Adjusted Gross Revenue (AGR)/Lite (AGR-L)
(Insurance Plan Codes 63 & 61)

LIABILITY CALCULATION

LIABILITY = APPROVED_AGR * COVERAGE LEVEL * PAYMENT_RATE
(field 34) (field 32) (Internal) (field 25)

Note: Liability Cap, cannot exceed $6.5 million for AGR and $1 million for AGR-L

PREMIUM LIABILITY CALCULATION

MAX MPCI = LIABILITY * 0.50
(Internal) (field 34)

PREMIUM LIABILITY = LIABILITY - Lesser of: (MPCI_LIABILITY or MAX MPCI)
(Internal) (field 34) (field 33) (Internal)

TOTAL PREMIUM

TOTAL_PREMIUM = PREMIUM LIABILITY * AGR_RATE
(field 38) (Internal) (field 37)

PRODUCER PREMIUM

SUBSIDY = TOTAL_PREMIUM * SUBSIDY FACTOR
(field 39) (field 38) (Internal)

PRODUCER PREMIUM = TOTAL_PREMIUM - SUBSIDY
(field 44) (field 38) (field 39)

A&O EXPENSE SUBSIDY

AOEXPENSE_SUBSIDY = TOTAL_PREMIUM * AOExpense Subsidy Percent
(field 45) (field 38) (Internal)

DIVERSIFICATION FACTOR (DF) FORMULAS:

CASES	FORMULA
1 Commodity	DF = 1.000
2 Commodities	DF = .668 + .0179999 (DEV) + .3142858 (DEV) (DEV)
3 Commodities	DF = .523 + .0607623 (DEV) + .2229 (DEV) (DEV)
4 Commodities	DF = .474 + ..0248208 (DEV) + .218472 (DEV) (DEV)
5 Commodities	DF = .437 + .0710358 (DEV) + .1760129 (DEV) (DEV)
6 Commodities	DF = .412 + .0325131 (DEV) + .1945816 (DEV) (DEV)
7 Commodities or more	DF = .410

TOTAL WEIGHTED FARM RATE

% of REVENUE = COMMODITY_VALUE / TOT_EXPECT_INCOME
(Internal) (field 60) (field 28)

WEIGHTED COMMODITY RATE = COMMODITY RATE * % of REVENUE
(Internal) (Internal) (Internal)

TOTAL_WEIGHT_RATE = Sum of WEIGHTED COMMODITY RATE
(field 35)

DIVERSITY FACTOR

COMMODITY FACTOR = 1.00 / NUM_COMMODITIES
(Internal) (field 26)

COMMODITY DEVIATION "Absolute Value" = % of REVENUE - COMMODITY FACTOR
(Internal) (Internal) (Internal)

Sum of COMMODITY DEVIATION FACTORS = Sum of all COMMODITY DEVIATIONS
(Internal) (Internal)

DIVERSITY_FACTOR (DF) = Formula based on number of commodities (see above)
(field 36) (Internal)

AGR RATE

AGR_RATE = DIVERSITY_FACTOR * TOTAL_WEIGHT_RATE
(field 37) (field 36) (field 35)

ADJUSTED GROSS REVENUE (AGR)/LITE (AGR-L) LIABILITY/PREMIUM CALCULATIONS

Edit Description

Tag	No.	Picture	Rounding	Description
<APPROVED_AGR>	32	9(10)	whole dollar	Value will equal average AGR, indexed AGR, or expected income.
COVERAGE LEVEL	Internal	9.999999	None	Coverage level submitted under the Crop Policy Section.
<PAYMENT_RATE>	25	9.9999	None	Payment rate selected in combination with coverage level.
<LIABILITY>	34	9(10)	nearest whole dollar	Liability cap, cannot exceed $6.5 million for AGR and $1 million for AGR-L.
MAX MPCI	Internal	9(10)	nearest whole dollar	Result of Liability times 0.50.
<MPCI_LIABILITY>	33	9(10)	whole dollar	Must have MPCI crops listed as commodity code.
PREMIUM LIABILITY	Internal	9(10)	nearest whole dollar	Liability reduced by “Max or MPCI Liability”.
<AGR_RATE>	37	.999	3 decimal places	Calculated rate (diversity factor multiplied by total weight rate).
<TOTAL_PREMIUM>	38	9(10)	nearest whole dollar	Premium including subsidy. Premium liability multiplied by AGR rate.
SUBSIDY FACTOR	Internal	.999	3 decimal places	Subsidy percent converted to factor.
<SUBSIDY>	39	9(10)	nearest whole dollar	Total Premium multiplied by Subsidy Factor.
<PRODUCER_PREMIUM>	44	9(10)	nearest whole dollar	Premium after subsidy. Total Premium minus Subsidy.
AOExpense Subsidy Percent	Internal	.999	3 decimal places	A&O Expense Subsidy Percent
<AOEXPENSE_SUBSIDY>	45	9(10).99	Dollar and cents	Total Premium multiplied by AOExpense Subsidy Percent.

ADJUSTED GROSS REVENUE (AGR)/LITE (AGR-L)
LIABILITY/PREMIUM CALCULATIONS
Edit Description

Tag	No.	Picture	Rounding	Description
<COMMODITY_VALUE>	60	9(10)	whole dollar	Results of field 56 (acres, etc.) times field 57 (yield) times field 59 (expected value).
<TOT_EXPECT_INCOME>	28	9(10)	whole dollar	Sum of all commodity values.
% of REVENUE	Internal	9.999	3 decimal places	Percent of total income for this commodity.
COMMODITY RATE	Internal	99.999	none	The whole farm rate from the A01000.
WEIGHTED COMMODITY RATE	Internal	99.999	3 decimal places	Commodity rate multiplied by % of Revenue.
<TOTAL_WEIGHT_RATE>	35	99.999	3 decimal places	Sum of all weighted commodity rates.
<NUM_COMMODITIES>	26	999	none	Total number of commodities reported.
COMMODITY FACTOR	Internal	9.999	3 decimal places	Result of 1.00 divided by number of commodities.
COMMODITY DEVIATION	Internal	9.999	3 decimal places	Result of % of Revenue minus commodity factor.
Sum of COMMODITY DEVIATION	Internal	9.999	3 decimal places	Sum of all commodity deviations.
<DIVERSITY_FACTOR>	36	9.999	3 decimal places	Result of the Diversification Factor (DF) Formula that's based on the number of commodities.
<AGR_RATE>	37	.999	3 decimal places	Calculated rate (diversity factor * total weight rate).

UNIT OF MEASURE (UOM)

UNIT MEASURE	UNIT ABBREVIATION	UNIT NUMERIC CODE
ACRE	ACRE	20
BAG/SACK	BG/SK	11
BALE	BALE	12
BARREL	BARRL	10
BOX	BOX	13
BUSHEL	BU	01
CARTON	CTN	14
DOZEN	DOZ	15
EACH	EACH	97
FLAT	FLAT	16
GALLON	GAL	07
HEAD	HEAD	17
HIVE	HIVE	18
HUNDREDWEIGHT	CWT	03
LUG	LUG	19
OTHER	OTHER	99
OUNCE	OZ	05
PACKAGE	PACKG	21
PECK	PECK	09
PINT	PINT	06
PLANT	PLANT	22
POUND	POUND	02
PURCHASED FOR RESALE	PFR	98**
QUART	QT	08
SQUARE FOOT	SQ/FT	23
TON	TON	04

** If the commodity code is 0073 or 0600 the unit code will be 98 and the Expected Value field will be zero.