

Let's look at an example of a yearling finisher who wants to purchase LGM coverage on cattle finished during the insurance period beginning on April 1, which runs from April through February. LGM does not allow any cattle to be insured in the first month of an insurance period, so no cattle could be insured in April in this case. If there were cattle to be insured in April the producer would have had to purchase insurance prior to March 1 in order for coverage to be in place.

In our example, the first month that we could insure finished cattle is May. Since there is no May Live Cattle (LC) futures contract, the Expected Live Cattle Price would be calculated by adding one half of the simple average of April LC futures for the last three business days of March to one half of the simple average of June LC futures for the last three business days of March, plus May Live Cattle Basis.

The Expected Feeder Cattle Price is the simple average of the Feeder Cattle (FC) futures contract during the last three business days five months prior to the month cattle are to be marketed. For cattle to be marketed in May, December feeder cattle futures would be used. However, as with the May LC futures there is no December (FC) futures contract. The Expected Feeder Cattle Price would be calculated by adding one half of the simple average of November FC futures for the last three business days of November to one half of the simple average of January FC futures for the last three business days of November, plus the December Feeder Cattle Basis.

The expected Corn Price is the corn price two months prior to sale, or the March corn price for cattle finished in May. Since there is a March CBOT corn contract the expected corn price for May is the simple average of daily settlement prices for the CBOT corn futures contract for March on the last three trading days of March, plus the March Corn Basis. The CARD website on March 28 estimated the EGM per head insured for May by Yearling Finishers to be \$51.45.

Now let's consider a calf finisher who wants to purchase LGM coverage on cattle finished during the April-February insurance period. Because no cattle can be insured in April, the first month we could insure finished cattle is May. The EGM formula for calf finishing is:

$$11.5 \times (\text{Expected Live Cattle Price} + \text{Live Cattle Basis}) \\ - 5.5 \times (\text{Expected Feeder Cattle Price} + \text{Feeder Cattle Basis}) \\ - 54.5 \times (\text{Expected Corn Price} + \text{Corn Basis})$$

The Expected Live Cattle Price would be calculated the same as it was for finishing yearlings.

For calf finishers the Expected Feeder Cattle Price is the simple average of the last three business days of the Feeder Cattle (FC) futures contract eight months prior to the month cattle are to be marketed. For cattle to be marketed in May, September feeder cattle futures would be used. The Expected Feeder Cattle Price would be the simple average of September FC futures for the last three business days of September plus the September Feeder Cattle Basis.

For calf finishers the expected Corn Price for cattle finished in May is the corn price four months prior, or the January corn price. Since there is no January CBOT corn contract, the January Corn price is calculated by adding one half of the simple average of December Corn futures for the last three trading days of December plus one half of the simple average of March Corn futures for the last three trading days of March, plus the January Corn Basis. The CARD website on March 28 estimate the EGM per head insured for May by Calf Finishers to be \$183.05.

At the end of March the premium estimate for calf finishing for an average EGM of \$198.20 for April-February was \$25.19 per head. The premium estimate for yearling finishing was \$21.36, which insured an average EGM of \$105.84 per head. It was assumed that the same number of cattle were marketed each month and that \$0 deductible was chosen.

The Actual Gross Margin (AGM) is calculated for each month in the insurance period using the actual prices that occur on the futures markets for live cattle, feeder cattle and corn. The differences between the Gross Margin Guarantees and the Actual Total Gross Margins for each month will be totaled and if the actual margin is less than the insured amount for the entire insurance period an indemnity will be paid. It is possible that within an insurance period there will be months where positive differences will offset negative differences when the indemnity for the whole period is calculated. The EGM and AGM for each month are available at the following website: http://www3.rma.usda.gov/apps/livestock_reports/.

Livestock Gross Margin insurance is sold by many crop insurance agents; check with yours for more details. More information is also available at: <http://www.rma.usda.gov/livestock/>.
