SGP+™

Fundamental Questions:

- Is it Safe?
- Does it Work?
- Will it Reduce My Costs?
- Is it Environmentally Friendly?

The Answer to All 4 Questions:

YES!
Here's why:

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Is SGP+™ Safe?

Video Evidence

Newly acquired F-1 Brangus Heifers being introduced to SGP+™. Herd performance decreased after being removed off of ration mixed with SGP+™. Herd now back on SGP+™ and now showing positive gains.

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Is SGP+™ Safe?

Data:

All ingredients in SGP+™ are either approved by the F.D.A. or U.S.D.A. or both.

- All ingredients in SGP+™ have been safely fed and/or applied to humans and animals for thousands of years.
  - For example, Mastic is considered "liquid BandAide™", while "Carob" is considered a complete food.
- In feed trials of over 1500 beef heifers, ranchers are reporting with commentary, videos, pictures and even some data, that SGP+™ has shown only positive impacts on herd health.
- One rancher reports that slaughtered calves are being remarked to present the most beautiful meat ever seen by the butcher.
  - And, the rancher reports that the taste and quality of the slaughtered calves is simply remarkable.

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Does SGP+™ Work?

Manure Scoring

For Approximate Levels
Of Dietary Protein and Energy
TDN = Total Digestive Nutrients

Grade 3 Manure Patty Indicates Optimum Mix, Digestion, and Absorption of Ration

See: "Manure Scoring Determines Supplementation Needs", Dr. Robert Wells, Noble Research Institute, Noble News and Views, October 2013
https://www.noble.org/news/publications/ag-news-and-views/2013/october/manure-scoring-determines-supplementation-needs/

"A Manure Score 3 = 12-15% CP 62-70% TDN of diet."

- A "Manure score 3 is ideal and will typically start to take on a normal pat form."
- "The consistency will be similar to thick pancake batter. It will exhibit a slight divot in the middle."
- "This diet is not lacking nutritionally, yet is not in excess for the cow and her physiological stage."
- Source: "Manure Scoring – What Comes Out Tells You What Went In and What to Change", Kathy Voth quoting, Oct. 7, 2019 Dr. Robert Wells, Noble Research Institute.
- This again reinforces the breakdown of lignin into digestible energy and protein for herds consuming SGP+™.

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Does SGP+™ Work?

Manure Scoring

For Approximate Levels
Of Dietary Protein and Energy
TDN = Total Digestive Nutrients

Grade 1 Manure Patty Indicates a Least Desirable Score. CP and TDN are imbalanced for proper digestion and absorption.

Grade 3 Manure Patty
3 Weeks on SGP+™
Schmidt Ranch,
Jefferson, TX

See: "Manure Scoring Determines Supplementation Needs", Dr. Robert Wells, Noble Research Institute, Noble News and Views, October 2013
https://www.noble.org/news/publications/ag-news-and-views/2013/october/manure-scoring-determines-supplementation-needs/

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Does SGP+™ Work?

Manure Scoring

For Approximate Levels
Of Dietary Protein and Energy
TDN = Total Digestive Nutrients

Grade 5 Manure Patty Indicates a Highest / Least Desirable Score. Very dry patty indicative of poor quality forage inadequate protein / carbohydrate with low quality fiber; i.e., undigestible lignin.

Grade 3 Manure Patty
3 Weeks on SGP+™
Schmidt Ranch,
Jefferson, TX

See: "Manure Scoring Determines Supplementation Needs", Dr. Robert Wells, Noble Research Institute, Noble News and Views, October 2013
https://www.noble.org/news/publications/ag-news-and-views/2013/october/manure-scoring-determines-supplementation-needs/

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Does SGP+™ Work?

Manure Scoring

For Approximate Levels
Of Dietary Protein and Energy
TDN = Total Digestive Nutrients

Grade 3 Manure Patty Indicates Optimum Mix, Digestion, and Absorption of Ration

See: "Manure Scoring Determines Supplementation Needs", Dr. Robert Wells, Noble Research Institute, Noble News and Views, October 2013
https://www.noble.org/news/publications/ag-news-and-views/2013/october/manure-scoring-determines-supplementation-needs/

Ranchers are reporting the absence of fly larvae in manure.

- This is supported by a Manure Score of 3.
- The Manure Score 3 strongly suggests that the lignin, specifically required to feed the larvae, is no longer present in the manure as the lignin has been broken down into usable energy and protein.
- Furthermore, one rancher, who has been supplementing with SGP+™ for nearly 10 years, is now reporting a reduction of flies on his cows.
- Where in the early stage of on-going study and results, this is proving to be most encouraging and is being supported by previous scientific studies.

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Does SGP+™ Work?

Post-Feed Cattle Video

Schmidt Ranch, Jefferson, TX
Reports by Schmidt's, their Crew, and Visitors.

1. Herd was on SGP+™.
2. When first placed on SGP+™ Herd Improved.
3. Hurricane Ida disrupted production and Herd removed from SGP+™.
4. When removed from SGP+™ herd declined.
5. Herd back on SGP+™ as shown and herd is once again improving.
6. And, after nearly 10 years of safe application, more discoveries are being realized.

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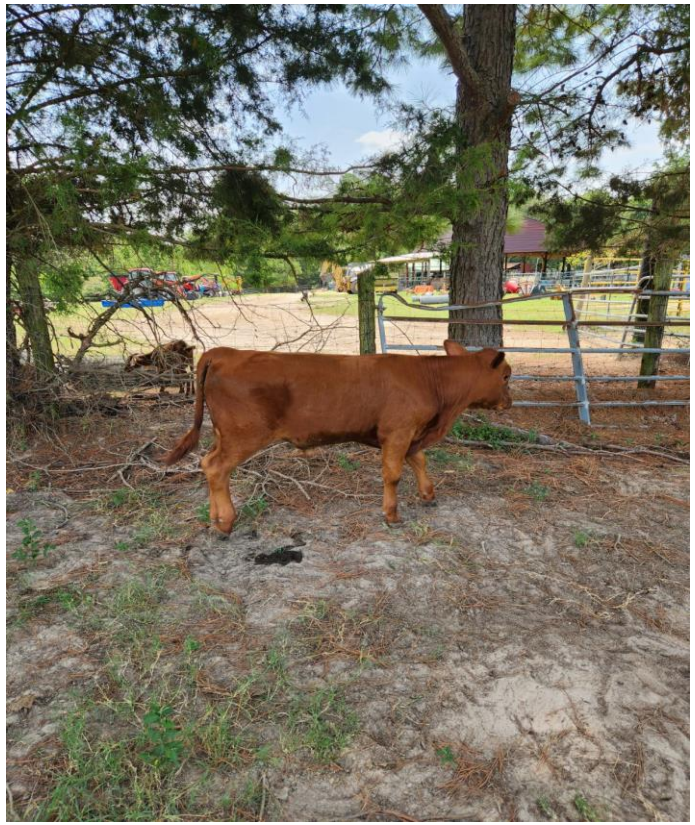
Does SGP+™ Work?

Beefing and Finish of Calves



Ranchers in Texas and Louisiana are reporting:

1. Record weight gain and finish of calves being fed SGP+™.
2. One rancher reported 1.1lbs of weight gain for 3.1lbs of ration mixed with 60% SGP+™.
3. All ranchers are reporting high success rates in overall health, wellness, and performance of calves.

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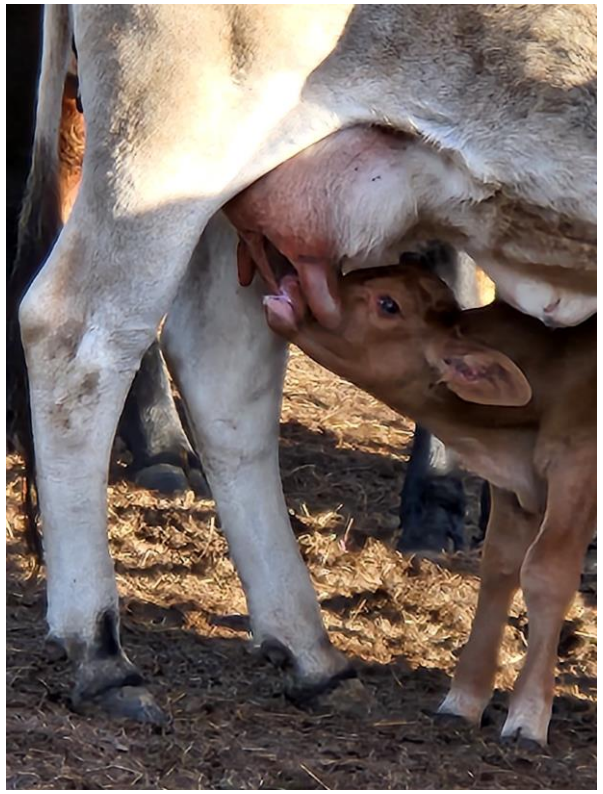
Does SGP+™ Work?

Colostrum Dripping from Bag Picture

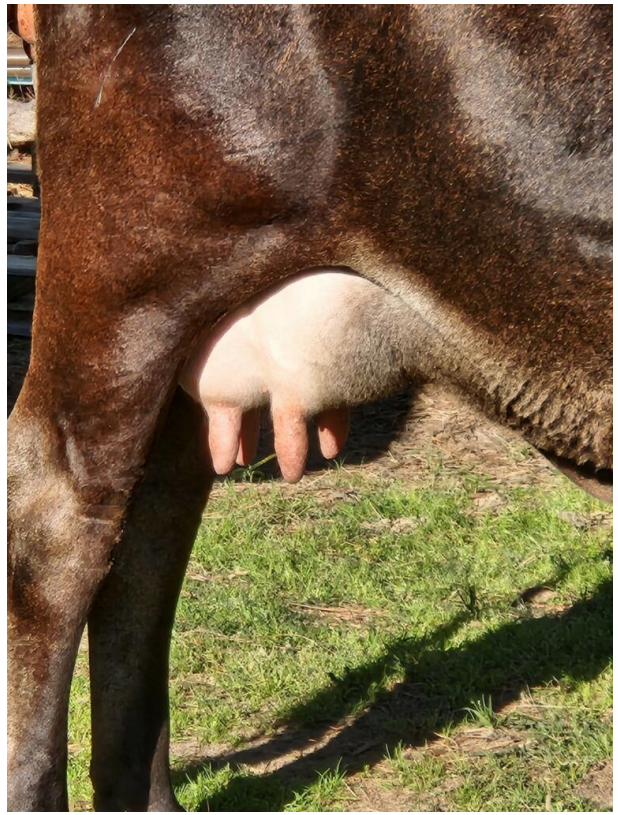


Schmidt Ranch, Jefferson, TX
Reports by Schmidt's, their Crew, and Visitors.

1. Heifers being reported to drip colostrum prior to dropping calf.
2. Colostrum being reported as rich and thick with yellow tint.
3. Calves being reported as incredibly lively and many are self-weaning off of heifer early.
4. Overall health and weight gain being reported as outstanding..

Does SGP+™ Work?

Bags Swollen with Milk



Schmidt Ranch, Jefferson, TX
Reports by Schmidt's, their Crew, and Visitors.

1. Heifers being reported to produce incredible quantities of rich, beautiful yellowish milk.

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Does SGP+™ Work?

Added Trials:

- A new rancher has added SGP+™ into their ration management.
- First calves being born reported as the healthiest ever.
- Also, rancher is reporting reduced urine smell, reduced manure smell, no fly larvae in manure, and a significant reduction of flies.

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Does SGP+™ Work?

Data:

Here's what ranchers are showing us and telling us:

When applied as a technology in ration management, ranchers and dairymen report with pictures, videos, and commentary on over 700 Head of Angus Heifers (in five locations in multiple herds), 1500 Holstein Heifers, 250 plus Mixed Breed Heifers, and 100 Angus Bulls:

- Improved overall health and wellness of heifers.
- Improved health and wellness of progeny born within herds.
- Improved estrous cycle amongst heifers.
- Reduction in the quantity of high-priced feed stocks and high-energy "junk-food" fed to heifers (e.g., grains, hay, supplements, chicken waste, candy fall-off, etc.)
- Reduction in the quantity of manure and urine produced as well as the concentration of ammonia smell in urine along with less burping and runny, gaseous manure.
- Reduction in antibiotic application and other medications.
- Improvement in heat tolerance and hydration of heifers.
- Improvement in muscle mass, milk production, finish, and overall quality of heifers as well as a marked improvement in meat quality.

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Does SGP+™ Reduce My Costs?

YES!

(Based on Forage Cost Alone = $208/Ton Forage and Best Practices)

What Does This Mean?

- ALL ranchers applying SGP+™ as a technology and product in their specific ration management are reporting significant savings.
- One rancher in Louisiana was preparing to liquidate his herd as his feed costs exceeded $3/ day / head.
- SGP+™ allowed him to reduce his daily cost/head/day to less than $0.60/head/day.
- Hence, he has saved his herd as he is again profitable…not to mention the other benefits he is reporting.

- See: "Here Are Some Custom Grazing Rates", Alan Newport, "Farm Progress", August 1, 2018
  - https://www.farmprogress.com/management/here-are-some-custom-grazing-rates
- See: "Supplementing Beef Cows", David Lalman, Oklahoma Cooperative Extension Service, Division of Agricultural Sciences and Natural Resources, Oklahoma State University, AFS-3010, October 2021
  - https://extension.okstate.edu/fact-sheets/supplementing-beef-cows.html

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Does SGP+™ Reduce My Costs?

YES…A Case Study: $162/day for each of the 182.5 Days of Non-Grazing Season per 100 Head!

(Based on Forage Cost Alone = $208/Ton Forage and Best Practices)

What Does This Mean?

- Based upon a 1000-lb , non-lactating heifer in non-grazing season
  - On average 27-lbs of forage plus supplementation is required.
- Based upon $208/Ton for Medium Grade Forage the cost per pound = $0.10/lb of forage
  - This translates into $0.10/lb forage x 27-lbs/day/head = $2.70/day/head.
  - For a herd of 100 heifers = $270/day x 182.5 Non-Grazing Days = $49,275/Non-Grazing Season.
- By contrast, a herd on 60% SGP+™ (after carefully transitioning), then up to 60% of forage can be reduced = $29,565 in annual cost savings during Non-Grazing Season for 100 heifers.

- See: “Here Are Some Custom Grazing Rates”, Alan Newport, “Farm Progress”, August 1, 2018
  - https://www.farmprogress.com/management/here-are-some-custom-grazing-rates
- See: “Supplementing Beef Cows”, David Lalman, Oklahoma Cooperative Extension Service, Division of Agricultural Sciences and Natural Resources, Oklahoma State University, AFS-3010, October 2021
  - https://extension.okstate.edu/fact-sheets/supplementing-beef-cows.html

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Does SGP+™ Reduce My Costs?

YES…A case Study

(Based on Forage + Protein Supplementation = $2.70/Head/Day of Forage + $0.37/Head /Day of Protein Supplement for each of the 182.5 Days of Non-Grazing Season)

What Does This Mean?

- Based upon a 1000-lb , non-lactating heifer
  - On average 27-lbs of forage plus supplementation is required in non-grazing season.
- Based upon $2.70/Day/Head for Medium Grade Forage $0.37/Day/Head for Protein Supplementation = $3.07/Head/Day.
  - For a herd of 100 heifers = $300.70/day x 182.5 days on non-grazing = $54,878/Non-Grazing Season.
- By contrast, a herd transitioned to 60% SGP+™ reduces forage and protein supplementation by 60% = $32,926/100 Head Annual Cost Savings for Non-Grazing Season for 100 heifers.
- Ranchers report decreased use of high priced grains, corn and the like based upon herd performance and best practices.

- See: "Here Are Some Custom Grazing Rates", Alan Newport, "Farm Progress", August 1, 2018
  - https://www.farmprogress.com/management/here-are-some-custom-grazing-rates
- See: "Supplementing Beef Cows", David Lalman, Oklahoma Cooperative Extension Service, Division of Agricultural Sciences and Natural Resources, Oklahoma State University, AFS-3010, October 2021
  - https://extension.okstate.edu/fact-sheets/supplementing-beef-cows.html

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What if I Want to Keep My Herd on SGP+™ Year Round

(At $150/Ton SGP+™ = $0.08/lb)

- Based upon a 1000-lb , non-lactating heifer and best practices.
  - On average 27-lbs of forage plus protein supplementation is required.
  - SGP+™ Costs for 27-lbs = $2.03
- Grazing Season has forage costs = costs of planting, fertilizing, and maintaining the grass.
- Protein Supplementation Costs = $0.37/Day/head
  - If protein supplementation costs are reduced by 60% = $0.22/Day reduction in costs
- SGP+™ can be reduced to 20% of ration = $2.03 x 20% = $0.40 in added costs - $0.22/Day in Reduced Supplement Costs = $0.18/Day/Head in total added costs
- This does not consider the reduction in high priced grains, corn, or other feeds.
- Plus, ranchers are reporting a slower rate of consumption of fresh grass as the heifers are shortening grazing time, chewing their cuds sooner and allowing for the grass to be bailed.

- See: “Here Are Some Custom Grazing Rates”, Alan Newport, “Farm Progress”, August 1, 2018
  - https://www.farmprogress.com/management/here-are-some-custom-grazing-rates
- See: “Supplementing Beef Cows”, David Lalman, Oklahoma Cooperative Extension Service, Division of Agricultural Sciences and Natural Resources, Oklahoma State University, AFS-3010, October 2021
  - https://extension.okstate.edu/fact-sheets/supplementing-beef-cows.html

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What if I Want to Keep My Herd on SGP+™ Year Round

Question: WHY keep my herd on SGP+™ in Grazing Season if I am Adding $0.18/Day/Head in total added costs?

Answer: Herd Performance!

- Improved overall health and wellness of heifers.
- Improved health and wellness of progeny born within herds.
- Improved estrous cycle amongst heifers.
- Reduction in the quantity of high-priced feed stocks and high-energy “junk-food” fed to heifers (e.g., grains, hay, supplements, chicken waste, candy fall-off, etc.)
- Reduction in the quantity of manure and urine produced as well as the concentration of ammonia smell in urine along with less burping and runny, gaseous manure.
- Reduction in antibiotic application and other medications.
- Improvement in heat tolerance and hydration of heifers.
- Improvement in muscle mass, milk production, finish, and overall quality of heifers as well as a marked improvement in meat quality.

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Does SGP+™ Reduce My Costs?
YES!

Here's what ranchers are showing us and telling us:

- When applied as a technology in ration management as judged by herd performance and manure scoring, ranchers are reducing the following feed stocks in their respective ration mix:
  - Forage
  - Protein
  - Cracked Corn
  - Grains
  - Other feed stocks
- Where cost saving data varies from ranch to ranch and is held confidential to those ranchers, ALL are reporting a significant reduction in their costs.
  - One rancher was actually prepared to liquidate his herd due to costs, but has now found a way to lower his cost and generate an actual profit.

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Is SGP+™ Environmentally Friendly?

No More Loose Runny Manure or Solid Bricks with Smell

Schmidt Ranch, Jefferson, TX

Reports by Schmidt's, their Crew, and Visitors.

1. Initial SGP+™ Ration Modification
2. Manure Score 5 Patties (on Right) transitioning into Manure Score 3 Patties (on Left)…actually more of a Manure Score 4 Patty.

Is SGP+™ Environmentally Friendly?

No More Loose Runny Manure or Solid Bricks with Smell

Schmidt Ranch, Jefferson, TX

Reports by Schmidt's, their Crew, and Visitors.

1. Manure Score 3 Patties throughout pasture when SGP+™ mixed properly and proportionately with their ration.
2. NO smell to the manure!

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Is SGP+™ Environmentally Friendly?

Data:

Ranchers are reporting:

- Reduced Carbon-load from excessive respiration and waste elimination; i.e., well-formed and well-stacked manure that does not smell vs. runny, flat, smelly manure or bricked up manure.
- Reduced urea smell from urine.
- Plus, per reports from ranchers a reduction in flies.

- See: "Reducing Greenhouse Gas Emissions from Cattle Production", Julia Lindgren, Institute of Agriculture and Natural Resources, University of Nebraska, Lincoln, October 4, 2019
  - https://water.unl.edu/article/animal-manure-management/reducing-greenhouse-gas-emissions-cattle-production
- See: "Ways to Reduce Methane Production in Cattle", Mandi Jones, Institute of Agriculture and Natural Resources, UNL Beef, University of Nebraska-Lincoln, February, 2014
  - https://beef.unl.edu/reduce-methane-production-cattle

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SGP+™

What's Next:

- Pre-Formulate to your specifications prior to shipping **OR**
- Transport to your location and formulate to your specifications following our recommendations
- Introduce to your herd
- Adjust formulation to herd performance
- Watch, observe, and document:
  - Your costs decrease!
  - Your herd improve!
- Tell your neighbor!

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SGP+™

Feeding Rational #1:

(Based on Herd Performance & Best Practices)

- Introducing SGP+™ has proven to be accepted differently by different herds.
  - In one case, a rancher with 10 different herds on one ranch found acceptance from little to none to literally gobble it up in the adjacent pasture (which in all ways was identical)…all with registered Black Angus.
- SGP+™ is significantly more than a simple like-for-like replacement of your present ration.
  - SGP+™ is designed to restore natural pro-biotic balance (primarily GOOD bacteria) in your herd.
  - These GOOD bacteria aid in both digestion and absorption.
  - Once these GOOD bacteria do their job, they die and become your actual protein source (as Nature designed it).
  - Hence, your ration becomes healthier, less expensive, and is being shown to produce better results for your herd.

- See: "Ways to Reduce Methane Production in Cattle", Mandi Jones, Institute of Agriculture and Natural Resources, UNL Beef, University of Nebraska-Lincoln, February, 2014
  - https://beef.unl.edu/reduce-methane-production-cattle

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Feeding Rational #2:

IFUS recommends based upon Best Feeding Practices and Herd Performance, the following:

- Step 1: Initially mix per your specific mixing operation 15% SGP+™ to 85% of your present ration.
  - Introduce the ration per your normal feeding practices.
- Step 2: Once your herd is accepting the feed, allow roughly 2-4 weeks for their digestive system to adjust.
  - Remember, SGP+™ is also designed to heal the digestive system.
- Step 3: After 2-4 more weeks (depending on herd acceptance and performance), adjust your ration to 30% SGP+™ to 70% of your normal ration.
- Step 4: After 2-4 more weeks (depending on herd acceptance and performance), adjust your ration to 45% SGP+™ to 55% of your normal ration.
- Step 5: After 2-4 more weeks (depending on herd acceptance and performance), adjust your ration to 60% MAX SGP+™ to 40% of your normal ration.
  - At this time, **IFUS does NOT** recommend using more than 60% SGP+™.

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Short Term (4-6 Weeks) Performance Observations Commonly Noted by Ranchers and Best Practices:

- Once accepted, herds should run to feed.
- Manure should transform from Manure Score 1 and/or 5 into Manure Score 3.
- Manure should lose much of its odor.
- Urea smell should decrease from urine.
- Sick cows should show improvement.

- See: "Manure Scoring Determines Supplementation Needs", Dr. Robert Wells, Noble Research Institute, Noble News and Views, October 2013
  - https://www.noble.org/news/publications/ag-news-and-views/2013/october/manure-scoring-determines-supplementation-needs/

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Mid-Term (6-12 Weeks) Performance Observations Commonly Noted by Ranchers and Best Practices:

- Milk Production in lactating heifers should increase in quantity and quality.
  - Bags well be noticeably larger.
- Colostrum should start dripping prior to delivery of calf and should be plentiful and rich after calf drops.
- Infant miscarriage and infant mortality should decrease while calf health should improve.
- New born calves should gain weight and finish quicker.
- Meat Quality on harvested calves should improve.
- General health, weight gain, finish, and overall quality should become obvious.
- Manure Score 3 should be the norm.

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Long-Term (4-6 Months) Performance Observations Commonly Noted by Ranchers and Best Practices (Part 1):

- Manure and urine smell should be virtually gone.
- Manure Score 3 should be wide spread in pasture.
- Manure should decrease as cows become digestibly healed, probiotic balance is restored, and absorption improved; hence, requiring less ration.
- Urine should be less frequent as cows become more easily hydrated; hence, requiring less water.
- Milk and Colostrum Production should be notably improved in both quality and quantity.
- Overall health of the herd should be visibly obvious and supported by a reduction in antibiotics and other required medication to treat otherwise sick cows.

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Long-Term (4-6 Months) Performance Observations Commonly Noted by Ranchers and Best Practices (Part 2):

- Improved overall health and wellness of heifers.
- Improved health and wellness of progeny born within herds.
- Improved estrous cycle amongst heifers.
- Reduction in the quantity of high-priced feed stocks and high-energy “junk-food” fed to heifers (e.g., grains, hay, supplements, chicken waste, candy fall-off, etc.)
- Reduction in the quantity of manure and urine produced as well as the concentration of ammonia smell in urine along with less burping and runny, gaseous manure.
- Reduction in antibiotic application and other medications.
- Improvement in heat tolerance and hydration of heifers.
- Improvement in muscle mass, milk production, finish, and overall quality of heifers as well as a marked improvement in meat quality.

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Supporting Documentation (Part 1):

- "Manure Scoring Determines Supplementation Needs", Dr. Robert Wells, Noble Research Institute, Noble News and Views, October 2013
  - https://www.noble.org/news/publications/ag-news-and-views/2013/october/manure-scoring-determines-supplementation-needs/
- "Spot Livestock Problems Early By Checking Manure Daily," Rhonda McCurry, Farm Progress, February 26, 2018
  - https://www.farmprogress.com/livestock/spot-livestock-problems-early-by-checking-manure-daily
- "Here Are Some Custom Grazing Rates", Alan Newport, "Farm Progress", August 1, 2018
  - https://www.farmprogress.com/management/here-are-some-custom-grazing-rates
- "Evaluating a Cow's Manure Output Can Provide You With Valuable Input!", Ministry of Agriculture, Food and Rural Affairs, 19October2012.
  - http://omafra.gov.on.ca/english/crops/organic/news/2012/2012-10a2.htm

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Supporting Documentation (Part 2):

- "Supplementing Beef Cows", David Lalman, Oklahoma Cooperative Extension Service, Division of Agricultural Sciences and Natural Resources, Oklahoma State University, AFS-3010, October 2021
  - https://extension.okstate.edu/fact-sheets/supplementing-beef-cows.html
- "Beef Cattle: Beginners Guide to Feed Costs", Family Farm Feedstock
  - https://familyfarmlivestock.com/beef-cattle-beginners-guide-to-feed-costs
- "Determining How Much Forage a Beef Cow Consumes Each Day", Rick Rasby, Institute of Agriculture and Natural Resources, UNL Beef, April 2013
  - https://beef.unl.edu/cattleproduction/forageconsumed-day
- "How Does a 1,200 Pound Cow Get Enough Protein?", Sam Westreich, Sharing Science, August 27, 2018
  - https://medium.com/a-microbiome-scientist-at-large/how-does-a-1-200-pound-cow-get-enough-protein-506797b53845

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Supporting Documentation (Part 3):

- "Beef Cattle Nutrition: The Cow's Digestive System," Whitney Rounds and Dennis B. Herd, Beef Cattle Nutrition, Texas Agricultural Extension Service, B-1575
  - https://beefskillathon.tamu.edu/cows-digestive-system/
- The Importance of Energy Nutrition for Cattle, OSU Extension Service, Orgeon State University, October 2018
  - https://extension.oregonstate.edu/animals-livestock/beef/importance-energy-nutrition-cattle
- "Reducing Greenhouse Gas Emissions from Cattle Production", Julia Lindgren, Institute of Agriculture and Natural Resources, University of Nebraska, Lincoln, October 4, 2019
  - https://water.unl.edu/article/animal-manure-management/reducing-greenhouse-gas-emissions-cattle-production
- "Ways to Reduce Methane Production in Cattle", Mandi Jones, Institute of Agriculture and Natural Resources, UNL Beef, University of Nebraska-Lincoln, February, 2014
  - https://beef.unl.edu/reduce-methane-production-cattle

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Supporting Documentation (Part 4):

(See www.impactfusionbrands.com)

- IFUS Cattle Turning Bagasse Trash Into a Cash Cow
- IFUS SGP+™: Alternative Proprietary Formulation for Beef and Dairy Cattle – Abstract
- IFUS SGP+™ Alternative Proprietary Formulation for Beef and Dairy Cattle – White Paper and Literature Search

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