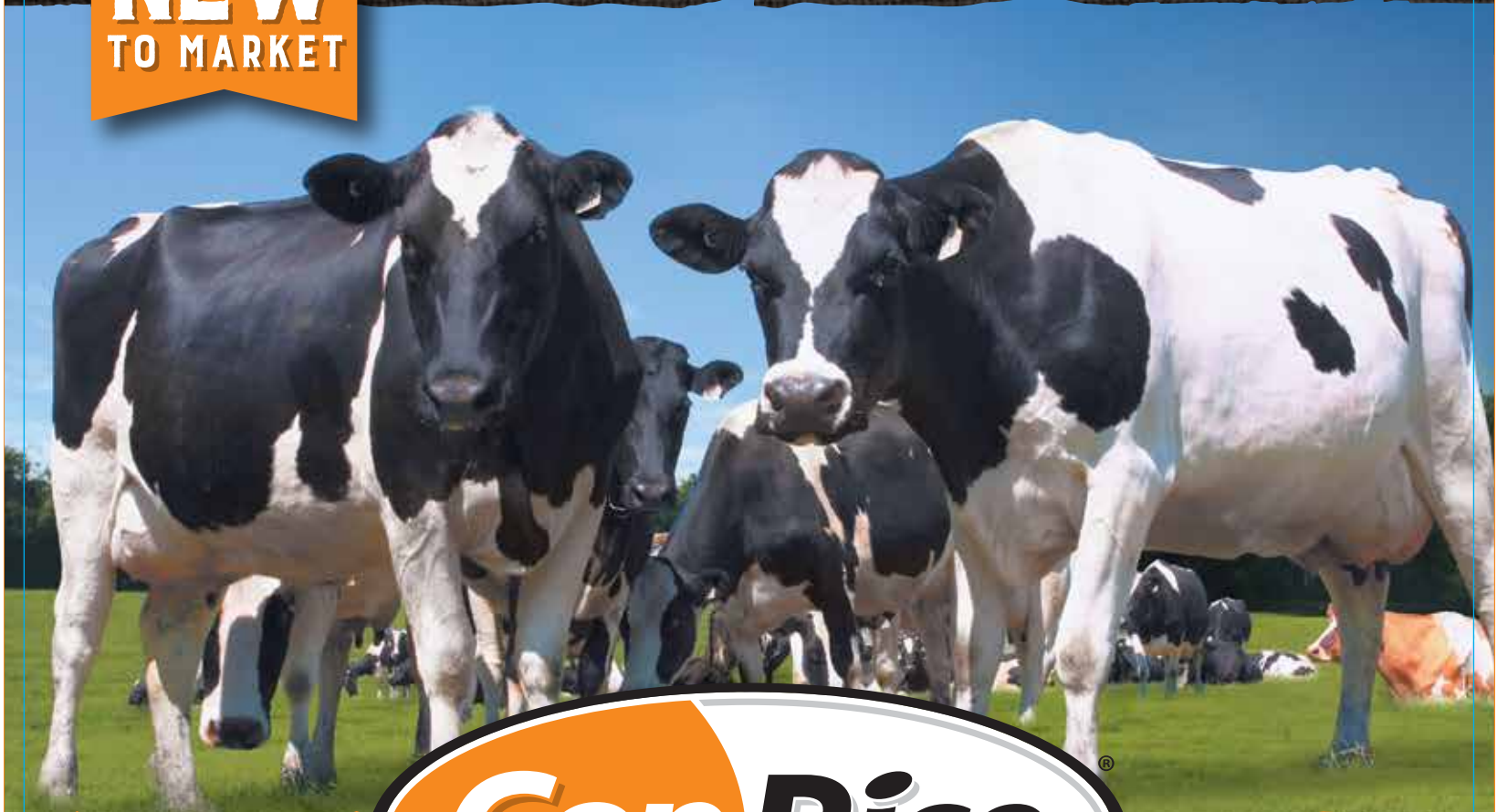


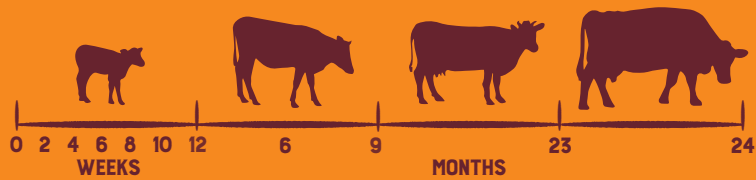
**NEW
TO MARKET**



AUSTRALIAN MADE. FARMER OWNED.



DAIRY NUTRITION FOR NEWBORN CALVES TO HIGH PERFORMING COWS



NUTRITION THAT STACKS UP



Client: CopRice
Job No. COPR0216
File Name: DAIRY_Book Revision_20pp_V1
Date: 28/05/18
Contact: Keri Alcock



PLEASE READ ALL INFORMATION BEFORE PROCEEDING. CLIENT: WHILST ALL CARE IS TAKEN IN PREPARING THIS ARTWORK, THE CLIENT ASSUMES SOLE RESPONSIBILITY FOR COPY ACCURACY. PRINT SUPPLIER: YOU ARE RESPONSIBLE FOR CHECKING THE FILE AGAINST SUPPLIED PRINTOUT, TO ENSURE THAT COPY AND ALL ELEMENTS ARE NOT LOST OR DROPPED OFF IE. TEXT FLOW WITH MISSING TEXT, GRAPHICS ETC. YOU ARE RESPONSIBLE FOR CHECKING ARTWORK FOR ACCURACY IN MEASUREMENTS, TOLERANCE REQUIREMENTS, TRAPPING, REGISTRATION, CONSTRUCTION AND NUMBER OF COLOURS BEFORE PLATES ARE MADE.

**MAXIMISE THE HEALTH &
PERFORMANCE OF YOUR HERD.**



COPRICE ANIMAL FEEDS

We passionately believe goodness on the inside shows on the outside and most importantly delivers the best results. Every ingredient in CopRice feed is selected for its nutritional value and is developed to meet the specific dietary needs of animals across their life stages. No fillers only 100% goodness ensures your livestock thrive on CopRice.

COPRICE DAIRY NUTRITION

Our ruminant nutrition specialists have developed high quality feeds to meet the needs of newborn calves through to high performing cows. Combining Australian cereal grains and rice bran with research-tested nutrition, field-proven studies and industry leading quality assurance programs, we deliver nourishment for optimum health and productivity.



NUTRITION THAT STACKS UP

WORLD CLASS DAIRY FEEDS FOR CONSISTENTLY SUPERIOR RESULTS

COPRICE DAIRY PELLETS PROVIDE A BALANCED, CONSISTENT AND DIGESTIBLE RATION FOR YOUR COWS. CEREAL GRAINS AND LEGUMES ARE GROUND TO A UNIFORM PARTICLE SIZE TO IMPROVE DIGESTIBILITY. THESE SMALL PARTICLES ARE UNIFORMLY COMBINED WITH OTHER FEED ADDITIVES, INCLUDING PROTEIN MEALS, PROCESSED GRAIN PRODUCTS, VITAMINS, MINERALS, BUFFERS AND FEED MEDICATIONS. THE MIXTURE IS THEN STEAM-TREATED TO FURTHER IMPROVE DIGESTIBILITY AND EXTRUDED THROUGH A PELLET DIE. FINALLY, THE PELLETS ARE CUT TO THE REQUIRED LENGTH AND COOLED TO PRODUCE A HARD, DURABLE AND DUST-FREE RATION.

CopRice Calf Starter



CopRice Calf Grower



CopRice Heifer Rearer



CopRice Lead Feed



1. RECEIVAL	Feed ingredients are tested for screenings, contaminants, colours and odours.
2. FILTERING	Feed ingredients pass through screens and magnets to remove any foreign particles.
3. GRINDING	Feed ingredients are ground to a uniform particle size of 2 mm.
4. BATCHING	Feed ingredients and additives are accurately weighed.
5. MIXING	Feed ingredients and additives are mixed to ensure even distribution.
6. STEAM TREATMENT	Feed mixture is steam-treated to gelatinise the starch in the grain.
7. PRESSING	Steamed mixture is extruded through a pellet die and cut to the required length.
8. COOLING	Pellets are uniformly cooled to produce a hard and durable pellet.
9. SCREENING	Pellets pass through screens and magnets to remove any foreign particles.
10. QA TESTING	Samples from every batch are tested using near infrared spectroscopy (NIR).
11. OUTLOADING	Pellets are moved to an elevated bin ready for loading.
12. LOADING	Pellets are loaded into purpose-built trucks for delivery.
13. DELIVERY	Pellets are unloaded directly into on-farm silos, minimising the potential for damage.



AUSTRALIAN MADE. FARMER OWNED.

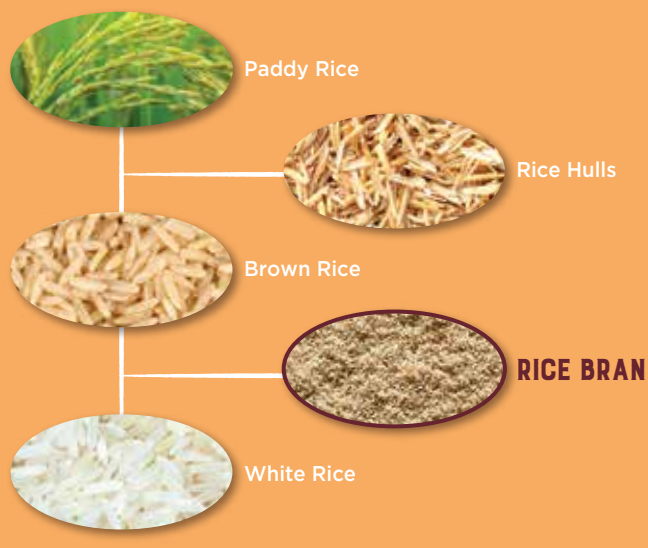
THE POWER OF RICE BRAN IN DAIRY RATIONS

COPRICE STRATEGICALLY USES RICE BRAN IN ITS ANIMAL FEEDS TO PRODUCE BALANCED, CONSISTENT AND HIGHLY DIGESTIBLE RATIONS FOR LIVESTOCK. THESE SCIENTIFICALLY FORMULATED PELLETS WILL HELP YOUR COWS REACH THEIR MAXIMUM PRODUCTION POTENTIAL, IMPROVE FERTILITY AND HEALTH.

A CLOSER LOOK AT A GRAIN OF RICE

Rice bran is the outer layer of the rice grain, removed by polishing brown rice to become white rice. It is a highly nutritious product that is a rich source of energy, protein, vitamins, minerals, fatty acids and fibre, therefore a valuable ingredient to add to feed to boost the nutritional content.

RICE MILLING PROCESS

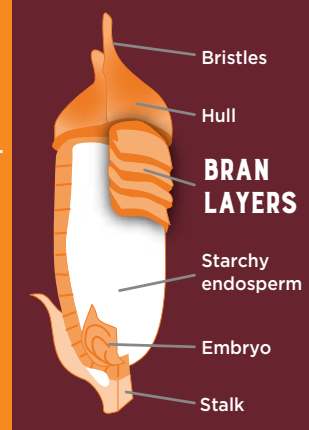


THE NUTRITIONAL BENEFIT OF RICE BRAN

The health and productivity benefits of rice bran in livestock feed are well documented, having been well researched in Australian and international studies. Rice bran contains:

- A high rice bran oil content (up to 20%), which provides a dense source of energy.
- A significant amount of protein (up to 15%), which is essential for muscle growth and development.
- A well balanced amino acid profile, that compares favourably with other cereal bran.
- Highly digestible form of Metabolisable Energy, with no undesirable acidosis effect in the rumen.
- An excellent source of vitamins B and E, which help strengthen the immune system and support energy metabolism.
- Antioxidants, macro and micro-minerals, which contribute to superior health and improved condition of livestock.

COMPOSITION OF A GRAIN OF RICE



Research has proven that feeding additional energy in the form of fat/oil, increased the concentration of cholesterol, fat and progesterone in the blood of dairy cattle, exerting a stimulatory effect on ovarian structures of ruminants as well as increasing the size of ovulating follicles. Strategic feeding of such high fat/oil, energy rich ingredients reduces the cow's negative energy status so that she returns to estrus earlier after calving, and therefore conceives sooner.

TYPICAL RICE BRAN COMPOSITION & NUTRITIONAL BENEFITS








TYPE	NAME	CONTENT
MONOUNSATURATED	LINOLEIC	39.8%
- Enables synthesis of prostaglandin in which may play an important role in reproductive efficiency. - Linoleic acid is not made by ruminants so must be added to the diet.		
MONOUNSATURATED	OLEIC	38.3%
- Increases milk yield and fat percentage.		
SATURATED	PALMITIC	16.2%
- Inhibits methane production. - Increases energy use for production.		
POLYUNSATURATED	OMEGA 6	3.5%
- Can be used for energy, or incorporated into milk or tissue fat.		
POLYUNSATURATED	OMEGA 3	2.2%
- Improves gestation rate (larger corpus luteum).		

TYPICAL RICE BRAN NUTRIENT LEVELS PER KG FEED

TYPICAL ANALYSIS (ON A DRY MATTER BASIS)		VITAMINS	
Metabolisable Energy	Min. 14.5MJ	Vitamin E	70mg
Crude Protein	Min. 13%	Vitamin B1	25mg
Crude Fat	Min. 17%	Vitamin B3	500mg
Crude Fibre	Max. 10%	Vitamin B5	16mg
Salt	Nil	Choline	1,400mg
Carbohydrate	25%	Biotin	650µg
Calcium	0.05%	AMINO ACIDS	
Phosphorus	1.6%	Lysine	6.5g
MACRO-MINERALS		Methionine	3g
Calcium	0.5g	FATTY ACIDS	
Magnesium	7g	Oleic (Omega 9)	
Phosphorus	16g	Linoleic (Omega 6)	
MICRO-MINERALS		Alpha Linolenic (Omega 3)	
Copper	8mg	ANTIOXIDANTS	
Iron	70mg	Gamma Oryzanol	2,000mg
Manganese	250mg		
Selenium	0.7mg		
Zinc	60mg		

NUTRITION THAT STACKS UP

THE NUTRITIONAL BENEFITS OF RICE BRAN & RICE BRAN OIL METABOLISABLE ENERGY

	FEATURE	BENEFITS
ENERGY 	Rice bran has a high oil content, making it energy dense.	Rice bran contains up to 20% oil which provides a dense source of energy. It is readily consumed and easily digested, making it an effective ingredient for adding extra energy into the diet. Rice bran improves the energy status of feed, which provides extra energy to reduce the impact of negative energy balance in early lactation.
	Rice bran is a safe energy source.	Rice bran is a safe ingredient having very little risk of acidosis, therefore allowing increased feeding rates when necessary e.g. early lactation.
DIGESTION 	Rice bran is highly digestible.	Rice bran is easily digested resulting in improved feed efficiency which equates to better feed conversion, increased milk production, improved fertility and and superior overall cow health.
PROTEIN 	Rice bran has moderate levels of protein.	Rice bran compared to other cereal grains, is a good source of essential amino acids lysine and methionine. Lysine is vital for growth and tissue repair, whilst methionine is a key component of strong, healthy hooves.
FATTY ACIDS 	Rice bran is a rich source of essential fatty acids.	Rice bran oil contains omega 3, 6 and 9 fatty acids. They cannot be produced by calves or cows so need to be included in their diet. Rice bran is particularly high in omega 9 which is important for heart and blood vessel health. Essential fatty acids have also been shown to improve herd fertility.
VITAMINS 	Rice bran is an excellent source of B-group vitamins.	The B-group vitamins niacin (B3) and pantothenic acids (B5) are vital for the metabolism of carbohydrate, fat and protein into energy, niacin also helps to reduce the incidence of metabolic diseases. Biotin (B7) is needed to produce keratin, the durable protein vital for hoof health.
MINERALS 	Rice bran is a source of the trace minerals selenium, zinc, manganese and copper.	Rice bran is a source of selenium which protects cells from free radical damage. Selenium with the support of zinc and copper, ensures a healthy metabolism and strong immune function. Rice bran is naturally high in zinc which promotes hoof and udder health, and manganese is vital for reproduction. Copper and manganese help maintain healthy bones, joints and cartilage and have other beneficial roles in the body.
ANTIOXIDANTS 	Rice bran is a great source of tocopherols (including Vitamin E) antioxidants.	Rice bran is a source of tocopherols and tocotrienols, both highly effective antioxidants that are forms of vitamin E. Antioxidants helps protect cells against cells damage from free radicals which interfere with cellular function. Vitamin E works best in combination with selenium to preserve cell membrane integrity and support immunity.
	Rice bran is naturally rich in gamma oryzanal.	Gamma oryzanal is a naturally occurring anabolic compound, which increases protein levels within cells resulting in improved skeletal muscle development. It works with the body's endocrine system (collection of glands that secrete hormones directly into the circulatory system), to increase fat metabolism and improve protein synthesis.



AUSTRALIAN MADE. FARMER OWNED.

ON-FARM RESEARCH CONFIRMS PELLET RATIONS IMPROVE MILK PRODUCTION

COPRICE DAIRY PELLETS ARE THE SMART WAY TO MAXIMISE THE HEALTH AND PERFORMANCE OF YOUR COWS. THEY PROVIDE A MORE BALANCED, MORE CONSISTENT AND MORE DIGESTIBLE FEED SOURCE THAN MASH OR ROLLED GRAIN.

NUTRITIONALLY BALANCED

CopRice Dairy Pellets provide a balanced mix of energy, protein, starch, fibre, vitamins, minerals, buffers and other feed additives - everything your cows need for optimal health, fertility and production. Each ration is scientifically-formulated to match your cows' nutritional requirements with the availability and quality of existing pastures, silage and hay.

IMPROVED DIGESTIBILITY

Loose cow pats containing large particle sizes and/or bubbles are a tell-tale sign of inadequate rumen fermentation and poor digestibility. Australian studies have confirmed steam-treated pellets have significantly higher rumen degradability than crushed grain, thereby helping to improve starch utilisation.²⁻⁴ Improving rumen degradability and starch utilisation by just five percent could save thousands of dollars in wasted feed each lactation.

IMPROVED DRY MATTER INTAKE

Pellets are energy-dense, allowing cows to consume a large quantity of energy within a small amount of time. During transition, pellets provide a complete ration to your cows at time when their appetite is naturally suppressed, as well as a rich source of protein, starch fibre, vitamins, minerals and anionic salts. During early lactation, pellets help to restore a positive energy balance sooner, increasing milk production and improving health. During mid and late lactation, pellets provide an additional source of energy, vitamins and minerals to maintain production, restore body condition and assist foetal development.



"Lucerne is an important part of our nutrition program and one of our big challenges is managing this high protein content and converting it into milk. Pellets optimise the strength of our pastures and reduce their limitations."

Byron Smith
Nathalia, Victoria

NUTRITION THAT STACKS UP

INTERNATIONAL AND AUSTRALIAN STUDIES HAVE CONFIRMED PELLETISED RATIONS IMPROVE STARCH AVAILABILITY AND UTILISATION, THEREBY INCREASING MILK AND PROTEIN PRODUCTION.¹⁻⁷

COPRICE DAIRY PELLETS ARE HIGH QUALITY LIVESTOCK FEEDS THAT CONTAIN CAREFULLY-SELECTED CEREAL GRAINS, LEGUMES, OILSEEDS, PROCESSED GRAIN PRODUCTS AND OTHER IMPORTANT FEED INGREDIENTS.

“Cost of production underpins everything and the cheapest form of feed is out there in the paddock. But the modern cow has nutritional requirements that need to be met and pellets provide what we can't grow ourselves.”

Matt Grant
Scotts Creek, Victoria



IMPROVED MILK PRODUCTION

Improved starch utilisation means more energy is available for milk and protein production. Scientific studies have confirmed steam-treated pellets significantly increase milk production, protein and total milk solids yield compared to other types of processed rations.^{2,3} In one Australian study, milk production in cows fed pellets increased by an average of 1.3 L/day compared to cows fed a cracked grain meal comprising the same ingredients.³ This advantage varied from 2.1 L/day during early lactation to 0.9 L/day in late lactation.³

IMPROVED PROTEIN YIELD

International and Australian studies have confirmed feeding steam-treated pellets can produce small but significant increases in protein and total milk solids yield compared with other feed types.^{2,4,7} Given that Australian dairy farmers are paid more for milk protein than milk fat, any increase in the milk protein-to-fat ratio will improve your bottom line.

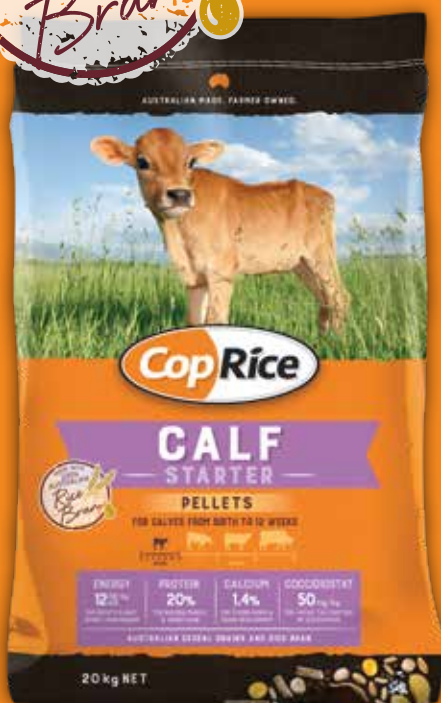
READY TO FEED

CopRice Dairy Pellets are a convenient, ready-to-feed ration, saving you time and money. Easy to store and feed, pellets reduce wastage by preventing the separation of valuable nutrients. CopRice Dairy Pellets are available in a range of formulations and delivery options, including bulk, bulka bags and bags.

References: 1. Kellaway, R. & Harrington, T. (2004). Feeding concentrates: supplements for dairy cows. 2. von Keyserlingk, M.A., Gardner, W.C., Fisher, L.J., & Shelford, J.A. (1998). A comparison of textured versus pelleted concentrates on rumen degradability, dry matter intake, milk yield and composition in lactating Holstein cows. *Canadian Journal of Animal Science* 78:219-224. 3. Davison, T.M., Ehrlich, W.K. & Duncliffe, F. (1994a) Sorghum grain processing for early and late lactation cows. *Proceedings of the Australian Society of Animal Production* 20:382. 4. CopRice, data on file. 5. Davison, T.M., & Ehrlich, W.K. (1991). A comparison of milk production and composition from cows fed a dairy concentrate meal, pellet or steam flaked pellet. Queensland Department of Primary Industries, Mutdapilly Research Station. 6. Gardner, W.C., von Keyserlingk, M.A., Shelford, J.A., & Fisher, L.J. (1997). Effect of feeding textured concentrates with alfalfa cubes to lactating dairy cows producing low fat milk. *Canadian Journal of Animal Science* 77:735-737. 7. Luhman, C.M. & LaCount, D.W. (1998). Effect of corn processing on milk production and dry matter intake of cows in early lactation. *J. Animal Sci.* Vol 76(1):36. Availa™ Zn is a registered trademark of ZinPro Corporation. Bloatguard™ and Eskalin™ are registered trademarks of Phibro Animal Health Corporation. Bovatec™ is a registered trademark of Alpharma, a subsidiary of Pfizer Inc. Rumensin™ and Tylan™ are registered trademarks of Eli Lilly and Company. *Registered trademark of CopRice, a division of Ricegrowers Limited, trading as SunRice. CPA16083



AUSTRALIAN MADE. FARMER OWNED.



FOR CALVES FROM BIRTH TO 12 WEEKS

PALATABLE FOR EASY TRANSITION OF NEWBORN CALVES TO SOLIDS. NUTRITION FOR IMMUNITY, GROWTH & EFFECTIVE RUMEN DEVELOPMENT.

A highly palatable starter feed that ensures easy transition of calves from liquid to solid feed from a few days old until progression to pasture at around 12 weeks of age. These slightly sweet, protein rich and nutrient dense pellets, provide the nutrition essential to support immune function and efficient growth, whilst encouraging proper rumen development for lifetime benefits. Rumen buffer reduces the risk of acidosis whilst lasalocid sodium helps improve liveweight gains and feed conversion efficiency, and aids in the control of coccidiosis.

INGREDIENTS SELECTED FROM:

Wholegrain barley, wheat, maize, sorghum, rice, rice bran, soybean meal, lupins, canola meal, field peas, calcium carbonate, dicalcium phosphate, molasses, flavour, rumen buffer, salt, canola oil, vitamin and mineral premix (including vitamin C), yeast, lasalocid sodium.



NUTRIENT LEVELS PER kg FEED

TYPICAL ANALYSIS (ON A DRY MATTER BASIS)

Crude Protein	Min. 20%
Energy (ME)	Min. 12MJ
Crude Fat	Max. 7%
Crude Fibre	Max. 7%
Salt	Max. 1%
Calcium	Min. 1.4%
Phosphorus	Min. 0.7%
Starch	Min. 35%
Lasalocid Sodium	50mg
Urea	Nil

VITAMINS

Vitamin A	6,000 IU
Vitamin D ₃	1,800 IU
Vitamin E	20mg
Vitamin K	1mg
Vitamin B1	5mg
Vitamin B2	2.5mg
Vitamin B3	10mg
Vitamin B5	7mg
Vitamin B6	1.5mg
Vitamin B12	15ug
Folic Acid	0.1mg
Biotin	50ug
Vitamin C	250mg

MACRO-MINERALS

Calcium	14g
Magnesium	2.5g
Phosphorus	7g
Salt	5g
Sulphur	2.7g

MICRO-MINERALS

Cobalt	1mg
Copper	20mg
Iodine	1mg
Iron	30mg
Manganese	25mg
Selenium	0.3mg
Zinc	90mg

FATTY ACIDS

Oleic (Omega 9)
Linoleic (Omega 6)
Alpha Linoleic (Omega 3)

CONTAINS MEDICATION:

Contains 250mg/kg Bovatec® 20CC premix to provide 50mg/kg lasalocid sodium for improved liveweight gains and feed conversion efficiency in growing cattle, and as an aid in the control of coccidiosis caused by *Eimeria* spp. Feed 1kg per 100kg calf weight per day to provide 0.5mg/kg liveweight lasalocid sodium per day.

NOTE: If using supplementary selenium do not use at the same time as any other selenised fertiliser, prill or product, and do not exceed the stated dose and frequency without consulting a veterinarian.



NUTRITION THAT STACKS UP



NUTRITION THAT STACKS UP

PROTEIN

Nutritious soybean and canola meals, lupins and field peas are great sources of bypass protein, which is digested in the small intestine rather than the rumen giving superior nutrient availability. Proteins provide amino acids which contribute to a healthy immune system, and are the building blocks vital for muscle growth and development.

RICE BRAN

Rice bran is highly palatable, rich in digestible fibre, and is a source of nutritious oil which provides an additional energy source to support the growth of healthy calves and heifers. Improving energy availability in the diet can promote protein synthesis to assist immune health and weight gain.

MOLASSES

A versatile ingredient that provides sweetness for improved palatability and encourages feed intake in young calves. Molasses supports digestion by providing natural sugars as nourishment for the rumen microbe population.

MICRO-MINERALS

Selenium is important for immunity and zinc for tissue repair and health. Copper helps strengthen bones, with manganese assisting cartilage development and reproductive function. Cobalt is a component of vitamin B12 which is required for energy production.

YEAST

Yeast helps improve fibre digestion, promotes feed intake and enhances the absorption of nutrients. It is beneficial for rumen microflora and stabilising pH for improved rumen function and performance. Improved feed intake and enhanced fibre digestion assists growth to meet optimum weaning weights.



STARCH

Wholegrain rice is gluten free and a great source of easily digestible starch. Starch is a source of fuel for rumen microbes. It is combined with selected quality wholegrains including wheat, barley and maize, to provide a feed rich in available starch to support calf rumen development and provide optimum energy for growth and weight gain.

RUMEN BUFFER

An effective rumen buffer helps stabilise rumen pH, improving fibre digestion and significantly reducing the risk of acidosis (grain poisoning). Acidosis can reduce feed intake leading to weight loss, it can also compromise energy production and cause permanent rumen damage.

MACRO-MINERALS

Calcium and phosphorus are critical for frame development, strong bones and teeth, and healthy metabolism. Electrolytes including salt, potassium and magnesium, are vital for balancing body fluids and maintaining nervous system health.

VITAMINS

Vitamin A benefits eye health, whilst vitamin D₃ aids calcium absorption. Vitamin C helps support the immune system, whilst vitamin E plays a role in cardiovascular, circulatory and neuromuscular functions. B vitamins are vital for metabolism and the efficient generation of energy for growth.

COCCIDIOSTAT

Lasalocid sodium helps improve liveweight gains and feed conversion efficiency. It aids in the control of coccidiosis and reduction of faecal shedding of coccidia *Eimeria spp.*, which if left untreated can result in diarrhoea, dehydration, weight loss and in acute cases death.

Nutritional shares of pellets are approximate only

DAILY FEEDING GUIDE FOR CALVES FROM BIRTH TO 12 WEEKS

	AS AVAILABLE	TWICE DAILY	ONCE DAILY	UNRESTRICTED
DAY 1	COLOSTRUM			
DAYS 2-5		MILK OR MILK REPLACER See manufacturer for recommended quantity		COPRICE CALF STARTER PELLETS Free access to straw, hay and/or dry forages
DAY 6-3 MONTHS			MILK OR MILK REPLACER* See manufacturer for recommended quantity	COPRICE CALF STARTER PELLETS Free access to straw, hay and/or dry forages

* Wean off milk or milk replacer when consumption of CopRice Calf Starter Pellet reaches 0.8kg to 1.0kg per head/per day

PRODUCT RANGE DETAILS



6175 CopRice
Calf Starter Bulk



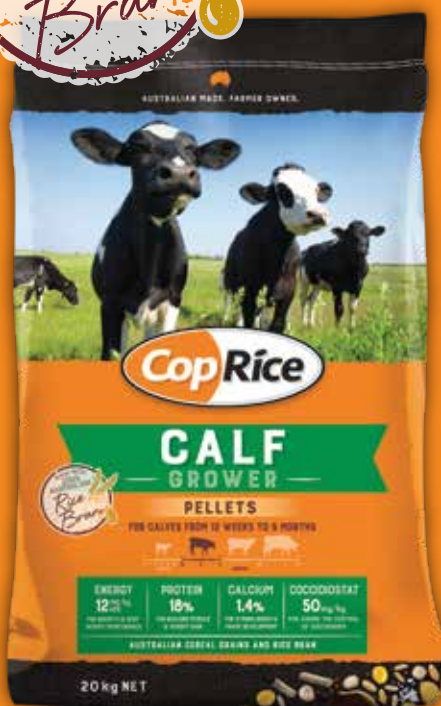
6174 CopRice
Calf Starter
Bulk 800kg



6114 CopRice
Calf Starter Bag 20kg
Barcode: 9310140008868
Pallet: 48 bags



AUSTRALIAN MADE. FARMER OWNED.



FOR CALVES FROM 12 WEEKS TO 9 MONTHS

HIGH QUALITY PROTEIN WITH BALANCED CALCIUM AND PHOSPHORUS. FOR GROWTH, STRONG BONES, FRAME & MUSCLE DEVELOPMENT.

A palatable and versatile rearing supplement for feeding with straw, hay and/or other dry forages to meet the specific nutritional requirements of calves 12 weeks to 9 months old. High in quality protein, a balanced calcium and phosphorus ratio, and fortified with trace minerals and vitamins, ensures calves receive the nutrition essential for strong bones, frame and muscle development, whilst supporting immune function through this critical growing period. Added lasalocid sodium helps improve liveweight gains and feed conversion efficiency, and aids in the control of coccidiosis.

INGREDIENTS SELECTED FROM:

Wholegrain barley, wheat, maize, sorghum, rice, rice bran, soybean meal, lupins, canola meal, field peas, calcium carbonate, dicalcium phosphate, molasses, flavour, rumen buffer, salt, canola oil, vitamin and mineral premix (including vitamin C), yeast, lasalocid sodium.



NUTRIENT LEVELS PER kg FEED

TYPICAL ANALYSIS (ON A DRY MATTER BASIS)

Crude Protein	Min. 18%
Energy (ME)	Min. 12MJ
Crude Fat	Max. 7%
Crude Fibre	Max. 10%
Salt	Max. 1%
Calcium	Min. 1.4%
Phosphorus	Min. 0.7%
Starch	Min. 36%
Lasalocid Sodium	50mg
Urea	Nil

VITAMINS

Vitamin A	6,000 IU
Vitamin D ₃	1,800 IU
Vitamin E	20mg
Vitamin K	1mg
Vitamin B1	5mg
Vitamin B2	2.5mg
Vitamin B3	10mg
Vitamin B5	7mg
Vitamin B6	1.5mg
Vitamin B12	15ug
Folic Acid	0.1mg
Biotin	50ug
Vitamin C	250mg

MACRO-MINERALS

Calcium	14g
Magnesium	2.5g
Phosphorus	7g
Salt	5g
Sulphur	2.7g

MICRO-MINERALS

Cobalt	1mg
Copper	20mg
Iodine	1mg
Iron	30mg
Manganese	25mg
Selenium	0.3mg
Zinc	90mg

FATTY ACIDS

Oleic (Omega 9)	
Linoleic (Omega 6)	
Alpha Linoleic (Omega 3)	

CONTAINS MEDICATION:

Contains 250mg/kg Bovatec® 20CC premix to provide 50mg/kg lasalocid sodium for improved liveweight gains and feed conversion efficiency in growing cattle, and as an aid in the control of coccidiosis caused by *Eimeria* spp. Feed 1kg per 100kg calf weight per day to provide 0.5mg/kg liveweight lasalocid sodium per day.

NOTE: If using supplementary selenium do not use at the same time as any other selenised fertiliser, prill or product, and do not exceed the stated dose and frequency without consulting a veterinarian.



NUTRITION THAT STACKS UP



NUTRITION THAT STACKS UP

PROTEIN

Nutritious soybean and canola meals, lupins and field peas are great sources of bypass protein, which is digested in the small intestine rather than the rumen giving superior nutrient availability. Proteins provide amino acids which contribute to a healthy immune system, and are the building blocks vital for muscle growth and development.

RICE BRAN

Rice bran is highly palatable, rich in digestible fibre, and is a source of nutritious oil which provides an additional energy source to support the growth of healthy calves and heifers. Improving energy availability in the diet can promote protein synthesis to assist immune health and weight gain.

RICE BRAN OIL

Sourced exclusively from Australian bran, CopRice rice bran oil is rich in antioxidants including gamma oryzanol, and is a good source of the omega 3, 6 and 9 essential fatty acids. It also has a role in improving the absorption of fat soluble vitamins.

MACRO-MINERALS

Calcium and phosphorus are critical for strong bones and teeth, and healthy metabolism. Magnesium helps muscle function and may assist in managing stress. Electrolytes including salt, potassium and magnesium, are vital for balancing body fluids and maintaining nervous system health.

VITAMINS

Vitamin A benefits eye health, whilst vitamin D₃ aids calcium absorption. Vitamin C helps support the immune system, whilst vitamin E plays a role in cardiovascular, circulatory and neuromuscular functions. B vitamins are vital for metabolism and the efficient generation of energy for growth.



STARCH

Wholegrain rice is gluten free and a great source of easily digestible starch. Starch is a source of fuel for rumen microbes. It is combined with selected quality wholegrains including wheat, barley and maize, to provide a feed rich in available starch to support calf rumen development and provide optimum energy for growth and weight gain.

RUMEN BUFFER

An effective rumen buffer helps stabilise rumen pH, improving fibre digestion and significantly reducing the risk of acidosis (grain poisoning). Acidosis can reduce feed intake leading to weight loss, it can also compromise energy production and cause permanent rumen damage.

MOLASSES

A versatile ingredient that provides sweetness for improved palatability and encourages feed intake in growing calves. Molasses supports digestion by providing natural sugars as nourishment for the rumen microbe population.

MICRO-MINERALS

Selenium is important for immunity and zinc for tissue repair and health. Copper helps strengthen bones, with manganese assisting cartilage development and reproductive function. Cobalt is a component of vitamin B12 which is required for energy production.

COCCIDIOSTAT

Lasalocid sodium helps improve liveweight gains and feed conversion efficiency. It aids in the control of coccidiosis and reduction of faecal shedding of coccidia *Eimeria spp.*, which if left untreated can result in diarrhoea, dehydration, weight loss and in acute cases death.

Nutritional shares of pellets are approximate only

DAILY FEEDING GUIDE FOR CALVES 12 WEEKS TO 9 MONTHS

BODYWEIGHT (kg)	APPROXIMATE FEED PER HEAD/PER DAY (kg)	UNRESTRICTED
75	0.75	Free access to straw, hay and/or other dry forages
100	1.0	
125	1.25	
150	1.5	
175	1.75	
>175	1% Bodyweight	

PRODUCT RANGE DETAILS



6179 CopRice
Calf Grower Bulk



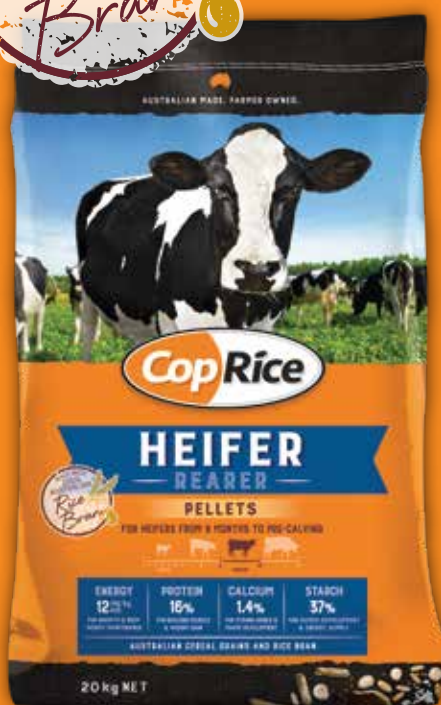
6178 CopRice
Calf Grower
Bulk 800kg



6113 CopRice
Calf Grower Bag 20kg
Barcode: 9310140008875
Pallet: 48 bags



AUSTRALIAN MADE. FARMER OWNED.



FOR HEIFERS FROM 9 MONTHS TO PRE-CALVING

QUALITY RUMEN DEGRADABLE BYPASS PROTEIN AND DIGESTIBLE STARCH. FOR ENERGY TO FUEL GROWTH AND MAXIMISE WEIGHT GAIN.

High quality vegetable proteins including soybean and canola meals, deliver a feed rich in both rumen degradable and bypass protein, supplying complementary protein to support the health and growth of heifers. The easily digestible starch content provides a source of fuel for rumen microbes to supply energy for optimum growth and weight gain. Combining high quality proteins and readily digestible energy sources is critical to ensure heifers meet target weights for mating, therefore lowering the age of first service and subsequent calving, and improving overall herd management.

INGREDIENTS SELECTED FROM:

Wholegrain barley, wheat, maize, sorghum, rice, rice bran, bran, canola meal, field peas, soybean meal, lupins, calcium carbonate, dicalcium phosphate, rumen buffer, molasses, salt, canola oil, vitamin and mineral premix, lasalocid sodium.



NUTRIENT LEVELS PER kg FEED

TYPICAL ANALYSIS (ON A DRY MATTER BASIS)

Crude Protein	Min. 16%
Energy (ME)	Min. 12MJ
Crude Fat	Max. 7%
Crude Fibre	Max. 10%
Salt	Max. 1%
Calcium	Min. 1.4%
Phosphorus	Min. 0.7%
Starch	Min. 37%
Lasalocid Sodium	50mg
Urea	Nil

VITAMINS

Vitamin A	10,000 IU
Vitamin D ₃	4,000 IU
Vitamin E	50mg

MACRO-MINERALS

Calcium	14g
Magnesium	2.5g
Phosphorus	7g
Salt	5g
Sulphur	2.7g

MICRO-MINERALS

Cobalt	1.2mg
Copper	40mg
Iodine	1mg
Iron	30mg
Manganese	75mg
Selenium	0.5mg
Zinc	150mg

FATTY ACIDS

Oleic (Omega 9)	
Linoleic (Omega 6)	
Alpha Linoleic (Omega 3)	

CONTAINS MEDICATION:

Contains 250mg/kg Bovatec® 20CC premix to provide 50mg/kg lasalocid sodium for improved liveweight gains and feed conversion efficiency in growing cattle, and as an aid in the control of coccidiosis caused by *Eimeria* spp. Feed 1kg per 100kg calf weight per day to provide 0.5mg/kg liveweight lasalocid sodium per day.

NOTE: If using supplementary selenium do not use at the same time as any other selenised fertiliser, prill or product, and do not exceed the stated dose and frequency without consulting a veterinarian.



NUTRITION THAT STACKS UP



NUTRITION THAT STACKS UP

PROTEIN

Nutritious soybean and canola meals, lupins and field peas are great sources of bypass protein, which is digested in the small intestine rather than the rumen giving superior nutrient availability. Proteins provide amino acids which contribute to a healthy immune system, and are the building blocks vital for muscle growth and development.

RICE BRAN

Rice bran is highly palatable, rich in digestible fibre, and is a source of nutritious oil which provides an additional energy source to support the growth of healthy calves and heifers. Improving energy availability in the diet can promote cow condition which may help improve herd fertility.

RICE BRAN OIL

Sourced exclusively from Australian bran, CopRice rice bran oil is rich in antioxidants including gamma oryzanol, and is a good source of the omega 3, 6 and 9 essential fatty acids. It also has a role in improving the absorption of fat soluble vitamins.

MACRO-MINERALS

Calcium and phosphorus are critical for strong bones and teeth, and healthy metabolism. Magnesium helps muscle function and to manage stress. Electrolytes including salt, potassium and magnesium, are vital for balancing body fluids and maintaining nervous system health.

VITAMINS

Vitamin A benefits eye health and can assist immune function and disease resistance. Vitamin D₃ aids calcium and phosphorus absorption. Vitamin E supports, cardiovascular and reproductive functions. B vitamins assist in the generation of energy for growth.

STARCH

Wholegrain rice is gluten free and a great source of easily digestible starch. Starch is a source of fuel for rumen microbes. It is combined with selected quality wholegrains including wheat, barley and maize, to provide a feed rich in available starch to support calf rumen development and/or provide optimum energy for growth and weight gain.

RUMEN BUFFER

An effective rumen buffer helps stabilise rumen pH, improving fibre digestion and significantly reducing the risk of acidosis (grain poisoning). Acidosis can reduce feed intake leading to weight loss, it can also compromise energy production and cause permanent rumen damage.

MOLASSES

A versatile ingredient that provides sweetness for improved palatability and encourages feed intake in growing calves. Molasses supports digestion by providing natural sugars as nourishment for the rumen microbe population.

MICRO-MINERALS

Selenium is important for immunity and zinc for tissue repair and health. Copper helps strengthen bones, with manganese assisting cartilage development and reproductive function. Cobalt is a component of vitamin B12 which is required for energy production.

COCCIDIOSTAT

Lasalocid sodium helps improve liveweight gains and feed conversion efficiency. It aids in the control of coccidiosis and reduction of faecal shedding of coccidia *Eimeria spp.*, which if left untreated can result in diarrhoea, dehydration, weight loss and in acute cases death.



Nutritional shares of pellets are approximate only

DAILY FEEDING GUIDE FOR HEIFERS 9 MONTHS TO PRE-CALVING

BODYWEIGHT (kg)	APPROXIMATE FEED PER HEAD/PER DAY (kg)	UNRESTRICTED
175	1.75	Free access to straw, hay and/or other dry forages
200	2.0	
225	2.25	
250	2.5	
275	2.75	
300	3.0	
>300	1% Bodyweight	

PRODUCT RANGE DETAILS



6181 CopRice
Heifer Rearer Bulk



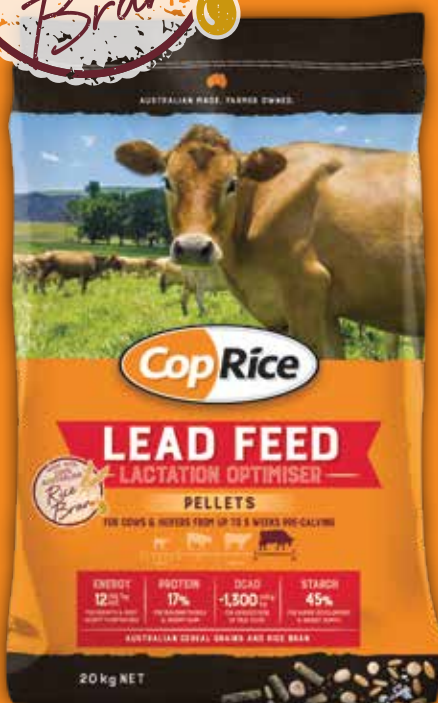
6180 CopRice
Heifer Rearer
Bulk 800kg



6093 CopRice
Heifer Rearer Bag 20kg
Barcode: 9310140008882
Pallet: 48 bags



AUSTRALIAN MADE. FARMER OWNED.



FOR HEIFERS FROM 3 WEEKS PRE-CALVING

RICH IN DIGESTIBLE STARCH TO REDUCE PRE-LACTATION WEIGHT LOSS. FOR STRENGTHENED IMMUNITY AND AIDING REPRODUCTIVE HEALTH.

Specially formulated to be high in energy and protein, to reduce weight loss and improve the nutrition and health of cows in the transition period three weeks prior to calving. Fortified with a unique blend of nutrients including organic minerals, for immunity, metabolism and reproduction efficiency. Added anionic salts help lower the DCAD value of the feed ration, which has a significant impact on reducing the risk of milk fever and other metabolic disorders.

INGREDIENTS SELECTED FROM:

Wholegrain barley, wheat, maize, sorghum, rice, rice bran, bran, canola meal, field peas, soybean meal, lupins, anionic salts (magnesium chloride, magnesium sulphate, ammonium sulphate), canola oil, magnesium oxide, rumen buffer, calcium carbonate, dicalcium phosphate, vitamin and mineral premix (including organic chromium, cobalt, copper, manganese, selenium and zinc), flavours (orange and fenugreek).



NUTRIENT LEVELS PER kg FEED

TYPICAL ANALYSIS (ON A DRY MATTER BASIS)

Crude Protein	Min. 17%
Energy (ME)	Min. 12MJ
Crude Fat	Max. 7%
Crude Fibre	Max. 7%
Salt	Nil
Starch	Min. 45%
Anionic Salts	Min. 10%
Calcium	Min. 0.5%
Phosphorous	Min. 0.5%
Urea	Nil

VITAMINS

Vitamin A	20,000 IU
Vitamin D ₃	8,000 IU
Vitamin E	100mg

MACRO-MINERALS

Calcium	5g
Magnesium	16g
Phosphorus	5g
Sulphur	20g

MICRO-MINERALS

Cobalt	2.4mg
Copper	80mg
Chromium	3.3mg
Iodine	2mg
Manganese	150mg
Selenium	1mg
Zinc	300mg

FATTY ACIDS

Oleic (Omega 9)
Linoleic (Omega 6)
Alpha Linoleic (Omega 3)

NOTE: If using supplementary selenium do not use at the same time as any other selenised fertiliser, prill or product, and do not exceed the stated dose and frequency without consulting a veterinarian.



NUTRITION THAT STACKS UP



NUTRITION THAT STACKS UP

PROTEIN

Nutritious soybean and canola meals, lupins and field peas are great sources of bypass protein, which is digested in the small intestine rather than the rumen giving superior nutrient availability. Proteins provide amino acids which contribute to a healthy immune system, and are the building blocks vital for muscle growth and development.

ANIONIC SALTS

In late pregnancy anionic salts help lower the DCAD value of rations. This helps reduce the risk of hypocalcaemia (milk fever), which can result in loss of muscle and nerve function, and predisposes the cow to disorders such as ketosis, retained placenta, displacement of the abomasum and mastitis.

RUMEN BUFFER

An effective rumen buffer helps stabilise rumen pH, improving fibre digestion and reducing the risk of acidosis (grain poisoning). Acidosis can reduce feed intake leading to weight loss, it can also lower energy production and can cause lasting rumen damage.

MACRO-MINERALS

Magnesium plays role in calcium mobilisation and muscle function. Anionic salts containing sulphur and chlorine (anions) are vital in creating a negative DCAD (Dietary Cation-Anion Difference) value, drawing calcium from bone to improve calcium status at calving time.

VITAMINS

Vitamin A benefits eye health and can assist immune function and disease resistance. Vitamin D₃ aids calcium and phosphorus absorption. Vitamin E supports, cardiovascular, circulatory and reproductive functions.



STARCH

Wholegrain rice is gluten free and a great source of easily digestible starch. Starch is a source of fuel for rumen microbes. It is combined with selected quality wholegrains including wheat, barley and maize, to provide a feed rich in available starch to support calf rumen development and provide optimum energy for growth and weight gain.

RICE BRAN

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RICE BRAN OIL

Sourced exclusively from Australian bran, CopRice rice bran oil is rich in antioxidants including gamma oryzanol, and is a good source of the omega 3, 6 and 9 essential fatty acids. It also has a role in improving the absorption of fat soluble vitamins.

ORGANIC MICRO-MINERALS

Selenium is important for immunity and zinc for tissue repair. Copper helps strengthen bones, with manganese assisting cartilage development and reproductive function. Cobalt is required for energy production. Organic trace minerals are more easily absorbed, providing better nutrition over inorganic sources.

ORGANIC CHROMIUM

Chromium is required for normal glucose absorption by facilitating the effect of insulin on tissues. This has been shown to promote feed intake, cow energy status and improve immune response, particularly in physiological stressed cows.

Nutritional shares of pellets are approximate only

DAILY FEEDING GUIDE FOR HEIFERS UP TO 3 WEEKS PRE-CALVING

BODYWEIGHT (kg)	APPROXIMATE FEED PER HEAD/PER DAY (kg)	UNRESTRICTED
300	1.5	Free access to straw, hay and/or other dry forages
350	1.75	
400	2.0	
450	2.25	
500	2.5	
>500	0.5% Bodyweight	

PRODUCT RANGE DETAILS



6184 CopRice
Lead Feed Bulk



6183 CopRice
Lead Feed
Bulk 800kg



6112 CopRice
Lead Feed Bag 20kg
Barcode: 9310140008899
Pallet: 48 bags

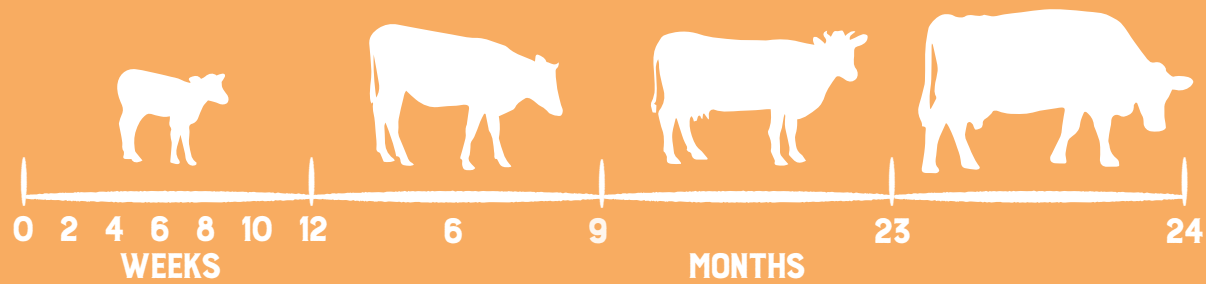


AUSTRALIAN MADE. FARMER OWNED.



COPRICE 4 STAGE DAIRY FEEDING PROGRAM

TAILORED NUTRITION FOR OPTIMUM HEALTH & PRODUCTIVITY

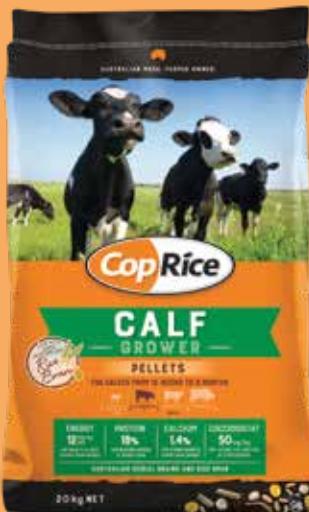


FOR CALVES FROM BIRTH TO 12 WEEKS

FOR CALVES FROM 12 WEEKS TO 9 MONTHS

FOR HEIFERS FROM 9 MONTHS TO PRE-CALVING

FOR COWS & HEIFERS FROM 3 WEEKS PRE-CALVING



Palatable for easy transition of newborn calves to solids.

For growth & effective rumen development.

Good source of quality protein, calcium and phosphorus.

Nutrition for strong bones, frame & muscle development.

Quality rumen degradable bypass protein and digestible starch.

For energy to fuel growth and maximise weight gain.

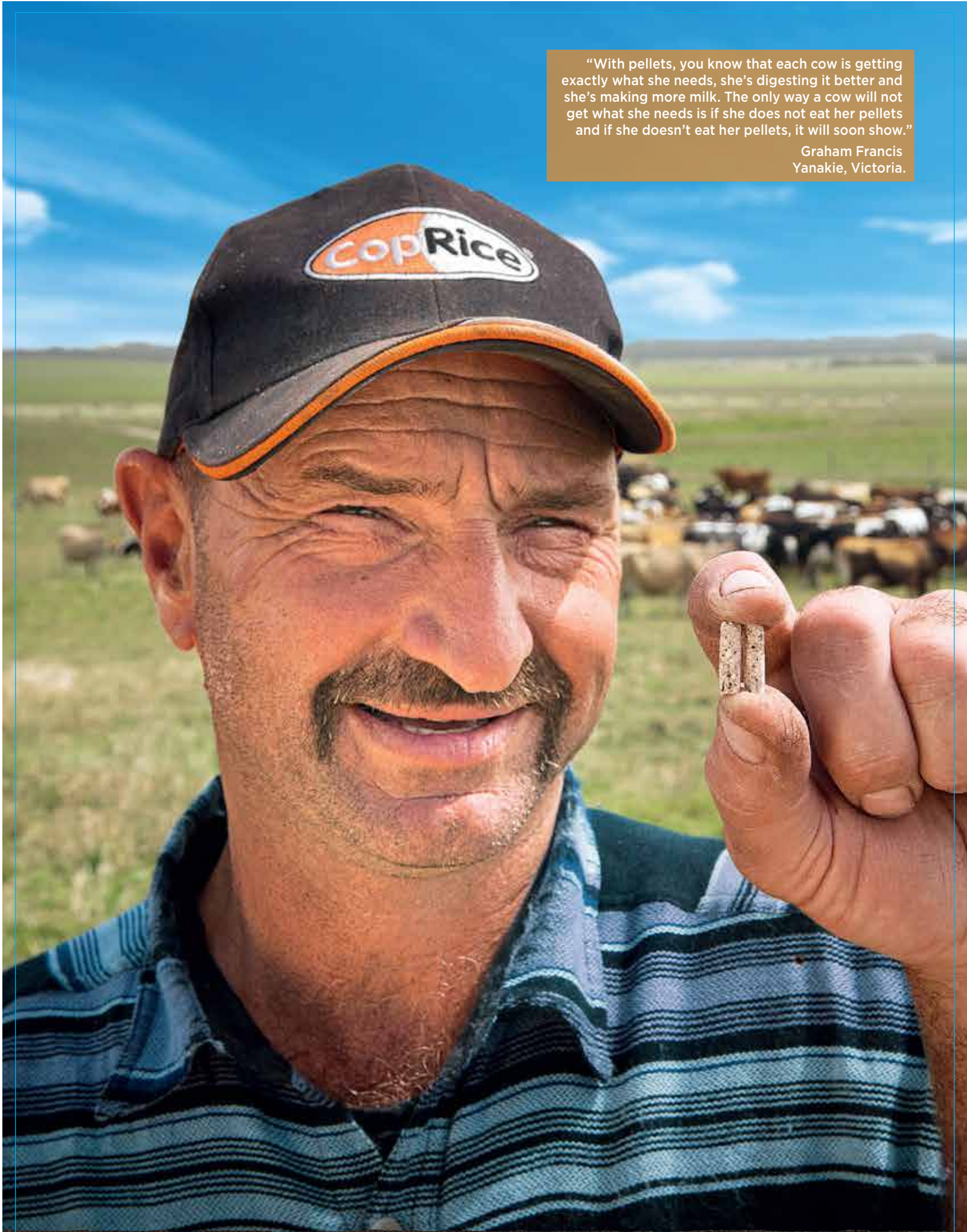
Rich in digestible starch to reduce pre-lactation weight loss.

For strengthened immunity and reproductive health.

NUTRITION THAT STACKS UP

"With pellets, you know that each cow is getting exactly what she needs, she's digesting it better and she's making more milk. The only way a cow will not get what she needs is if she does not eat her pellets and if she doesn't eat her pellets, it will soon show."

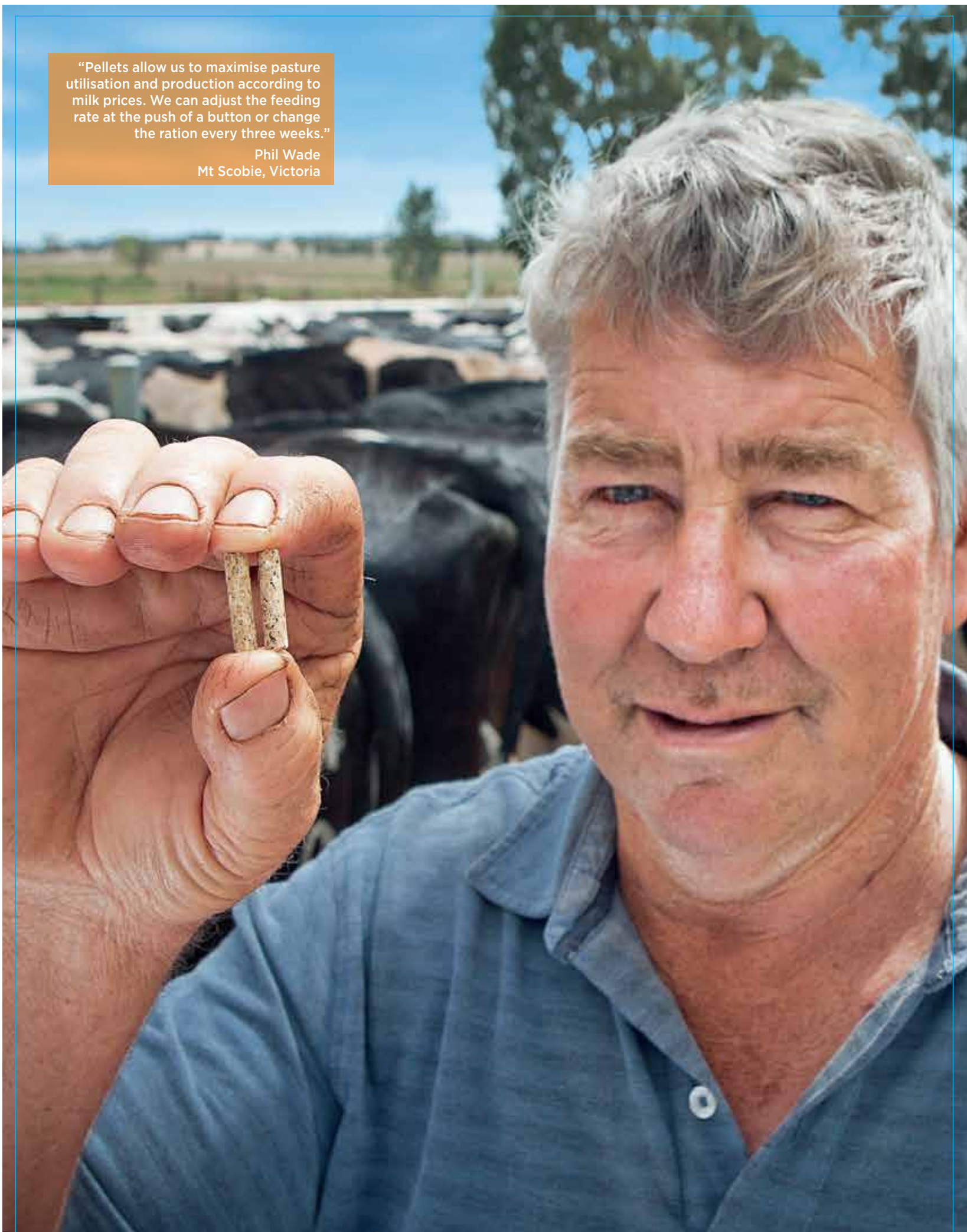
Graham Francis
Yanakie, Victoria.



AUSTRALIAN MADE. FARMER OWNED.

“Pellets allow us to maximise pasture utilisation and production according to milk prices. We can adjust the feeding rate at the push of a button or change the ration every three weeks.”

Phil Wade
Mt Scobie, Victoria



NUTRITION THAT STACKS UP



RICE HULLS ARE THE IDEAL CHOICE FOR CALF BEDDING



COVERAGE

For best results, fill pen to a depth of approx. 15cm deep.
One bale will cover an area of approx. 10m² size.



2048 CopRice Rice Hull Bale 125kg

Barcode: 9310 1400 0064 0

GREAT INSULATION

Rice Hulls offer improved insulation by allowing the animal to heat the air layers that exist within the hulls. The combination of the hulls and the heated air layers insulate the animal from the cold flow.

AVOID DAMPNES

Rice hulls will protect your animal from dampness because of their unique silica properties. The rice hulls will remain dry providing comfortable and healthy bedding. This eliminates any side effects from bacteria and mould caused by damp bedding.

COMFORT

Rice hulls will mould to the shoe of the animal providing a cushioning effect against any hard surfaces. This results in less foot and leg troubles and improved joint performance.

INEDIBLE

Rice hulls are not an attractive food source, and will not be eaten by the animal. Unlike alternative products which are eaten by the animal instead of being utilised as bedding.

INSECT RESISTANT

Rice hulls remain insect free, improving your animals comfort and health.

ENVIRONMENTALLY FRIENDLY

Rice hulls are a renewable resource that is processed without any chemical additives. No trees are destroyed in the production of this product.

ALL NATURAL AND BIODEGRADABLE

Rice hulls require less frequent replacement than other alternatives due to their silica properties, making them a very affordable product.

AUSTRALIAN

Rice hulls are produced by Australian farmers and packed by and Australian company - CopRice.



AUSTRALIAN MADE. FARMER OWNED.



HAVE ANY QUESTIONS?

Contact one of our ruminant nutritionists for a feeding program developed to meet your individual needs, or to book a free consultation or book an on-farm visit.

Freecall 1800 029 901 (Australia) 0508 267 742 (New Zealand).

MANUFACTURER DETAILS

Manufactured and packed by CopRice

CopRice, Railway Ave, Leeton, NSW, Australia 2705. Phone 02 6953 0422

CopRice, Corner of Graylands & Warrnambool Rds, Cobden, VIC 3266. Phone 03 5558 2500

CopRice, Finlay Rd, Tongala, VIC 3621. Phone 03 5859 3999



A HACCP based QA accreditation program



AUSTRALIAN MADE. FARMER OWNED.