A full year concept from STOCKLICK Trading

“A means of maintaining productive breeders in Northern Australia”
✓ An increase in conception rates
✓ A reduction in embryo mortality
✓ Palatable Protein meals to encourage consumption
✓ Promoting higher intakes of hayed off/dry pasture
✓ Helping to reduce live weight loss in production cattle
✓ Correcting Vitamin & Mineral deficiencies
✓ Consistency and performance

Following several dry years, and generally wide-spread un-seasonal rain the idea of developing a tailored full year feeding schedule emerged. Our business is providing fully tailored products and programs for individual situations and circumstances. We intend to follow suit with the Progressive Fertility Program. The aim is to give you (the grazier) the tools to maximise the production of strong, healthy calves born to productive, well-managed cows producing more milk giving calves the necessary jump start for a life of continuous production

**FACT:**
Tropical pastures often have poor Nitrogen to Sulphur ratios, this reduces the rate of fibre breakdown. A shortage of Sulphur results in increased time required in cud chewing (29%) and more chewing time per bolus of cud regurgitated (39% increase). Sulphur when added to a deficient diet, increases – dry matter intake
- digestibility by 4 to 7 percentage units
- Protein entering the small intestine by 13%
- Sulphur amino acid content of the extra Protein by 17%

**FACT:**
In Phosphorus deficient breeders milk production can be as low as 1.5-2.5 litres per day. When supplemented with adequate Phosphorus milk production can be lifted up to 6 litres per day. Every additional litre is worth 15KG at weaning.

<table>
<thead>
<tr>
<th>Fat Score</th>
<th>BCS</th>
<th>Time to Re-Breed</th>
<th>Conception Rate %</th>
<th>% Pregnant</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3</td>
<td>89 days</td>
<td>70</td>
<td>43</td>
</tr>
<tr>
<td>2.5</td>
<td>4</td>
<td>80 days</td>
<td>80</td>
<td>61</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>59 days</td>
<td>94</td>
<td>86</td>
</tr>
<tr>
<td>3.5</td>
<td>6</td>
<td>62 days</td>
<td>100</td>
<td>93</td>
</tr>
<tr>
<td>4</td>
<td>7</td>
<td>31 days</td>
<td>100</td>
<td>93</td>
</tr>
</tbody>
</table>

NOTE: Where applicable these products contain *Flavophospholipol*. This product is NOT PCAS accredited.
Wet Season

After a high rainfall period as feed freshens and the energy content increases, cattle will cycle more efficiently, although major trace minerals can be limited. In this wet period energy and protein are high creating an added requirement for Phosphorus. Phosphorus and Calcium deficient cattle will suffer a reduced intake of dry matter by up to 40% when Phosphorus is lacking in the diet, and up to 34% when calcium is inadequate. When feeding a Wet Season supplement it is expected that a breeding cow will gain up to an additional 70kg live weight, thus creating an improved situation for maximum gains in pregnancy percentages, which will carry through to high numbers at calving and weaning. Adding sufficient protein, energy and minerals will boost the oestrus cycle for maximum conception rates. A balanced Wet Season Supplement has been reported to aid in the reduction of cattle consuming potentially poisonous native and introduced plants. Wet season supplementation will provide cattle the nutrients they are often seeking when they consume these plants, while promoting intake of fresh pasture. Ideally a Wet Season supplement will be continued 4-6 weeks after the Wet Season ceases OR if controlled mating is part of your program, supplement until cows are PTIC (Pregnancy Tested In Calf), giving the embryo maximum chance of survival while blood ammonia is at a minimal level.

Mid Season

Coming from the Wet Season as the pasture begins to diminish into winter, we need to be looking at maintaining the gains from a well-managed Wet Season supplement program. A balanced Mid Season supplement is the perfect link between the Wet Season and the Dry Season. Generally, as pasture crude protein drops below the critical 6% usually in early July, there is insufficient crude protein to maintain a healthy bacterial population in the rumen and feed intake will decline. This is where the introduction of vegetable protein meals, an increase in urea and maintenance of a good Phosphorus level, will boost breeder BCS (Body Condition Score) at a time during the middle stages of pregnancy during which the foetus starts to develop all the organs and especially the reproductive tract.

Dry Season

Continued insufficient crude protein levels will take its toll on cows in the third trimester of pregnancy (commonly in the Dry Season). They require an additional 22 MJ of ME (energy) and 250g protein per day. This is the time when the placenta is developing to its utmost, and having the breeder at maintenance or on a slight positive weight gain has advantages for calf vigour and survival rates. The requirement for Calcium and Phosphorus increases by 14g and 8g respectively, when feed quality and voluntary feed intake (VFI) are decreasing. Balanced supplementation should continue on from a respectable Mid Season supplement to avoid weight loss and delays in return to service following calving. Dry season supplements require urea at useful levels (40-60grams per head per day) to maximise grazing intervals for breeders. During this harder time about 20% of the supplement should consist of a quality vegetable protein meal i.e. Cotton Seed Meal. Requirements of the three major bacterial species in the rumen can only be obtained from a true protein source i.e. CSM. As true protein is broken down by other microbes, the fibre digesting bacteria can then process these essential requirements. These crucial nutrients reduce loss of nitrogen via urine by 18% and increased Nitrogen retention by 23%, which means less urea Nitrogen lost through urine, which can be retained and used as protein by the animal.
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