and includes high levels of protein and phosphate.

- It is a 40% protein lick which provides more protein for rumen micro-organisms to improve digestion.
- The product is primarily suited for the sandy areas of Namibia (Omaheke, Otjozondjupa, Okavango, Caprivi, Oshikoto, Oshana, Ohangwena and Omusati) where the pasture quality is lower because the higher rainfall causes pastures to grow faster and deposits more cellulose and lignin which decrease pasture digestibility.
- Product is also formulated with higher phosphate levels to comply with the local Namibian research data.
- All necessary trace minerals are included.
- This lick does not attract baboons and birds.

BEESLEK 40 / CATTLE LICK 40
Reg. No. N - FF 2274

Klas: Proteïen-Mineraalaanvulling vir Grootvee
Class: Protein-Mineral Supplement for Largestock

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	400		g/kg	Protein
Proteïen ex NPN	%		94	%	Protein ex NPN
Ureum	g/kg		100	g/kg	Urea
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	20		g/kg	Phosphorus
Kalsium	g/kg		30	g/kg	Calcium
Vesel	g/kg		100	g/kg	Fibre
Swael	g/kg	6		g/kg	Sulphur
Koper	mg/kg	32.5		mg/kg	Copper
Mangaan	mg/kg	100		mg/kg	Manganese
Sink	mg/kg	160		mg/kg	Zinc
Kobalt	mg/kg	1.5		mg/kg	Cobalt
Jodium	mg/kg	2.4		mg/kg	Iodine
Selenium	mg/kg	0.7		mg/kg	Selenium
Magnesium	mg/kg	1500		mg/kg	Magnesium

Massa / Mass: 50 kg

WAARSKUWING: Die voer bevat NPN en moet streng volgens voorskrif gevoer word.
WARNING: This feed contains NPN and must be fed strictly according to instructions.
Instructions: Feed as is to cattle, no mixing required.
Recommended daily intake:
Cattle 375 g (not recommended for small stock)

KOEIKALFLEK

KOEIKALFLEK
[Klaargemeng]
Reg. No. N - FF 0365

KOEIKALFLEK is uiters geskik vir groot- en kleinvee waar verhoogde diereproduksie verlang word naamlik:

- Beperk massaverlies by lakterende koeie en ooie.
- Verhoog oestrus.
- Bevorder vrugbaarheid.
- Aanvulling vir bulle en ramme wat hul libido verhoog.
- Verhoogde melkproduksie wat swaarder speenmassa lewer.
- Beperk speenskok by kalwers deurdat die produk oor natuurlike deurvloeiproteïen beskik wat die jong dier makliker op weiding laat aanpas en sodoende minder massaverlies tot gevolg het.
- 'n Moet vir alle stoetdiere.
- Koeikalflek word aangewend om in u KOEIE se onderhoudsbehoeftes te voorsien op uiters droë weiding.
- Hierdie lek lok nie voëls en bobbejane nie.

COW-CALF LICK
[Ready-mixed]
Reg. No. N - FF 0365

COW-CALF LICK is suitable for all the production needs on your farm as to:

- Prevents weight loss among lactating animals.
- Promotes oestrus resulting in higher calving percentages.
- Higher milk production causes higher weaning mass.
- Decreases weaning shock due to the natural bypass protein and natural protein sources in the product that enhance growth, diminish the role of milk, and help the calf to become a ruminant without unnecessary weight loss.
- Increases libido of bulls and rams (optimised fertility).
- A must for all stud animals.
- Cow-Calf Lick meets your COWS' maintenance requirements on very dry grazing and includes high levels of protein and phosphate.
- This lick does not attract baboons and birds.

KOEIKALFLEK / COW-CALF LICK

Reg. No. N - FF: 0365 (Act/Wet 36/1947)

Klas: Proteïen - Mineraalaanvulling vir Herkouers
Class: Protein - Mineral Supplement for Ruminants

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	280		g/kg	Protein
Proteïen ex NPN	%		70	%	Protein ex NPN
Ureum	g/kg		55	g/kg	Urea
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	12		g/kg	Phosphorus
Kalsium	g/kg		24	g/kg	Calcium
Vesel	g/kg		80	g/kg	Fibre
Swael	g/kg	2		g/kg	Sulphur
Koper	mg/kg	32.5		mg/kg	Copper
Mangaan	mg/kg	100		mg/kg	Manganese
Sink	mg/kg	160		mg/kg	Zinc
Kobalt	mg/kg	1.5		mg/kg	Cobalt
Jodium	mg/kg	2.4		mg/kg	Iodine
Selenium	mg/kg	0.7		mg/kg	Selenium
Magnesium	mg/kg	1500		mg/kg	Magnesium

Massa / Mass: 50 kg

WAARSKUWING: Die voer bevat NPN en moet streng volgens voorskrif gevoer word.
WARNING: This feed contains NPN and must be fed strictly according to instructions.
Instruksies: Voer Feedmaster KoeiKalflek as sulks aan slagvee en produserende diere. Geen verdere vermenging nodig nie.
Instructions: Feed Feedmaster Cow-Calf Lick as such to slaughter stock and producing animals. No further mixing required.
Recommended daily intake:
Cattle 450-800 g | Small Stock 100 g

BOSVERTEERLEK

BOSVERTEERLEK
[Klaargemeng]
Reg. No. N - FF 461

Die benutting van bosse en blare word benadeel deur die hoë tannien- of looisuurinhoud van bosse. BOSVERTEERLEK bevat **tannien inhibeerder** wat die tannien bind en dus die benutting van blaarweiding meer doeltreffend te maak.

- Dit is 'n klaargemengde onderhoudslek vir herkouers wat hoofsaaklik bos en blare eet.
- Die proteïeninhoud van die lek, plus die werking van die chemiese bestanddeel, verbeter die dier se totale proteïenbenutting.
- Die unieke produk is so saamgestel dat dit ook suksesvol deur wildboere aangewend kan word.
- Dit is geskik vir alle boksoorte wat ureum benut.
- Dit kan vir beide bees en skaap gegee word.

BUSH IMPROVER LICK
[Ready-mixed]
Reg. No. N - FF 461

The high level of tannins found in bushes limits the nutritional value of bush and leaves. BUSH IMPROVER LICK contains **tannin inhibitor** that binds tannins and improves the utilisation of the available bush.

- It is a ready-mixed maintenance lick for ruminants that prefer bush and leaves.
- The lick's protein content together with the functioning of the chemical ingredient improves the animal's total protein use.
- Due to the unique features of the product it has been composed so that game farmers can also use it successfully.
- The product is especially adapted for all the antelope species that use urea.
- It can be fed to both cattle and sheep.

BOSVERTEERLEK / BUSH IMPROVER LICK
Reg. No. N - FF 461

Klas: Proteïen-Mineraalaanvulling vir Herkouers
Class: Protein-Mineral Supplement for Ruminants

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	250		g/kg	Protein
Proteïen ex NPN	%		70	%	Protein ex NPN
Ureum	g/kg		50	g/kg	Urea
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	12		g/kg	Phosphorus
Kalsium	g/kg		20	g/kg	Calcium
Vesel	g/kg		100	g/kg	Fibre
Swael	g/kg	6.25		g/kg	Sulphur
Koper	mg/kg	32.5		mg/kg	Copper
Mangaan	mg/kg	100		mg/kg	Manganese
Sink	mg/kg	160		mg/kg	Zinc
Kobalt	mg/kg	1.5		mg/kg	Cobalt
Jodium	mg/kg	2.4		mg/kg	Iodine
Selenium	mg/kg	0.7		mg/kg	Selenium
Magnesium	mg/kg	1500		mg/kg	Magnesium
Tannien inhibeerder	**g/kg**	**4**		**g/kg**	**Tannin inhibitor**

Massa / Mass: 50 kg

WARNING: This feed contains NPN Sources and should be fed strictly according to instructions (see bag ticket)
This feed contains Polyethylene Glycol (tannin inhibitor). See bag ticket
Instruksies: Voer Feedmaster Bosverteerlek aan beeste wat bosse as voedingsbron benut. Geen verdere vermenging nodig nie.
Instructions: Feed Feedmaster Bush Improver Lick to cattle utilising browse as nutritional source. No further mixing required.
Recommended daily intake:
Cattle: 500 g | Small stock: 85-125 g

PRODUKSIELEK

PRODUKSIELEK

[Klaargemeng]
Reg. No. N - FF 2277

- Dit is 'n proteïenaanvulling met baie hoër energievlakke as onderhoudslekke.
- Die ideale aanvulling vir lammerooie op droë weiding
- Verhoog speenmassa van lammers en kalwers.
- Help met veselvertering op swakker kwaliteit weiding.
- Bevat vitamien en mineral voormengsel om aan diere se daaglikse behoefte te voorsien.

PRODUCTION LICK

[Ready-mixed]
Reg. No. N - FF 2277

- It is a protein supplement with higher energy levels than maintenance licks.
- Ideal as supplement for lactating ewes on dry grazing.
- Increases weaning weights of lambs and calves.
- Helps with fibre digestion on pasture of low quality.
- Contains Vitamin and mineral premix to satisfy daily needs.

PRODUKSIELEK / PRODUCTION LICK

Reg. No. N - FF: 2277 (Act/Wet 36/1947)

Klas: Proteïen / Mineraal/Energie-aanvulling vir Herkouers
Class: Protein / Mineral-Energy Supplement for Ruminants

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	250		g/kg	Protein
Proteïen ex NPN	%		76	%	Protein ex NPN
Ureum	g/kg		50	g/kg	Urea
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	8		g/kg	Phosphorus
Kalsium	g/kg		24	g/kg	Calcium
Swael	g/kg	1.4		g/kg	Sulphur
Mangaan	mg/kg	100		mg/kg	Manganese
Sink	mg/kg	160		mg/kg	Zinc
Kobalt	mg/kg	1.5		mg/kg	Cobalt
Jodium	mg/kg	2.4		mg/kg	Iodine
Selenium	mg/kg	0.7		mg/kg	Selenium
Magnesium	mg/kg	1500		mg/kg	Magnesium
		Massa / Mass: 40 kg			

WAARSKUWING: Die voer bevat NPN en moet streng volgens voorskrif gevoer word.
WARNING: This feed contains NPN and must be fed strictly according to instructions.
Recommended daily intake:
Bees/Cattle 1 000 - 1 500 g | Kleinvee/Small Stock 250 g - 400 g

WILD & PERDELEK

WILD & PERDELEK
[Klaargemeng]
Reg. No. N - FF 1119

WILD & PERDELEK word van natuurlike proteïenbronne gemaak.

- **Dit bevat geen ureum** nie en daarom is die produk veilig vir alle wildspesies.
- Dit bevat 'n chemiese bestanddeel wat die tannien bind en dus die benutting van bosse meer doeltreffend te maak.
- Die proteïeninhoud van die lek, plus die werking van die tanieninhibeerder, verbeter die dier se totale proteïenbenutting en verhoog sodoende diereproduksie.
- **Hierdie produk is ook 'n hoogs doeltreffende lek vir perde op weiding.**

GAME & HORSE LICK
[Ready-mixed]
Reg. No. N - FF 1119

GAME & HORSE LICK is made from natural sources of protein.

- **It contains no urea.** The product is, therefore, very safe for use by all game species.
- It contains a chemical substance that binds the tannins and therefore enhances the utilisation of bushes.
- The protein content as well as the working of the tannin inhibitor improves the animals' use of protein, thereby improving production.
- **This product is also a highly effective lick for horses on natural pasture.**

WILD & PERDELEK / GAME & HORSE LICK

Reg. No. N - FF 1119 (Act/Wet 36 - 1947)

Klas: Proteïen-Element - Spoorelementaanvulling vir Wild
Class: Protein-Element - Trace Element Supplement for Game

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	180		g/kg	Protein
Proteïen ex NPN	%		0	%	Protein ex NPN
Ureum	g/kg		0	g/kg	Urea
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	10		g/kg	Phosphorus
Kalsium	g/kg		30	g/kg	Calcium
Vesel	g/kg		100	g/kg	Fibre
Koper	mg/kg	32.5		mg/kg	Copper
Mangaan	mg/kg	100		mg/kg	Manganese
Sink	mg/kg	160		mg/kg	Zinc
Kobalt	mg/kg	1.5		mg/kg	Cobalt
Jodium	mg/kg	2.4		mg/kg	Iodine
Selenium	mg/kg	0.7		mg/kg	Selenium
Magnesium	mg/kg	1500		mg/kg	Magnesium
Tannien inhibeerder	g/kg	4		g/kg	Tannin inhibitor

Massa / Mass: 50 kg

Voeraanbevelings:
Voer Feedmaster Wild & Perdelek as sulks aan vry weiende wild en perde. Geen verdere vermenging nodig nie.
Aanbevole daaglikse inname:
200 g lek per 100 kg lewendige massa
This product mainly contains feed ingredients originating from plants. Complete range of Vitamins included.
Feeding recommendations:
Feed Feedmaster Game & Horse Lick as is to free range game and horses. No further mixing required.
Recommended daily intake:
200 g lick per 100 kg of live mass

SKAAPLEK 20

SKAAPLEK 20
Reg. No. N - FF 4265

SKAAPLEK 20 is 'n klaargemengde proteïen-mineraalaanvulling vir skape en bokke op droë weiding.

- Die lek voldoen aan die onderhoudsbehoeftes van kleinvee om massaverlies te beperk.
- 'n Ekonomiese produk om in die winter te begin gebruik.
- Die produk word aanbeveel vir droë- of nie dragtige ooie.
- Ook geskik vir ooie tydens vroeë dragtigheid *(die eerste 3 maande van dragtigheid)*

SHEEP LICK 20
Reg. No. N - FF 4265

SHEEP LICK 20 is a ready mixed protein-mineral supplement for sheep and goats on dry pastures.

- This lick supply in the maintenance requirements of smallstock to prevent weight loss.
- An economic product to start using in the dry winter months.
- The product is ideal for non-lactating and non-pregnant ewes.
- Also ideal for ewes during the first trimester of pregnancy *(first 3 months of pregnancy)*

SKAAPLEK 20 / SHEEP LICK 20
Reg. No. N - FF 4265

Klas: Proteïen-mineraalaanvulling
Class: Protein-mineral Supplement
Samestelling / Composition

		Minimum	Maximum		
Proteïen	%	20		%	Protein
Ureum	g/kg		65	g/kg	Urea
Fosfaat	g/kg	10		g/kg	Phosphorus
Sout	%	30	35	%	Salt

Massa / Mass: 40 kg

WAARSKUWING: Die voer bevat NPN en moet streng volgens voorskrif gevoer word.
WARNING: This feed contains NPN and must be fed strictly according to instructions.
Aanbevole daaglikse inname: 100 – 200g/Ooi/dag
Recommended daily intake: 100 – 200g/Ewe/day

ENERFEED

ENERFEED
Reg. No. N - FF 431

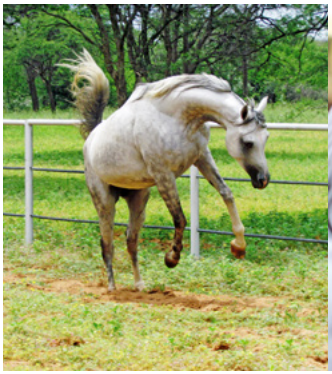
ENERFEED is die **veelsydigste energiebron** in Feedmaster se stal.

- Die produk kan gegee word vir hoenders, varke, perde, beeste, kleinvee, wild en volstruise.
- Dit is 'n gebalanseerde voedingsbron, veral t.o.v. proteïen en energie.
- Enerfeed kan in die meeste gevalle alle grane vervang.
- Die produk bevat geen mielies nie en is uiters geskik vir die maak van voer of lekke waar voëls en bobbejane probleme by lekbakke is.
- Enerfeed veroorsaak dat diere weiding beter benut as dit in produksie lekke gebruik word

ENERFEED
Reg. No. N - FF 431

ENERFEED is the most **versatile energy source** manufactured by Feedmaster.

- The product can be fed to chickens, pigs, horses, cattle, small stock, game and ostriches.
- It is a balanced feed source, particularly in terms of protein and energy.
- Enerfeed can, in most cases, substitute all grains.
- The product does not contain maize and is ideally suited for mixing feeds or licks where birds and baboons that frequent the feed troughs are a problem.
- Enerfeed leads to the better utilization of grazing, when used in production licks.



ENERFEED
Reg. No. N - FF 431 (Act/Wet 36/1947)

Klas: Saamgestelde Energiebron / Class: Compound Energy Source

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	110		g/kg	Protein
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	3		g/kg	Phosphorus
Kalsium	g/kg		9	g/kg	Calcium
Vet	g/kg		75	g/kg	Fat
Vesel	g/kg		56	g/kg	Fibre

Massa / Mass: 50 kg

Gebruiksaanwysings: Voer 1% van liggaamsmassa per dag as 'n energie-aanvulling ná 'n aanpassingstydperk van sewe dae of vermeng met voer soos voorgeskryf deur 'n gekwalifiseerde voedingkundige.
Recommendations: Feed 1% of body weight per day as an energy supplement after an adaptation period of seven days or mix into feed as prescribed by a qualified animal nutritionist.

RANGELAND GROWER

RANGELAND GROWER MEEL

Reg. No. N - FF 133

RANGELAND GROWER se hoë proteïenwaarde en genoegsame energie maak dit 'n baie veelsydige produk om aan grootvee en kleinvee te gee. Hierdie produk bevat geen ruvoer nie en moet dus slegs aan diere gevoer word wat elke dag veld toe gaan of ad lib ruvoer eenkant ontvang. **Oliekoeke dra grootliks by tot die proteïenwaarde.**
Voordele sluit in:

- Diere kan op die veld afgerond word.
- Dit kan as energie en/of natuurlike proteïenbron in lekmengsels gebruik word.
- Dit verhoog kleinvee se melkproduksie sowel as biesmelkkwaliteit.
- Jong stoetdiere kan suksesvol en ekonomies op weiding uitgroei en die produk kan sterk oorweeg word as 'n kruipmeel veral vir grootvee.

RANGELAND GROWER MEAL

Reg. No. N - FF 133

Due to the high protein content and abundant energy of RANGELAND GROWER, it is a versatile feed for small- and large stock. This product does not contain any roughage, thus it should only be fed to animals that have daily access to roughage. **Oil cakes contribute largely to the product's protein levels thus it is a natural protein source.**
Advantages include:

- Animals can be finished on natural grazing.
- Can be used as an energy and/or protein source in the mixing of licks.
- Improves milk production and colostrum (bies) quality of small stock.
- Young stud animals can successfully be grown out on natural grazing and this product can also be used as a creep meal especially for large stock.

RANGELAND GROWER MEEL / MEAL

Reg. No. N - FF 133 (Act/Wet 36/1947)

Klas: Afrondvoedsel vir Herkouers / Class: Finisher Feed for Ruminants

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	170		g/kg	Protein
Proteïen ex NPN	%		4.45	%	Protein ex NPN
Ureum	g/kg		9	g/kg	Urea
Vog	g/kg		58	g/kg	Moisture
Fosfaat	g/kg	6.6		g/kg	Phosphorus
Kalsium	g/kg		11	g/kg	Calcium
Vesel	g/kg	100		g/kg	Fibre
Massa / Mass: 50 kg					

	Veldafronding	Koeikalflek	Produksie / Afrondlek
Rangeland Grower	50 kg	500 kg	750 kg
Beesmix 415		200 kg	200 kg
Ureum		50 kg	50 kg
Sout		250 kg	250 kg
Totaal	50 kg	1000 kg	1250 kg
Innames grootvee	1% van Lewende massa	600 - 800g	750g -1500 g
Innames klienvee	1% van Lewende massa	80 - 100 g	200 -400g

RUMEN OPTIMIZER

RUMEN OPTIMIZER

Reg. No. N - FF 4075

Die 16% proteïen produk is baie hoog in natuurlike- en verbyvloeiproteien. Hierdie produk kan ook gebruik word om jong diere te laat uitgroei. Verlig ook die druk op ooie/koeie wat tot beter herkonsepsie lei.

- Rumen Optimizer is uit Feedmaster se nuutste kruipvoerproewe saamgestel. Die produk het steeds 'n hoë verbyvloeiproteïen soos Rangeland Grower, maar 'n aansienlik verhoogde energie komponent. Dit lei tot beter resultate met kruipvoeding, waar die jong groeiende kalwers 'n hoër energie behoefte het.
- Die produk bevat genoeg stysel om rumenpapilla vinniger op 'n vroeër ouderdom te ontwikkel. Die verbeterde papilla ontwikkeling, verhoog die dier se absorpsie oppervlak en verbeter absorpsie van voedingstowwe vir beter groei.
- Rumen Optimizer is ook geskik vir die laaste fase van skou en veldafronding. Dit kan as opvolg produk gebruik word nadat die diere aangepas en uitgegroei het op Rangeland Grower.
- Rumen Optimizer is 'n semi-volledige voer. Dit is nie 'n lek nie en innames moet dus gereguleer word.

RUMEN OPTIMIZER

Reg. No. N - FF 4075

Rumen Optimizer is a 16 % protein product! This product is mainly used as creep feeding for large and small stock. The product prevents weaning shock and can also be used to maintain the growth potential of young animals.

- The high energy and bypass protein fraction ensure the best development of rumenpapilla, which contribute to more efficient growth and animals that are market ready sooner.
- Rumen Optimizer also relieves the pressure on ewe / cows resulting in better re-conception.
- The bypass protein increase milk production as well as the quality of the colostrum (biesmelk).
- Rumen Optimizer can also be used as a veld finishing product.
- Rumen Optimizer contains a vitamin and mineral pack that meets the needs of young growing animals.
- This urea-free product is also suitable for game.
- The product is supplied at 1% of body mass to animals on natural grazing or with ad lib hay.
- Rumen Optimizer is extremely suitable for the preparation and finishing of show and auction animals.

RUMEN OPTIMIZER

Reg. No. N - FF 4075 (Act/Wet 36/1947)

Klas: Proteïen / Energie-aanvulling vir Herkouers

Class: Protein / Energy Supplement for Ruminants

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	160		g/kg	Protein
Vog	g/kg		120	g/kg	Moisture
Vet	g/kg	25	85	g/kg	Fat
Vesel	g/kg		110	g/kg	Fibre
Vitamien A	(IE)	4000		(IU)	Vitamin A
Kalsium	g/kg		10	g/kg	Calcium
Fosfor	g/kg	4		g/kg	Phosphorus
Magnesium	(mg/kg)	20		(mg/kg)	Magnesium
Swael	g/kg	1.5		g/kg	Sulphur
Kalium	g/kg	5		g/kg	Potassium
Koper	(mg/kg)	10		(mg/kg)	Copper
Mangaan	(mg/kg)	30		(mg/kg)	Manganese
Sink	(mg/kg)	70		(mg/kg)	Zinc
Kobalt	(mg/kg)	0.3		(mg/kg)	Cobalt
Jodium	(mg/kg)	0.8		(mg/kg)	Iodine
Selenium	(mg/kg)	0.3		(mg/kg)	Selenium

Massa / Mass: 50 kg

Instructions: Feed Rumen Optimizer daily at a rate of approximately 1% of body mass.

BEEFPRO 14 KORRELS

BEEFPRO 14 KORRELS

Reg. No. N - FF 1314

BEEFPRO 14 is 'n afrondingskorrel vir stoetvee sonder 'n ruveselkomponent.

- Met sy unieke samestelling met meer natuurlike proteïen kan die produk op die veld of op kraal gebruik word vir die voorbereiding van veiling- en skoudiere.
- Ruvoer moet altyd beskikbaar wees, dus kan dit met lusernkorrels of ruvoer gemeng word as u op kraal wil afrond.
- Lewende giskultuur is in die produk ingemeng om die rumen-omgewing en aanpassing te verbeter.

BEEFPRO 14 PELLETS

Reg. No. N - FF 1314

BEEFPRO 14 is a finishing pellet without roughage, especially for stud animals.

- With its unique composition of increased natural protein it can be used on pasture or in the kraal to prepare animals destined for auctions or shows.
- Roughage must always be available if you do kraal finishing, thus can it be mixed with lucern pellets or roughage for extra fiber.
- A live yeast culture was introduced to improve rumen health and adaptation.

BEEFPRO 14 KORRELS / BEEFPRO 14 PELLETS

Reg. No. N - FF 1314 (Act/Wet 36/1947)

Klas: Afrondingsvoedsel vir Herkouers

Class: Finisher Feed for Ruminants

Samestelling / Composition

		Minimum	**Maximum**		
Proteïen	g/kg	140		g/kg	Protein
Proteïen ex NPN	%		26	%	Protein ex NPN
Ureum	g/kg		10	g/kg	Urea
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	4.5		g/kg	Phosphorus
Kalsium	g/kg		10	g/kg	Calcium
Vet	g/kg	25		g/kg	Fat
Vesel	g/kg		120	g/kg	Fibre
Swael	g/kg	1.35		g/kg	Sulphur
Koper	mg/kg	10		mg/kg	Copper
Mangaan	mg/kg	30		mg/kg	Manganese
Sink	mg/kg	70		mg/kg	Zinc
Kobalt	mg/kg	0.3		mg/kg	Cobalt
Jodium	mg/kg	0.8		mg/kg	Iodine
Selenium	mg/kg	0.3		mg/kg	Selenium
Vitamien A	IE/kg	4000		IU/kg	Vitamin A

Massa / Mass: 50 kg

WAARSKUWINGS / WARNINGS:

Die voer bevat NPN (ureum) en moet streng volgens voorskrif gevoer word (sien sakkaartjies).
This feed contains NPN (urea) and must be fed strictly according to instructions (see bag ticket).
Vitamin activity decreases with time. Consult the manufacturer or a nutritionist.

Instruksies: Voer Feedmaster Beefpro 14 korrels as sulks. Geen verdere vermenging nodig nie.
Instructions: Feed Feedmaster Beefpro 14 pellets as is. No mixing required.

Aanbevole daaglikse inname / Recommended daily intake

Voer teen sowat 1% tot 2% van lewendige massa aan beeste en skape met ad lib ruvoer ná aanpassingsperiode van sewe dae.
Feed at approximate 1% to 2% of live mass to cattle and sheep with ad lib roughage after a seven-day adaptation period.

ENERMOL

ENERMOL
Reg. No. N - FF 1456

ENERMOL is 'n **molasse meel** wat verskeie aspekte van energie-aanvulling by herkouers in ag neem.

- Dit bevat 'n vinnig fermenteerbare energiebron wat energie vir die mikrobes in die grootpens voorsien.
- Dit is veral belangrik vir die doeltreffende benutting van ureum in lekke.
- Enermol verskaf vinnig fermenteerbare energie in die grootpens sowel as 'n hoogs verteerbare energiebron wat direk aan die herkouer se energiebehoeftes voorsien.
- Dit ideale produk om saam met Droëveldkonsentraat, Grasveldkonsentraat, Bosverteerkonsentraat en Beesmix 4:1:5 in die voorgeskrewe resepte te meng.

ENERMOL
Reg. No. N - FF 1456

ENERMOL is a **molasses meal** that combines multiple aspects of energy in ruminants' supplementation.

- It contains rapidly fermentable energy that supplies energy to the microbes in the rumen.
- This is especially important for the effective use of urea in licks that contain urea.
- Enermol synergistically supplies a highly digestible source of energy, directly meeting the energy needs of the ruminant.
- The ideal product to use in mixtures with Dry Veld Concentrate, Grassveld Concentrate, Bush Improver Concentrate or Cattle Mix 4:1:5 according to the prescribed recipes.

ENERMOL

Reg. No. N - FF 1456 (Act/Wet 36 - 1947)

Klas: Energie-aanvulling vir diere / Class: Energy Supplement for animals

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	100		g/kg	Protein
Vog	g/kg		160	g/kg	Moisture
Fosfaat	g/kg	3		g/kg	Phosphorus
Kalsium	g/kg		9	g/kg	Calcium
Vet	g/kg	25		g/kg	Fat
Vesel	g/kg		70	g/kg	Fibre

Massa / Mass: 50 kg

Gebruiksaanwysings: Voer 1% van liggaamsmassa per dag as 'n energie-aanvulling ná 'n aanpassingstydperk van sewe dae of vermeng met voer soos voorgeskryf deur 'n gekwalifiseerde voedingkundige.

Recommendations: Feed 1% of body weight per day as an energy supplement after an adaptation period of seven days or mix into feed as prescribed by a qualified animal nutritionist.

LEKSTROOP 33

LEKSTROOP 33

Reg. No. N - FF 2294 (Act/Wet 36/1947)

Klas: Energie / Proteïen / Spoormineraal-aanvulling
Class: Energy / Protein / Trace Mineral Supplement

Samestelling / Composition

	Minimum	Maximum	
Proteïen	330		Protein
Proteïen vanaf NPN %		100	Protein from NPN
Vog		95	Moisture
Ureum		400	Urea
N:S	10	97	N:S
(IE/kg) Vitamiene A	1 500	12	Vitamin A (IU/kg)

Massa / Mass: 25 kg

NPN WARNING

Vinegar is an effective remedy against NPN poisoning. Mix with equal amount of water. Dose: Half a bottle per calf or large sheep or 2 to 4 bottles per head of cattle (1 bottle = 750 ml).
Protect this farm feed against rain. NPN is soluble and animals drinking such a solution could be poisoned.
Do not feed this farm feed with other NPN containing farm feeds.
Consult an animal scientist. This is a supplement and not a feed. Sufficient grazing and/or roughage must be available at all times.
Keep the lick troughs filled and prevent gluttonous eating by hungry animals. A constant daily intake can help to prevent poisoning.
Before feeding a NPN containing lick, feed an ordinary salt/phosphate lick for at least 7 days.

Voerinstruksies:
Aanbevole Inname (g/dier/dag)
Skape 70 - 150
Beeste 450 - 600

Behandeling van swak kwaliteit ruvoer:
Vermeng 25 kg Feedmaster Lekstroop 33 met 25 liter water en behandel 300 kg ruvoer met die mengsel deur dit op te spuit of oor te giet.

Feeding instructions:
Recommended Intake (g/animal/day)
Small Stock 70 - 150
Cattle 450 - 600

Treatment of poor quality roughage:
Mix 25 kg Feedmaster Lekstroop 33 with 25 litres of water and treat 300 kg roughage with the mixture by spraying or pouring it onto the roughage.

MOLASSESTROOP

MOLASSESTROOP

Reg. No. N - FF 1628 (Act/Wet 36/1947)

Klas: Energie-aanvulling
Class: Energy Supplement

Samestelling / Composition

	Minimum	Maximum	
Proteïen	50		Protein
Vog		400	Moisture

Massa / Mass: 25 kg

Voerinstruksies:
Feedmaster Molassestroop kan tot 20% van die energie-komponent in 'n rantsoen vervang.
Behandeling van swak kwaliteit ruvoer:
Meng 25 kg Feedmaster Molasse Stroop met 25 liter water en behandel 300 kg ruvoer met die mengsel deur dit op te spuit of oor te giet.

Feeding instructions:
Feedmaster Molassestroop can replace up to 20% of the energy component of a ration.
Treatment of poor quality roughage:
Mix 25 kg Feedmaster Molassestroop with 25 litres of water and treat 300 kg roughage with the mixture by spraying or pouring it onto the roughage.

Gebruiks aanwysing saam met HPK 30 / Usage with Feedmaster HPK 30

	Veldafrond	Kraalafrond	Volvoer	Skaapafrond
Feedmaster HPK 30	300 kg	200 kg	150 kg	150 kg
Enerfeed / Enermol / Hominy Chop / Mielies	600 kg	700 kg	500 kg	400 kg
Feedmaster Molasse Stroop	100 kg	100 kg	100 kg	100 kg
Ruvoer Voer / Roughage	ad lib	ad lib	250 kg	350 kg
Ammonium Chloried				10 kg

DROËVELDKONSENTRAAT

DROËVELDKONSENTRAAT

Reg. No. N - FF 142

DROËVELDKONSENTRAAT is 'n proteïen-minerale lekkonsentraat EN MOET DUS VERMENG WORD.

- Word aanbeveel in lekmengsels regoor Namibië en buurlande waar hoër fosfaatvlakke vereis word.
- Die konsentraat kan met 'n hele reeks plaaslike grondstowwe soos kameeldoringboom en prosopispeule vermeng word om lekke kostedoeltreffend te meng.
- Feedmasterpersoneel kan u met die formulering daarvan bystaan.
- Volledige menginstruksies van die produk is op die sakkaartjies beskikbaar.

DROËVELDKONSENTRAAT IS U VEELDOELIGE MENGSELVENNOOT!

DRY VELD CONCENTRATE

Reg. No. N - FF 142

DRY VELD CONCENTRATE is a protein-mineral lick concentrate AND MUST THEREFORE BE MIXED.

- Recommended in lick mixes across Namibia where higher phosphate levels are required.
- The concentrate can be mixed with many local raw materials like camel-thorn and prosopis pods, ensuring a cost-effective lick.
- Feedmaster staff can aid you with the formulation of such licks.
- Complete mixing instructions for the product is printed on the bag labels.

DRY VELD CONCENTRATE IS YOUR PARTNER IN MULTI PURPOSE MIXTURES!

DROËVELDKONSENTRAAT

Reg. No. N - FF 142

Klas: Proteïen-minerale Lekkonsentraat
Class: Protein-mineral Lick Concentrate

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	600		g/kg	Protein
Proteïen ex NPN	%		89	%	Proteïen ex NPN
Ureum	g/kg		150	g/kg	Urea
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	30		g/kg	Phosphorus
Kalsium	g/kg		60	g/kg	Calcium
Vesel	g/kg		80	g/kg	Fibre
Swael	g/kg	12.5		g/kg	Sulphur
Koper	mg/kg	65		mg/kg	Copper
Mangaan	mg/kg	200		mg/kg	Manganese
Sink	mg/kg	320		mg/kg	Zinc
Kobalt	mg/kg	3		mg/kg	Cobalt
Jodium	mg/kg	4.8		mg/kg	Iodine
Selenium	mg/kg	1.4		mg/kg	Selenium
Magnesium	mg/kg	3000		mg/kg	Magnesium
Vitamien A	IE/kg	18000		IU/kg	Vitamin A

Massa / Mass: 50 kg

WARNING: This feed contains urea and must be used strictly according to instructions (see bag ticket).

Menginstruksies / Mixing Instructions:
Sien Keersy / See Overleaf

DRY VELD CONCENTRATE MIXING OPTIONS

Product	Eco-Grasveldlek	Beeslek 40	Koeikalflek	Produksielek	Veldafrondmeel	Peule-Droëveldlek
Mixing instructions:						
- Droëveldkonsentraat	50 kg / 1 bag	100 kg 2 bags	400 kg 8 bags	100 kg 2 bags	50 kg 1 bag	150 kg 3 bags
- Salt	50 kg / 1bag	50 kg 1 bag	200 kg 4 bags	50 kg 1 bag		100 kg 2 bags
- Maize meal/Ener-feed/Hominy Chop/ Enermol			400 kg 8 bags	250 kg 5 bags	250 kg 5 bags	
- Kameeldoring/ Camel thorn						50 kg 1 bag
TOTAL / TOTAAL	100 kg /2 bags	150 kg / 3 bags	1000 kg / 20 bags	400 kg/8 bags	300 kg / 6 bags	300 kg / 6 bags
Product Class	Protein-Mineral-Trace Mineral Supplement for Cattle/Sheep	Protein-Mineral-Trace Mineral Supplement for Cattle	Protein-Mineral-Trace Mineral Supplement for Cattle	Protein-Energy Mineral-Trace Mineral Supplement for Ruminants	Beef finisher feed	Protein-Energy Mineral-Trace Mineral Supplement for Ruminants

Samestelling /Composition (g/kg)												
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Protein	300		400		280		200		170		300	
Protein ex Urea %		71.75		71.75		64.6		53.81		42.2		71.75
Protein ex NPN (total)%		89		89		80		66.28		52		89
Urea		75		100		56.25		37.5		25		75
Moisture		120		120		120		120		120		120
Crude Fibre		40		53		40		40		40		53
Calcium		30		39.6		33		20		12		30
Phosphorus	15		19.8		11.25		10		6		15	
INTAKE: Cattle Sheep	500 g 84 g		370 g not recommended		600 g 100 g		1 000 g – 1 500 g 250 g - 400 g		Feed at 1% of body weight with ad lib roughage or grazing		500 g 150g	
NOTE:	Sufficient (ad lib) roughage or grazing must be available at all times											

BEESMIX 4:1:5

BEESMIX 4:1:5 KONSENTRAAT

[Moet gemeng word]
Reg. No. N - FF 1686

Feedmaster BEESMIX 4:1:5 is 'n produk vir die boer wat self meng. Dit is by uitstek ontwikkel en getoets in die sandvelddele van ons land. Dit is geskik vir boere wat sukkel met hoë innames, sekere grondstowwe wat nie altyd beskikbaar is nie en diere wat hoë proteïen- en fosfaatbehoeftes het.

- Beesmix 4:1:5 verskaf aan vee die nodige proteïen, fosfaat en spoorminerale vir optimale veldbenutting.
- Die 1:1 Ca:P verhouding dra by tot beter opname van fosfaat.
- Al wat u moet doen, is om ureum, sout en energieprodukte by te voeg om u eie onderhoud-, koeikalf- en afrondlekke te meng.
- Volledige menginstruksies is op die sakkaartjies beskikbaar.

CATTLE MIX 4:1:5 CONCENTRATE

[Must be mixed]
Reg. No. N - FF 1686

Feedmaster CATTLE MIX 4:1:5 is a product for farmers who prefer to mix their own licks. It was developed and tested particularly for the sandy areas in Namibia. It is suitable for farmers struggling with high intake, lack of certain raw materials and animals that have high protein and phosphate needs.

- Cattle Mix 4:1:5 supplies stock with protein, phosphate and trace minerals for optimum use of natural grazing.
- The 1:1 Ca:P ratio allows more effective phosphorus absorption.
- All you need to do is add urea, salt and energy sources to mix your own maintenance, cow-calf lick or finisher licks.
- Complete mixing instructions are provided on the bag labels.
- It can be fed to both cattle and sheep.

BEESMIX 4:1:5 / CATTLE MIX 4:1:5

Reg. No. N - FF 1686 (Act/Wet 36/1947)

Klas: Proteïen--Mineraal-spoormineraal konsentraat vir Beeste

Class: Protein-Mineral-Trace mineral concentrate for Cattle

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	280		g/kg	Protein
Proteïen ex NPN	%		80	%	Protein ex NPN
Ureum	g/kg		25	g/kg	Urea
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	50		g/kg	Phosphorus
Kalsium	g/kg		60	g/kg	Calcium
Swael	g/kg	8		g/kg	Sulphur
Koper	mg/kg	65		mg/kg	Copper
Mangaan	mg/kg	200		mg/kg	Manganese
Sink	mg/kg	320		mg/kg	Zinc
Kobalt	mg/kg	3		mg/kg	Cobalt
Jodium	mg/kg	4.8		mg/kg	Iodine
Selenium	mg/kg	1.4		mg/kg	Selenium
Magnesium	mg/kg	3000		mg/kg	Magnesium
Vitamien A	IE/kg	18000		IU/kg	Vitamin A

Massa / Mass: 50 kg

WARNING: This feed contains NPN and must be fed strictly according to instructions.
WAARSKUWING: Die voer bevat NPN en moet streng volgens voorskrif gevoer word.
Not recommended for sheep.

MIXING INSTRUCTIONS

	Beeslek 40	Koeikalflek	Produksielek
Beesmix 4:1:5	200 kg (4 bags)	200 kg (4 bags)	200 kg (4 bags)
Urea	50 kg (1 bag)	50 kg (1 bag)	50 kg (1 bag)
Salt	250 kg (5 bags)	250 kg (5 bags)	250 kg (5 bags)
Enerfeed / Enermol / Maize meal		500 kg (10 bags)	750 kg (15 bags)
TOTAL MIX	500 kg (10 bags)	1 000 kg (20 bags)	1 250 kg (25 bags)
Product description	40 % Dry Veld Lick™ for weight maintenance of cattle	25-28% steam up lick for cows in production and weaners	23-25% Production lick for increased production in cattle

	Min	Max	Min	Max	Min	Max
Crude Protein (g/kg)	400		250		230	
Protein ex NPN (%)		77		61.6		53.7
Urea (g/kg)		110		55		44
Phosphorus (g/kg)	20		11		7	
Calcium (g/kg)		40		22		16
Sulphur (g/kg)	3.2		1.6		1.28	
Vitamin A (IU/kg)	7200		3600		2880	
Energy (mg/kg)			7		8	
Recommended intake for cattle	375 g/day		600 g/day		1 000-1 500 g/day	

GRASVELDKONSENTRAAT

GRASVELDKONSENTRAAT

Reg. No. N - FF 2850

GRASVELDKONSENTRAAT is 'n proteïen-minerale lekkonsentraat EN MOET DUS VERMENG WORD.

- Die konsentraat kan met 'n hele reeks plaaslike grondstowwe soos kameelboom- en prosopispeule vermeng word om lekke kostedoeltreffend te meng.
- Word aanbeveel vir westelike en suidwestelike dele van die land waar hoë fosfaatvlakke in lekke minder krities is.
- Feedmaster-personeel kan u met die formulering daarvan bystaan.
- Volledige menginstruksies vir op die sakkaartjies beskikbaar.

GRASVELDKONSENTRAAT IS U EKONOMIESE LEKKONSENTRAAT.

GRASSVELD CONCENTRATE

Reg. No. N - FF 2850

GRASSVELD CONCENTRATE is a protein-mineral lick concentrate AND MUST THEREFORE BE MIXED.

- The concentrate can be mixed with many local raw materials like camel-thorn and prosopis pods, ensuring a cost-effective lick.
- Recommended in lick mixes for the and veld or areas where higher phosphate levels are not critical.
- Feedmaster staff can aid with the formulation of such licks.
- Complete mixing instructions for the product, is printed on the bag labels.

GRASSVELD CONCENTRATE IS YOUR ECONOMICAL LICK CONCENTRATE.

GRASVELDKONSENTRAAT / GRASSVELD CONCENTRATE

Reg. No. N - FF 2850

Klas: Proteïen-minerale Lekkonsentraat

Class: Protein-mineral Lick Concentrate

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	600		g/kg	Protein
Proteïen ex NPN	%		81.3	%	Protein ex NPN
Ureum	g/kg		170	g/kg	Urea
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	24		g/kg	Phosphorus
Kalsium	g/kg		60	g/kg	Calcium
Vesel	g/kg	40		g/kg	Fibre
Swael	g/kg	12.5		g/kg	Sulphur
Koper	mg/kg	65		mg/kg	Copper
Mangaan	mg/kg	200		mg/kg	Manganese
Sink	mg/kg	320		mg/kg	Zinc
Kobalt	mg/kg	3		mg/kg	Cobalt
Jodium	mg/kg	4.8		mg/kg	Iodine
Selenium	mg/kg	1.4		mg/kg	Selenium
Magnesium	mg/kg	3000		mg/kg	Magnesium
Vitamien A	IE/kg	18000		IU/kg	Vitamin A

Massa / Mass: 50 kg

WAARSKUWING: Die voer bevat NPN en moet streng volgens voorskrif gevoer word. (see bag ticket)
WARNING: This feed contains NPN and must be fed strictly according to instructions.
Mixing Instructions: Mix 50kg of Grassveld Concentrate with 50kg salt.
Recommended intake: large stock 500g per day / small stock 80-100g per day (Final feed)

BOSVERTEERKONSENTRAAT

BOSVERTEER-KONSENTRAAT

Reg. No. N - FF 2831

BOSVERTEERKONSENTRAAT is 'n proteïen-minerale lekkonsentraat EN MOET DUS VERMENG WORD.

- Die benutting van bosse en blare word benadeel deur die hoë tannien- of looisuurinhoud van bosse.
- Bosverteerkonsentraat bevat **tannien inhibeerder** wat die tannien bind en dus die benutting van bosse meer doeltreffend maak.
- Die konsentraat kan met 'n hele reeks plaaslike grondstowwe soos kameelboom- en prosopispeule vermeng word om lekke kostedoeltreffend te meng. Feedmaster-personeel kan u met die formulering daarvan bystaan.
- Volledige menginstruksies vir onderhoudslekke en afrondvoere is op die sakkaartjies beskikbaar.

BUSH IMPROVER CONCENTRATE

Reg. No. N - FF 2831

BUSH IMPROVER CONCENTRATE is a protein-mineral lick concentrate AND MUST THEREFORE BE MIXED.

- The high level of tannins found in bushes limits the nutritional value of bush and leaves.
- Bush Improver Concentrate contains **tannin inhibitor** that binds tannins and improves the utilisation of the available bush.
- The concentrate can be mixed with many local raw materials like camel-thorn and prosopis pods, ensuring a cost-effective lick. Feedmaster staff can aid you with the formulation of such licks.
- Complete mixing instructions for maintenance licks and finishing feeds, are printed on the bag labels.

BOSVERTEERKONSENTRAAT / BUSH IMPROVER CONCENTRATE

Reg. No. N - FF 2831

Klas: Proteïen-minerale Lekkonsentraat
Class: Protein-mineral Lick Concentrate

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	500		g/kg	Protein
Proteïen ex NPN	%		89	%	Protein ex NPN
Ureum	g/kg		150	g/kg	Urea
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	30		g/kg	Phosphorus
Kalsium	g/kg		60	g/kg	Calcium
Vesel	g/kg		80	g/kg	Fibre
Swael	g/kg	12.5		g/kg	Sulphur
Koper	mg/kg	65		mg/kg	Copper
Mangaan	mg/kg	200		mg/kg	Manganese
Sink	mg/kg	320		mg/kg	Zinc
Kobalt	mg/kg	3		mg/kg	Cobalt
Jodium	mg/kg	4.8		mg/kg	Iodine
Selenium	mg/kg	1.4		mg/kg	Selenium
Magnesium	mg/kg	3000		mg/kg	Magnesium
Vitamien A	IE/kg	18000		IU/kg	Vitamin A
Tanien inhibeerder	**g/kg**	**8**		**g/kg**	**Tannin inhibitor**

Massa / Mass: 50 kg

WAARSKUWING: Die voer bevat NPN en moet streng volgens voorskrif gevoer word.(see bag ticket)
WARNING: This feed contains NPN and must be fed strictly according to instructions.
Mixing Instructions: Mix 50kg of Bush Improver Concentrate with 50kg salt.
Recommended intake: large stock 500g per day / small stock 85-125g per day (Final feed).

VOERKONSENTRAAT HPK 30

VOERKONSENTRAAT HPK 30

Reg. No. N - FF 1054

VOERKONSENTRAAT HPK 30 is 'n hoogs gespesialiseerde proteïenkonsentraat vir afronding van beeste/skape/bokke.

- Verskeie mengsels is moontlik om aan u behoeftes te voldoen.
- Gebruik u eie grondstowwe indien u stoetdiere of diere in 'n voerkraal wil afrond.
- Dit is baie smaaklik en bevat voldoende molasse en natuurlike proteïenbronne.
- Katoensaad is deel van die konsentraat om veral 'n beter haarkleed by stoetdiere te bewerkstellig.
- Volledige menginstruksies is op die sakkaartjies beskikbaar.
- Lewende giskultuur is in die produk ingemeng om die rumen-gesondheid en aanpassing te verbeter.

FEED CONCENTRATE HPC 30

Reg. No. N - FF 1054

FEED CONCENTRATE HPC 30 is a highly specialised protein for finishing cattle/sheep/goats.

- Various mixes are possible to cater for your particular needs.
- Should you want to finish stud or feedlot animals, you can mix the product with your own raw materials.
- It is very tasty and contains sufficient molasses and natural protein.
- Cottonseed has been added to improve hair growth in stud animals.
- Complete mixing instructions are printed on the bag label.
- A live yeast culture was intoduced to improve rumen health and adaptation.

VOERKONSENTRAAT HPK 30 / FEED CONCENTRATE HPC 30

Reg. No. N - FF 1054 (Act/Wet 36 of/van 1947)

Klas: Vetmaakkonsentraat vir herkouers

Class: Fattening concentrate for ruminants

Samestelling / Composition

		HPK 30	A	B	C	D
Mix: HPC 30			300 kg	200 kg	150 kg	150 kg
Energy Sources eg. Enerfeed			700 kg	800 kg	600 kg	500 kg
Roughage			ad lib	ad lib	250 kg	350 kg
Class			Veld Finisher/ Afronding	Kraal Finisher/ Afronding	Cattle Complete Feed/Beesvolvoer	Sheep Complete feed/Skaapvolvoer
Protein (min)	(g/kg)	300	160	140	130	130
Protein ex NPN (total)	(%)	80	24	16	12	12
Protein ex Urea	(%)	70	21	14	10.5	10.5
Urea (max)	(g/kg)	75	22.5	15	11.25	11.25
Amm. Sulph./Chloride	(g/kg)	75	22.5	15	11.25	11.25
Moisture (max)	(g/kg)	120	120	120	120	120
Fat (min)	(g/kg)	25	25	25	25	25
Fibre (max)	(g/kg)	45	80	80	130	150
Vitamin A (IU/kg)	(IU/kg)	20 000	10 800	7 200	4 800	4 800
Calcium (max)	(g/kg)	55	10	10	12	10
Phosphorus (min)	(g/kg)	9	4.5	3.5	2.5	2.5
Cobalt (min)	(mg/kg)	1.5	0.18	0.12	0.09	0.09
Copper (min)	(mg/kg)	50	14.4	9.6	7.2	7.2
Iodine (min)	(mg/kg)	4	0.36	0.24	0.18	0.18
Manganese (min)	(mg/kg)	150	72	48	36	36
Selenium (min)	(mg/kg)	1.5	0.54	0.36	0.27	0.27
Zinc (min)	(mg/kg)	350	56.1	37.4	28	28

Massa / Mass: 50 kg

WARNING:
This feed contains NPN sources and permitted stock remedies. It must be fed strictly according to instructions (see bag ticket).
Die voer bevat NPN-bronne en medikamente. Dit moet streng volgens voorskrif gevoer word (sien sakkaartjies).

Instruksies:
Afrondingsvoer word ad lib met ad lib ruvoer gevoer. Mengsel A is geskik om diere op die veld af te rond en Mengsel B vir afronding van diere op kraal. Die mengsel is geskik vir beeste in 'n kafeteria-stelsel. Mengsel C en Mengsel D is geskik as 'n volledige voer vir onderskeidelik bees en skaap.

Instructions:
Finisher feeds are fed ad lib with ad lib roughage. Feed Mixture A to fatten animals off the veld and Mixture B to animals for finishing on kraal with ad lib hay. This mixture is suitable for cattle in a cafeteria system. Mixture C and Mixture D are suitable as a complete feed for cattle and sheep respectively.

FEEDLOT 80

FEEDLOT 80
Reg. No. N-FF 5018

Feedlot 80 is 'n afrondingskonsentraat vir herkouers met 'n hoër ureumkonsentrasie as Voerkonsentraat HPK 30, wat die vetmaak van slagdiere moontlik maak. Hierdie hoë proteïenkonsentraat bevat 'n grootpens buffer genaamd Acid Buff wat dit moontlik maak om slagdiere in voerkrale vet te maak sonder die risiko van Asidose en 'n verwante afname in prestasie of selfs die dood as gevolg van akute Asidose.

'n Voormengsel van vitamien-minerale verseker dat al die vitamiene en minerale benodigdhede van die voerkraaldier gedurende die vetperiode voor slagting nagekom word, en om 'n sterk beenstruktuur en korrekte suur-basisbalans in die bloedstelsel te verseker, wat Osteochondrose kan help voorkom.

FEEDLOT 80
Reg. No. N-FF 5018

Feedlot 80 is a fattening concentrate for ruminants with a higher urea concentration than Feed Concentrate HPC 30, allowing for more economical fattening of slaughter animals. This high protein concentrate contains a rumen buffer called Acid Buff which allows slaughter animals to be fattened off in feedlots without the risk of acidosis and a related decrease in performance or even death due to acute acidosis.

A vitamin-mineral premix ensures that all the vitamin and mineral requirements of the feedlot animal are met during the time of fattening before slaughter and to ensure a strong bone structure and correct acid-base balance in the blood system, preventing osteochondrosis.

FEEDLOT 80

Reg. No. N-FF 5018

Klas: Vetmaakkonsentraat vir beeste

Class: Fattening concentrate for cattle

Samestelling /Composition

		Minimum	Maximum		
Proteïen	g/kg	800		g/kg	Protein
Proteïen ex NPN	%		73	%	Protein ex NPN
Ureum	%		25.2	%	Urea
Vog	g/kg		120	g/kg	Moisture
Kalsium	g/kg	80	120	g/kg	Calcium
Phosphorus	g/kg	10	100	g/kg	Fosfor
Ca:P		1:1	1:1.5		Ca:P
Magnesium	g/kg	2.5		g/kg	Magnesium
Sulphur	g/kg	1		g/kg	Swael
Copper	g/kg	20		g/kg	Koper
Vitamin A	UI/kg	8000		UI/kg	Vitamien A
Manganese	mg/kg	60		mg/kg	Mangaan
Zinc	mg/kg	140		mg/kg	Sink
Cobalt	mg/kg	0.6		mg/kg	Kobalt
Iodine	mg/kg	1.6		mg/kg	Jodium
Selenium	mg/kg	0.6		mg/kg	Selenium

This product contains a complete mineral and Vitamin premix.

Massa / Mass: 50 kg

WAARSKUWING: Die voer bevat NPN en moet streng volgens voorskrif gevoer word. Sien keersy.

Voeraanbevelings:

'n semi-volledige voer kan met Feedlot 80-konsentraat gemeng word deur dit met Enerfeed of Kiemmeel te meng vir vetmaking in 'n voerkraal of vir veldafwerking.

WARNING: This feed contains NPN f and must be fed strictly according to instructions. See overleaf.

Feeding recommendations:

A semi-complete feed can be mixed with Feedlot 80 concentrate by mixing it with Enerfeed or hominy chop for fattening in a feedlot or for veld finishing

Recommended intake for Cattle	Feed ad lib after 7 day adaptation period	Feed 1 to 1.5% of bodyweight after 7 day adaptation period with ad lib hay

BREKER 12

BREKER 12
Reg. No. N - FF 1629

- Is 'n volledige geformuleerde voer om kleinvee en grootvee mee af te rond.
- Word sonder byvoeding van graan of ruvoer aan grootvee, skaap, wild, volstruise en perde verskaf.
- Bevat 'n hoë kwaliteit natuurlike proteïen (geen ureum) sodat dit suksesvol aan hoë produserende diere en wild voorsien kan word.
- Bevat 'n vitamien-mineraal voormengsel om in die daaglikse behoeftes te voorsien.
- Bevat ammoniumchloried en ammoniumsulfaat om die vorming van blaasstene te voorkom.

Aanbevole inname
- Voer as sulks ná 'n aanpassingstydperk van sewe dae tesame met voldoende goeie kwaliteit hooi (geen verdere vermenging nodig nie).
- Vir aanvulling op natuurlike weiding voer 1 tot 1.5% van lewendige massa.
- Vir diere op swak en onvoldoende weiding kan Breker 12 teen 2.5 tot 3% van lewendige massa gevoer word.
- Tydens droogtes waar geen veld beskikbaar is nie, kan Breker 12 ad lib ná aanpassing gegee word.

BREKER 12
Reg. No. N - FF 1629

- Is a complete feed formulated to fatten small stock and large stock.
- Is provided to large stock, sheep, game, ostriches and horses without any additional grain or roughage.
- Contains a high-quality natural protein (no urea) so that it can be fed to productive livestock and game.
- Contains a Vitamin/mineral premix to satisfy daily needs.
- Contains ammonium chloride and ammonium sulphate to prevent the forming of stones in the bladder.

Recommended intake
- Feed as is after phasing in over 7 days in conjunction with sufficient good quality hay (no extra mixing is required).
- For supplementation on natural pastures feed 1 - 1.5% of live mass.
- For animals on poor pastures Breker 12 can be fed at 2.5 - 3% of live mass.
- During periods of droughts when no veld is available Breker 12 can be fed ad lib after adaptation.

BREKER 12

Reg. No. N - FF 1629 (Act/Wet 36/1947)

Klas: Volledige Voer vir Herbivore

Class: Complete Feed for Herbivores

Samestelling /Composition

		Minimum	Maximum		
Proteïen	g/kg	120		g/kg	Protein
Proteïen ex NPN	%		14.9	%	Protein ex NPN
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	2		g/kg	Phosphorus
Kalsium	g/kg		15	g/kg	Calcium
Vet	g/kg	15	70	g/kg	Fat
Vesel	g/kg	110	250	g/kg	Fibre

This product contains a complete mineral and Vitamin premix.

Massa / Mass: 50 kg

WAARSKUWING: Die voer bevat NPN afkomstig van Ammoniumchloried en/of Ammoniumsulfaat en moet streng volgens voorskrif gevoer word. Hierdie produk is ureumvry. Sien keersy.

Voeraanbevelings:

Voer as sulks. Geen verdere vermenging nodig nie.

Aanbevole daaglikse inname:

Voer sonder beperking aan alle herbivore ná 'n aanpassingstyperk van 7 tot 10 dae. Voorsien voldoende vreetspasie. Kan in bakke of op 'n harde oppervlak gevoer word.

WARNING: This feed contains NPN from Ammonium Chloride and/or Ammoniun Sulphate and must be fed strictly according to instructions. This product contains no urea. See overleaf.

Feeding recommendations:

Feed as is. No mixing required.

Recommended daily intake:

Feed without restriction to all herbivores after a 7 to 10 day adaptation period. Supply sufficient feeding space. Can be fed in troughs or on hard surfaces.

RAM-LAM-OOIKORRELS

RAM-LAM-OOIKORRELS

Reg. No. N - FF 137

- Spesifiek saamgestel om aan die hoë voedingsbehoeftes van jong lammers te voldoen.
- Ideaal wanneer lammers vroeg gespeen word en/of bedags in krale afgehok word soos by bokboerdery.
- Hierdie korrels verminder speenskok en hou die lammers in 'n positiewe groeikurwe.
- Die korrels stimuleer biesmelk en melkproduksie van die ooi.
- Verhoog ramme se vrugbaarheid en libido vir die dekseisoen.
- Bevat ammoniumchloried en ammoniumsulfaat om die vorming van blaasstene te voorkom.

RAM-LAMB-EWE PELLETS

Reg. No. N - FF 137

- Specifically formulated to comply with the high nutrient needs of young lambs.
- Pellets are ideal for conditions where lambs are weaned early or where they are kraaled by day, as done in goat farming.
- Reduces weaning shock and keeps the lambs in a positive growth curve.
- During lambing the pellets improve colostrum and milk production of the ewe.
- The rams' fertility and libido are improved for the mating season.
- Contains ammonium chloride and ammonium sulphate to prevent the forming of stones in the bladder.

RAM-LAM-OOIKORRELS / RAM-LAMB-EWE PELLETS

Reg. No. N - FF 137 (Act/Wet 36/1947)

Klas: Volledige Voer vir Herbivore

Class: Complete Feed for Herbivores

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	140		g/kg	Protein
Proteïen ex NPN	%		40	%	Protein ex NPN
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	3		g/kg	Phosphorus
Kalsium	g/kg		12	g/kg	Calcium
Vet	g/kg	25	70	g/kg	Fat
Vesel	g/kg		150	g/kg	Fibre
Swael	g/kg	1.4		g/kg	Sulphur
Koper	mg/kg	2		mg/kg	Copper
Mangaan	mg/kg	40		mg/kg	Manganese
Sink	mg/kg	60		mg/kg	Zinc
Kobalt	mg/kg	1		mg/kg	Cobalt
Jodium	mg/kg	1		mg/kg	Iodine
Selenium	mg/kg	0.3		mg/kg	Selenium
Magnesium	mg/kg	220		mg/kg	Magnesium
Vitamien A	IE/kg	5000		IU/kg	Vitamin A

Massa / Mass: 50 kg

WAARSKUWING: Die voer bevat NPN afkomstig van Ammoniumchloried en/of Ammoniumsulfaat en moet streng volgens voorskrif gevoer word. Hierdie produk is ureumvry. Sien keersy.
Voeraanbevelings: Voer as sulks teen 1 - 2% van lewendige massa. Geen verdere vermenging nodig nie.
Aanbevole daaglikse inname: Voer sonder beperking aan alle herbivore ná 'n aanpassingstydperk van 7 tot 10 dae. Voorsien voldoende vreetspasie. Kan in bakke of op harde oppervlaktes gevoer word.

WARNING: This feed contains NPN from Ammonium Chloride and/or Ammoniun Sulphate and must be fed strictly according to instructions. This product contains no urea. See overleaf.
Feeding Instructions: Feed as is at 1 - 2% of live weight. No mixing required.
Recommended daily intake: Feed without restriction to all herbivores after a 7 to 10 day adaptation period. Supply sufficient feeding space. Can be fed in troughs or on hard surfaces.

STOETVEEKOS

STOETVEEKOS

Reg. No. N - FF 0943

Dit is die beste voer om jong aanteeldiere te laat uitgroei. Dit verseker optimale testisgroei en -ontwikkeling.

- Bevat 'n hoë kwaliteit proteïen (geen ureum) wat goeie spierontwikkeling sowel as hoë vrugbaarheid sonder oormatige vetaanpakking verseker.
- Ideaal vir die voorbereiding van ramme en ooie vir skoue en veilings.
- Voorkom bouvorm probleme deurdat die energie-, proteïen- en mineraalinhoud (makro- en mikrominerale) inhoud só geformuleer is dat die diere 'n gematigde groeitempo handhaaf.
- Bevat ammoniumchloried en ammoniumsulfaat om die vorming van blaasstene te voorkom.
- Bevat 'n vitamien-mineraal voormengsel om aan die daaglikse behoeftes te voorsien.
- Lewende giskultuur is ook in die produk ingemeng om die rumenomgewing en aanpassing te verbeter.

Aanbevole inname:
Pas diere geleidelik aan volgens die voorskrifte vir Afrondkorrels totdat die diere ná sewe dae dit ad lib ontvang.

STUD FEED

Reg. No. N - FF 0943

It is the best feed to enhance growth of young reproducing animals, thereby ensuring optimal growth and development of the testes.

- Contains a high quality protein (no urea) to ensure good muscle development and fertility without excessive fat.
- Ideal for the preparation of rams and ewes for shows and auctions.
- Prevents conformation problems as the energy-protein mineral content (macro- and micro minerals) is formulated to sustain moderate growth tempo.
- Contains ammonium chloride and ammonium sulphate to prevent the forming of stones in the bladder.
- Contains a Vitamin/mineral premix to satisfy daily needs.
- A live yeast culture was introduced to improve rumen health and adaptation.

Recommended intake:
Gradually adapt animals as prescribed under Finisher Pellets until, after seven days, they are ready to feed ad lib.

STOETVEEKOS / STUD FEED

Reg. No. N - FF 0943 (Act/Wet 36/1947)

Klas: Volledige Voer vir Herbivore

Class: Complete Feed for Herbivores

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	140		g/kg	Protein
Proteïen ex NPN	%		11.2	%	Protein ex NPN
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	2		g/kg	Phosphorus
Kalsium	g/kg		15	g/kg	Calcium
Vet	g/kg	25	75	g/kg	Fat
Vesel	g/kg		150	g/kg	Fibre
Swael	g/kg	1.4		g/kg	Sulphur
Koper	mg/kg	2		mg/kg	Copper
Mangaan	mg/kg	40		mg/kg	Manganese
Sink	mg/kg	60		mg/kg	Zinc
Kobalt	mg/kg	1		mg/kg	Cobalt
Jodium	mg/kg	1		mg/kg	Iodine
Selenium	mg/kg	0.3		mg/kg	Selenium
Magnesium	mg/kg	220		mg/kg	Magnesium
Vitamien A	IE/kg	5000		IU/kg	Vitamin A

Massa / Mass: 50 kg

WAARSKUWING: Die voer bevat NPN afkomstig van Ammoniumchloried en/of Ammoniumsulfaat en moet streng volgens voorskrif gevoer word. Hierdie produk is ureumvry. Sien keersy.

WARNING: This feed contains NPN from Ammonium Chloride and/or Ammoniun Sulphate and must be fed strictly according to instructions. This product contains no urea. See overleaf.

Instruksies / Recommendations: Voer sonder beperkinge. Geen vermenging nodig nie.Voer sonder beperking aan alle herbivore ná 'n 7 tot 10 dae aanpassingsperiode. Voorsien voldoende vreet spasie. Kan in bakke of op harde oppervlaktes gevoer word. / Feed as is. No mixing required. Feed without restriction to all herbivores after a 7 to 10 day adaptation period. Supply sufficient feeding space. Can be fed in troughs or on hard surfaces.

SKAAPAFROND

SKAAPAFROND
Reg. No. N-FF 0944

'n Volledige voer om vee op die kraal af te rond vir veilings en skoue.
- Word sonder byvoeding van graan of ruvoer aan grootvee, skaap, bokke, wild, volstruise en perde verskaf.
- Bevat 'n hoë kwaliteit natuurlike proteïen (geen ureum) sodat dit suksesvol aan hoë produserende diere en wild voorsien kan word.
- Bevat 'n vitamien-mineraal voormengsel om in die daaglikse behoeftes te voorsien.
- Bevat ammoniumchloried en ammoniumsulfaat om die vorming van blaasstene te voorkom.

Aanbevole inname:
- Voer as sulks ná 'n aanpassingstydperk van 7 dae tesame met voldoende goeie kwaliteit hooi (geen verdere vermenging nodig nie).
- Vir aanvulling op natuurlike weiding voer 1 tot 1.5% van lewendige massa.
- Vir diere op swak en onvoldoende weiding kan Skaapafrondkorrels teen 2.5 tot 3% van lewendige massa gevoer word.
- Tydens droogtes waar geen veld beskikbaar is nie, kan Skaapafrondkorrels ad lib ná aanpassing gegee word.

SHEEP FINISHER
Reg. No. N-FF 0944

A complete feed to round off livestock for auctions and shows
- Is provided to large stock, sheep, goats, game, ostriches, and horses without any additional grain or roughage.
- Contains a high-quality natural protein (no urea) so that it can be fed to producing livestock and game.
- Contains a vitamin/mineral premix to satisfy daily needs.
- Contains ammonium chloride and ammonium sulphate to prevent the forming of bladder stones.

Recommended intake:
- Feed as is after phasing in over 7 days in conjunction with sufficient good quality hay (no extra mixing is required).
- For supplementation on natural pastures feed 1 - 1.5% of the live mass.
- For animals, on poor pastures, Sheep Finisher Pellets can be fed at 2.5 - 3% of the live mass.
- During periods of droughts when no veld is available Sheep Finisher Pellets can be fed ad lib after adaptation

SKAAPAFROND / SHEEP FINISHER

Reg. No. N-FF 0944 (Act/Wet 36/1947)

Klas: Volledige Voer vir Herbivore

Class: Complete Feed for Herbivores

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	130		g/kg	Protein
Proteïen ex NPN	%		12.1	%	Protein ex NPN
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	3		g/kg	Phosphorus
Kalsium	g/kg		12	g/kg	Calcium
Vet	g/kg	25	75	g/kg	Fat
Vesel	g/kg	110	200	g/kg	Fibre
Swael	g/kg	1.4		g/kg	Sulphur
Koper	mg/kg	2		mg/kg	Copper
Mangaan	mg/kg	40		mg/kg	Manganese
Sink	mg/kg	60		mg/kg	Zinc
Kobalt	mg/kg	1		mg/kg	Cobalt
Jodium	mg/kg	1		mg/kg	Iodine
Selenium	mg/kg	0.3		mg/kg	Selenium
Magnesium	mg/kg	220		mg/kg	Magnesium
Vitamien A	IE/kg	5000		IU/kg	Vitamin A

This product contains a complete mineral and Vitamin premix.

Massa / Mass: 50 kg

WARNING: This feed contains NPN from Ammonium Chloride and/or Ammonium Sulphate and must be fed strictly according to instructions (see bag ticket).

Mixing/Feeding Instructions: Feed as is. No mixing required. Feed without restriction to all herbivores after a 7 to 10 day adaption period. Supply sufficient feeding space. Can be fed in troughs or on hard surfaces.

Recommended daily intake: Feed without restriction to all herbivores after a 7 to 10 day adaption period.

KRUIPVEEKOS

KRUIPVEEKOS
Reg. No N - FF 0093

- Deurvloeiproteïenbronne maak grootste deel van die proteïenfraksie uit – **UREUMVRY**
- Ideaal vir kruipvoer, speenskok en uitgroei van stoetdiere
- Die beste voer vir lammers jonger as 6 maande
- Kan ook as kruipvoer vir kalwers gebruik word
- Hoë kwaliteit deurvloeiproteïen vir optimale groei
- Verseker optimale spierselvermeerdering en spiergroei tussen 2 weke en 6 maande ouderdom
- Vroeër bemarking van lammers direk van die veld
- Kruipvoer verlig druk op ooie wat lei tot beter herbesetting
- Voorsien aan daaglikse Vitamien/mineraal behoeftes.

CREEP FEED PELLETS
Reg. No N - FF 0093

- The biggest portion of protein sources consist of bypass protein sources – **UREA FREE**
- Ideal for creep feed, wean-shock and growing of stud animals
- The best feed for lambs younger than 6 months
- Can also be used as creep feed for calves
- High quality bypass protein for optimal growth
- Market lambs earlier directly from the veld
- Relieve pressure on ewes during drought spells for better re-conception
- Contains a Vitamin/mineral premix to satisfy daily needs.

KRUIPVEEKOS / CREEP FEED PELLETS

Reg. No. N - FF 0093 (Act/Wet 36/1947)

Klas / Class: Ooi en lammervoedsel / Ewe and Lamb Feed

Samestelling / Composition

		Minimum	Maximum		
Proteïen	g/kg	150		g/kg	Protein
Proteïen ex NPN	%		11.2	%	Protein ex NPN
Vog	g/kg		120	g/kg	Moisture
Fosfaat	g/kg	2		g/kg	Phosphorus
Kalsium	g/kg		15	g/kg	Calcium
Vet	g/kg	25	75	g/kg	Fat
Vesel	g/kg		150	g/kg	Fibre
Koper	mg/kg	2		mg/kg	Copper
Mangaan	mg/kg	40		mg/kg	Manganese
Sink	mg/kg	60		mg/kg	Zinc
Kobalt	mg/kg	1		mg/kg	Cobalt
Jodium	mg/kg	1		mg/kg	Iodine
Selenium	mg/kg	0.3		mg/kg	Selenium
Magnesium	mg/kg	220		mg/kg	Magnesium
Vitamien A	IE/kg	5000		IU/kg	Vitamin A

Massa / Mass: 50 kg

WAARSKUWING: Die voer bevat NPN afkomstig van Ammoniumchloried en/of Ammoniumsulfaat en moet streng volgens voorskrif gevoer word. Hierdie produk is ureumvry. Sien keersy.
Instruksies: Voer sonder beperkinge. Geen vermenging nodig nie. Voer sonder beperking aan alle herbivore ná 'n 7 tot 10 dae aanpassingsperiode. Voorsien voldoende vreetspasie. Kan in bakke of op harde oppervlaktes gevoer word.

WARNING: This feed contains NPN from Ammonium Chloride and/or Ammoniun Sulphate and must be fed strictly according to instructions. This product contains no urea. See overleaf.
Recommendations: Feed as is. No mixing required. Feed without restriction to all herbivores after a 7 to 10 day adaptation period. Supply sufficient feeding space. Can be fed in troughs or on hard surfaces.

KRUIPVOEDING VAN LAMMERS

Kruipvoeding bestaan uit 'n hoë spesifikasie produk wat saam met die lam se melkinname die hoogste groeitempo moet teweegbring. Dit word dus voorsien aan lammers wat nog nie gespeen is nie. Lammers toon reeds al op 2-4 weke ouderdom innames van tussen 5 tot 80 g.

Voordele van kruipvoer:

- Kruipvoeding dien as 'n goeie aanvulling wanneer die ooie of vervangingsooie te min melk het of waar meerlinge dieselfde melkvooraad moet deel.
- Lammers wat kruipvoer ontvang, speen makliker, speen vroeër en lewer swaarder speenmassas.
- Dit help lammers wat in winterveld toestande of droogtes gebore word om beter te groei.
- Kruipvoer help om die lammers se rumen vroeg al aan te pas vir voerkraal omstandighede.
- Lammers kan deur middel van kruipvoer hulle volle genetiese potensiaal wys by bv. stoetdiere.
- Ooie wie se lammers kruipvoer ontvang, toon minder massaverlies gedurende laktasie en hoër besettingsyfers kan verwag word.
- Die winsgewendheid van kruipvoer lê nie alleen in die hoë speenmassas nie, maar wel in die hoër vleisproduksie per eenheidsoppervlakte en die moontlike hoër lampersentasie van die ooie.

CREEP FEEDING OF LAMBS

Creep feed is a high specification product, which if used together with the milk of the ewe should result in maximum growth rate of the lamb. Creep feed is fed to unweaned lambs. At the age of 2-4 weeks lambs already showed feed intakes of 5 to 80g.

The Advantages of creep feed:

- Creep feed is a great supplement when the ewes do not produce enough milk or when ewes have multiple lambs.
- Lambs that receive creep feed can be weaned more easily at an earlier age with higher carcass masses.
- Creep feed allows lambs born in winter or drought times to grow faster.
- Creep feed helps to adapt the rumen flora to feedlot conditions.
- With the help of creep feed lambs can reach their full genetic potential.
- Ewes of lambs that receive creep feed suffer less weight loss and higher conception rates can be expected as ewes wean at a higher body condition.
- The profitability of creep feed is not restricted to the higher weaning masses of lambs but also in the higher meat production per area and the possible higher lambing percentage of the ewes.

LICK BLOCKS

FEEDMASTER GAME BLOCK

This block can be used as amaintenance supplement when pastures are dry.

- Improve reproduction and maintain condition of animals.
- Improves the intake and digestibility of natural grazing.
- No lick troughs required.
- Contains no urea and thus also safe for horses.

FEEDMASTER DRYVELD BLOCK

This block is intended as a maintenance supplement when pastures are dry.

- This block is a wellbalanced mineral-protein supplement and can be fed as is.
- Always ensure that sufficient grazing is available when supplements are provided.
- To ensure that animals are not salt hungry feed a phosphate supplement for at least seven days before introducing the Dryveld Block.

FEEDMASTER ENERGY BLOCK

This block can be used as a production and maintenance supplement for animals on dry pastures, and is especially useful for increased production from lactating animals.

- A well-balanced mineral-protein and energy supplement and can be fed as is.
- Always ensure that sufficient grazing is available when supplementing.
- To ensure that animals are not salt hungry feed a phosphate supplement for at least seven days before introducing the Energy Block.

FEEDMASTER FUTTERFOS BLOCK

This block is suitable for use as a Phosphorus supplement for animals on green grazing.

- Designed for Namibian conditions with a Ca:P ratio of 1:1.
- Phosphate sources with the highest bio-availability were used in the manufacturing of this block.
- The Futterfos Block is a balanced mineral supplement and no further supplements are required on green grazing.

MORE PRODUCTS

MORE PRODUCTS FROM THE FEEDMASTER STALL

Balanced Calf feeds

- Calf Starter pellets
- Calf Grower pellets

Balanced Horse feeds

- Equimaster Endurance
- Equimaster Maintenance
- Equimaster Performance
- Equibran

Balanced Pig feeds

- Pig Creep feed
- Pig Grower meal
- Pig Finisher meal
- Boar and Sow pellets

Balanced Game feeds

- Standard Game / Stud Game Pellets
- Game lick with medicine on special request

Balanced Dairy feeds

- Maxi Dairy 15%, 17%, 19%, 21%
- Econo Dairy 15%, 17%, 19%, 21%
- Super Diary 15%, 17%, 19%, 21%

Balanced Pet feeds

- Rex & Jock dog pellets
- Hondepap
- ProPet -range

For more info on any of the above products, please contact
Feedmaster Windhoek Tel: 061 290 1300
and visit us at www.facebook.com/ProPetNamibia/

ADAPTATION & NUTRITION

FEEDLOT ADAPTATION AND NUTRITION

- Ruminants perform better in a feedlot if they are properly prepared. Animals that had not been previously vaccinated against Pulpy kidney and Pasteurella should be vaccinated four weeks before arriving at the Feedlot. They should be vaccinated again at arrival. Animals who were previously vaccinated should be vaccinated fourteen days before arrival.
- All animals should be dewormed at arrival and if necessary treated against external parasites (ticks). If eye infections occur, all the animals should be treated; otherwise the infection can spread through flies.
- Feedlot Performance will be improved if the animals are sorted and grouped according to age, weight, condition and sex. The grouping of animals eliminates the effect of dominance between animals and gives all animals equal feeding chance.
- To successfully adapt animals in feedlots, it is important that the Phase 1 feed ration has a lower energy value with a higher fibre content to adapt the rumen bacteria from a high fibre ration (natural pasture) to the high energy rations of growing and finishing phases. If adaptation is not optimal, the rumen pH will drop too rapidly and cause acidosis which will result in death or permanent loss of growth and performance.
- Lambs that are finished just after weaning, should receive creep feed before weaning while they are still with the ewes. This reduces weaning shock and they adapt easily to a complete feed ration.
- To adapt to show rations, animals can be fed at 1% of live weight Lucern pellets or Breker 12 pellets for 7 days. After the adaptation period proceed to feed Beefpro 14 at 1-1.5 % of live weight for cattle or ad lib feeding of Stud feed pellets to sheep.
- During the feeding period, a representative group (about 10 %) of the animals in the feedlot should be weighed weekly to determine when they reach the target weight. This is also to determine if the sheep show satisfactory growth. A scale is essential to any feedlot, because the efficiency of finishing cannot be monitored without a scale.
- It is essential that animals should be fed at least two to three times a day and that feeding troughs should be eaten empty before they are filled again. Ruminants are not eager to eat contaminated feed (for example with saliva).
- The more frequently fresh feed is fed in small portions, the higher the animals' intake, the faster they grow. A high feeding frequency is able to save up to 1 kg of feed per kg weight gain in sheep; this has a positive effect on the feed margin.
- The anticipated duration of the feeding period can be calculated if the average weight of the animals at the beginning of the feeding period is subtracted from the required average weight at the end of the feeding period, the difference is then divided by the estimated average daily weight gain (ADG) of the animals. This gives you the anticipated feeding period. For example: in small stock if the starting weight is 20 kg, the desired final weight 50 kg and the expected ADG is 0.3 kg, the expected feeding period will be 100 days {(50 - 20) ÷ 0,3}.
- The feeding period will shorten as the initial weight or growth rate rises. If the initial weight is higher due to good care taken during the suckling period of the lambs, it will improve feed efficiency.
- The total amount of feed required per animal, can be calculated by multiplying the ADG (0.3 kg) with the amount of food the animal will need to put on 1 kg of weight (4 kg in sheep) , and then multiplying it by the feeding period (100 days in this case). If the expected feeding period is 100 days, 120 kg of feed is required (0.3 x 4 x 100).
- It is important to keep the feed ration composition the same throughout the entire feeding period.
- If possible, a HPC with a yeast culture should be included to reduce digestive disorders on high grain rations and to improve feed conversion and growth, thus to increase profit. Vitamins and minerals improve resistance to stress and disease thus increases feed intake, growth and feed conversion. The Vitamins mix should contain Niacin (a B Vitamin).

WARNING LICKS WITH NPN CONTENT:

- Vinegar is an effective remedy against NPN poisoning. Mix with equal amount of water. Dose: Half a bottle per calf or large sheep or 2 to 4 bottles per head of cattle (1 bottle = 750 ml).
- Protect this farm feed against rain. NPN is soluble and animals drinking such a solution could be poisoned.
- Do not feed this farm feed indiscriminately with other NPN containing farm feeds. Consult an animal scientist.
- This is a supplement and not a feed. Sufficient grazing and / or roughage must available at all times.
- Keep the lick troughs filled and prevent gluttonous eating by hungry animals. A constant daily intake can help to prevent poisoning.
- Before feeding a NPN containing lick, feed an ordinary salt/phosphate lick for at least 7 days.

THE BIOLOGICAL ASPECTS

1. PROTEIN

Why do cattle and sheep (ruminants) benefit from urea while pigs and humans derive no benefit from it?

This question is connected to another: How can ruminants survive on grass, but single-stomach animals like pigs will gradually die of hunger? All grass-eating animals have a large place in their digestive system in which the large fibrous feeds can be halted and fermentation may take place.

In ruminants, the rumen fulfils the need of a fermentation cask. The volume of an adult rumen varies from animal to animal, but it is usually in the vicinity of 4 to 10 litres in sheep and 100 to 300 litres in cattle.

In as early as 1891, researchers indicated that a lack of protein in the feed brings about a decrease in digestibility of particularly the fibrous parts of feed. Ruminants, and not single-stomach animals, use microbes (bacteria and protozoa) to help them digest food to a certain extent, and later the animal digests the more easily digestible microbes in the small intestine for own use. The cell walls of the grass eaten by cattle need to be digested first so that the more easily digestible contents of the cells can be put to use. Cell walls consist mainly of cellulose that the animal is not able to digest without assistance. This digestion is done through the enzyme cellulose that is released by specific bacteria. No glands or organs in the animal's body are capable of releasing this enzyme or other enzymes that digest cellulose. The fewer bacteria present, the slower the rate of digestion, the slower the flow of food to the lower digestive tract, the slower the eating rate of the animal because the stomach is still too full and eventually less nutrient matter is absorbed and the animal becomes thin.

Urea (a source of non-protein nitrogen) plays an important role in building up large populations of microbes, thereby aiding digestion. A grazing ruminant's diet contains a protein concentration of as low as 3% in poor quality roughage to as high as 25% in young, actively growing grazing. Nitrogen is a building block of amino acids and these are building blocks of protein. Dietary nitrogen is used firstly by the rumen microbes. The rumen microbes are capable of building amino acids of simple nitrogen compounds. One kilogram of urea that contains 46% nitrogen has the equivalent of 2,87 kg protein due to the ability of microbes to build amino acids.

These amino acids produced by the rumen microbes make the ruminant independent of an outside source of essential amino acids.

An essential amino acid can best be described by the following example:

If a child builds Lego blocks in the following sequence:
4 blue
1 yellow
2 green

he would be able to continue until a certain colour is no longer available. As soon as, for instance, all the yellow blocks have been used, he will NEVER be able to build a similar tower. The yellow block is, therefore, essential.

The same happens with the "building" of protein. If an animal "builds" a specific protein, e.g. muscle protein, and one amino acid is missing, then muscle growth stops there.
The primary shortfall in dry grazing is protein. Energy deficits also occur, but with protein supplements the digestibility and intake of veld grasses are improved with the result that sufficient energy becomes available.

When carbohydrates such as starches and sugars that ferment easily are available in the rumen, the microbe population increases and is activated, and microbe protein is easily produced from the urea.

Urea can replace protein partially or entirely in the diet of ruminants. Yet, a certain amount of natural protein in the feed will improve the utilisation of urea.

From the above it is clear that the aim of a protein lick (either dry veld lick or winter lick) is to enhance the intake of roughage, but not to replace it. If there is a shortage of roughage a winter lick could even be damaging due to the increased intake. As the veld improves after rain, animals will eat less lick and the supplement can eventually be stopped.

2. PHOSPHATE SUPPLEMENTS – WHEN, WHY AND HOW MUCH?

The Armoedsvlakte ("Poverty Plain") of the Northern Cape is synonymous with research on phosphate supplements. According to oral history, earlier cattle farmers' struggle for existence gave the region its name. Cattle just could not grow (as low as 50% of adult mass) and the cows had very low calving percentages. Today, after the "discovery" of phosphate, it is one of the foremost meat-producing areas of South Africa.

During dry veld conditions, nitrogen is the first weak link in the cattle food chain, whereas during the green months, the weak link is without a doubt phosphate. Research has repeatedly proven that phosphate supplements increase calving percentages, milk production and therefore pre-weaning growth. In most Namibian regions, a 6 g-phosphate supplement/cow/day will enhance her genetic potential for milk production to such an extent that the calf may flourish and enjoy maximum pre-weaning growth.

Just as the value of raw protein in grazing falls in the dry season, so the value of phosphate in natural grazing is less in winter than in summer. There is a very close relationship between phosphorus and the availability of energy, while nitrogen (raw protein) is also involved. The principle is simple. Green grazing has sufficient protein for the animal, but because the animal is growing, producing milk and building body reserves, her need for phosphate increases beyond that which the grazing can supply. Protein remains sufficient and need not be supplemented. In the dry months the grazing has even less phosphate, but without sufficient protein a phosphate lick will be useless. It's like a car that has run out of fuel (protein) – adding to the oil level will not help at all. Phosphate must, however, be added to winter licks, but only after the lack of protein has been dealt with. In practice this means that dry veld lick that contains 12 g phosphate/kg will, at an intake rate of 500 g lick, provide 6 g phosphate. Similarly, a green veld lick containing 60 g/kg phosphate (P6 lick) at an intake rate of 100 g/day will also supply 6 g phosphate to the animal.

In summary
- With green grazing, phosphate is the first limiting nutrient in the food chain. In dry conditions it is protein.
- Phosphate supplements enhance calving percentages, milk production, pre-weaning growth and weight gain.
- With dry grazing, supplementing phosphate without supplementing protein makes no sense.

3. TANNIN INHIBITING – IS THIS NECESSARY ON MY FARM?

The effect of tannin in the digestive system of ruminants was first noticed in browsers. After kudu died mysteriously on small game farms in the ex-Northern Transvaal, research was launched into the phenomenon in 1981 under leadership of Prof. Wouter van der Hoven. The experiments led to the conclusion that the kudu had poor digestion in the winter, in spite of the fact that the quality and availability of fodder was good.

Tannin is the agent used in the tanning of hides. It reacts with the protein molecule in the hide and forms an insoluble tannin-protein compound that cannot be destroyed by micro organisms. More or less the same happens in the rumen of an animal. Even though the animal eats sufficient protein, the micro organisms are not able to digest the protein. The result is that digestion slows down; less is eaten because the rumen is full; the animal feels satisfied but becomes thinner. To make matters worse, bush increases its tannin levels when it is browsed. Prof. Van der Hoven's team found that, after they had given trees "a hiding" with sticks and whips, the sweet-thorn increased its tannin levels to 94% within an hour and the weeping wattle within 15 minutes to as much as 256%.

It takes, on average, up to between 50 and 100 hours before the tannin levels are back to normal. However, this is not the end of the story. The research team found that a thorn tree that grew 5 metres away from the one that got the "hiding" increased its tannin levels to 87% within 9 hours.

Strydom (1991) examined a solution to the problem in his Master's studies. By adding PEG (polyethylene glycol) to sheep rations that had various levels of tannin, it was found that:
1) the digestibility of protein is enhanced
2) nitrogen retention is increased
3) metabolising energy is increased

These results were found at a level of 3 to 5% condensed tannin in the ration. According to Strydom (1991), the question that still needs to be answered is what the real tannin levels are in the diet of free-ranging animals in the various Namibian regions. He reckons that most regions do not have excessively high levels, but that the situation worsens during droughts and in winter. Prof. Van der Hoven indicated that a heavy stocking rate in a camp causes every bush (or one close by) to be visited and thus the tannin levels will increase.

From practical experience and personal communications it is evident that the farmers in the low-grass/high-bush areas of Outjo, Tsumeb and Grootfontein had excellent results after adding PEG to lick or water. However, adding PEG to water makes it very difficult to control the intake of PEG per animal. It may happen that, at a trough with a ball valve, the first cattle may get sufficient PEG or even too much, whilst the last animals will get nothing.

The real test lies in the hands of every farmer. Farmers who think that their cattle or sheep eat high percentages of leaves, can put two groups of animals in the same type of camp and provide PEG to one group and not the other, for three or more winter months. The comparison in growth and condition of the two groups will indicate whether PEG is a must for the farm or not.

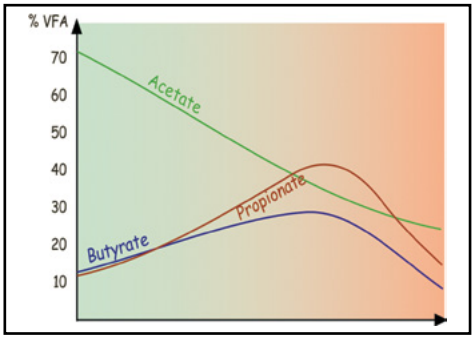
4. LEWENDE GISKULTUUR – IN FEEDMASTER PRODUKTE

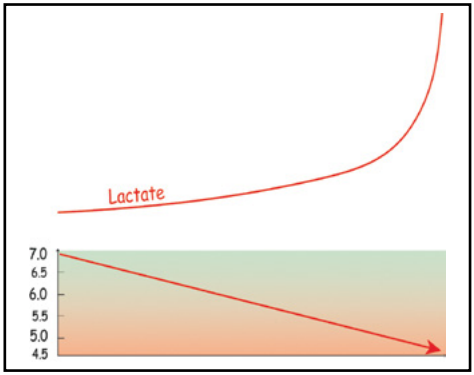
Omdat groeistimulante en ionofore taboe in Namibië is, het Feedmaster & Veekos die inisiatief geneem om na ander wettige opsies te kyk om produkte te formuleer wat verbeterde diereprestasie kan verseker. Dit het ons op actisalt laat afkom wat in Frankryk vervaardig word. Dit is 'n 100% natuurlike produk wat ook in die EU toelaatbaar is. ACTISAF is 'n lewende giskultuur wat soortgelyke voordele as ionofore inhou. Beide Stoetvee, Skaapafrond, Beefpro 14 en HPK 30 is reeds geformuleer en in die mark beskikbaar met die nuwe giskultuur daarin.

Lae vlakke van gis in herkouervoere het die eerste keer aandag geniet in die vyftiger jare waarna grootskaalse navorsing en proewe plaasgevind het. Die produkte word deesdae sterk aanbeveel in voerkraalrantsoene in lande soos onder meer Namibië waar groeibevorderaars soos Rumensin verbied word.

Wanneer diere in 'n voerkraal geplaas word, is daar verskeie voeding-, gedrag- en immuun-stresreaksies om te oorkom. Sulke stresreaksies sluit in patogeniese organismes, voerveranderings, transport, inentings en kastrasies. Addisioneel is daar ook nog nie 'n sosiale struktuur onder hulle gevestig nie, wat groei of prestasie kan beïnvloed.

Die uitdaging is: Optimalisering van voerinname om groei te bevorder en om saam met dit die metaboliese steurnisse te beperk as gevolg van die hoër styseldieet. Waar diere op 'n hoër styseldieet geplaas word, het dit 'n effek op die rumen mikro-organisme populasie wat weer 'n effek het op die vlugtige vetsuurkonsentrasies in die rumen (sien aangehegte grafieke). Soos wat die asynsuurvlakke (acetate) verlaag, verhoog die bottersuur (buterate) en propionsuur (propionate) in die rumen.





Daarmee saam is daar 'n skerp styging in die melksuur (laktaat) in die rumen wat 'n onmiddellike en liniêre verlaging in die rumen pH tot gevolg het en sodoende rumenasidose oftewel suurpens tot gevolg het. Met die insluiting van giskultuur in voerkraalrantsoene kan die steurnisse voorkom word.

In kort veroorsaak die insluiting van die lewende giskultuur soos actisalt Sc47 in Feedmaster se korrelprodukte die volgende voordele in die rumen naamlik:

- Verlaging van melksuur (laktaat).
- Stabilisering van rumen pH.
- Verbeterde veselvertering en vinnige aanpassing op voerkraalrantsoene.
- Balansering van die mikroflora.
- Verhoging van die totale vlugtige vetsuurproduksie.
- Verhoging van die produksie van vleisboublokke soos mikrobe-proteïen.

Bogenoemde voordele lei tot vinniger aanpassing op kraal met gepaardgaande beter prestasie en groei.

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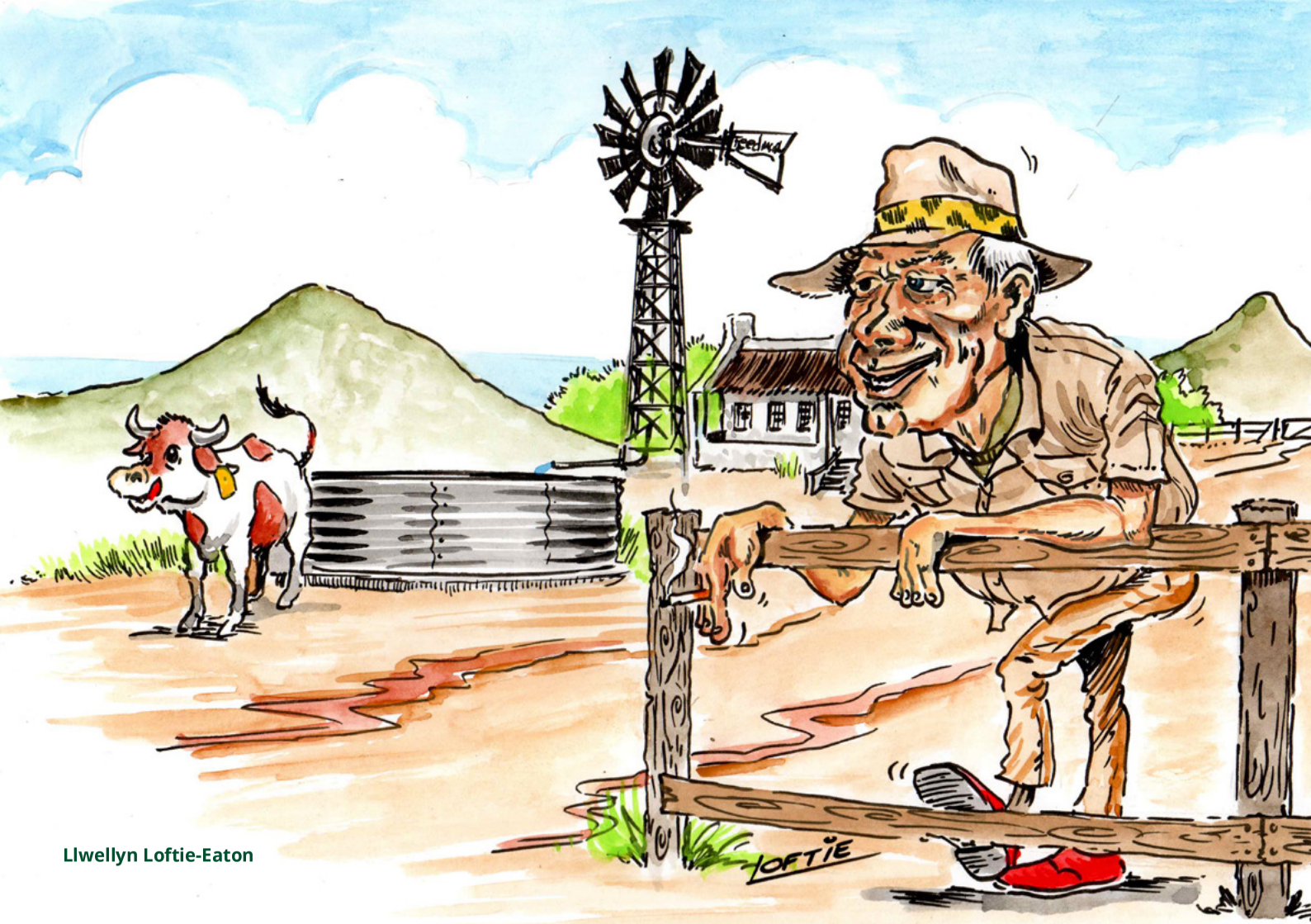

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