Quality Liquid Feeds, Inc. (QLF) has been a pioneer and leader in the liquid feed supplement arena for over 35 years, offering their customers consistent, scientifically-formulated feeds for a wide range of animals, diets and environments.
Stocker Cattle Production

QLF offers a targeted liquid supplementation program for stocker operators directly impacting forage utilization, feed intake and immune health. These convenient stocker products are designed to enhance forage utilization by supplying a source of degradable protein and energy optimizing ruminal fermentation critical for achieving profitable gain.

Enhanced Nutrition

The challenge of nutritional programs for the stocker operator is to provide highly palatable feeds that stimulate intake, provide critical nutrients and additives, and reach optimum performance level. QLF liquid supplements are designed to enhance forage utilization by supplying a source of degradable protein and sugar, enhancing ruminal fermentation to promote profitable gain.

QLF can deliver a supplemental package into a full range of stocker diets. Specific products can provide supplemental protein, macro and micro minerals, vitamins and additives needed by stocker calves. QLF supplements can be formulated to contain as little as 20% to 40% crude protein. The protein is comprised of a mixture of NPN from urea and readily available forms of protein. The protein is comprised of a mixture of NPN from urea and natural protein sources from other ingredients. Readily available forms of minerals are provided with QLF supplements.

Applications

Lick Tanks
Lick-wheel tank feeders are designed specifically for self-fed liquid supplements. Typically made from polyethylene, they are covered to maintain product integrity. Cattle access the supplement by licking a rotating wheel which is immersed in the liquid. A lick tank will typically have 2 or 4 lick wheels. Producers should allow 1 wheel for 20-25 head of cattle. Advantageously, lick tanks allow for several small meals over the course of the day and an opportunity for less dominant animals to come to the feed unchallenged. QLF stocker supplements are formulated to complement available forages. When managed properly, offering these feeds in free choice lick tanks optimizes forage use, and promotes cattle to maintain condition and optimal level of performance.

Bole Treatment
Proper supplementation for stocker cattle improves forage utilization by increasing intake and/or digestibility, while ensuring adequate nutrition to support desired performance. Forage treatment offers an alternative delivery method for liquid supplements. For an increasing number of cattlemen, treating forages with QLF liquid supplements have become an effective response to the limitations provided with low-cost, low-quality forages. Application rate of QLF liquid should be 7-10% of bale weight. Treated bales delivers more dry matter, protein, energy and supplemental vitamins and minerals to the calves while also promoting intake and digestibility.

Mixed Rations
Balanced nutrition is critical for immune health, consistent intakes and optimizing calf gains. When liquid supplements are included in total mixed rations, ingredients with varied particle size and density are held in place. Trace nutrients and additives contained in QLF liquid are distributed evenly throughout the ration enhancing performance and reducing the risk of potential digestive upsets. These supplements aid in tying up ration fines, masking off-odors and can maintain consistent intakes providing for better rumen function and better additive utilization, promoting optimal calf health.

Free-Choice Additive List

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>DESCRIPTION</th>
<th>PURPOSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinpro® 180</td>
<td>Organic Zinc (18% Zn)</td>
<td>Improve hoof health, improve immune function</td>
</tr>
<tr>
<td>Zinpro Availa® 4</td>
<td>Organic sources of Zinc, Manganese, Copper and Cobalt</td>
<td>Improve hoof health, improve immune function</td>
</tr>
<tr>
<td>Altosid® IGR</td>
<td>EPA registered feed additive containing the insect growth regulator S-Methoprene, a larvicide</td>
<td>For use in supplements for cattle as a part of iterated pest management program to control flies developing in manure</td>
</tr>
<tr>
<td>MicroAid®</td>
<td>All natural yucca extract</td>
<td>Promotes rumen health and rumen fermentation</td>
</tr>
<tr>
<td>Celmanax</td>
<td>Yeast culture, Mos and beta glucans</td>
<td>Promotes rumen health and rumen fermentation derived from yeast cell walls and bioavailable mannans, glucans and organic nutrients</td>
</tr>
</tbody>
</table>

Benefits of Using QLF Liquid Supplements for Stocker Cattle

- Increased Forage Intake and Utilization
- Less Feed Waste
- Enhanced Nutrition
- Superior Additive Carrier
- Convenience
- Economics