



how you manage them," he says. "I don't believe that, but this stuff is heritable."

The simplest way to take advantage of heritability in carcass traits is to stick with Angus, says 2003 CAB Commitment to Excellence winner Gary Parker of Shamrock Angus Ranch, Laramie, Wyo. Many bull customers crossbreed with disappointing carcass results, he says, "but they keep trying, picking up a little heterosis advantage on the front end."

Parker's calf-fed Angus steers at Hergert Feeding Co., Mitchell, Neb., were gaining 3.6 pounds (lb.) per day in May, with a 42¢ cost of gain, "and we know they will grade." Lately, Parker says his Continental-based customers have been selecting low birth weight, high growth and "way up" on marbling. "They go for the extremes to get the complementarity they want," he notes, "while Angus producers go for balance."

Allen has been on the other end, seeking those extremes for marbling among the Continentals. He maintains a composite program in addition to registered Angus, and has found these highly selected crossbred cattle can grade.

There are documented heterosis effects on calf health, Allen says, "but it's hard to compare here, and we have seen no difference within our herd. We do know crossbred cattle can have health problems the same as straightbreds, and if they do, they are not going to do well."

If crossbreds have an advantage, there's an anomaly in health data from the 2002 Iowa Tri-County Steer Carcass Futurity, where purebred- to 75%-Angus calves were four times less likely to need treatment than crossbred calves with less than 25% Angus (see Table 2).

David Trowbridge, who fed many of them at Gregory Feedlots, theorizes the purebred herds are managed better. "Maybe those with crossbred calves are expecting too much out of heterosis," he offers.

According to Allen and Parker, genetic quality of Angus composites and crossbred cattle is improving along with the more obvious improvement in Angus genetics in the past five years. "Maternal traits still lead the Angus breed," Parker says. "But without a doubt, ultrasound has helped identify more carcass cattle with the right kind of growth, and they are being widely used, as they probably should be."

Both men see signs pointing toward an increase long-term in the CAB-acceptance rate. "I think we are at a point where CAB acceptance will begin to change drastically. In the next four or five years, we could see it double," Parker says.

"We're due a breakthrough, just from the economic incentive if nothing else," Allen says. "We have cattle within the Angus breed that will do it, with much better yield grade than we have ever had before. The problem is, most people just keep their cows without trying to make changes, not buying the better bulls, not realizing the incentive."

**Table 2: CAB®-acceptance rate and treatment rates by breed makeup**

| % Angus  | CAB® acceptance | No. times treated | Treatment cost, \$ | Mortality, % | Feedlot gain |
|----------|-----------------|-------------------|--------------------|--------------|--------------|
| 0%-25%   | 9.4%            | 0.47              | \$8.36             | 1.36%        | 2.88         |
| 26%-50%  | 21.3%           | 0.33              | \$6.38             | 0.78%        | 2.97         |
| 51%-75%  | 27.8%           | 0.28              | \$5.08             | 0.94%        | 2.92         |
| 76%-100% | 40.0%           | 0.20              | \$4.06             | 1.12%        | 3.11         |

**Source:** Iowa State University.

