

Loose Mix Supplementation Guide



About Nutramix

Nutramix is proud to be one of the few 100% Australian owned and family operated stockfeed and agri-processing businesses in Queensland and New South Wales. Operating since 2001, our head office and premix plant is based at Warwick, Qld and we operate a large mill at Narrabri, NSW which manufactures stockfeed, offers seed cleaning and grading, grain and pulse packaging for export. This Narrabri mill is AQIS approved.

We market all of our stockfeed and supplement products through the reseller network only, allowing customers easier access to our products. We offer stockfeed, supplements, fibre pellets, protein meals and commodities for all classes and types of livestock in bulk, bulk bagged and bagged.

Nutramix owners and management are producers themselves and sales staff have a wide range of practical experience, in addition to formal qualifications in animal nutrition and husbandry. Our sales staff conduct on-farm visits, seminars, staff training, technical advice and product comparisons to assist customers and resellers improve their profitability.

We pride ourselves on continuing first class service and have our own transport fleet to ensure we deliver on time. We offer "Specials" every month and have a genuine interest in building strong working relationships and supporting our customers. We look forward to assisting you with your stockfeed and supplement needs.

Why you should choose Nutramix

- We are 100% Australian owned and family operated.
- We have a premium quality product range at unbeatable prices.
- Customer service, quality product and quick delivery are our key priorities.
- Nutramix loose mixes are the most cost effective way to supplement your stock.
- Our products are unrivalled in nutritional analysis and price.
- Producers can improve their profitability through the flexibility of our supplement products. We have 32 salt and urea combinations to provide them with more intake control than ever.
- We have a sincere desire to work with customers and help them achieve their feeding goals.
- We offer a free consultancy service and excellent product support through professional nutritional guidance, ration formulation, yearly planning and farm management advice.
- We have our own transport fleet and established relationship with many freight companies. Located in Warwick, Qld and Narrabri, NSW we have access to many freight providers.

Nutramix Services

At Nutramix we offer you ...

- Free nutritional advice
- Contract bagging
- Contract pelleting
- Export packaging of grains and pulses
- Export quality seed cleaning and grading
- Commodity trading

What customers think of Nutramix

Bruce Jorgensen, a long standing Nutramix customer is impressed with the success he has achieved in improving his herd's fertility by using Nutramix loose mixes. Bruce runs over 400 breeders in the Mummulgum – Mallangane district on the northern rivers of NSW in the heart of cattle country.

Bruce starts feeding Nutramix loose mix to his herd 4 – 6 weeks before joining. Bruce said, "I now have a 97% calving rate over the whole herd but the greatest improvement has been with first calf heifers. Their calving percentage for their second calf has lifted from 75% to 96%."

"I find Nutramix loose mixes very efficient to use both in cost savings compared to other methods of supplementation and in a greater number of calves 'hitting the ground' every year," Bruce explained.

"Swan Hill has been dealing with Nutramix since Matthew started the business in 2001. We've found the company to be efficient, friendly and able to give good advice.

Nutramix was of great assistance to us while we were drought feeding. Our stud cows came through the dry in strong condition thanks to a ration worked out with Matthew and his team. The supply of necessary feed supplements was always available and delivered on time.

I've no doubt that Nutramix can provide the right product across the full range of stock feeding situations. We wish them every success."

Cam Russell
Swan Hill Santa Gertrudis Stud
Blackall

Visit us on the web:

www.nutramix.com.au

- Check out our new website where you will find information on all of our products including product analysis, feeding guides and brochures.
- Download a free copy of our Loose Mix Supplementation Guide.
- Get our latest "Specials" and Newsletter online.



Contents

<u>Why supplement with Nutramix products</u>	3
<u>Advantages of Nutramix's loose mixes</u>	4-5
<u>Safe and practical urea feeding</u>	6
<u>Handy Hints for loose mix feeding</u>	7
<u>Supplementation plan</u>	8
<u>Urea & Salt Combinations</u>	9
<u>Product selection</u>	10-23
<u>Sheep Supplementation Guide</u>	24
<u>Nutramix Skid Feeder</u>	25

Why supplement with Nutramix Products?

- To overcome seasonal nutritional deficiencies and to better utilise available dry feed in paddock.
- To utilise your cheapest feed i.e. what's in the paddock.
- To supply stock with the most limited nutrients – protein, energy, vitamins and/or minerals.
- Supplementation can help achieve management goals – turnover rate of stock, calving %, maintain stock condition throughout the year.
- Improves dry matter intake by up to 50%. Improves digestibility.
- Improves growth rates and turnover of stock.
- Results in higher calving percentage in breeder cattle.
- Improves herd health.
- Improves milk production in lactating stock.
- Eliminates nutritional deficiencies.
- Lowers mortality rates.
- Nutramix Dry Lick supplements are easy to control intakes of and therefore your cost. Intakes can be regulated to help achieve the goals of the grazer.
- Provides vitamins and minerals – improves productivity, calving percentage etc.
- Improves profitability of your operation.
- Provides bypass protein through the protein meals.
- Is extremely cost effective in comparison to other supplementation methods – see pages 4 and 5.
- Is safe to feed if directions are followed.
- Will fatten stock and improve finish on stock without the use of grain.



Check out our new website:

www.nutramix.com.au



Advantages of Nutramix's loose mixes over other supplementation methods

Liquid Supplements

- Price – Liquid Supplements more than double the cost.
- Liquid supplements contain between 40 – 65% water. Paying a lot for water.
- Liquid supplements do not contain high quality protein meals and therefore provide no or low bypass protein contents.
- Some liquid supplements offer very little control over cost.
- Some liquid supplements do not provide a control for intake. Therefore you can't provide supplement to stock at all times. This results in reduction in rumen microbes and therefore reduction in animal efficiency and performance.
- When liquid supplements are compared with dry licks nutritionally, they are shown to be extremely expensive for the nutrients the stock receives. They are higher in cost and generally lower in nutrients.

Blocks

- Price – Blocks are generally 1.5 times the cost of dry licks
- Blocks have no intake control. Therefore blocks are generally consumed too quickly or not at all.
- In some cases the blocks run out because stock are eating them too quickly, meaning stock miss supplementing for a period of time. In other cases, stock consume too little of the block and therefore do not receive the benefits of supplementing. Both cases result in a reduction in rumen microbes and therefore a reduction in animal efficiency and performance.
- Blocks contain very low amounts of high quality protein meals – low bypass protein.
- When blocks are compared with dry licks nutritionally, they are shown to be expensive for the nutrients the stock receives. They are higher in cost and generally lower in nutrients.



Water Medication

- Very high set up costs.
- Require correct calibration for proper nutrient intake. Intake is affected by water pH levels, temperature, weather conditions.
- Mechanical breakdown or malfunction can result in inaccurate dose delivery, which can have lethal results.
- WM contain no high quality protein meal, therefore no bypass protein.
- WM provides no energy.

Dry Licks

- There are no opposition dry lick products that beat Nutramix products on price or nutritional analysis.
- Nutramix provides the highest quality products on the market at the lowest prices.
- Nutramix dry licks do not contain fillers, such as zeolite, bentonite. These products have no nutritional value but are cheap ingredients.

Why Nutramix is better ...

- Other supplementation methods do not offer the flexibility of feeding. Nutramix provides flexibility through varying salt and urea contents as well as specific products to achieve varying goals. We have supplements to maintain or fatten and improve herd health and fertility. Products can be selected to achieve whatever goal the farmer wishes to achieve.
- Other supplementation methods can't provide "production" or "fattening" supplements. Without protein meals, other supplementation methods will not fatten and finish stock. They are therefore limited to being a higher cost maintenance supplement.



Safe and practical urea feeding

- Nutramix manufactures 0%, 4%, 8%, 12%, 16%, 20% & 24% urea levels in our loose mix range.
- Efficient use of urea can increase dry matter intake up to 50%.
- Urea increases microbial activity in the rumen allowing stock to 'chase' roughage. It also allows better digestion of roughage, therefore increasing dry matter intake.
- In the rumen, urea is broken down into ammonia and carbon dioxide. The ammonia is used by the microorganisms to form microbial protein.
- Ammonia increases the activity of the rumen microbes and the rate at which they break down feed and will increase the intake of feed due to faster digestion.
- For optimum dry feed utilisation cattle breeders will need approximately 40-80g/head/day of urea; growing cattle approximately 30-60g/head/day; sheep approximately 4 – 8g/head/day.
- Stock must be introduced to supplements with lower urea levels initially allowing the rumen to build up an ability to utilise ammonia.
- Troughs should be well drained and preferably have a roof.
- Supplements should be in troughs that can drain water to prevent the water pooling in the supplements.
- Never introduce supplements to hungry or starving stock as they will gorge on the supplement thus consuming urea levels that may prove toxic.
- Livestock should never be started on loose mixes that have too high of a urea level (8% or below is adequate to start for cattle, 4% for sheep).
- Only when intakes are below 500g/head/day in cattle can you consider going from an 8% urea lick to a 12% urea lick and below 50g/head/day in sheep can you consider going from a 4% to an 8% urea lick.
- Only change to urea levels greater than 16% when intakes are under approximately 300g/head/day on a 16% lick.

Handy Hints for loose mix feeding

- Loose mixes should be placed in a feeder, which protects the supplement from the weather and drains moisture. Holes should be put in the feeder.
- If product becomes wet, the next day, mix the wet and dry product remaining in the trough together. This will prolong the shelf life of the lick.
- Initially place trough where stock come into contact. **Do not place near water.**
- Once stock have accepted the lick, move trough around paddock to utilise dry feed. Stock will generally consume pasture up to 200m from feeder. When they have utilized pasture around the trough, move trough to another site.
- When starting stock, begin at a lower urea level. This allows for safe feeding if the stock are “craving” a particular ingredient.
- When the intakes of loose mixes are below 500g / hd / day for cattle the next level of urea can be used. Nutramix Urea levels increase by increments of 4%.
- Stock intake must always be monitored. The urea level should also be monitored to oversee the correct amount of urea being consumed.
- Urea should be fed at a rate of 20g – 80g / hd / day for cattle with a recommended level of 40g for breeders and 30g / hd / day for dry cattle. For sheep divide by 10 to achieve correct levels.
- Urea may be toxic if allowed to “pool” with water or if the livestock consume the product too quickly. When following correct directions this should not occur.
- Intakes can be easily regulated to achieve desired levels. If stock are consuming too much add 1 x 25kg bag of (DCP) Dicalcium Phosphate or Salt to 1 x 40kg bag of dry lick. This will slow intakes considerably.
- Use DCP if in a phosphorus deficient area or feeding breeders. DCP will supply added Ca & P as well as reduce intake.
- Salt is used to reduce intake for dry stock or breeders who don't require extra P.

SUPPLEMENTATION PLAN

Yearly plans are subject to many variables. This basic outline is specifically for feeding "loose mixes" and will provide a guideline on products and urea contents.

We aim to provide stock with nutrients that are most limited due to the season and condition of the pasture. The right supplement will keep profits rising.

Low protein and energy levels tend to reduce growth rates, conception and production in stock.

Generally this occurs when grass "hays off" due to hot weather or frosts. To overcome this deficiency, stock can be supplied with Non-Protein Nitrogen (NPN), e.g. Urea, or true protein, e.g. Protein meals, to stimulate their dry matter intake (by as much as 50%), improve the digestion rate and provide much needed energy. Protein meals are supplied in all Nutramix loose mix products as they supply high quality, highly digestible protein and energy to stock.

Supplementation Plan									
			Product Suitability: Beef Cattle						
Class of Stock	Pasture/crop conditions	Urea level	Beef Promix	Beef Economix	Production Promix	Fertility Plus	Beef Sustainer	Weaner Promix	Nutra Boost
Dry Stock	Early vegetative (Lush, green, short)	0							
	Late vegetative early flowering	4							
	Frosted/dry/dead	8+							
Weaners	Early vegetative (Lush, green, short)	0							
	Late vegetative early flowering	4							
	Frosted/dry/dead	8+							
Lactating/Pregnant females	Early vegetative (Lush, green, short)	0							
	Late vegetative early flowering	4							
	Frosted/dry/dead	8+							
Females joining	Early vegetative (Lush, green, short)	0							
	Late vegetative early flowering	4							
	Frosted/dry/dead	8+							

Considerations: Ideal Product Suitable Product

High Phosphorous Deficiency – Use Fertility Plus (All stock in all pasture conditions)

High Vitamin/Mineral Deficiency – Use Fertility Plus (All stock in all pasture conditions)

UREA AND SALT COMBINATIONS

Improve profitability through flexibility of each product line

Nutramix now has 32 different salt and urea combinations for each product line to provide the customer with more intake control than ever!

Nutramix seeks to suit the customers' individual needs. Owned and operated by graziers, Nutramix understands that one set product does not suit all circumstances, but the flexibility of our range is sure to satisfy your needs.

The system is simple. Every product has a broad range of urea contents, each of which is available in No Salt (NS), Low Salt (LS), Medium Salt (MS) or High Salt (HS) combinations. e.g. Beef Economix 4 – LS would contain 4% Urea and 10% Salt.

The flexibility of Urea and Salt contents in each product line provides the following benefits:

Urea

- Allows for safer feeding.
- Begin feeding cattle without fear of stock loss.
- Allows time for rumen to adjust to higher urea levels.
- The flexibility to optimise feed efficiency for cattle that have adapted to the progressive increase in urea.

Salt

- Improves the control of feed intake (e.g. if cattle are consuming too much supplement – higher salt content can be used).

Each Product Line (e.g. Beef Economix)

		Urea Contents						
Salt Contents		0%	4%	8%	12%	16%	20%	24%
	NS (0%)	0 NS	4 NS	8 NS	12 NS	16 NS	20 NS	24 NS
	LS (10%)	0 LS	4 LS	8 LS	12 LS	16 LS	20 LS	24 LS
	MS (20%)	0 MS	4 MS	8 MS	12 MS	16 MS	20 MS	24 MS
	HS (30%)	0 HS	4 HS	8 HS	12 HS	16 HS	20 HS	24 HS



PRODUCT SELECTION

NB: These comparisons are specific to the Nutramix range.

PRODUCT	PROTEIN ENERGY & FIBRE	PHOS.	VIT / MIN	COST	INTAKE
Beef Promix	MED	MED	MED	MED	MED
Beef Economix	MED	LOW	LOW	LOW	MED
Beef Phosphomix	LOW	HIGH	MED	MED	MED
Fertility Plus	MED	HIGH	HIGH	HIGH	MED
Weaner Promix	MED	MED	MED	MED	HIGH
Production Promix	V. HIGH	LOW	LOW	LOW	HIGH
Nutra Boost	V. HIGH	LOW	LOW	V. LOW	V. HIGH
Beef Sustainer	MED	LOW	LOW	V. LOW	MED
Sheep Promix	MED	MED	MED	MED	MED
Sheep Economix	MED	LOW	LOW	LOW	MED
Sheep Sustainer	MED	LOW	LOW	V. LOW	MED
Ewe Promix	MED	HIGH	HIGH	MED	HIGH

BEEF PROMIX

BEEF PROMIX

Intakes: 50 – 300g / hd / day

- Is our most complete supplement we manufacture for cattle.
- Contains high levels of vitamins & minerals to improve herd health and fertility.
- Is high in protein & energy and consists of high quality protein meals.
- Is classed as a “maintenance” supplement yet provides improvements in growth rate, herd health and fertility.
- Suitable for all classes of stock, therefore can be used as the sole product for smaller operators.
- Is ideally used for breeders on lighter country (P deficient) in dry periods or when feed quality decreases. Can be used with younger stock that require extra vitamins and minerals.

Protein Analysis

UREA	0%	4%	8%	12%	16%	20%	24%
Total Protein (%)	16	25	35	45	56	66	77
Crude Protein (%)	16	14	12	11	10	9	8
Eq. Crude Protein (%)	0	11	23	34	46	57	69
Salt (%)	0-30	0-30	0-30	0-30	0-30	0-30	0-30
Crude Fat (%)	3.1	2.8	2.5	2.2	1.8	1.5	1.2
Crude Fibre (%)	4.5	4.2	4	3.5	2.8	2.2	2
Energy MJ / kg	4.5	4.3	4	3.6	3.1	2.7	2.4

Vitamin / Mineral Analysis (per kg)

Calcium	Min.	120 g	Iron	Min.	200 mg
Magnesium	Min.	10 g	Manganese	Min.	500 mg
Phosphorus	Min.	30 g	Selenium	Min.	8 mg
Sulphur	Min.	20 g	Zinc	Min.	1100 mg
Cobalt	Min.	20 mg	Vitamin A	Min.	60,000 IU
Copper	Min.	300 mg	Vitamin D	Min.	8,000 IU
Iodine	Min.	10 mg	Vitamin E	Min.	250 mg

BEEF ECONOMIX

BEEF ECONOMIX

Intakes: 50 – 300g / hd / day

- Offers similar energy and protein levels to Beef Promix with half the vitamin / mineral content.
- Economical supplement when higher vitamins and minerals aren't required.
- Suitable for all classes of stock.
- Is well suited to dry stock or breeders that do not require higher vitamins and minerals.
- If stock are placed on heavier soils such as heavy clay, basalt or scrub country and don't require the higher amounts of vitamins and minerals, Beef Economix is the product of choice.
- Has a high vitamin / mineral content when compared against most supplementation products.

Protein Analysis

UREA	0%	4%	8%	12%	16%	20%	24%
Total Protein (%)	16	25	35	45	56	66	77
Crude Protein (%)	16	14	12	11	10	9	8
Eq. Crude Protein (%)	0	11	23	34	46	57	69
Salt (%)	0-30	0-30	0-30	0-30	0-30	0-30	0-30
Crude Fat (%)	3.3	3	2.7	2.3	2	1.6	1.4
Crude Fibre (%)	4.4	4.2	4	3.4	2.7	2.1	1.9
Energy MJ / kg	4.9	4.6	4.2	3.6	3.2	2.8	2.5

Vitamin / Mineral Analysis (per kg)

Calcium	Min.	80 g	Iron	Min.	200 mg
Magnesium	Min.	10 g	Manganese	Min.	300 mg
Phosphorus	Min.	15 g	Selenium	Min.	5 mg
Sulphur	Min.	20 g	Zinc	Min.	600 mg
Cobalt	Min.	10 mg	Vitamin A	Min.	40,000 IU
Copper	Min.	150 mg	Vitamin D	Min.	4,500 IU
Iodine	Min.	5 mg	Vitamin E	Min.	125 mg

BEEF SUSTAINER

BEEF SUSTAINER

Intakes: 50 – 300g / hd / day

- Sustainer is the best value-for-money maintenance supplement on the market
- Offers similar protein and energy levels to Promix & Economix with slightly lower levels of vitamins and minerals than Economix.
- Similar advantages to Economix.
- Contains Monensin to improve feed conversion and aid in bloat control.
- Similar analysis to most other opposition supplements.

Protein Analysis

UREA	0%	4%	8%	12%	16%	20%	24%
Total Protein (%)	14	23	33	44	54	65	76
Crude Protein (%)	14	12	10	10	8	8	7
Eq. Crude Protein (%)	0	11	23	34	46	57	69
Salt (%)	0-30	0-30	0-30	0-30	0-30	0-30	0-30
Crude Fat (%)	3.3	3	2.7	2.4	2	1.7	1.4
Crude Fibre (%)	4.4	1.2	4	3.5	2.7	2.2	2
Energy MJ / kg	5	4.8	4.5	4.2	3.4	2.9	2.6

Vitamin / Mineral Analysis (per kg)

Calcium	Min.	120 g	Manganese	Min.	240 mg
Magnesium	Min.	10 g	Selenium	Min.	4 mg
Phosphorus	Min.	15 g	Zinc	Min.	480 mg
Sulphur	Min.	15 g	Vitamin A	Min.	32,000 IU
Cobalt	Min.	8 mg	Vitamin D	Min.	3,600 IU
Copper	Min.	120 mg	Vitamin E	Min.	100 mg
Iodine	Min.	4 mg	Monensin	Min.	125 mg
Iron	Min.	200 mg			

BEEF PHOSPHOMIX

BEEF PHOSPHOMIX

Intakes: 20 – 300g / hd / day

- High calcium and phosphorus loose mix.
- To be used for cattle in phosphorus deficient areas.
- Has the same vitamin / mineral profile to Beef Promix.
- Is not high in energy and should therefore not be fed when feed quality declines.
- Is the ideal supplement if only requiring vitamins and minerals.

Protein Analysis

UREA	0%	4%	8%	12%	16%	20%	24%
Total Protein (%)	10	19	30	41	52	63	74
Crude Protein (%)	10	8	7	7	6	6	5
Eq. Crude Protein (%)	0	11	23	34	46	57	69
Salt (%)	0-30	0-30	0-30	0-30	0-30	0-30	0-30
Crude Fat (%)	1.9	1.7	1.5	1.1	.8	.4	
Crude Fibre (%)	2.6	2.4	2.1	1.6	1.2	.7	
Energy MJ / kg	2.7	2.5	2.2	1.7	1.2	.7	

Vitamin / Mineral Analysis (per kg)

Calcium	Min.	180 g	Iron	Min.	200 mg
Magnesium	Min.	10 g	Manganese	Min.	500 mg
Phosphorus	Min.	60 g	Selenium	Min.	8 mg
Sulphur	Min.	20 g	Zinc	Min.	1,100 mg
Cobalt	Min.	20 mg	Vitamin A	Min.	60,000 IU
Copper	Min.	300 mg	Vitamin D	Min.	8,000 IU
Iodine	Min.	10 mg	Vitamin E	Min.	250 mg

WEANER PROMIX

WEANER PROMIX

Intakes: 100 – 400g / hd / day

- Was our first “Production” supplement.
- Is more palatable and has higher levels of protein and energy compared to Beef Promix, Economix and Sustainer.
- If stock have lower intakes of Beef Promix, Economix and Sustainer use Weaner Promix.
- Will put condition on stock not just hold condition.
- Can be used if stock require a little more energy than with Beef Promix, Economix or Sustainer.
- Has the same vitamin / trace mineral content as Beef Promix and Phosphomix.
- Is an ideal supplement for starting stock if the customer has had trouble with stock consuming other supplements
- Can be fed all year round to any class of stock.

Protein Analysis

UREA	0%	4%	8%	12%	16%	20%	24%
Total Protein (%)	17	26	37	47	58		
Crude Protein (%)	17	15	14	13	12		
Eq. Crude Protein (%)	0	11	23	34	46		
Salt (%)	0-30	0-30	0-30	0-30	0-30		
Crude Fat (%)	2.8	2.5	2.1	1.9	1.7		
Crude Fibre (%)	4.5	4	3.7	3.1	2.4		
Energy MJ / kg	4.4	3.9	3.6	3.2	2.9		

Vitamin / Mineral Analysis (per kg)

Calcium	Min.	120 g	Iron	Min.	200 mg
Magnesium	Min.	10 g	Manganese	Min.	500 mg
Phosphorus	Min.	30 g	Selenium	Min.	8 mg
Sulphur	Min.	20 g	Zinc	Min.	1,100 mg
Cobalt	Min.	20 mg	Vitamin A	Min.	60,000 IU
Copper	Min.	300 mg	Vitamin D	Min.	8,000 IU
Iodine	Min.	10 mg	Vitamin E	Min.	250 mg

FERTILITY PLUS

FERTILITY PLUS

Intakes: 10 – 300g / hd / day

- Is one of the highest quality loose mixes on the market in relation to vitamin and mineral content.
- Is a supplement that should be used on every breeder property during joining and is extremely economical with a cost of as little as 2c / hd / day.
- Was formulated to improve conception rates, improve herd health, eliminate nutritional deficiencies, improve growth rates of weaners.
- The goal of Fertility Plus is to offer the breeder every opportunity to cycle and hence get in calf.
- It has a very high vitamin, mineral, protein and energy content.
- It was based off the idea of "spike" feeding which was used very successfully in Northern Australia.

The idea was to "spike" the animal into cycling based on feeding protein meals over a couple of months. This provided a rising plane of nutrition and mimicked spring storms and prompted the animal to cycle.

- Nutramix has taken this concept and added a high vitamin and mineral content to provide a more balanced supplement.
- Commence supplementing Fertility Plus 6 weeks before joining to replenish the breeder with vitamins and minerals, while she is supplying milk to the calf.
- Fertility Plus should be provided to stock throughout the joining period. Even when pasture is green, stock

will consume Fertility Plus if they are craving vitamins and minerals.

- When feed is green, supply Fertility Plus with no urea and no salt. Stock show cravings for phosphorous and will consume the supplement even when the feed is green.
- Fertility Plus requires an increase in calving rate of only 1% to pay for itself. This does not include the benefits from increased milk from the cow, increased growth from the calf, earlier conception, lower vet costs etc.
- Fertility Plus can be supplemented with any stock that are in vitamin or mineral deficient areas. It will improve growth rates in dry stock by providing them with vitamins and minerals.

Protein Analysis

UREA	0%	4%	8%	12%	16%	20%	24%
Total Protein (%)	19	28	38	48	59	69	79
Crude Protein (%)	19	17	15	14	13	12	10
Eq. Crude Protein (%)	0	11	23	34	46	57	69
Salt (%)	0-30	0-30	0-30	0-30	0-30	0-30	0-30
Crude Fat (%)	3.4	3.2	2.8	2.5	2.3	2.1	1.8
Crude Fibre (%)	5.9	5.6	5.1	4.6	3.9	3.4	3
Energy MJ / kg	5.2	4.9	4.5	4.1	3.6	3.2	2.8

Vitamin / Mineral Analysis (per kg)

Calcium	Min.	120 g	Iron	Min.	200 mg
Magnesium	Min.	10 g	Manganese	Min.	650 mg
Phosphorus	Min.	60 g	Selenium	Min.	12 mg
Sulphur	Min.	25 g	Zinc	Min.	1,650 mg
Cobalt	Min.	30 mg	Vitamin A	Min.	86,000 IU
Copper	Min.	450 mg	Vitamin D	Min.	12,000 IU
Iodine	Min.	15 mg	Vitamin E	Min.	375 mg

PRODUCTION PROMIX

PRODUCTION PROMIX

Intakes Green Pasture: 100 – 500g / hd / day

Intakes Dry Pasture: 200 – 800g / hd / day

- Is a high energy, high protein, high quality loose mix designed to enhance growth rates.
- Does not contain any grain, energy comes from protein meal
- Can be fed all year round in any situation, whether you have high or low quality feed.
- Aids in faster finishing of stock, therefore quicker turnover.
- Is an ideal supplement to “background” stock.
- Can be used when feeding lush pastures such as oats. Production Promix provides higher fibre content and aids in reducing scours on green feed.
- Is very effective in increasing weight gains on dry, low quality pastures.
- Easy and safe to feed – no grain induced problems.
- Can have Monensin added to aid in preventing bloat issues.
- Is mainly used for dry stock but can be used with breeders if pasture is limited or if breeders require more protein and energy to improve condition.
- Is ideal for first calf heifers that require more protein and energy while still looking after the calves.
- Is also good for maiden heifers to promote them to reach target joining weights .
- Very palatable product – if stock are not eating any of the “maintenance” supplements use Production Promix.
- Is suitable for both sheep and cattle.
- Production Promix is classed as a “grower” supplement while Nutra Boost is classed as a “finisher” supplement.

Protein Analysis

UREA	0%	4%	8%	12%	16%	20%	24%
Total Protein (%)	22	32	42	52	63		
Crude Protein (%)	22	21	19	18	17		
Eq. Crude Protein (%)	0	11	23	34	46		
Salt (%)	0-30	0-30	0-30	0-30	0-30		
Crude Fat (%)	4.8	4.5	4.2	3.9	3.6		
Crude Fibre (%)	7.6	7.2	6.8	6.3	5.8		
Energy MJ / kg	7.7	7.3	6.8	6.2	5.7		

Vitamin / Mineral Analysis (per kg)

Calcium	Min.	80 g	Iron	Min.	200 mg
Magnesium	Min.	10 g	Manganese	Min.	300 mg
Phosphorus	Min.	15 g	Selenium	Min.	5 mg
Sulphur	Min.	15 g	Zinc	Min.	600 mg
Cobalt	Min.	10 mg	Vitamin A	Min.	40,000 IU
Copper	Min.	150 mg	Vitamin D	Min.	4,000 IU
Iodine	Min.	5 mg	Vitamin E	Min.	125 mg

NUTRA BOOST

NUTRA BOOST

Intakes Green Pasture: 100 – 800g / hd / day

Intakes Dry Pasture: 400 – 1500g / hd / day

- Has all the benefits of Production Promix.
- Is a very high energy supplement. Contains 10.5 MJ / kg energy, similar to a finisher ration.
- Contains no grain and is mainly made up of high quality protein meal.
- Is a very cost effective way of fattening stock.
- Is a self regulating supplement and therefore does not require monitoring of intakes. It is to be used in a similar fashion to other supplements so that stock will “chase” roughage and will therefore consume the cheapest feed source – pasture.
- Is extremely cost effective with backgrounding stock. Young stock respond to higher quality protein such as bypass protein (protein meals) and therefore high growth rates can be achieved.
- Trials have shown growth rates of 0.4 – 0.6 kg / hd / day in winter on dry frosted feed.
- Contains monensin for improvement in feed conversion and to aid in bloat control.
- Is the best product to use when feeding oats or lush, green feed. It is designed to minimise scouring and balance the high protein green feed with high energy and fibre. The mineral content is formulated to control “oat and grass tetany” and to improve the efficiency and conversion of the green feed.
- Can be fed to both sheep and cattle.
- Production Promix is classed as a “grower” supplement while Nutra Boost is classed as a “finisher” supplement.

Protein Analysis

UREA	0%	2%	4%	6%	8%
Total Protein (%)	17	22	26	32	37
Crude Protein (%)	17	16	15	15	14
Eq. Crude Protein (%)	0	6	11	17	23
Salt (%)	0-30	0-30	0-30	0-30	0-30
Crude Fat (%)	5.4	5.2	5	4.7	4.5
Crude Fibre (%)	7.9	7.5	7.1	6.8	6.5
Energy MJ / kg	9.4	8.9	8.5	8.1	7.6

Vitamin / Mineral Analysis (per kg)

Calcium	Min.	50 g	Manganese	Min.	150 mg
Magnesium	Min.	10 g	Selenium	Min.	2.5 mg
Phosphorus	Min.	8 g	Zinc	Min.	300 mg
Sulphur	Min.	10 g	Vitamin A	Min.	20,000 IU
Cobalt	Min.	5 mg	Vitamin D	Min.	2,000 IU
Copper	Min.	75 mg	Vitamin E	Min.	60 mg
Iodine	Min.	2.5 mg	Monensin	Min.	75 mg
Iron	Min.	100 mg			

GROW & GLOW

GROW & GLOW

Intakes Green Pasture: 100 – 800g / hd / day

Intakes Dry Pasture: 400 – 1500g / hd / day

- Has the same advantages as Nutra Boost.
- Grow & Glow is ideal to be fed to young bulls or bulls on oats. It has a higher vitamin / mineral profile and uses higher quality protein meal such as Full Fat Soy.
- It is designed with fertility in mind and provides stock with a clean, shiny coat.
- Improves muscle definition and growth rates.
- It is extremely safe to feed, with no grain derived issues.
- Stock can be sold as “Paddock Reared” when supplemented with Grow & Glow.

Protein Analysis

UREA	0%	2%	4%	6%	8%
Total Protein (%)	21	26	30	36	41
Crude Protein (%)	21	20	19	19	18
Eq. Crude Protein (%)	0	6	11	17	23
Salt (%)	0-30	0-30	0-30	0-30	0-30
Crude Fat (%)	7.8	7.3	6.9	6.5	6.1
Crude Fibre (%)	5.6	5.2	4.9	4.5	4.1
Energy MJ / kg	10	9.6	9.1	8.5	8.1

Vitamin / Mineral Analysis (per kg)

Calcium	Min.	75 g	Manganese	Min.	300 mg
Magnesium	Min.	10 g	Selenium	Min.	5 mg
Phosphorus	Min.	15 g	Zinc	Min.	650 mg
Sulphur	Min.	15 g	Vitamin A	Min.	42,000 IU
Cobalt	Min.	10 mg	Vitamin D	Min.	5,000 IU
Copper	Min.	165 mg	Vitamin E	Min.	125 mg
Iodine	Min.	5 mg	Monensin	Min.	125 mg
Iron	Min.	150 mg			

SHEEP PROMIX

SHEEP PROMIX

Intakes: 10 – 50g / hd / day

- Is our most complete supplement we manufacture for sheep.
- Contains high levels of vitamins and minerals to improve flock health and fertility.
- Is high in protein and energy and consists of high quality protein meals.
- Is classed as a “maintenance” supplement yet provides improvements in growth rate, wool quality, flock health and fertility.
- Suitable for all classes of stock, therefore can be used as the sole product for smaller operators.

Protein Analysis

UREA	0%	4%	8%	12%	16%	20%	24%
Total Protein (%)	17	26	37	47	58		
Crude Protein (%)	17	15	14	13	12		
Eq. Crude Protein (%)	0	11	23	34	46		
Salt (%)	0-30	0-30	0-30	0-30	0-30		
Crude Fat (%)	3.1	2.8	2.5	2.2	1.8		
Crude Fibre (%)	5.1	4.7	4.1	3.6	3.1		
Energy MJ / kg	4.6	4.3	4	3.6	3.2		

Vitamin / Mineral Analysis (per kg)

Calcium	Min.	100 g	Iron	Min.	200 mg
Magnesium	Min.	10 g	Manganese	Min.	400 mg
Phosphorus	Min.	25 g	Selenium	Min.	6 mg
Sulphur	Min.	30 g	Zinc	Min.	850 mg
Cobalt	Min.	15 mg	Vitamin A	Min.	50,000 IU
Copper	Min.	15 mg	Vitamin D	Min.	6,000 IU
Iodine	Min.	7.5 mg	Vitamin E	Min.	185 mg

SHEEP ECONOMIX

SHEEP ECONOMIX

Intakes: 10 – 50g / hd / day

- Offers similar energy and protein levels to Sheep Promix with half the vitamin / mineral content.
- Economical supplement when higher vitamins and minerals aren't required
- Suitable for all classes of stock.
- Is well suited to dry stock or breeders that do not require higher vitamins and minerals.
- Has a high vitamin / mineral content when compared against most supplementation products.

Protein Analysis

UREA	0%	4%	8%	12%	16%	20%	24%
Total Protein (%)	16	25	35	45	56		
Crude Protein (%)	16	14	12	11	10		
Eq. Crude Protein (%)	0	11	23	34	46		
Salt (%)	0-30	0-30	0-30	0-30	0-30		
Crude Fat (%)	3.3	3	2.7	2.3	2		
Crude Fibre (%)	5.3	4.9	4.3	3.8	3.3		
Energy MJ / kg	4.9	4.6	4.2	3.7	3.2		

Vitamin / Mineral Analysis (per kg)

Calcium	Min.	80 g	Iron	Min.	200 mg
Magnesium	Min.	10 g	Manganese	Min.	300 mg
Phosphorus	Min.	15 g	Selenium	Min.	4.5 mg
Sulphur	Min.	20 g	Zinc	Min.	600 mg
Cobalt	Min.	10 mg	Vitamin A	Min.	40,000 IU
Copper	Min.	10 mg	Vitamin D	Min.	4,500 IU
Iodine	Min.	5 mg	Vitamin E	Min.	125 mg

SHEEP SUSTAINER

SHEEP SUSTAINER

Intakes: 10 – 50g / hd / day

- Offers similar protein and energy levels to Promix & Economix with slightly lower levels of vitamins and minerals than Economix.
- Similar advantages to Economix.
- Sustainer is the best value-for-money maintenance supplement on the market.
- Similar analysis to most other opposition supplements.

Protein Analysis

UREA	0%	4%	8%	12%	16%	20%	24%
Total Protein (%)	14	23	33	44	54		
Crude Protein (%)	14	12	10	10	8		
Eq. Crude Protein (%)	0	11	23	34	46		
Salt (%)	0-30	0-30	0-30	0-30	0-30		
Crude Fat (%)	3.5	3.3	2.9	2.6	2.2		
Crude Fibre (%)	4.4	4.2	4	3.7	3.3		
Energy MJ / kg	5.2	4.8	4.5	4.2	3.7		

Vitamin / Mineral Analysis (per kg)

Calcium	Min.	120 g	Iron	Min.	200 mg
Magnesium	Min.	10 g	Manganese	Min.	240 mg
Phosphorus	Min.	10 g	Selenium	Min.	4 mg
Sulphur	Min.	10 g	Zinc	Min.	480 mg
Cobalt	Min.	8 mg	Vitamin A	Min.	32,000 IU
Copper	Min.	10 mg	Vitamin D	Min.	3,600 IU
Iodine	Min.	4 mg	Vitamin E	Min.	100 mg

EW E PROMIX

EW E PROMIX

Intakes: 10 – 100g / hd / day

- Is the Fertility Plus equivalent for ewes.
- Is one of the highest quality loose mixes on the market for ewes, in relation to vitamin and mineral content.
- Is a supplement that should be used on every sheep breeder property during joining and is extremely economical with a cost of as little as 0.5c / hd / day.
- Was formulated to improve conception rates, improve flock health, eliminate nutritional deficiencies, improve growth rates of lambs.
- It has a very high vitamin, mineral, protein and energy content.
- Commence supplementing Ewe Promix 6 weeks before joining to replenish the ewe with vitamins and minerals, while she is supplying milk to the lamb.
- Ewe Promix should be provided to stock throughout the joining period. Even when pasture is green, stock will consume Ewe Promix if they are craving vitamins and minerals.
- Ewe Promix requires an increase in lambing rate of only 1% to pay for itself. This does not include the benefits from increased milk from the ewe, increased growth from the lamb, earlier conception, lower vet costs.
- Ewe Promix can be supplemented to any stock that are in vitamin or mineral deficient areas. It will improve growth rates in dry stock by providing them with vitamins and minerals.
- The vitamin / mineral profile is designed to improve wool quality and reduce wool break.


















































Protein Analysis

UREA	0%	4%	8%	12%	16%	20%	24%
Total Protein (%)	18	27	38	48	59		
Crude Protein (%)	18	16	15	14	13		
Eq. Crude Protein (%)	0	11	23	34	46		
Salt (%)	0-30	0-30	0-30	0-30	0-30		
Crude Fat (%)	3.2	2.9	2.6	2.2	1.9		
Crude Fibre (%)	4.4	4.1	3.8	3.4	2.8		
Energy MJ / kg	4.9	4.6	4.2	3.8	3.3		

Vitamin / Mineral Analysis (per kg)

Calcium	Min.	100 g	Iron	Min.	200 mg
Magnesium	Min.	10 g	Manganese	Min.	500 mg
Phosphorus	Min.	30 g	Selenium	Min.	8 mg
Sulphur	Min.	35 g	Zinc	Min.	1,100 mg
Cobalt	Min.	20 mg	Vitamin A	Min.	60,000 IU
Copper	Min.	15 mg	Vitamin D	Min.	8,000 IU
Iodine	Min.	10 mg	Vitamin E	Min.	250 mg

Sheep Supplementation Guide

Supplementation Plan								
			Product Suitability: Sheep					
Class of Stock	Pasture/crop conditions	Urea level	Sheep Promix	Sheep Economix	Ewe Promix	Sheep Sustainer	Production Promix	Nutra Boost
Dry Stock	Early vegetative (Lush, green, short)	0						
	Late vegetative early flowering	4						
	Frosted/dry/dead	8						
Lambs	Early vegetative (Lush, green, short)	0						
	Late vegetative early flowering	4						
	Frosted/dry/dead	8						
Lactating/ Pregnant ewes	Early vegetative (Lush, green, short)	0						
	Late vegetative early flowering	4						
	Frosted/dry/dead	8						
Ewes joining	Early vegetative (Lush, green, short)	0						
	Late vegetative early flowering	4						
	Frosted/dry/dead	8						



Ideal Product



Suitable Product

Nutramix Skid Feeder

“Our New Nutramix Skid Feeder” is a Lick Trough System that has been specifically designed for those “Dry Loose Mix Licks & Supplements” that require protection from the weather.

“Nutramix Skid Feeder” features include:

- Quick and easy on-farm assembly (like a Meccano set)
- Strong, all-galvanised “SKID” base and frame
- Tows easily with “Quad-bike” or “Ute” (base frame is on skids)
- 500 Lt rugged “Poly” Tub sits in a secure ring
- Lid-Lift design - tilting “Poly” Roof supported by a ring for ease of vehicle access to the tub for the quick re-filling of supplement
- Assists with Buffalo fly control - Hanging points for “Back-Rubbers”
- Stackable system for ease of transport over distance
- Capacity of 500kg of product
- Easy to move around paddock for better feed utilisation



The purpose of this Nutramix Loose Mix Supplementation Guide is to give general information only, Nutramix Pty Ltd disclaims any liability to any person arising directly or indirectly from the use of or from any errors or omissions in the Information in this guide.

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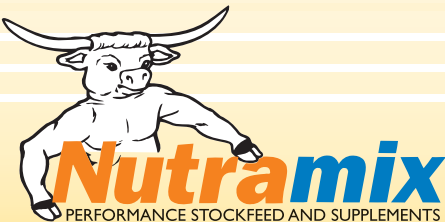
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