LIVESTOCK GROSS MARGIN (LGM) LIABILITY/PREMIUM CALCULATIONS

Edit Description

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

GROSS MARGIN GUARANTEE

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EXPECTED GROSS MARGIN = (TARGET_MARKET_1 * EXP_GROSS_MARGIN_1) +
     (internal)
                                (field 19)
                                                        (field 25)
      (TARGET_MARKET_2 * EXP_GROSS_MARGIN_2) + (TARGET_MARKET 3 *
          (field 20)
                                (field 26)
                                                          (field 21)
      EXP_GROSS_MARGIN_3) + (TARGET_MARKET_4 * EXP_GROSS_MARGIN_4) +
            (field 27)
                                  (field 22)
                                                        (field 28)
      (TARGET_MARKET_5 * EXP_GROSS_MARGIN_5) + (TARGET_MARKET_6 *
             (field 23)
                                 (field 29)
                                                      (field 24)
      EXP_GROSS_MARGIN_6)
             (field 30)
GROSS MARGIN GUAR = EXPECTED GROSS MARGIN * COVERAGE LEVEL
      (field 32)
                                 (internal)
                                                       (field 31)
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LIABILITY

LIABILITY = GROSS_MARGIN_GUAR (field 33) (field 32)

SIMULATED LOSSES

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SIMULATED GROSS MARGINS(i) = (FIRST MONTH GROSS MARGIN DRAW(i) * (internal)

TARGET_MARKET_1) + (SECOND MONTH GROSS MARGIN DRAW(i) * (field 19)

TARGET_MARKET_2) + (THIRD MONTH GROSS MARGIN DRAW(i) * (field 20)

TARGET_MARKET_3) + (FOURTH MONTH GROSS MARGIN DRAW(i) * (field 21)

TARGET_MARKET_4) + (FIFTH MONTH GROSS MARGIN DRAW(i) * (field 22)

TARGET_MARKET_5) + (SIXTH MONTH GROSS MARGIN DRAW(i) * (field 23)

TARGET_MARKET_6) (field 24)
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Note: (i) = 1,2,...,25000

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$$\begin{aligned} \text{SIMULATED_LOSSES} &= \sum \left(\text{MAX} \right. \left(\text{GROSS_MARGIN_GUAR} - \text{SIMULATED GROSS MARGINS(i), 0)} \right) \\ & \left(\text{field 34} \right) \end{aligned} \end{aligned}$$

Note: only use simulated gross margins greater than zero in calculation

TOTAL PREMIUM

PRODUCER PREMIUM

PRODUCER_PREMIUM = TOTAL_PREMIUM (field 41) (field 35)

Note: Subsidy not applicable for LGM.

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Tag	No.	Picture	Rounding	Description
<target_market_1></target_market_1>	19	9(05)	whole number	Number of swine the insured expects to market in the first month of the insurance period (Feb. or Aug.).
<exp_gross_ MARGIN_1></exp_gross_ 	25	(+/-) 9999.9999	per ADM	Expected Gross Margin per swine for First Month from ADM L Suffix P. This is a signed field. Only the negative symbol (-) will appear if applicable.
<target_market_2></target_market_2>	20	9(05)	whole number	Number of swine the insured expects to market in the second month of the insurance period (Mar. or Sept.).
<exp_gross_ MARGIN_2></exp_gross_ 	26	(+/-) 9999.9999	per ADM	Expected Gross Margin per swine for Second Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.
<target_market_3></target_market_3>	21	9(05)	whole number	Number of swine the insured expects to market in the third month of the insurance period (Apr. or Oct.).
<exp_gross_ MARGIN_3></exp_gross_ 	27	(+/-) 9999.9999	per ADM	Expected Gross Margin per swine for Third Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.
<target_market_4></target_market_4>	22	9(05)	whole number	Number of swine the insured expects to market in the fourth month of the insurance period (May or Nov.).
<exp_gross_ MARGIN_4></exp_gross_ 	28	(+/-) 9999.9999	per ADM	Expected Gross Margin per swine for Fourth Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.
<target_market_5></target_market_5>	23	9(05)	whole number	Number of swine the insured expects to market in the fifth month of the insurance period (June or Dec.).
<exp_gross_ MARGIN_5></exp_gross_ 	29	(+/-) 9999.9999	per ADM	Expected Gross Margin per swine for Fifth Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.

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<target_market_6></target_market_6>	24	9(05)	whole number	Number of swine the insured expects to market in the sixth month of the insurance period. (July or Jan.)
<exp_gross_ MARGIN_6></exp_gross_ 	30	(+/-) 9999.9999	per ADM	Expected Gross Margin per swine for Sixth Month from ADM L Suffix P. Only the negative symbol (-) will appear if applicable.
<expected gross<br="">MARGIN></expected>	internal	9(10).99	dollars and cents	Sum of (Target Marketings by month times Expected Gross Margins by month).
<coverage_level></coverage_level>	31	9.999999	NA	Valid coverage Levels are 0.800000, 0.850000, 0.900000, 0.950000, 1.000000. Within a practice (insurance period) the coverage level is by type without regards to county.
<gross_margin_ GUAR></gross_margin_ 	32	9(10).99	dollar and cents	Expected Gross Margin times Coverage Level.
<liability></liability>	33	9(10)	nearest whole dollar	Gross Margin Guarantee to nearest whole dollar.
FIRST MONTH GROSS MARGIN DRAW(i)	Internal	(+/-) 999.999	per ADM	First Month Gross Margin Draw from ADM L Suffix C.
SECOND MONTH GROSS MARGIN DRAW(i)	Internal	(+/-) 999.999	per ADM	Second Month Gross Margin Draw from ADM L Suffix C.
THIRD MONTH GROSS MARGIN DRAW(i)	Internal	(+/-) 999.999	per ADM	Third Month Gross Margin Draw from ADM L Suffix C.
FOURTH MONTH GROSS MARGIN DRAW(i)	Internal	(+/-) 999.999	per ADM	Fourth Month Gross Margin Draw from ADM L Suffix C.
FIFTH MONTH GROSS MARGIN DRAW(i)	Internal	(+/-) 999.999	per ADM	Fifth Month Gross Margin Draw from ADM L Suffix C.
SIXTH MONTH GROSS MARGIN DRAW(i)	Internal	(+/-) 999.999	per ADM	Sixth Month Gross Margin Draw from ADM L Suffix C.
SIMULATED GROSS MARGINS(i)	Internal	9(10).99	dollars and cents	Six month Simulated Gross Margins(i) is the sum of (Gross Margin Draws(i) times Target Marketings by month).

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<simulated_ LOSSES></simulated_ 	34	9(10).99	dollars and cents	Sum of (MAX (Gross Margin Guarantee minus Simulated Gross Margins(i)), 0).
<total_premium></total_premium>	35	9(10)	nearest whole dollar	The result of 1.03 times (1/25,000) times Simulated Losses.
<producer_premium></producer_premium>	41	9(10)	nearest whole dollar	Producer Premium equals Total Premium.

Note: (i) = 1,2,..., 25000