Livestock Gross Margin (LGM)
(Insurance Plan Code 82)

GROSS MARGIN GUARANTEE

EXPECTED GROSS MARGIN = (TARGET_MARKET_2 * EXP_GROSS_MARGIN_2) +
  (TARGET_MARKET_3 * EXP_GROSS_MARGIN_3) + (TARGET_MARKET_4 *
  (TARGET_MARKET_5 * EXP_GROSS_MARGIN_5) +
  (TARGET_MARKET_6 * EXP_GROSS_MARGIN_6) + (TARGET_MARKET_7 *
  (TARGET_MARKET_8 * EXP_GROSS_MARGIN_8) +
  (TARGET_MARKET_9 * EXP_GROSS_MARGIN_9) + (TARGET_MARKET_10 *
  (TARGET_MARKET_11 * EXP_GROSS_MARGIN_11)

FOR SWINE:
GROSS_MARGIN_GUAR = EXPECTED GROSS MARGIN * COVERAGE LEVEL
  (field 28) (Internal) (field 29)

FOR CATTLE:
GROSS_MARGIN_GUAR = EXPECTED GROSS MARGIN - (DEDUCTIBLE *
  (field 28) (Internal) (field 29)

TOTAL TARGET MARKETINGS)
  (Internal)

Note: For Cattle, gross margin guarantee can be negative.

LIABILITY

FOR SWINE:
LIABILITY = GROSS_MARGIN_GUAR
  (field 29) (field 28)

FOR CATTLE:
LIABILITY = AVG CME PRICE * 12.5 * TOTAL TARGET MARKETINGS
  (field 29) (Internal) (field 28)
SIMULATED LOSSES

SIMULATED GROSS MARGINS(i) =

(Internal)

(SECOND MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_2) +

(Internal)

(THIRD MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_3) +

(field 7)

(Internal)

(FOURTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_4) +

(field 8)

(Internal)

(FIFTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_5) +

(field 9)

(Internal)

(SIXTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_6) +

(field 10)

(Internal)

(SEVENTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_7) +

(field 11)

(Internal)

(EIGHTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_8) +

(field 12)

(Internal)

(NINTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_9) +

(field 13)

(Internal)

(TENTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_10) +

(field 14)

(Internal)

(ELEVENTH MONTH GROSS MARGIN DRAW(i) * TARGET_MARKET_11)

(field 15)

Note: (i) = 1,2,..., 5000

SIMULATED_LOSSES = \sum (\text{MAX} (GROSS_MARGIN_GUAR - \text{SIMULATED GROSS MARGINS(i)}, 0))

(field 30)

(field 28)

(Internal)

Note: For Swine, only use simulated gross margins greater than zero in calculation.
For Cattle, negative simulated gross margins will be included.

TOTAL PREMIUM

TOTAL_PREMIUM = 1.03 * (1/5,000) * SIMULATED_LOSSES

(field 31)

(field 30)

PRODUCER PREMIUM

PRODUCER_PREMIUM = TOTAL_PREMIUM

(field 37)

(field 31)

Note: Subsidy not applicable for LGM.
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<tr>
<td>&lt;TARGET_MARKET_2&gt;</td>
<td>7</td>
<td>9(05)</td>
<td>whole number</td>
<td>Number of swine or cattle the insured expects to market in the second month of the insurance period.</td>
</tr>
<tr>
<td>&lt;EXP_GROSS_MARGIN_2&gt;</td>
<td>17</td>
<td>(+/-) 9999.9999</td>
<td>per ADM</td>
<td>Expected Gross Margin per swine or cattle for Second Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.</td>
</tr>
<tr>
<td>&lt;TARGET_MARKET_3&gt;</td>
<td>8</td>
<td>9(05)</td>
<td>whole number</td>
<td>Number of swine or cattle the insured expects to market in the third month of the insurance period.</td>
</tr>
<tr>
<td>&lt;EXP_GROSS_MARGIN_3&gt;</td>
<td>18</td>
<td>(+/-) 9999.9999</td>
<td>per ADM</td>
<td>Expected Gross Margin per swine or cattle for Third Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.</td>
</tr>
<tr>
<td>&lt;TARGET_MARKET_4&gt;</td>
<td>9</td>
<td>9(05)</td>
<td>whole number</td>
<td>Number of swine or cattle the insured expects to market in the fourth month of the insurance period.</td>
</tr>
<tr>
<td>&lt;EXP_GROSS_MARGIN_4&gt;</td>
<td>19</td>
<td>(+/-) 9999.9999</td>
<td>per ADM</td>
<td>Expected Gross Margin per swine or cattle for Fourth Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.</td>
</tr>
<tr>
<td>&lt;TARGET_MARKET_5&gt;</td>
<td>10</td>
<td>9(05)</td>
<td>whole number</td>
<td>Number of swine or cattle the insured expects to market in the fifth month of the insurance period.</td>
</tr>
<tr>
<td>&lt;EXP_GROSS_MARGIN_5&gt;</td>
<td>20</td>
<td>(+/-) 9999.9999</td>
<td>per ADM</td>
<td>Expected Gross Margin per swine or cattle for Fifth Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.</td>
</tr>
<tr>
<td>&lt;TARGET_MARKET_6&gt;</td>
<td>11</td>
<td>9(05)</td>
<td>whole number</td>
<td>Number of swine or cattle the insured expects to market in the sixth month of the insurance period.</td>
</tr>
<tr>
<td>&lt;EXP_GROSS_MARGIN_6&gt;</td>
<td>21</td>
<td>(+/-) 9999.9999</td>
<td>per ADM</td>
<td>Expected Gross Margin per swine or cattle for Sixth Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.</td>
</tr>
<tr>
<td>&lt;TARGET_MARKET_7&gt;</td>
<td>12</td>
<td>9(05)</td>
<td>whole number</td>
<td>Number of cattle the insured expects to market in the seventh month of the insurance period. Not applicable for swine.</td>
</tr>
</tbody>
</table>
### LIVESTOCK GROSS MARGIN (LGM) LIABILITY/PREMIUM CALCULATIONS

<table>
<thead>
<tr>
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<tr>
<td>&lt;EXP_GROSS_MARGIN_7&gt;</td>
<td>22</td>
<td>( + / - ) 9999.9999</td>
<td>per ADM</td>
<td>Expected Gross Margin per cattle for Seventh Month from ADM L Suffix P. Only the negative symbol ( - ) will appear if applicable. Not applicable for swine.</td>
</tr>
<tr>
<td>&lt;TARGET_MARKET_8&gt;</td>
<td>13</td>
<td>9(05)</td>
<td>whole number</td>
<td>Number of cattle the insured expects to market in the eighth month of the insurance period. Not applicable for swine.</td>
</tr>
<tr>
<td>&lt;EXP_GROSS_MARGIN_8&gt;</td>
<td>23</td>
<td>( + / - ) 9999.9999</td>
<td>per ADM</td>
<td>Expected Gross Margin per cattle for Eighth Month from ADM L Suffix P. Only the negative symbol ( - ) will appear if applicable. Not applicable for swine.</td>
</tr>
<tr>
<td>&lt;TARGET_MARKET_9&gt;</td>
<td>14</td>
<td>9(05)</td>
<td>whole number</td>
<td>Number of cattle the insured expects to market in the ninth month of the insurance period. Not applicable for swine.</td>
</tr>
<tr>
<td>&lt;EXP_GROSS_MARGIN_9&gt;</td>
<td>24</td>
<td>( + / - ) 9999.9999</td>
<td>per ADM</td>
<td>Expected Gross Margin per cattle for Ninth Month from ADM L Suffix P. Only the negative symbol ( - ) will appear if applicable. Not applicable for swine.</td>
</tr>
<tr>
<td>&lt;TARGET_MARKET_10&gt;</td>
<td>15</td>
<td>9(05)</td>
<td>whole number</td>
<td>Number of cattle the insured expects to market in the tenth month of the insurance period. Not applicable for swine.</td>
</tr>
<tr>
<td>&lt;EXP_GROSS_MARGIN_10&gt;</td>
<td>25</td>
<td>( + / - ) 9999.9999</td>
<td>per ADM</td>
<td>Expected Gross Margin per cattle for Tenth Month from ADM L Suffix P. Only the negative symbol ( - ) will appear if applicable. Not applicable for swine.</td>
</tr>
<tr>
<td>&lt;TARGET_MARKET_11&gt;</td>
<td>16</td>
<td>9(05)</td>
<td>whole number</td>
<td>Number of cattle the insured expects to market in the eleventh month of the insurance period. Not applicable for swine.</td>
</tr>
</tbody>
</table>
## LIVESTOCK GROSS MARGIN (LGM)
### LIABILITY/PREMIUM CALCULATIONS

**Tag** | **No.** | **Picture** | **Rounding** | **Description**
--- | --- | --- | --- | ---
<EXP_GROSS_MARGIN_11> | 26 | ( + / - )
| | 9999.9999 | per ADM | Expected Gross Margin per cattle for Eleventh Month from ADM L Suffix P. Only the negative symbol ( - ) will appear if applicable. Not applicable for swine.

**EXPECTED GROSS MARGIN** | Internal | 9(10).99 | dollars and cents | Sum of (Target Marketings by month times Expected Gross Margins by month).

**COVERAGE LEVEL** | Internal | 9.999999 | NA | For swine, coverage level submitted under the crop policy section. Not applicable for cattle.

<DEDUCTIBLE> | 27 | 9(04) | NA | For cattle, deductible submitted. Not applicable for swine.

**TOTAL TARGET MARKETINGS** | Internal | 9(05) | NA | For cattle, sum of Target Marketings by month. Not applicable for swine.

<GROSS_MARGIN_GUAR> | 28 | ( + / - )
| | 9(10).99 | dollar and cents | For swine, Expected Gross Margin times Coverage Level. For cattle, Expected Gross Margin minus (Deductible times Total Target Marketings). Symbols apply to cattle and only the negative symbol ( - ) will appear if applicable.

**AVG CME PRICE** | Internal | 999.99 | NA | 3-Day Avg CME Cwt Price from ADM L Suffix P.

<LIABILITY> | 29 | 9(10) | nearest whole dollar | For swine, Gross Margin Guarantee rounded to the nearest whole dollar. For cattle, the result of Avg CME Price times 12.5 times Total Target Marketings rounded to the nearest whole dollar.

**SECOND MONTH GROSS MARGIN DRAW(i)** | Internal | ( + / - )
| | 9999.99 | per ADM | Second Month Gross Margin Draw from ADM L Suffix C.

**THIRD MONTH GROSS MARGIN DRAW(i)** | Internal | ( + / - )
| | 9999.99 | per ADM | Third Month Gross Margin Draw from ADM L Suffix C.

**FOURTH MONTH GROSS MARGIN DRAW(i)** | Internal | ( + / - )
| | 9999.99 | per ADM | Fourth Month Gross Margin Draw from ADM L Suffix C.

**FIFTH MONTH GROSS MARGIN DRAW(i)** | Internal | ( + / - )
| | 9999.99 | per ADM | Fifth Month Gross Margin Draw from ADM L Suffix C.
## LIVESTOCK GROSS MARGIN (LGM) LIABILITY/PREMIUM CALCULATIONS

**Edit Description**

### Tag | No. | Picture | Rounding | Description
--- | --- | --- | --- | ---
SIXTH MONTH GROSS MARGIN DRAW(i) | Internal | ( + / - ) 9999.99 | per ADM | Sixth Month Gross Margin Draw from ADM L Suffix C.
SEVENTH MONTH GROSS MARGIN DRAW(i) | Internal | ( + / - ) 9999.99 | per ADM | Seventh Month Gross Margin Draw from ADM L Suffix C. Not applicable for swine.
EIGHTH MONTH GROSS MARGIN DRAW(i) | Internal | ( + / - ) 9999.99 | per ADM | Eighth Month Gross Margin Draw from ADM L Suffix C. Not applicable for swine.
NINTH MONTH GROSS MARGIN DRAW(i) | Internal | ( + / - ) 9999.99 | per ADM | Ninth Month Gross Margin Draw from ADM L Suffix C. Not applicable for swine.
TENTH MONTH GROSS MARGIN DRAW(i) | Internal | ( + / - ) 9999.99 | per ADM | Tenth Month Gross Margin Draw from ADM L Suffix C. Not applicable for swine.
ELEVENTH MONTH GROSS MARGIN DRAW(i) | Internal | ( + / - ) 9999.99 | per ADM | Eleventh Month Gross Margin Draw from ADM L Suffix C. Not applicable for swine.
SIMULATED GROSS MARGINS(i) | Internal | 9(10).99 | dollars and cents | Simulated Gross Margins(i) is the sum of (Gross Margin Draws(i) times Target Marketings by month).
<SIMULATED_LOSSES> | 30 | 9(10).99 | dollars and cents | Sum of (MAX (Gross Margin Guarantee minus Simulated Gross Margins(i)), 0).
<TOTAL_PREMIUM> | 31 | 9(10) | nearest whole dollar | The result of 1.03 times (1/5,000) times Simulated Losses.
<PRODUCER_PREMIUM> | 37 | 9(10) | nearest whole dollar | Producer Premium equals Total Premium.

Note: (i) = 1, 2, ..., 5000