



Mix 30 an economical option

With the area's shortage of hay, the best protein option for your herd might be liquid feed. Mix 30 liquid feed supplies a combination of protein and energy that is among a rancher's most economical options this winter.

For range cows, just provide Mix 30 free-choice in open-top tanks. When grass or other forage is abundant but low in quality, cows typically eat 2- to 4-pounds of Mix 30 daily.

We can even help with pasture delivery of this 16% protein, 10% fat liquid feed. In addition, we deliver it by semi load, you can check out one of our trailers, or pick it up in your own shuttle.

Which protein is best?

Supplementation is important since typical protein levels of dry winter grama grass are 3 to 6 %. Cows in mid-gestation need a minimum of a 7% protein diet, with the need ratcheted up to 8% as calving approaches, and 9 to 10% after calving. Options might include:

- **Traditional range cubes** ranging from 14% to 40% protein. These are the old standbys that ranchers have used for decades. Since we are

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Corner Post Meats stresses connectivity

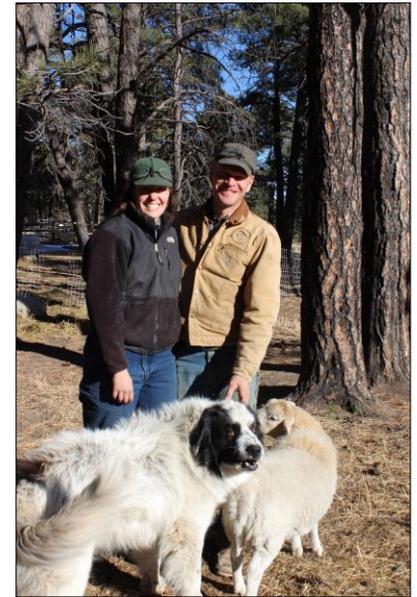
Corner Post Meats raises free-range livestock in a pasture-to-plate operation. Many of its customers come see their livestock and rearing practices to "connect" with where their food originates. "Folks can come out and see it and truly know what's up," said co-owner Adrienne Larrew.

Customer profile

Corner Post Meats raises grass-finished beef and lamb, and pasture-raised pork, chicken and turkeys. The operation uses intensive and holistic grazing practices, and ships meat direct to customers nationwide, plus supplies meat to high-end restaurants in Colorado.

The Larrew family, formerly of Haswell, founded Corner Post Meats 10 years ago in Wyoming. Adrienne Larrew and Dan Lorenz now manage Corner Post Meats' headquarters near Black Forest, CO. Their Kiowa Creek Ranch is leased from the National Audubon Society. A large portion of the animals are raised in this forested area, plus meat comes from other "CPM and Audubon-certified" partners in Nebraska and Wyoming.

In addition to pigs and chickens being raised in an outdoor nomadic



Adrienne & Dan own Corner Post Meats



CPM pigs forage for food, plus have access to a special WW Feed & Supply custom mix.

model for herd health, Corner Post Meats sought free-choice no-corn diets for their poultry and pigs. WW Feed & Supply was able to fulfil their needs by creating and delivering specific balance rations.

"Our growth and profitability within Corner Post Meats is tied to the ability to adapt, assess and change as needed," Lorenz said. "WW Feed & Supply has been absolutely exceptional at helping us to do just that. WW Feed was one of the only grain providers in the state that were willing and able to help us create cost-effective rations to our standards."

Lorenz and Larrew said they have been able to build and grow a meat brand based on old-school values of

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How can a cow get 12-22% more out of her forage?

We all know that the cow is a biological wonder: She can take low-quality forage and turn that into high-quality protein and energy to produce a calf, milk, maintain her body condition, reproduce, etc.

How does she do it? As we know, she has a vast fermentation vat that contains bacteria and other micro-organisms that convert forage to energy and high-quality microbial protein. Cobalt is one of the trace minerals that allows her to do that, but if cobalt levels are low or marginal, this limits fermentation and digestion of forage. So, energy and protein become limited, which limits reproduction, milk and pounds of calf at weaning.

What does Cobalt do? Cobalt is not really required by the cow, but it is required by the rumen bacteria to make vitamin B12, which is required for enzyme synthesis. These enzymes are used to break down the forage that the cow consumes to release energy and make more microbial protein. Research shows that the cobalt source is important to the rumen bugs.

Most mineral products use Cobalt Carbonate or Sulfate as the cobalt source. Why? Because they are cheap. However, they are only about 19% soluble, limiting their ability to provide for rumen bacteria needs. Alternative sources of cobalt, which are much more bioavailable to the rumen bugs, are now offered. AMPT and AminoGain products use Cobalt Lactate as a source of cobalt. Cobalt Lactate is a sugar complex that is much more soluble in the rumen, about 90%, making it more available for the rumen microflora.

Research from three universities shows that Cobalt Lactate improves forage digestion between 12 and 22%. This means that the cow consuming mineral with Cobalt Lactate is capable of

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Nutrition
Corner
by
Dr. Gerald
Walker



Chutes, tanks, panels, equipment

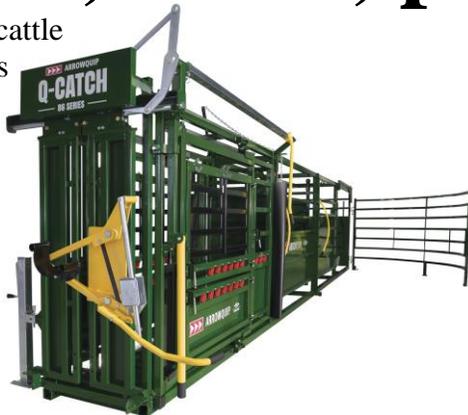
Ready to work cattle & your old facilities are lacking? No problem.

WW Feed & Supply rents out a combo Arrowquip portable unit that includes the sweep tub, alley, vet cage and chute!

We also have these deluxe combo units for sale, along with Arrowquip loading ramps, alley sections, and cattle working chutes.

Other equipment available but not as visible from our U.S. 50 storefront include:

- **Gates & panels** – We carry a huge selection of Powder River's gates & panels in a variety of sizes. We also have stand-alone headgates, palp cages, horse V-rack feeders, etc.
- **Calving pen** – Powder River's care pen includes a headgate to aid you during calving season.



- **Rubber Tanks** – We carry the giant rubber water tanks, which have been recycled from the mining industry and cut into stock tanks for permanent installation on your ranch. Tanks are available in a variety of sizes, depending on the availability of used tires. We currently have 5-foot to 12-foot tanks in stock. We can get truckloads of any available size delivered direct to your ranch, if you have a big project in mind.

- **Poly tanks** – We carry Sioux Steel's selection of durable poly tanks, ranging from 1-foot high sheep tank and oblong 4- or 6-foot horse tanks, right up to 6, 7½ and 9-foot round cattle tanks.

- **Mineral feeders** – We also carry Sioux's mineral feeders; hog waterers & feeders; etc.

- **Cube feeders** – We carry T&S Trip Hopper cube feeders to deliver the right amount of feed. Another shipment is due shortly, so you can still purchase in 2018.





Bonus on range mineral

Feeding a balanced, complete mineral package is essential to your future calf crop. WW Feed & Supply's beef range mineral will aid your cowherd and it's even **on sale!** During December, we're offering a LONG-TON promotion on beef range mineral. For every 10 bags of mineral you purchase, we'll give you an 11th bag FREE.

As a further bonus, for each full ton you purchase and pick up at one time, you'll receive an extra bag for a total of **5 free bags**. For this special we have a variety of beef range minerals on hand, including our popular 12:9 high copper, no selenium mineral that is balanced and customized for this area; another custom mineral using hydroxy trace minerals for better utilization; and new ADM Advanced Mineral Performance Technology (AMPT) mineral in a couple formulas. AMPT is a premium mineral shown to increase gains, body condition, immune response, fiber digestion and reproductive efficiency. The sale runs now through Dec. 29.

WW Feed also carries a custom mineral tub fortified specifically for this area, and an AMPT mineral tub. These are 200# mineral tubs that allow convenience with consistent consumption and less waste.

Cobalt continued from page 2

increasing her forage digestion and increasing the amount of energy and protein she gets from forage by 12 to 22%.

How does this affect the productivity of the cow? A Kansas State University study involving 400 cows, showed an increase in body condition score, pregnancy rate, average gain of the nursing calve and thus a heavier calf at weaning (see chart).

So, how do we provide this improved source of cobalt? In the case of range mineral, the best mineral for this strategy is the AMPT mineral line. WW Feed & Supply has a full line of AMPT minerals. Call or stop in to get more information on improving your herd's productivity this winter.

Parameter (400 cows)	Control	Cobalt Lactate
Overall Cow Body Weight Change, lb	52.6	62.3
Overall Body Condition Score Change (BCS Units)	0.07	0.37
Pregnancy to AI, %	49.0	57.6
Overall Pregnancy, %	89.5	92.7
Calf ADG – Late Season, lb	2.24	2.62
Adjusted Weaning Wt, lb	622	636
Avg Daily Mineral Intake, lb	0.32	0.34

Protein options continued from page 1

dealers for three major feed companies that produce cubes, we can usually find the most cost-competitive product in a formulation that works for you.

- **High-fat range cubes.** These have become very popular in recent years, as protein cost is normally competitive with traditional cubes, giving you the high energy fat for free. Two popular options are the 26% protein, 6% fat sunflower-based cubes from Colorado Mills; and 28% protein, 8% fat Distiller's Grain cubes. With these high fat levels, ranchers are seeing performance from their cows rivaling that from the old-style mechanical extraction cottonseed cake so popular decades ago.
- **Mix 30 liquid feed** is a convenient, cost-effective way to provide supplemental protein and energy. It is a 16% protein, 10% fat liquid that you can put in anything from plastic or metal stock tanks to old bath tubs.
- **Grain by-products.** Feeding by-products like Dried Distillers Grain either right on the ground like range cubes, or DDG mixed with salt and mineral to make a self-feeding, self-limiting supplement will often provide one of the lowest costs per day of protein supplements.
- **Alfalfa hay** is always an option, but good hay may be cost-prohibitive this year given all the severe weather damage to the first couple cuttings this summer.

If any of these choices sound interesting, give us a call to help sort out the best combination of nutrition, cost and convenience for your operation.

Want custom feed?

We balance rations and do custom mixing **daily!** With drivers on staff, we even can deliver it right into your bins. Call 719-384-4463, so we can offer suggestions to best fit your feed needs & your budget!

Give a knife, boots or gloves for Christmas

Christmas for your cowboy is made easy at WW Feed & Supply.



W.R. Case & Sons provide U.S.-made hand-crafted knives that are passed down for generations, and offer a life-time warranty.

For your feet, Original Muck Boots are comfortable, high performance water-proof footwear with great arch support and they will keep your feet toasty warm.



And for your hands, try tough Yellowstone gloves.

In addition, we carry livestock grooming equipment for the 4-H & FFA'ers on your list. And for horseman, we have a room full of ropes, cinches, spurs, etc.

Holiday hours

Plan your feed needs with this holiday schedule in mind:

- ♦ Sat. Dec. 22nd - open 8 a.m. - 12 noon.
- ♦ Mon. Dec. 24th - open 8 a.m. - 12 noon.
- ♦ Tues. Dec. 25th - closed for Christmas.
- ♦ Wed-Fri. Dec. 26-28th - open 8 a.m. - 5:30 p.m.
- ♦ Sat. Dec. 29th - open 8 a.m. - 12 noon.
- ♦ Mon. Dec. 31st - closed for inventory.
- ♦ Tues. Jan. 1st - closed for New Year's Day.
- ♦ Wed. Jan. 2nd - normal hours resume.

Corner Post Meats *continued from page 1* ▶

building a connection with their customers, and an overall appreciation of where food comes from, how the land is cared for and how the animals are raised.

In addition to care and meat distribution, Corner Post staff aids with weekly farm dinners, workshops, farm tours and birding club activities. "We're proud to share the symbiosis between agriculture and wildlife," Larrew said.

"As ranchers, we need to welcome the public to our land, show them what we are doing, how much we care for the land & animals and how we provide quality food that they can trust," Lorenz added. "If we do that, they'll help to ensure that we all have the opportunity to earn a living farming & ranching, as stewards of the land and its ecosystem for generations."



Event tickets & meat packages are sold online at: www.CornerPostMeats.com