## ROUNDING For Guarantee, Liability and Premium Calculations

Note 1: Round to nearest whole pound or nearest tenth for other units of measure.
Note 2: Round to nearest tenth for barrels or tons and nearest whole number for other units of measure.

Note 3: Round to nearest hundredth for Quota Tobacco and nearest tenth for all other crops.

Note 4: Round to nearest whole pound or bushel.
Note 5: Round to nearest tenth.

Note 6: Round to nearest whole number.
Note 7: Round to nearest whole dollar.
Note 8: Round to nearest thousandth.
Note 9: Round to nearest dollar and cents.
Note 10: Round to 8 decimal places.
Note 11: Round to hundredth.
Note 12: Round to 8 decimal places, including each interim step.

Subsidy Factor for all plan codes except GRP (12) and GRIP (73).
Subsidy Factor = Subsidy factor for coverage level (field 31) from Subsidy Table.

| Coverage <br> Level* | CAT | .5000 | .5500 | .6000 | .6500 | .7000 | .7500 | .8000 | .8500 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Subsidy <br> Factor | 1.000 | .670 | .640 | .640 | .590 | .590 | .550 | .480 | .380 |

*If CE Option is elected, then CEO Coverage Level (field 72) unless Prevented Planting acreage which uses MPCI subsidy.

GRP \& GRIP:
Subsidy Factor $=$ Subsidy Factor for Coverage Level (field 31) from Subsidy Table.

| Coverage <br> Level | CAT | .7000 | .7500 | .8000 | .8500 | .9000 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Subsidy <br> Factor | 1.000 | .640 | .640 | .590 | .590 | .550 |


| November 18, 2002 Exhibit 11-11 | FCIC-M1. |
| :---: | :---: |

## APH Crops <br> Insurance Plan Code 90, 30

Alfalfa Seed (0107)
Canola (0015)
Crambe (0068)
Flax (0031)
Mint (0074)
Peanut (0075)
Rye (0094)
Sugarcane (0038)
Tobacco (0229)
Tobacco (0234)
Tomatoes (0087)

Almonds (0028)
Corn (0041)
Cranberries (0058)
Forage Prod (0033)
Mustard (0069)
Popcorn (0043)
Safflowers (0049)
Sunflowers (0078)
Tobacco (0230)
Tobacco (0235)
Wheat (0011)

| Avocados - FL $(0019)$ | Barley $(0091)$ |
| :--- | :--- |
| Cotton $(0021)$ | ELS Cotton $(0022)$ |
| Dry Beans $(0047)$ | Dry Peas $(0067)$ |
| Grain Sorghum (0051) | Millet $(0017)$ |
| Oats $(0016)$ | Peaches $(0034)^{* *}$ |
| Potatoes $(0084)$ | Rice $(0018)$ |
| $\quad$ Soybeans $(0081)$ | Sugar Beets $(0039)$ |
| Sweet Corn $(\mathrm{C} \& F)(0042)$ | Sweet Potatoes (0085) |
| Tobacco $(0232)$ | Tobacco $(0233)$ |
| Tobacco $(0236)$ | Tomatoes -Fr Mkt $(0086)$ |
|  |  |

**All counties in Georgia \& South Carolina
***See Informational Memorandum R\&D 99-036 for applicable states, plans of insurance \& crop year for Coverage Enhancement Option (CEO).

Note A: If Prevented Planting the CEO Coverage Level and CEO PPT do not apply.

## GUARANTEE PER ACRE

Guarantee Per Acre $=($ Yield $*$ Coverage Level or CEO Coverage Level , if elected $)$
(Field 32) (Field 28) (Field31) or (Field 72)
(Note 1) (Note 2)

## If Late Planting applies, then

Guarantee Per Acre $=($ Yield $*$ Coverage Level or CEO Coverage Level, if elected $) *$ Guarantee Reduction Factor (Field 32) (Field 28) (Field 31) Or (Field 72) (Field 33) (Note 1) (Note 2)

If Prevented Planting applies, then
Guarantee Per Acre $=($ Yield $*$ MPCI Coverage Level $) *$ Guarantee Reduction Factor (Field 32) (Field 28) (Field 31) (Field 33)
(Note 1)
(Note 2)

## TOTAL GUARANTEE

Total Guarantee $=$ Guarantee Per Acre * Reported Acres
(Field 35) (Field 32) (Field 34)
(Note 2) (Note 1) (Note 3)

| November 18, 2002 | Exhibit 11-11 | FCIC-M13 |
| :--- | :---: | :---: |
|  | Type 11-APH Guarantee/Liability/Premium Calculations | Edit Description |

## LIABILITY



## PREMIUM LIABILITY

Premium Guarantee Per Acre $=$ Yield $*$ Coverage Level or CEO Coverage Level (if elected, unless prevented planting) (Field 28) (Field 31) (Field 72)
(Note 1)
(Note 2)

Premium Guarantee $=$ Premium Guarantee Per Acre * Reported Acres
(Field 34)
(Note 2)
(Note 1)
(Note 3)
Premium Liability $=$ Premium Guarantee * Price Election Amount * Insured Share
(Note 7)
(Note 2) (Field 36)
(Field 38)

## MPCI portion:

Premium Guarantee $=$ Premium Guarantee Per Acre * Reported Acres
(Note 2)
(Note 1)
(Field 34)
(Note 3)
Premium Liability $=$ Premium Guarantee * Price Election Amount * Insured Share
(Note 7)
(Note 2) (Field 36)
(Field 38)

## CONTINUOUS RATE CALCULATION

```
Current Year's Yield Ratio = Rate Yield/Current Year Reference Yield
                            (Field 78)
    (Note 2)
```

Current Year’s Continuous Rating Base Rate = (Current Year Yield Ratio ** Current Year Exponent) * (Note 12) (Note 11)
Current Year Reference Rate + Current Year Fixed Rate Load

Yield Span Base Rate $=$ Yield Span Base Rate * 1.20
(Note 12)
Prior Year's Yield Ratio $=$ Rate Yield $/$ Prior Year Reference Yield
(Field 78)
(Note 11)
(Note 2)
Prior Year's Continuous Rating Base Rate $=((($ Prior Year Yield Ratio ** Prior Year Exponent $)$ *
(Note 12)
(Note 11)
Prior Year Reference Rate + Prior Year Fixed Rate Load) * 1.20

Preliminary Base Rate $=$ lower of Current Year's Continuous Rating Base Rate, (Field 43) (Note 10)
(Note 10)
Yield Span Base Rate, OR Prior Year's Continuous Rating Base Rate
(Note 10)
(Note 10)
Adjusted Base Rate=
(Note 12)
Greater of: (Preliminary Base Rate + Additional Coverage Rate) * Multiplicative Factor OR Designated Rate (Field 43) (Note 10)

Base Premium Rate = Adjusted Base Rate * Coverage Level Rate Differential
(Field 42)
(Note 12)
(Note 10)

| November 18, 2002 | Exhibit 11-11 | FCIC-M13 |
| :--- | :---: | :---: |
|  | Type 11-APH Guarantee/Liability/Premium Calculations |  |
| Edit Description |  |  |

## TOTAL PREMIUM CALCULATION

Total Premium $=$ Premium Liability * Base Premium Rate * Unit Factor(s) *

| (Field 55) | (Field 42) |  |
| :--- | :--- | :--- |
| (Note 7) | (Note 7) | (Note 10) |

Optional Coverage Factor(s) * Experience Factor * (1.00 + Premium Rate Surcharge) * Organic Premium Factor (Field 48) (Field 49)

## PRODUCER PREMIUM AND SUBSIDY CALCULATION



| Producer Premium $=$ <br> Total Premium <br> $($ Field 61 $)$ | Subsidy <br> (Field 55) | (Field 56) |
| :--- | :---: | :--- |
| (Note 7) | (Note 7) | (Note 7) |

Note: See Note 12 of exhibit 11-11 page 1 - Round to 8 decimal places, including each interim step.
Note: Current Year's Yield Ratio and Prior Year's Yield Ratio Cup at 0.50 and Cap at 1.50
Note: Additional Coverage Rate default . 000
Note: Multiplicative Factor default 1.000
Note: Base Premium Rate maximum value .999
Note: Designated Rate default $\mathbf{0 . 0 0 0}$
Note: Optional Coverage factor(s) if multiple factors, are valid
Note: Unit Factor(s) for enterprise the basic unit discount (ADM K) and enterprise unit discount (Unit Premium Adjustment factor ADM WC) will apply

| Field Name | Field Number | Picture | Rounding | Description |
| :---: | :---: | :---: | :---: | :---: |
| Yield | 28 | $9(08) \mathrm{V} 9(02)$ | Nearest tenth for barrels or tons, nearest whole number for other units of measure. | Yield reported. |
| Coverage Level | 31 | $9(01) \mathrm{V} 9(04)$ | None | $50,55,60,65,70,75,80$ \& 85 |
| CEO Coverage Level | 72 | $9(01) \mathrm{V} 9(04)$ | None | $55,60,65,70,75,80 \& 85$ if CEO selected |
| Guarantee <br> Reduction Factor | 33 | V9(03) | None | Guarantee reduction factor. See Exhibit 111. |
| Guarantee Per Acre | 32 | $9(08) \mathrm{V} 9(02)$ | Nearest whole pound or nearest tenth for other units of measure. | Guaranteed yield per acre with late or prevented planting reduction applied if applicable. This field is based on the CEO Coverage Level, if elected. See Note A. |
| Reported Acres | 34 | $9(06) \mathrm{V} 9(02)$ | To hundreths for Tobacco, to tenths for all other crops | Number of acres reported. |
| Total Guarantee | 35 | $9(08) \mathrm{V} 9(02)$ | Nearest tenth for barrels or tons, nearest whole number for all other units of measure. | Total guaranteed yield for the current acreage line (Type 11) after any late or prevented planting reductions are taken. This field is based on the CEO Coverage Level, if elected. See Note A. |
| Price Election Amount | 36 | $9(04) \mathrm{V} 9(04)$ | None | Price election submitted with percent election applied. If CEO is elected, must be $100 \%$ of MPCI price. |
| Insured Share | 38 | $9(01) \mathrm{V} 9(03)$ | None | Insured share reported. |
| Liability | 39 | $9(10)$ | Nearest Whole Dollar | Dollar value of the insurance protection for the crop, taking into account the insured's elected coverage levels and share in the acreage, with any yield reductions, if applicable. This field is based on the CEO Coverage Level, if elected. See Note A. |
| Premium Guarantee <br> Per Acre | Internal | $9(08) \mathrm{V} 9(02)$ | Nearest whole pound or nearest tenth for other units of measure. | Guaranteed yield per acre without any late or prevented planting reductions. It is used as the basis for premium calculation. This field is based on the CEO Coverage Level, if elected. See Note A. |


| Field Name | Field Number | Picture | Rounding | Description |
| :---: | :---: | :---: | :---: | :---: |
| Premium Guarantee | Internal | 9(08)V9(02) | Nearest tenth for barrels or tons, nearest whole number for all other units of measure. | Total guaranteed yield for the current acreage line (Type 11) without any late or prevented planting reductions. Used for the premium calculation. This field is based on the CEO Coverage Level, if elected. See Note A. |
| Premium Liability | Internal | 9(10) | Nearest Whole Dollar | Dollar value of the insurance protection for the crop, taking into account the insured's elected coverage levels and share in the acreage without any yield reductions due to late or prevented planting. Used for the premium calculations. This field is based on CEO Coverage Level, if elected. See Note A. |
| Rate Yield | 78 | $9(08) \mathrm{V} 9(02)$ | Nearest tenth for barrels or tons, nearest whole number for other units of measure. | Rate yield reported. This yield is used to determine the correct rate and may be the same as the approved yield. Must match rate yield on the record type 15 . |
| Current Year Reference Yield | Internal | 9(05)V9(02) | None | Reference yield from ADM 1C. |
| Current Year Yield Ratio | Internal | 9(07)V9(02) | round to hundredth | Rate yield divided by the current year reference yield, CUP at 0.50 and CAP at 1.50. |
| Current Year Exponent | Internal | 9(02) V9(03) | None | The power (exponent ADM 1C) that yield ratio is raised in calculation of current year's uncapped base premium rate. |
| Current Year Reference Rate $\qquad$ | Internal | 9(01)V9(03) | None | Reference rate from ADM 1C used in the calculation of current year's continuous rating base rate. |
| Current Year Fixed Rate Load | Internal | 9(01)V9(03) | None | Fixed rate load from ADM 1C used in the calculation of current year's continuous rating base rate. |
| Current Year's <br> Continuous Rating <br> Base Rate | Internal | V9(08) | Round to 8 decimal places, including each interim step. | The result of current year's yield ratio, exponent, reference rate and fixed rate load. |
| Yield Span Base Rate | Internal | 9(01)V9(03) | None | Prior year base premium rate from ADM 1C for Rate Yield, used to calculate capped yield span base rate. |
| Yield Span Base Rate (Capped) | Internal | V9(08) | Round to 8 decimal places, including each interim step. | Yield span base rate capped at 1.20 . If the chosen county has no prior year yield and rate elements, this calculation will equal .999 . |


| Field Name | Field <br> Number | Picture | Rounding | Description |
| :--- | :--- | :--- | :--- | :--- |
| Prior Year <br> Reference Yield | Internal | $9(05) \mathrm{V} 9(02)$ | None | Prior year reference yield from ADM 1C. |
| Prior Year Yield <br> Ratio | Internal | $9(07) \mathrm{V} 9(02)$ | Round to hundredth. | Rate yield divided by the prior year <br> reference yield, CUP at 0.50 and CAP at <br> 1.50. |
| Prior Year Exponent | Internal | $9(02) \mathrm{V} 9(03)$ | None | The power (exponent ADM 1C) that prior <br> year yield ratio is raised in calculation of <br> prior year's continuous rating base rate. |
| Prior Year <br> Reference Rate | Internal | $9(01) \mathrm{V} 9(03)$ | None | Prior year reference rate from ADM 1C <br> used in the calculation of prior year's <br> continuous rating base rate. |
| Prior Year Fixed <br> Rate Load | Internal | $9(01) \mathrm{V} 9(03)$ | None | Prior year fixed rate load from ADM 1C <br> used in the calculation of prior year's <br> continuous rating base rate. |
| Prior Year's <br> Continuous Rating <br> Base Rate | Internal | $\mathrm{V} 9(08)$ | Round to 8 decimal <br> places, including <br> each interim step. | The result of prior year yield ratio, <br> exponent, reference rate, and fixed rate <br> load. |
| Preliminary Base <br> Rate | 43 | Internal | $9(01) \mathrm{V} 9(03)$ | None |

\(\left.\left.$$
\begin{array}{|l|l|l|l|l|}\hline \text { Field Name } & \begin{array}{l}\text { Field } \\
\text { Number }\end{array} & \text { Picture } & \text { Rounding } & \text { Description } \\
\hline \text { Base Premium Rate } & 42 & \text { V9(08) } & \begin{array}{l}\text { Round to 8 decimal } \\
\text { places, including } \\
\text { each interim step. }\end{array} & \begin{array}{l}\text { The greater of ((preliminary base rate + } \\
\text { additional coverage rate) * multiplicative } \\
\text { factor) or designated rate. }\end{array} \\
\hline \text { Unit Factor(s) } & \text { Internal } & 9(01) \mathrm{V} 9(03) & \text { None } & \begin{array}{l}\text { The option factor from ADM K for OU and } \\
\text { BU, ADM WC for EU. For enterprise the } \\
\text { basic unit (BU) factor and enterprise unit } \\
\text { (EU) factor (Unit Premium Adjustment } \\
\text { Factor) will apply. }\end{array} \\
\hline \begin{array}{l}\text { Optional Coverage } \\
\text { Factor(s) }\end{array} & \text { Internal } & 9(01) \mathrm{V} 9(03) & \text { None } & \\
\hline \text { Experience Factor } & 48 & 9(01) \mathrm{V} 9(02) & \text { None } & \begin{array}{l}\text { If Common Option Codes (Field 46) do not } \\
\text { equal spaces, the Option Factor from ADM } \\
\text { K. If Common Option Codes are spaces, } \\
\text { the Option Coverage Factor(s) = 1.000. }\end{array} \\
\hline \begin{array}{l}\text { Premium Rate } \\
\text { Surcharge }\end{array} & \text { Internal } & 9(01) \mathrm{V9(02)} & \text { None } & \begin{array}{l}\text { Experience Factor reported. }\end{array} \\
\hline \text { Total Premium } & 55 & 9(10) & \text { Whole Dollar } & \begin{array}{l}\text { (Field 49) is Y, the Premium Rate } \\
\text { Surcharge }=0.05 . ~ I f ~ t h e ~ P r e m i u m ~ R a t e ~\end{array} \\
\text { Surcharge Flag equals spaces, the Premium } \\
\text { Rate Surcharge = 0.00. }\end{array}
$$\right] \begin{array}{l}Unsubsidized premium. This field is <br>

based on CEO coverage level, if elected.\end{array}\right]\)| Subsidy Factor determined using Exhibit |
| :--- |
| $11-11$, page 2. |


| November 18, 2002 | Exhibit 11-11 | FCIC-M13 |
| :--- | :---: | :---: |
|  | Type 11-APH Guarantee/Liability/Premium Calculations |  |
| Edit Description |  |  |

## APH Crops

(Insurance Plan Codes 84, 86)

Apples (0054)
Dry Beans (0047)
Grapes (0053)
Onions (0013)
Potatoes (0084)
Table Grapes (0052)

Blueberries (0012)
Dry Peas (0067)
Green Peas (0064)
Peaches (0034)*
Processing Beans (0046)
Walnuts (0029)

Cabbage (0072)
Figs (0060)
Mac Nuts (0023)
Pears (0089)
Prunes (0036)
Wild Rice (0055)

Citrus Fruit (AZ, CA, TX) Forage Production (0033)

Plums (0090) Stonefruit **

* All Peaches except Georgia \& South Carolina
** See Exhibit 11-2 for applicable crops and code.
***See Informational Memorandum R\&D 99-036 for applicable states, plans of insurance \& crop year for Coverage Enhancement Option (CEO).

Note A: If Prevented Planting, the CEO Coverage Level and CEO PPT do not apply.

## GUARANTEE PER ACRE



If Prevented Planting applies, then
Guarantee Per Acre $=($ Yield * Coverage Level $) *$ Guarantee Reduction Factor
(Note 1) (Note 1) $\quad$ (Field 31) $\quad$ (Field 33)

For Cabbage (except processing) and Potatoes (Certified Seed) with the $\mathbf{1 2 5 \%}$ Acreage Limitation; then:
Guarantee Per Acre $=($ Yield $*$ Coverage Level $) *$ Yield Conversion Factor
(Field 32)
(Note 1)
(Field 28) (Field 31)
(Note 1)
(Field 41)
(Round to 3 decimals)

## TOTAL GUARANTEE

Total Guarantee $=$ Guarantee Per Acre * Reported Acres
(Note 2) (Note 1)
(Note 3)

| November 18, 2002 | Exhibit 11-11 <br> Edit Description | FCIC-M13 |
| :--- | :---: | :---: |
|  |  |  |

## LIABILITY

Liability $=$ Total Guarantee * Price Election Amount * Insured Share (Note 7) (Note 2)
(1) This applies only to Apples (0054) with a rate class option code of QF or QP (field 76).

## TOTAL PREMIUM

Premium Guarantee Per Acre $=$ Yield $*$ Coverage Level or CEO Coverage Level, if elected (except for Prevented (Note 1) (Note 2) (Field 31) Planting 72) Pcres)

* Option Historical Packout
Factor (Field 76)

Premium Guarantee $=$ Premium Guarantee Per Acre * Reported Acres
(Note 2) (Note 1) (Note 3)
Premium Liability = Premium Guarantee * Price Election Amount * Insured Share
(Note 7)
(Note 2)
(Field 36)

Total Premium = Premium Liability * MPCI Base Premium Rate * Map Factor * Rate Class Option Factor * (Note 7) (Note 7)

Option Factor * Unit Premium Adjustment Factor * Experience Factor * (1 + Premium Rate Surcharge) *
Organic Premium Factor
Note: If the Unit Option code contains an "EU" then a Basic Unit Discount is also applied

## PRODUCER PREMIUM



## Type 11 - APH Guarantee/Liability/Premium Calculations Edit Description

| Field Name | Field Numbe | Picture | Rounding | Description |
| :---: | :---: | :---: | :---: | :---: |
| Yield | 28 | 9(08)V9(02) | Nearest tenth for barrels or tons, nearest whole number for other units of measure. | Yield reported. |
| Coverage Level | 31 | 9(01)V9(04) | None | 50, 55, 60, 65, 70, 75, 80 \& 85 |
| Guarantee <br> Reduction Factor | 33 | V9(03) | None | ```Guarantee reduction factor. See Exhibit 11- 1.``` |
| Guarantee Per Acre | 32 | 9(08)V9(02) | Nearest whole pound or nearest tenth for other units of measure. | Guaranteed yield per acre with late or prevented planting reduction applied if applicable. This field is based on the CEO Coverage Level, if elected. See Note A. |
| Reported Acres | 34 | 9(06)V9(02) | To hundreths for Tobacco, to tenths for all other crops. | Number of acres reported. |
| Total Guarantee | 35 | 9(08)V9(02) | Nearest tenth for barrels or tons, nearest whole number for all other units of measure. | Total guaranteed yield for the current acreage line (Type 11) after any late or prevented planting reductions are taken. This field is based on the CEO Coverage Level, if elected. See Note A. |
| Price Election <br> Amount | 36 | $9(04) \mathrm{V} 9(04)$ | None | Price election submitted. If CEO is elected, must be $100 \%$ of MPCI price. |
| Insured Share | 38 | 9(01)V9(03) | None | Insured share reported. |
| Liability | 39 | $9(10)$ | Nearest Whole Dollar | Dollar value of the insurance protection for the crop, taking into account the insured's elected coverage levels and share in the acreage, with or without any yield reductions, if applicable. This field is based on the CEO Coverage Level, if elected. See Note A. |
| Premium Guarantee Per Acre | Internal | $9(06) \mathrm{V} 9(02)$ | Nearest whole pound or nearest tenth for other units of measure. | Guaranteed yield per acre without any late or prevented planting reductions. It is used as the basis for premium calculation. This field is based on the CEO Coverage Level, if elected. See Note A. |
| Premium Total Guarantee | Internal | 9(08)V9(02) | Nearest tenth for barrels or tons, nearest whole number for all other units of measure. | Total guaranteed yield for the current acreage line (Type 11) without any late or prevented planting reductions. Used for the premium calculation. This field is based on the CEO Coverage Level, if elected. See Note A. |


| Field Name | Field <br> Number | Picture | Rounding | Description |
| :---: | :---: | :---: | :---: | :---: |
| Premium Liability | Internal | 9(09) | Nearest Whole Dollar | Dollar value of the insurance protection for the crop, taking into account the insured's elected coverage levels and share in the acreage without any yield reductions due to late or prevented planting. Used for the premium calculations. This field is based on CEO Coverage Level, if elected. See Note A. |
| Base Premium Rate | 42 | V9(08) | None | MPCI Base Premium Rate reported for the rate yield. |
| Map Factor | Internal | $9(01) \mathrm{V} 9(03)$ | None | See Exhibit 11-3. |
| Unit Option Code | 45 | $\mathrm{X}(02)$ | None |  |
| Rate Class Option Factor | 47 | X(20) |  | If the Option Code (Field 47) is not equal to spaces, the Rate Class Option Factor comes from ADMR Rate Class Option Record. If the Rate Class Option Code <br> is equal to spaces, the Type/Practice Option Factor $=1.000$. |
| Option Factor | Internal | 9(01)V9(03) | None | This factor is the result of Unit Option code (field 45) and Commom Option code (field 46) from ADM 0 record. If not applicable (spaces) factor equals 1.000 . |
| Experience Factor | 48 | $9(01) \mathrm{V} 9(03)$ | None | Experience Factor reported. |
| Premium Rate Surcharge | Internal | $9(01) \mathrm{V} 9(02)$ | None | If the Premium Rate Surcharge Flag (Field 49) is Y, the Premium Rate Surcharge $\%=0.05$. If the Premium Rate Surcharge Flag equals spaces, the Premium Rate Surcharge $=0.00$. |
| Total Premium | 55 | 9(10) | Whole Dollar | Unsubsidized premium. This field is based on CEO coverage level, if elected. See Note A. |
| Subsidy Factor | Internal | V9(03) | None | Subsidy Factor determined using Exhibit 11-11, page 2. |
| Subsidy | 56 | 9(10) | Whole Dollar | Amount of Total Premium that is subsidized. |
| Producer Premium |  | 9(10) | Nearest Whole Dollar | Amount of premium charged to the producer (farmer). This field is based on CEO coverage level, if elected. See Note A. |
| Historical Packout Factor (apples only) | 76 | $9(01) \mathrm{V}((02)$ | None | Factor associated with quality option for apples to determine GPA. |


| November 18, 2002 |
| :---: | :---: |
| Type 11 - Dollar Amount of Insurance Guarantee/Liability/Premium Calculations $11-11$ |
| Edit Description |$\quad$ FCIC-M13

## Dollar Amount of Insurance Crops (Insurance Plan Code 50)

| Florida Citrus: Citrus I (0245) | Citrus II (0246) | Citrus III (0247) | Citrus IV (0248) |
| :--- | :---: | :--- | :--- |
| Citrus V (0249) |  |  |  |
| Citrus VI (0250) | Citrus VII (0251) |  |  |
| Citrus Trees (See Exhibit 11-2 for crop codes) | Forage Seeding (0032) |  |  |
| Macadamia Trees (0024) | Peppers (0083) | Raisins (0037)* | Fresh Market Beans (0105) |
| Fresh Market Sweet Corn (0044) | Fresh Market Tomatoes $(0086)$ | Winter Squash (0065) |  |

**See Informational Memorandum R \& D 99-036 for applicable states, plans of insurance \& crop year.

## DOLLAR AMOUNT OF INSURANCE

Dollar Amount of Insurance $=$

| Ref Max Amount * | MPCI Coverage Level |  |
| :--- | ---: | ---: |
| (from ADM) | (or CEO Cov. Level if elected) | Price Election Factor |
| (Applicable for Florida Citrus Only) |  |  |

## TOTAL GUARANTEE

Total Guarantee $=$ Dollar Amount of Insurance Per Acre * Reported Acres
(Note 7)
(Note 7)
(Note 5)

## LIABILITY

Liability $=$ Total Guarantee * Insured Share
(Note 7) (Note 7)

## TOTAL PREMIUM

Total Premium $=$ Liability $*$ MPCI Base Premium Rate * Map Factor *
(Note 7) (Note 7)
Rate Class Option Factor * Option Factor * Experience Factor * Organic Premium Factor

| November 18, 2002 <br> Type 11 - Dollar Amount of Insurance Guarantee/Liability/Premium Calculations <br> Edit Description | FCIC-M13 |
| :--- | :---: | :---: |

## PRODUCER PREMIUM

| Subsidy |
| :--- |
| (Field 56) |

(Note 7) $\quad$| Total Premium |
| :---: |
| (Field 55) |$\quad *$ Subsidy Factor

Producer Premium $=$ Total Premium - Subsidy
(Field 61)
(Note 7)
(Note 7)

| Field Name | Field <br> Number | Picture | Rounding | Description |
| :---: | :---: | :---: | :---: | :---: |
| Dollar Amount of Insurance | 29 | $9(08) \mathrm{V} 9(02)$ | Nearest Whole Dollar. | (MPCI or CEO, if elected) Dollar Amount of Insurance reported. See Exhibit 11-4 |
| Reported Acres | 34 | 9(06)V9(02) | To Tenths. To Hundredths for Raisins only. | Number of acres reported. |
| Total Guarantee | 35 | 9(08)V9(02) | Nearest Whole Dollar. | Total dollar guarantee for the current acreage line (Type 11). |
| Insured Share | 38 | 9(01)V9(03) | None | Insured share reported. |
| Liability | 39 | 9 (10) | Nearest Whole Dollar. | Dollar value of the insurance protection for the crop, taking into account the insured's elected coverage level and share in the acreage. |
| Base Premium Rate | 42 | V9(08) | None | Base Premium Rate reported. |
| Map Factor | Internal | 9(01)V9(03) | None | See Exhibit 11-3. |
| Rate Class Option Factor | 47 | $X(20)$ | None | If the Option Code (field 47) is not equal to spaces, the Rate Class Option Factor comes from ADM R Rate Class Option Record. If the Rate Class Option Code is equal to spaces, the Type/Practice Option Factor $=1.000$. |
| Option Factor | Internal | $9(01) \mathrm{V} 9(03)$ | None | This factor is the result of Unit Option Code (field 45) and Common Option Code (field 46) from ADM 0 record. If not applicable (spaces) factor equals 1.000 . |
| Experience Factor | 48 | $9(01) \mathrm{V} 9(03)$ | None | Experience Factor reported. |
| Total Premium | 55 | $9(10)$ | Nearest Whole Dollar | Unsubsidized premium. |
| Subsidy Factor | Internal | V9(03) | None | Subsidy Factor from Subsidy Factor table on FCI-35. |
| Subsidy | 56 | 9(10) | Whole Dollar | Amount of Total Premium that is subsidized. |
| Producer Premium | 61 | 9(10) | Nearest Whole Dollar | Amount of premium charged to the producer (farmer). |

Type 11 - Dollar Amount of Insurance Guarantee/Liability/Premium Calculations

# Fixed Dollar Amount of Insurance Crops <br> (Insurance Plan Code 51) 

| Chile Peppers $(0045)$ | Strawberries $(0110)$ | Processing Cucumbers $(0106)$ |
| :--- | :--- | :--- |
| Citrus $(0215)-$ CA only | Cherries $(0057)$ | Raspberries/Blackberries $(0108)$ |

DOLLAR AMOUNT OF INSURANCE $=$ ADM Dollar Amount
FOR DOLLAR CITRUS (0215) = If highest level of production within last three years
is $<600$ cartons and $\geq 300$ then
Dollar Amount will $=$ highest production/600 * Dollar Amount from ADM
FOR RASPBERRIES/BLACKBERRIES (0108) = If highest yield in most recent
3 crop years/minimum production requirement *Dollar Amount from ADM
FOR STRAWBERRIES (0110) = If highest level of production with the last 3 years $<24,000 \mathrm{lbs} \geq 8,000 \mathrm{lbs}$ then Dollar Amt will $=$ highest production/24,000

* Dollar Amt from ADM


## TOTAL GUARANTEE

Total Guarantee = Dollar Amount of Insurance Per Acre * Reported Acres
(Note 7)
(Note 7)
(Note 5)

## LIABILITY

Liability $=$ Total Guarantee * Insured Share
(Note 7) (Note 7)

## TOTAL PREMIUM

$\begin{gathered}\text { Total Premium }=\text { Liability } \\ \text { (Note 7) }\end{gathered} \quad$ (Note 7) Base Premium Rate $*$ Map Factor * Option Factor *
$\begin{gathered}\text { Guarantee Reduction Factor } * \\ \text { (see note below) }\end{gathered}$
(applicable to Cherries \& Raspberries/Blackberries in Oregon \& Washington)

| November 18, 2002 <br> Type 11-Dhibit 11-11 <br>  <br>  <br>  | FCIC-M13 |
| :---: | :---: |

## PRODUCER PREMIUM

| Subsidy = <br> (Field 56) | Total Premium (Field 55) | Subsidy Factor (Note 8) |
| :---: | :---: | :---: |
| (Note 7) (Note 7) |  |  |
| Producer Premium | = Total Premium | - Subsidy |
| (Field 61) | (Field 55) | (Field 56) |
| (Note 7) | (Note 7) | (Note 7) |


| November 18, 2002 | Exhibit 11-11 | FCIC-M13 |
| :---: | :---: | :---: |
| Type 11-Dollar Amount of Insurance Guarantee/Liability/Premium Calculations |  |  |
|  | Edit Description |  |


| Field Name | Field <br> Number | Picture | Rounding | Description |
| :---: | :---: | :---: | :---: | :---: |
| Dollar Amount of Insurance | 29 | 9(08)V9(02) | None | Dollar Amount of Insurance from ADM- 1-D or can be reduced <br> Dollar Amount if crop $=0215$ <br> Dollar Citrus in California (06) or Raspberries/Blackberries in Washington (53) or Oregon (41). |
| Reported Acres | 34 | $9(06) \mathrm{V9}(02)$ | To Tenths. | Number of acres reported. |
| Total Guarantee | 35 | $9(08) \mathrm{V9}(02)$ | Nearest Whole Dollar. | Total dollar guarantee for the current acreage line (Type 11). |
| Insured Share | 38 | $9(01) \mathrm{V9}(03)$ | None | Insured share reported. |
| Liability | 39 | 9(10) | Nearest Whole Dollar. | Dollar value of the insurance protection for the crop, taking into account the insured's elected coverage levels and share in the acreage. |
| Base Premium Rate | 42 | V9(08) | None | Base Premium Rate reported. |
| Map Factor | Internal | 9(01)V9(03) | None | See Exhibit 11-3. |
| Option Factor | Internal | $9(01) V 9(03)$ | None | *This factor is the result of Unit Option code (field 45) and Common Option code (field 46). Factor comes from ADM-0 record. If not applicable (spaces) factor equals $\mathbf{1 . 0 0 0}$. |
| Guarantee <br> Reduction Factor | 33 | V9(03) | None | Reduction Factor provided by company. |
| Total Premium | 55 | 9(10) | Nearest Whole Dollar | Unsubsidized premium. |
| Subsidy Factor | Internal | V9(03) | None | Subsidy Factor determined using Exhibit 11-11, page 2. |
| Subsidy | 56 | 9(10) | Whole Dollar | Amount of Total Premium that is subsidized. |
| Producer Premium | 61 | 9(10) | Nearest Whole Dollar | Amount of premium charged to the producer (farmer). |

# Dollar Amount of Insurance Crops (Insurance Plan Code 46) 

Avocados (0019)

Farmer Approved Average Revenue =
(Average Per Acre Revenue : County Average Per Acre Revenue) * Long Term County Average Revenue (Type 15 Record)
(Type 15 Record)

## DOLLAR AMOUNT OF INSURANCE

## IF COVERAGE FLAG = A:

Dollar Amount of Insurance $=$ Farmer Approved Average Revenue $*$ Coverage Level

IF COVERAGE FLAG $=\mathrm{C}$ :
Dollar Amount of Insurance $=$ Farmer Approved Average Revenue * Coverage Level * . 55
(Note 7)
(Note 7)

## TOTAL GUARANTEE

Total Guarantee = Dollar Amount of Insurance * Reported Acres
(Note 7) (Note 7) (Note 5)

## LIABILITY

Liability $=$ Total Guarantee $*$ Insured Share
(Note 7) (Note 7)

## TOTAL PREMIUM

IF COVERAGE FLAG $=\mathrm{C}$, THEN:
Total Premium = Liability * Base Premium Rate * Unit Option Factor * (1.00 + Premium Rate Surcharge)
(Note 7) (Note 7) (@ 50\% rate)

IF COVERAGE FLAG = A, THEN:
Total Premium $=$ Liability * Base Premium Rate * Unit Option Factor * (1.00 + Premium Rate Surcharge)
(Note 7) (Note 7)

| November 18, 2002 <br> Type 11-Dhibit 11-11 <br> - Dollar Amount of Insurance Guarantee/Liability/Premium Calculations <br> Edit Description | FCIC-M13 |
| :---: | :---: |
|  |  |

## PRODUCER PREMIUM



| November 18, 2002 <br> Type 11 - Dollar Amount of Insurance Guarantee/Liability/Premium Calculations <br> Edit Description | FCIC-M13 |
| :---: | :---: | :---: |
|  |  |


| Field Name | Field <br> Number | Picture | Rounding | Description |
| :---: | :---: | :---: | :---: | :---: |
| Dollar Amount of Insurance | 29 | 9(08)V9(02) | Nearest Whole Dollar. | Calculated Farmer Approved Average Revenue * Coverage Level |
| Coverage Level | 31 | 9(01)V9(04) | None | Coverage Level reported. |
| Reported Acres | 34 | 9(06)V9(02) | To Tenths. | Number of acres reported. |
| Total Guarantee | 35 | 9(08)V9(02) | Nearest Whole Dollar. | Total dollar guarantee for the current acreage line (Type 11). |
| Insured Share | 38 | 9(01)V9(03) | None | Insured share reported. |
| Liability | 39 | 9(10) | Nearest Whole Dollar | Dollar value of the insurance protection for the crop, taking into account the insured's elected coverage levels and share in the acreage. |
| Base Premium Rate | 42 | V9(08) | None | From ADM A. |
| Unit Option Code | 45 | $\mathbf{X ( 0 2 )}$ | None | If the Unit Option Code (Field 45) is not spaces, the Option Factor comes from ADM-O record. If the Unit Option Code is spaces, the Option Factor $=1.000$. |
| Total Premium | 55 | 9(10) | Nearest Whole Dollar | Unsubsidized premium. |
| Subsidy Factor | Internal | V9(03) | None | Subsidy Factor determined using Exhibit 11-11, page 2. |
| Subsidy | 56 | 9(10) | Whole Dollar | Amount of Total Premium that is subsidized. |
| Producer Premium | 61 | 9(10) | Nearest Whole Dollar | Amount of premium charged to the producer (farmer). |

# November 18, 2002 <br> Type 11 - Dollar Amount of Insurance Guarantee/Liability/Premium Calculations Edit Description <br> Dollar Amount of Insurance Crops <br> (Insurance Plan Code 41) 

Pecans (0020)

## DOLLAR AMOUNT OF INSURANCE

IF COVERAGE FLAG $=\mathrm{L}$ or A :
Dollar Amount of Insurance $=$ Yield from the T-11 * Coverage Level Percent (Note 7) (Field 28) (Field 31) (Note 7)

IF COVERAGE FLAG $=\mathrm{C}$ :
Dollar Amount of Insurance $=$ Yield from the T-11 * Coverage Level Percent * 55
(Note 7)
(Field 28)
(Field 31)
(Note 7)

## GUARANTEE PER ACRE

Guarantee Per Acre = Dollar Amount of Insurance * Guarantee Reduction Factor (Note 7) (Note 7)

## TOTAL GUARANTEE

Total Guarantee $=$ Guarantee Per Acre * Reported Acres (Note 7)
(Note 7)
(Note 5)

## LIABILITY

Liability $=$ Total Guarantee * Insured Share
(Note 7) (Note 7)

## TOTAL PREMIUM

$\begin{aligned} \text { Total Premium } & =\text { Liability } * \text { Base Premium Rate } * \text { Map Factor * Option Factor } \\ (\text { Note } 7) & (\text { Note } 7)\end{aligned}$

| November 18, 2002 <br> Type 11 - Dollar Amount of Insurance Guarantee/Liability/Premium Calculations <br> Edit Description | FCIC-M13 |
| :--- | :---: |
|  |  |

## PRODUCER PREMIUM

| Subsidy$=$ | Total Premium <br> (Field 56) <br> (Field 55) | Subsidy Factor |
| :--- | :--- | :--- | :--- |
| (Note 7) | (Note 7) | (Note 8) |

Producer Premium $=$ Total Premium - Subsidy
(Field 61)
(Note 7)
(Field 55) (Note 7)
(Field 56)
(Note 7)


| Field Name | Field <br> Number | Picture | Rounding | Description |
| :---: | :---: | :---: | :---: | :---: |
| Dollar Amount of Insurance | 29 | $9(08) \mathrm{V9}(02)$ | Nearest Whole Dollar. | Selected Dollar Amount of Insurance reported. |
| Guarantee <br> Reduction Factor | 33 | V9(03) | None | Guarantee reduction factor. See Exhibit 11-1. |
| Guarantee Per Acre | 32 | $9(08) \mathrm{V9}(02)$ | Nearest Whole Dollar. | Guarantee dollar amount of insurance per acre. |
| Reported Acres | 34 | 9(06)V9(02) | To tenths. | Number of acres reported. |
| Total Guarantee | 35 | 9(08)V9(02) | Nearest Whole Dollar. | Total dollar guarantee for the current acreage line (Type 11). |
| Insured Share | 38 | 9(01)V9(03) | None | Insured share reported. |
| Liability | 39 | $9(10)$ | Nearest Whole Dollar. | Dollar value of the insurance protection for the crop, taking into account the insured's elected coverage levels and share in the acreage. |
| Base Premium Rate | 42 | V9(08) | None | Base Premium Rate reported. |
| Map Factor | Internal | $9(01) \mathrm{V9}(03)$ | None | If the Map Area (Field 19) is not spaces, the map factor comes from ADMH Map Factor. If the Map Area is spaces, the map factor $=1.000$. |
| Option Factor | Internal | $9(01) \mathrm{V9}(03)$ | None | This factor is the result of Unit Option Code (field 45) and Common Option Code (field 46) from ADM 0 record. If not applicable (spaces) factor equals 1.000 . |
| Total Premium | 55 | 9(10) | Nearest Whole Dollar | Unsubsidized premium. |
| Subsidy Factor | Internal | V9(03) | None | Subsidy Factor determined using Exhibit 11-11, page 2. |
| Subsidy | 56 | 9(10) | Whole Dollar | Amount of Total Premium that is subsidized. |
| Producer Premium | 61 | 9(10) | Nearest Whole Dollar | Amount of premium charged to the producer (farmer). |

# YIELD BASE DOLLAR AMOUNT OF INSURANCE (Insurance Plan Code 55) 

## HYBRID SEED CORN (0062)

HYBRID SEED SORGHUM (0050)

## Guarantee Per Acre

To Calculate Yield: (County Yield from FCI-35 * Coverage Level Percent Factor) - Minimum Payment (in bushels) (Note 5)

Guarantee Per Acre $=$ Yield * Price Election
(Note 7)
If Late or Prevented Planing applies, then;
Guarantee Per Acre $=($ Yield * Price Election $) *$ Guarantee Reduction Factor (Note 7)

## Total Guarantee

Total Guarantee $=$ Guarantee Per Acre * Reported Acres (Note 7)
(Note 7)
(Note 3)

## $\underline{\text { Liability }}$

Liability $=$ Total Guarantee * Insured Share
(Note 7) (Note 7)

## Total Premium

Premium Guarantee Per Acre $=$ Yield * Price Election Amount (If HS Option elected, price should reflect higher of MPCI or HPSE price)


```
November 18, 2002
Type 11 - Yield Base Dollar Amount of Insurance Guarantee/Liability/Premium Calculations Edit Description
```


## Producer Premium

| Subsidy |
| :--- |
| (Field 56) |$=\quad \underset{\text { Total Premium }}{\text { (Field 55) }} \quad *$

(Note 7) $\quad$| Subsidy Factor |
| :---: |
| (Note 8) |

| Producer Premium $=$ | Total Premium |  |
| :--- | :---: | :--- |
| $($ Field 61 $)$ | $($ Field 55 $)$ | Subsidy <br> $($ Field 56) |
| $($ Note 7) | $($ Note 7) | $($ Note 7) |



| Field Name | Field <br> Number | Picture | Rounding | Description |
| :---: | :---: | :---: | :---: | :---: |
| Yield | 28 | 9(08)V9(02) | None | County Yield from FCI-35. |
| Coverage Level | 31 | 9(01)V9(04) | None | 50, 55, 60, 65, 70, 75 |
| Price Election Amount | 36 | 9(04)V9(04) | None | Price election submitted. |
| Premium Guarantee Per Acre | Internal | 9(06)V9(02) | Whole Dollars | Dollar guarantee per acre without any late or prevented planting reductions. It is used as the basis for premium calculation. |
| Guarantee Reduction Factor | 33 | V9(03) | None | Guarantee reduction factor reported. |
| Adjusted <br> Guarantee Per Acre | 32 | 9(06)V9(02) | Whole Dollars | Dollar guarantee per acre. |
| Guarantee Per Acre | 32 | 9(06)V9(02) | Whole Dollars | Dollar guarantee per acre. |
| Reported Acres | 34 | 9(06)V9(02) | To tenths | Number of acres reported. |
| Total Guarantee | 35 | 9(08)V9(02) | Nearest Whole Dollar | Total dollar guarantee for the current acreage line (Type 11) after any late or prevented planting reductions are taken. |
| Premium Guarantee | Internal | $9(08) \vee 9(02)$ | Whole Dollars | Total dollar guarantee for the current acreage line (Type 11) without any late or prevented planting reductions. It serves as a basis for the premium calculation. |
| Insured Share | 38 | 9(01)V9(03) | None | Insured share reported. |
| Liability | 39 | 9(10) | Nearest Whole Dollar | Dollar value of the insurance protection for the crop, taking into account the insured's elected coverage levels and share in the acreage after any reductions due to late or prevented planting. |
| Premium Liability | Internal | 9(09) | Nearest Whole Dollar | Dollar value of the insurance protection for the crop, taking into account the insured's elected coverage levels and share in the acreage without any reductions due to late or prevented planting. This becomes the basis for premium calculations. |

Type 11 - Yield Base Dollar Amount of Insurance Guarantee/Liability/Premium Calculations Edit Description

| Field Name | Field <br> Number | Picture | Rounding | Description |
| :---: | :---: | :---: | :---: | :---: |
| Base Premium Rate | 42 | V9(08) | None | Base Premium Rate reported. |
| Map Factor | Internal | 9(01)V9(03) | None | See Exhibit 11-3. |
| Rate Class Option Factor | 47 | $\mathbf{X}(20)$ | None | If the Option Code (field 47) is not equal to spaces, the Rate Class Option Factor comes from ADM R Rate Class Option Record. If the Rate Class Option Code is equal to spaces, the Type/Practice Option Factor = 1.000 . |
| Option Factor | Internal | 9(01)V9(03) | None | This factor is the result of Unit Option Code (field 45) and Common Option Code (field 46) from ADM 0 record. If not applicable (spaces) factor equals 1.000 . |
| Experience Factor | 48 | 9(01)V9(03) | None | Experience Factor reported. |
| Total Premium | 55 | 9(10) | Nearest Whole Dollar | Unsubsidized premium. |
| Subsidy Factor | Internal | V9(03) | None | Subsidy Factor determined using Exhibit 11-11, page 2. |
| Subsidy | 56 | 9(10) | Whole Dollar | Amount of Total Premium that is subsidized. |
| Producer Premium | 61 | 9(10) | Nearest Whole Dollar | Amount of premium charged to the producer (farmer). |

## GRP <br> (Insurance Plan Code 12)

Wheat (0011) Cotton (0021)
Corn (0041)
Barley (0091)
Soybeans (0081)
Rangeland (0048)

Peanuts (0075)
Grain Sorghum (0051)
Forage Production (0033)

## TOTAL GUARANTEE

Dollar Amount of Insurance must be $\$ \mathbf{6 0 \%}$ of the Maximum Protection per Acre and $\mathbf{\# 1 0 0 \%}$ of the Maximum Protection per Acre.

Total Guarantee $=$ Dollar Amount of Insurance * Reported Acres
(Note 7)
(Note 9)
(Note 3)

## LIABILITY

Liability $=$ Total Guarantee * Insured Share
(Note 7) (Note 7)

## TOTAL PREMIUM

Total Premium = Liability * Base Premium Rate(the ADM rate divided by 100)

## PRODUCER PREMIUM

| Subsidy |
| :--- |
| (Field 56) |$\quad$| Total Premium |
| :--- |
| (Field 55) |$\quad$ (Note 8)

(Note 7)
(Note 7)

| Producer Premium $=$ | Total Premium |  |
| :--- | :--- | :--- |
| (Field 55) | Subsidy <br> (Field 56) |  |
| (Note 7) | (Note 7) | (Note 7) |

Type 11 - GRP/GRIP Guarantee/Liability/Premium Calculations Edit Description

| Field Name | Field <br> Number | Picture | Rounding | Description |
| :--- | :--- | :--- | :--- | :--- |
| Dollar Amount of <br> Insurance | 29 | $9(08) \mathrm{V} 9(02)$ | Dollars and Cents | Selected protection per acre. 60 to <br> $100 \%$ of maximum price. CAT is <br> $65 / 45$. |
| Reported Acres <br> Total Guarantee | 34 <br> 35 | $9(06) \mathrm{V} 9(02)$ <br> $9(08) \mathrm{V} 9(02)$ | To tenths. <br> Nearest Whole Dollar. <br> (GRP Rangeland only- <br> Dollars and Cents) | Number of acres reported. <br> Total dollar guarantee for the <br> current acreage line (Type 11). |
| Insured Share | 38 | $9(01) \mathrm{V9(03)}$ | None | Insured share reported. |
| Liability | 39 | $9(10)$ | Nearest Whole Dollar. | Dollar value of the insurance <br> protection for the crop, taking into <br> account the insured's elected <br> coverage levels and share in the <br> acreage. |
| Base Premium Rate | 42 | $\mathrm{V9(08)}$ | None | Base Premium Rate per Dollar. <br> (ADM premium rate divided by <br> 100). |
| Total Premium | 55 | $9(10)$ | Nearest Whole Dollar | Unsubsidized premium. <br> Subsidy Factor <br> Internal <br> V9(03) |
| None | Subsidy Factor determined using <br> Exhibit 11-11, page 2. |  |  |  |
| Subsidy | 56 | $9(10)$ | Nearest Whole Dollar | Amount of Total Premium that is <br> subsidized. |


| November 18, 2002 | Exhibit 11-11 | FCIC-M13 |
| :--- | :---: | :---: |
|  | Type 11-Quota Tobacco Guarantee/Liability/Premium Calculations |  |

## QUOTA TOBACCO

(Insurance Plan Code 70)
Burley Tobacco (0231)

## Total Guarantee (Use the Lesser of) If No Late Planting:

```
Total Guarantee \(=\) Quota * Coverage Level Percent * Price Election
    (Note 7)
    Or:
Total Guarantee \(=\) Farm Yield \(*\) Coverage Level Percent * Price Election * Acres
    (Note 7)
```


## Total Guarantee (Use the Lesser of) If Late Planting Applies:

```
Total Guarantee = Quota * Coverage Level Percent * Price Election
    (Note 7)
        Or:
Total Guarantee = Farm Yield * Coverage Level Percent * Guarantee Reduction Factor * Price Election * Acres
    (Note 7)
```


## $\underline{\text { Liability }}$

Liability $=$ Total Guarantee * Insured Share
(Note 7) (Note 7)

## Total Premium

## Premium Total Guarantee (Use the Lesser of)

Premium Total Guarantee $=$ Quota * Coverage Level Percent * Price Election
(Note 7)

> Or:

Premium Total Guarantee $=$ Farm Yield $*$ Coverage Level Percent $*$ Price Election * Acres
(Note 7)
Premium Liability $=$ Premium Total Guarantee * Insured Share
(Note 7) (Note 2)
Total Premium = Premium Liability * Base Premium Rate * Map Factor * Rate Class Option Factor * (Note 7) (Note 7)

> Option Factor * Experience Factor * (1 + Premium Rate Surcharge \%)

| November 18, 2002 | Exhibit 11-11 | FCIC-M13 |
| :--- | :---: | :---: |
|  | Type 11-Quota Tobacco Guarantee/Liability/Premium Calculations |  |
| Edit Description |  |  |

## Producer Premium



| November 18, 2002 <br> Type 11 - Florida Fruit and Tro |  |  | hibit 11-11 <br> ees Guarantee/Liability Description | (FCIC-M13 |
| :---: | :---: | :---: | :---: | :---: |
| Field Name | Field | Picture | Rounding | Description |
|  | Number |  |  |  |
| Quota | 30 | 9(10) | Whole Pounds | Quota pounds by line. |
| Coverage Level | 31 | 9(01)V9(04) | None | Coverage level reported. |
| Price Election Amount | 36 | 9(04)V9(04) | None | Price election reported. |
| Guarantee Reduction Factor | 33 | V9(03) | None | Applicable guarantee reduction percent for late planting. |
| Total Guarantee | 35 | 9(08)V9(02) | Nearest Whole Dollar | Total dollar guarantee for the current acreage line (Type 11) after any late planting reductions are taken. |
| Premium Guarantee | Internal | 9(08)V9(02) | Nearest Whole Dollar | Total guarantee for the current acreage line (Type 11) without any late planting reductions. It serves as a basis for the premium calculations. |
| Insured Share | 38 | 9(01)V9(03) | None | Insured share reported. |
| Liability | 39 | 9(10) | Nearest Whole Dollar | Dollar value of the insurance protection for the crop, talking into account the insured's elected coverage levels and share in the acreage after any yield reductions due to late planting. |
| Premium Liability | Internal |  | Nearest Whole Dollar | Dollar value of the insurance protection for the crop, talking into account the insured's elected coverage levels and share in the acreage without any yield reductions due to late planting. This becomes the basis for premium calculations. |
| Base Premium Rate | 37 |  | None | Base Premium Rate reported. |
| Map Factor | Internal | , | None | See Exhibit 11-3. |
| Option Factor | Internal |  | None | This factor is the result of Unit Option Code (field 45) and Common Option Code (field 46) from ADM 0 record. If not applicable (spaces) factor equals 1.000. |
| Experience Factor | 41 | 9(01)V9(02) | None | Experience Factor reported. |
| Total Premium | 43 | 9(08) | Nearest Whole Dollar | Unsubsidized premium. |
| Subsidy Factor | Internal | V9(03) | None | Subsidy Factor determined using Exhibit 11-11, page 2. |
| Subsidy | 56 | 9(10) | Whole Dollar | Amount of Total Premium that is subsidized. |
| Producer Premium | 44 | 9(08) | Nearest Whole Dollar | Amount of premium charged to the producer (farmer). |


| November 18, 2002 <br> Type 11-Florida Fruit and Tropical Trees Guarantee/Liability/ <br> Edit Description |
| :--- |
| Florida Fruit and Tropical Trees |

## Florida Fruit and Tropical Trees

(Insurance Plan Code 40)
See Exhibit 11-2 for crop codes.

## TOTAL GUARANTEE

Total Guarantee $=$ Price Election * Coverage Level * Estimated Number of Trees
(Note 7)
(Selected)

## LIABILITY

Liability = Total Guarantee * Insured Share
(Note 7) (Note 7)

## TOTAL PREMIUM

Total Premium = Liability * Base Premium Rate * Proration Factor * Option Factor
(Note 7) (Note 7) (ADM-N(F)) (ADM-O)

## PRODUCER PREMIUM

| Subsidy |
| :--- |
| (Field 56) |$\quad$| Total Premium |
| :--- |
| (Field 55) |$\quad$| Subsidy Factor |
| :--- |
| (Note 7) |$\quad$ (Note 7)


| Producer Premium $=$ | Total Premium |  |
| :--- | :--- | :--- |
| (Field 61) | (Field 55) | Subsidy |
| (Field 56) |  |  |
| (Note 7) | (Note 7) | (Note 7) |

Type 11 - Florida Fruit and Tropical Trees Guarantee/Liability/Premium Calculations Edit Description

| Field Name | Field <br> Number | Picture | Rounding | Description |
| :---: | :---: | :---: | :---: | :---: |
| Price Election Amount | 36 | 9(04)V9(04) | Nearest Dollar and Cents. | Maximum price for growth stage times price election percent. |
| Coverage Level | 31 | 9(01)V9(04) | None | Coverage Level reported. |
| Estimated Number of Trees | 30 | 9(10) | None | Estimated number of trees by crop code. |
| Total Guarantee | 35 | 9(08)V9(02) | Nearest Dollar. | Total guarantee for the current acreage line (Type 11). |
| Insured Share | 38 | 9(01)V9(03) | None | Insured share reported. |
| Liability | 39 | 9(10) | Nearest Whole Dollar. | This is the dollar value of the insurance protection for the crop, taking into account the insured's elected coverage levels and share. |
| Base Premium Rate | 42 | V9(08) | None | Base Premium Rate reported. |
| Option Factor | Internal | 9(01)V9(03) | None | This factor is the result of Unit Option Code (field 45) and Common Option Code (field 46) from ADM 0 record. If not applicable (spaces) factor equals 1.000 . |
| Total Premium | 55 | 9(10) | Nearest Whole Dollar | Unsubsidized premium. |
| Subsidy Factor | Internal | V9(03) | None | Subsidy Factor determined using Exhibit 11-11, page 2. |
| Subsidy | 56 | 9 (10) | Whole Dollar | Amount of Total Premium that is subsidized. |
| Producer Premium | 61 | 9(10) | Nearest Whole Dollar | Amount of premium charged to the producer (farmer). |


| November 18, 2002 | Exhibit 11-11 | FCIC-M13 |  |
| :--- | :--- | :---: | :---: |
|  | Type 11-Income ProtectionGuarantee/Liability/Premium Calculations <br> Edit Description |  |  |
|  |  |  |  |

Income Protection
(Insurance Plan Code 42)

| Wheat (0011) | Cotton (0021) | Corn (0041) |
| :--- | :--- | :--- |
| Grain Sorghum (0051) | Soybeans (0081) | Barley (0091) |

Barley (0091)

## Indexed Income Protection (Insurance Plan Code 45)

## Dollar Amount of Insurance

## Dollar Amount of Insurance = (Yield * Coverage Level Percent) * Price Election Amount

(Note 9)
(Note 1)
If Late or Prevented Planting applies, then;
Dollar Amount of Insurance = (Yield * Coverage Level Percent) * Price Election Amount * Guarantee Reduction Factor
(Note 9)
(Note 1)

## Total Guarantee

Total Guarantee $=$ Dollar Amount of Insurance * Acres
(Note 7)
(Note 9)

## LIABILITY

Liability = Total Guarantee * Share
(Note 7) (Note 7)

## TOTAL PREMIUM

Premium Dollar Amount of Insurance = (Yield * Coverage Level Percent) * Price Election Amount
(Note 9) (Note 1)

Premium Total Guarantee $=$ Premium Dollar Amount of Insurance * Acres
(Note 7)
(Note 9)
Premium Liability $=$ Premium Total Guarantee * Share
(Note 7)
(Note 7)

Total Premium = Premium Liability * Base Prem Rate * Rate Class Option Factor * Option Factor * Experience Factor
(Note 7) (Note 7)

| November 18, 2002 | Exhibit 11-11 | FCIC-M13 |
| :--- | :---: | :---: |
|  | Type 11-Income ProtectionGuarantee/Liability/Premium Calculations <br> Edit Description |  |

## Producer Premium

| Subsidy |
| :--- |
| (Field 56) |


| Total Premium |
| :--- |
| (Note 7) |

(Field 55)

(Note 7) $\quad$| Subsidy Factor |
| :--- |
| (Note 8) |

${ }^{1}$ Plan Code 42 crops may go up to $\mathbf{8 5 \%}$ coverage level. Plan code 45 crops may only go up to $\mathbf{7 5 \%}$ coverage level.

| November 18, 2002 | Exhibit 11-11 | FCIC-M13 |
| :---: | :---: | :---: |
|  | Type 11-Income Protection Guarantee/Liability/Premium Calculations |  |


| Field Name | Field <br> Number | Picture | Rounding | Description |
| :---: | :---: | :---: | :---: | :---: |
| Total Guarantee | 35 | 9(08)V9(02) | Nearest Dollar. | This is the total guaranteed yield for the current acreage line (Type 11). |
| Dollar Amount of Insurance | 29 | 9(08)V9(02) | Nearest Dollar and Cents. | Dollar Amount of Insurance reported. |
| Guarantee Reduction Factor | 33 | V9(03) | None | Guarantee Reduction Factor. See Exhibit 11-1. |
| Reported Acres | 34 | 9(06)V9(02) | None | Number of acres reported. |
| Liability | 39 | 9(10) | Nearest Whole Dollar | Dollar value of the insurance protection for the crop, taking into account the insured's elected coverage level and share in the acreage after any reductions for late or prevented planting. |
| Insured Share | 34 | 9(01)V9(03) | None | Insured share reported. |
| Base Premium Rate | 37 | 9(04)V9(04) | None | Base Premium Rate reported. |
| Option Factor | Internal | 9(01)V9(03) | None | This factor is the result of Unit Option Code (field 45) and Common Option Code (field 46) from ADM 0 record. If not applicable (spaces) factor equals 1.000 . |
| Total Premium | 55 | 9(10) | Nearest Whole Dollar | Unsubsidized premium. |
| Subsidy Factor | Internal | V9(03) | None | Subsidy Factor determined using Exhibit 11-11, page 2. |
| Subsidy | 56 | 9(10) | Whole Dollar | Amount of Total Premium that is subsidized. |
| Producer Premium | 61 | 9(10) | Nearest Whole Dollar | This is the amount of premium the producer (farmer) will have to pay. |


| November 18, 2002 | Exhibit 11-11 | FCIC-M13 |
| :---: | :---: | :---: |
|  | Type 11-Revenue Assurance |  |
|  |  |  |
| Edit Description |  |  |

## Revenue Assurance (RA) Crops <br> (Insurance Plan Code 25)

Wheat (0011) Corn (0041)
Canola (0015) $\underset{\text { Barley (0091) }}{\text { Sunflowers (0078) }} \quad$ Soybeans (0081)

## TOTAL GUARANTEE



| Total Guarantee $=$ | Guarantee Per Acre |  |
| :--- | :--- | :--- |
| (Field 35) Reported Acres <br> (Field 32) (Field 34) |  |  |
| (Note 7) | (Note 9) |  |

## LIABILITY

Liability = Total Guarantee * Insured Share
(Field 39) (Field 35) (Field 38)
(Note 7) (Note 7)

## TOTAL PREMIUM

Loaded Premium Per Acre = Base Premium Rate * Optional Coverage Factor * Dollar Amount of Insurance (Field 44)
(Field 42)
(Field 29)
(Note 9)
(Note 9)

Total Premium = Loaded Premium Per Acre * Reported Acres * Insured Share * Unit Premium Adjustment Factor (Field 55)
(Field 34)
(Field 38)
(Optional Units only)

## (Note 7)

(Note 9)

| November 18, 2002 | Exhibit 11-11 | FCIC-M13 |
| :---: | :---: | :---: |
|  | Type 11 - Revenue Assurance |  |
|  |  |  |
| Edit Description |  |  |

## PRODUCER PREMIUM



Note: Loaded Premium Per Acre and Base Premium Rate should be the same for all records of EU or WU unless short rate adjustment or yield floor option codes (FO \& FN).

The Base Premium Rate according to RA 'programming instructions' for 2002.

Type 11 - Revenue Assurance Guarantee/Liability/Premium Calculations Edit Description

| Field Name | Field <br> Number | Picture | Rounding | Description |
| :---: | :---: | :---: | :---: | :---: |
| Dollar Amount of Insurance | 29 | 9(08)V9(02) | Nearest Dollar and Cents. | Dollar Amount of Insurance reported. |
| Guarantee <br> Reduction Factor | 33 | V9(03) | None | Guarantee Reduction Factor for late or prevented planting. |
| Guarantee Per Acre | 32 | 9(08)V9(02) | Nearest Dollar and Cents. | Dollar amount of insurance per acre after any reductions for late or prevented planting. |
| Reported Acres | 34 | 9(06)V9(02) | To Tenths. | Number of acres reported. |
| Total Guarantee | 35 | 9(08)V9(02) | Nearest Whole Dollar. | This is the total guaranteed yield for the current acreage line (Type 11) after any late or prevented planting reductions are taken. |
| Insured Share | 38 | 9(01)V9(03) | None | Insured share reported. |
| Liability | 39 | 9(10) | Nearest Whole Dollar. | Dollar value of the insurance protection for the crop, taking into account the insured's elected coverage levels and share in the acreage after any reductions due to late or prevented planting. |
| Base Premium Rate | 42 | V9(08) | None | The Base Premium Rate according to RA programming instructions rounded to 4 decimal places with 4 trailing zeros. |
| Optional Coverage Factor | Internal | 9(01)V9(03) | None | If Common Option Codes (field 46) do not equal spaces, the Option Factor from ADM K for prevented planting and short rate adjustment. If Common Option Codes are spaces, the Option Coverage Factor(s) $=\mathbf{1 . 0 0 0}$. |
| Loaded Premium Per Acre | 44 | $9(04) V 9(04)$ | Nearest Dollar and Whole Cents | The Loaded Premium Per Acre according to RA 'programming instructions'. Decimal places $3^{\text {rd }}$ and $4^{\text {th }}$ will be zeros. |
| Unit Premium Adjustment Factor | 50 | 9(01)V9(04) | None | Unit Premium Adjustment Factor reported. |
| Total Premium | 55 | 9(10) | Nearest Whole Dollar | Unsubsidized premium. |
| Subsidy Factor | Internal | V9(03) | None | Subsidy Factor determined using Exhibit 11-11, page 2. |
| Subsidy | 56 | 9(10) | Whole Dollar | Amount of Total Premium that is subsidized. |
| Producer Premium | 61 | 9(10) | Nearest Whole Dollar | Amount of premium charged to the producer (farmer). |


| November 18, 2002 | Exhibit 11-11 | FCIC-M13 |
| :---: | :---: | :---: |
|  | Type 11 - Revenue Assurance Guarantee/Liability/Premium Calculations Edit Description |  |


| UNIT <br> STRUCTURE | UNIT <br> PREMIUM ADJ <br> (NO. 50) |
| :--- | :---: |
| Basic, Enterprise, Whole Farm | 1.000 |
| Optional | 1.100 |

## Crop Revenue Coverage Crops (Insurance Plan Code 44)

Corn (0041)
Soybeans (0081)

Wheat (0011) Grain Sorghum (0051)
Cotton (0021) Rice (0018)

## GUARANTEE PER ACRE

| Guarantee Per Acre | $=$Yield <br> (Field 28) |
| :---: | :--- |
| (Note 1) | $*$ |
| (Note 2) |  |$\quad$| Coverage Level |
| :--- |
| (Field31) |

If Late or Prevented Planting applies, then
(Field 28) (Field 31)
Coverage Level *
Guarantee Reduction Factor
(Note 2)

## TOTAL GUARANTEE

## Total Guarantee = Guarantee Per Acre * Reported Acres <br> (Field 35) <br> (Field 32) <br> (Note 1) <br> (Field 34) <br> (Note 3)

## LIABILITY

Liability $=$ Total Guarantee * Price Election Amount * Insured Share
(Field 39) (Field 35) (Field 36) (Field 38)
(Note 7) (Note 2)

## PREMIUM LIABILITY

| Premium Guarantee Per Acre | Yield <br> (Field 28) | Coverage Level <br> $($ Field 31) |
| :--- | :--- | :---: |
| (Note 1) | (Note 2) |  |

Premium Guarantee $=$ Premium Guarantee Per Acre * Reported Acres
(Field 34)
(Note 2)
(Note 1)
(Note 3)
Premium Liability $=$ Premium Guarantee * Price Election Amount * Insured Share
(Field 36)
(Note 7)
(Note 2)

## CONTINUOUS RATE CALCULATION

## Current Year's Yield Ratio = Yield/Current Year Reference Yield <br> (Field 28) <br> (Note 11) <br> (Note 2)

Current Year's Continuous Rating Base Rate = (Current Year Yield Ratio ** Current Year Exponent) * (Note 12)
(Note 11)
Current Year Reference Rate + Current Year Fixed Rate Load

Yield Span Base Rate = Yield Span Base Rate * 1.20
(Note 12)

## Prior Year's Yield Ratio = Yield $/$ Prior Year Reference Yield

(Field 28)
(Note 11)
(Note 2)
Prior Year's Continuous Rating Base Rate = ( ((Prior Year Yield Ratio ** Prior Year Exponent) *
(Note 12)
(Note 11)
Prior Year Reference Rate + Prior Year Fixed Rate Load) * $\mathbf{1 . 2 0}$

Preliminary Base Rate = lower of Current Year's Continuous Rating Base Rate,
(Field 43) (Note 10)
(Note 10)
Yield Span Base Rate, OR Prior Year's Continuous Rating Base Rate
(Note 10)
(Note 10)
Adjusted Base Rate=
(Note 12)
Greater of: (Preliminary Base Rate + Additional Coverage Rate) * Multiplicative Factor OR Designated Rate (Field 43) (Note 10)

## Type 11 - Crop Revenue Coverage/Liability/Producer Prem Calculations <br> Edit Description

Base Premium Rate $=$ Adjusted Base Rate * Coverage Level Rate Differential (Field 42)
(Note 12) (Note 10)

| Standard Deviation $=$ | Level 50: | $(1.44434394 *$ Base Premium Rate $)+0.40198673$ |
| :--- | :--- | :--- |
| $($ Note 10 $)$ | Level 55: | $(1.54650547 *$ Base Premium Rate $)+0.37456110$ |
|  | Level 60: | $(1.64841058 *$ Base Premium Rate $)+0.34460749$ |
|  | Level 65: | $(1.75040141 *$ Base Premium Rate $)+0.31214948$ |
|  | Level 70: | $(1.85281979 *$ Base Premium Rate $)+0.27715584$ |
|  | Level 75: | $(1.95603215 *$ Base Premium Rate $)+0.23953590$ |
|  | Level 80: | $(2.06046206 *$ Base Premium Rate $)+0.19912558$ |
|  | Level 85: | $(2.16664218 *$ Base Premium Rate $)+0.15565713$ |

Probability Variable T = Standard Deviation / (Standard Deviation + 0.33267 * (1-Coverage Level ))
(Note 10)
T Factor $=(0.4361836$ * Probability Variable T) $-(0.1201676 *$ Probability Variable T ** 2$)+$
(Note 10) (0.937298 * Probability Variable T ** 3)
Exponential Factor $=(2.71828183) * *(-0.5 *((1-$ Coverage Level $) /$ Standard Deviation $) * * 2)$
(Note 10)
CRC Base Rate $=0.39894228 *$ Coverage Level * (1-Base Premium Rate $) *$ Exponential Factor * T Factor (Note 10)

## YIELD, REVENUE \& PRICE CALCULATIONS

Yield Risk $=$ Premium Guarantee Per Acre * Base Premium Rate * Price Election Amount (Note 9) (Note 1)
(Field 36)
Revenue Risk = Premium Guarantee Per Acre * CRC Base Rate * CRC Low Price Factor (Note 9) (Note 1)

Price Risk $=$ Premium Guarantee Per Acre * Base Premium Rate * CRC High Price Factor (Note 9)
(Note 1)

## TOTAL PREMIUM



Unit Factor(s) * Optional Coverage Factor(s) * (1.00 + Premium Rate Surcharge \%) * Organic Premium Factor
(Field 49)

```
November 18,2002 Exhibit 11-11 FCIC-M13
    Type 11 - Crop Revenue Coverage/Liability/Producer Prem Calculations
    Edit Description
```


## PRODUCER PREMIUM

| Subsidy |
| :--- |
| (Field 56) | $\quad$| Total Premium |
| :--- |
| (Field 55) |$\quad * \quad$| Subsidy Factor |
| :--- |
| (Note 7) |$\quad$| (Note 7) |
| :--- |

Producer Premium = Total Premium - Subsidy
(Field 61) (Field 55) (Field 56)
(Note 7)
(Note 7)

Note: See Note 12 of exhibit 11-11 page 1 - Round to 8 decimal places, including each interim step.
Note: Additional Coverage Rate default . $\mathbf{0 0 0}$
Note: Multiplicative Factor default 1.000
Note: Designated Rate default $\mathbf{0 . 0 0 0}$
Note: Base Premium Rate maximum value 999
Note: Optional Coverage factor(s) if multiple factors, are valid.
Note: Unit Factor(s) for enterprise the basic unit discount (ADMK) and enterprise unit discount (Unit Premium Adjustment Factor ADM WC) will apply.


| Field Name | Field <br> Number | Picture | Rounding | Description |
| :---: | :---: | :---: | :---: | :---: |
| Yield | 28 | 9(08)V9(02) | Nearest whole bushel or pound | Yield reported. |
| Coverage Level | 31 | 9(01)V9(04) | None | Coverage Level reported. |
| Guarantee <br> Reduction Factor | 33 | V9(03) | None | Guarantee reduction factor for late or prevented planting. See Exhibit 11-1. |
| Guarantee Per Acre | 32 | $9(08) \mathrm{V} 9(02)$ | Nearest whole pound or tenth for bushel | Guaranteed yield per acre after any reduction for late or prevented planting. |
| Reported Acres | 34 | 9(06)V9(02) | Nearest tenth | Number of acres reported. |
| Total Guarantee | 35 | 9(08)V9(02) | Nearest whole pound or bushel | Total guaranteed yield for the current acreage line (Type 11) after any reduction for late or prevented planting. |
| Price Election Amount | 36 | 9(04)V9(04) | None | CRC Base Price reported. |
| Insured Share | 38 | 9(01)V9(03) | None | Insured Share reported. |
| Liability | 39 | 9(10) | Nearest whole dollar | Total Guarantee for the crop, taking into account the insured's elected coverage level and share in the acreage after any reduction for late or prevented planting. |
| Premium Guarantee Per Acre | Internal | 9(08)V9(02) | Nearest whole pound or nearest tenth for other units of measure. | Guaranteed yield per acre without any late or prevented planting reductions. It is used as the basis for premium calculation. |
| Premium Guarantee | Internal | $9(08) \mathrm{V} 9(02)$ | Nearest tenth for barrels or tons, nearest whole number for all other units of measure. | Total guaranteed yield for the current acreage line (Type 11) without any late or prevented planting reductions. Used for the premium calculation. |
| Premium Liability | Internal | $9(10)$ | Nearest Whole Dollar | Dollar value of the insurance protection for the crop, taking into account the insured's elected coverage levels and share in the acreage without any yield reductions due to late or prevented planting. Used for the premium calculations. |

Type 11 - Crop Revenue Coverage/Liability/Producer Prem Calculations

| Current Year <br> Reference Yield | Internal | 9(05)V9(02) | None | Reference yield from ADM 1C. |
| :---: | :---: | :---: | :---: | :---: |
| Current Year Yield Ratio | Internal | 9(07)V9(02) | Round to hundredth | Approved yield divided by the current year reference yield, CUP at 0.50 and CAP at 1.50. |
| Current Year Exponent | Internal | 9(02)V9(03) | None | The power (exponent ADM 1C) that yield ratio is raised in calculation of current year's uncapped base premium rate. |
| Current Year Reference Rate | Internal | 9(01)V9(03) | None | Reference rate from ADM 1C used in the calculation of current year's continuous rating base rate. |
| Current Year Fixed Rate Load | Internal | 9(01)V9(03) | None | Fixed rate load from ADM 1C used in the calculation of current year's continuous rating base rate. |
| Current Year's <br> Continuous <br> Rating Base Rate | Internal | V9(08) | Round to 8 decimal places, including each interim step. | The result of current year's yield ratio, exponent, reference rate and fixed rate load. |
| Yield Span Base Rate | Internal | 9(01)V9(03) | None | Yield span base rate from ADM 1 C used to calculate capped yield span base rate. |
| Capped Yield Span Base Rate | Internal | V9(08) | Round to 8 decimal places, including each interim step. | Yield span base rate capped at 1.20 . If the chosen county has no prior year yield and rate elements, this calculation will equal . 999. |
| Prior Year <br> Reference Yield | Internal | 9(05)V9(02) | None | Prior year reference yield from ADM 1C. |
| Prior Year Yield Ratio | Internal | 9(07)V9(02) | Round to hundredth. | Approved yield divided by the prior year reference yield. |
| Prior Year Exponent | Internal | 9(02)V9(03) | None | The power (exponent ADM 1C) that prior year yield ratio is raised in calculation of prior year's continuous rating base rate. |
| Prior Year Reference Rate | Internal | 9(01)V9(03) | None | Prior year reference rate from ADM 1C used in the calculation of prior year's continuous rating base rate. |
| Prior Year Fixed Rate Load | Internal | 9(01)V9(03) | None | Prior year fixed rate load from ADM 1C used in the calculation of prior year's continuous rating base rate. |
| Prior Year's Continuous Rating Base Rate | Internal |  | Round to 8 decimal places. | The result of prior year yield ratio, exponent, reference rate, and fixed rate load. |
| Preliminary Base Rate | 43 |  | Round to 8 decimal places. | The lower of current year's continuous rating base rate, capped yield span base rate, or prior year's continuous rating base rate. |

Type 11 - Crop Revenue Coverage/Liability/Producer Prem Calculations

| Additional Coverage Rate | Internal | 9(01)V9(03) | None | If Common Option Codes (field 46) is equal to WA or WB, the endorsement rate from ADM K. If map area (high risk) is not equal to spaces, the high risk rate from ADM F if rate method equal to " A ". Add endorsement rate and high risk rate if applicable. Otherwise default is 0.000 . |
| :---: | :---: | :---: | :---: | :---: |
| Multiplicative Factor | Internal | 9(02)V9(03) | None | If the map area (high risk) is not equal to spaces, the high risk rate from ADM F if rate method equal to "M". If equal to spaces the default is 1.000 . |
| Designated Rate | Internal | 9(01)V9(03) | None | If map area (high risk) is not equal to spaces, fixed rate from ADM F used in calculation of adjusted base rate if rate method equal to " F ". |
| Adjusted Base Rate | Internal | V9(08) | Round to 8 decimal places, including each interim step. | Base Premium Rate that has been adjusted for additional coverage and/or high risk. |
| Coverage Level Rate Differential | Internal | 9(01)V9(03) | None | Coverage level rate differential from ADM <br> 2. Used in the calculation of base premium rate. |
| Base Premium Rate | 42 | V9(08) | Round to 8 decimal places, including each interim step. | The greater of ((preliminary base rate + additional coverage rate) * multiplicative factor) or designated rate. |
| Standard <br> Deviation | Internal | V9(08) | Round to 8 decimal places | According to CRC Continuous Rating instructions. |
| Probability <br> Variable T | Internal | V9(08) | Round to 8 decimal places | Standard Deviation/ (Standard Deviation + 0.33267 * (1-Coverage Level Percent)) |
| T Factor | Internal | V9(08) | Round to 8 decimal places | 0.4361836 * Probability Variable T - <br> 0.1201676 * Probability Variable T ** 2 + <br> 0.937298 * Probability Variable T ** 3 |
| Exponential Factor | Internal | V9(08) | Round to 8 decimal places | $\begin{aligned} & (2.71828183) * *(-0.5 *((1-\text { Coverage } \\ & \text { Level Percent) }) \text { Standard Deviation }) * * 2) \end{aligned}$ |
| CRC Base Rate | Internal | V9(08) | Round to 8 decimal places | 0.398924228 * Coverage Level Percent * (1 <br> - Base Premium Rate) * Exponential Factor <br> * T Factor |
| Yield Risk | Internal | $9(04) \mathrm{V} 9(04)$ | Nearest Dollar \& Cents | Calculated Yield Risk. |
| CRC Low Price Factor | Internal | 9(04)V9(04) | None | CRC Low Price Factor on ADM-C. |

Type 11 - Crop Revenue Coverage/Liability/Producer Prem Calculations Edit Description

| Revenue Risk | Internal | $9(04) \mathrm{V} 9(04)$ | Nearest Dollar \& Cents | Calculated Revenue Risk. |
| :---: | :---: | :---: | :---: | :---: |
| CRC High Price <br> Factor | Internal | $9(04) \mathrm{V} 9(04)$ | None | CRC High Price Factor on ADM-C. |
| Price Risk | Internal | $9(04) \mathrm{V} 9(04)$ | Nearest Dollar \& Cents | Calculated Price Risk. |
| Unit Factor(s) | Internal | $9(01) \mathrm{V} 9(03)$ | None | The option factor from ADM K for OU and BU, ADM WC for EU. For enterprise the basic unit (BU) factor and enterprise unit (EU) factor (Unit Premium Adjustment Factors) will apply. |
| Optional <br> Coverage <br> Factor(s) | Internal | $9(01) \mathrm{V} 9(03)$ | None | If Common Option Codes (Field 46) do not equal spaces, the Option Factor from ADM K. If Common Option Codes are spaces, the Option Coverage Factor $(\mathrm{s})=1.000$. |
| Premium Rate Surcharge \% | Internal | $9(01) \mathrm{V} 9(02)$ | None | If the Premium Rate Surcharge Flag <br> (Field 49) is Y, the Premium Rate Surcharge $\%=0.05$. If the Premium Rate Surcharge Flag equals spaces, the Premium Rate Surcharge $\%=0.00$. |
| Total Premium | 55 | 9(10) | Nearest Whole Dollar | Unsubsidized CRC Risk Premium. |
| Subsidy Factor | Internal | V9(03) | None | Subsidy factor determined using Exhibit 1111, page 2. |
| Subsidy | 56 | $9(10)$ | Nearest Whole Dollar | Amount of Total Premium that is subsidized. |
| Producer <br> Premium |  | $9(10)$ | Nearest Whole Dollar | Amount of premium charged to the producer (farmer). |

## YIELD REQUIREMENTS/EDITS

Insurance Plans 12, 40, 50, 51 and 73:
None

## Insurance Plans 41 and 46:

Yield must match 15 record for approved yield. Yield edits occur in Type 15 record.

## Insurance Plans 10 and 30:

Yield must be on the FCI-35 APH Plan Production Guarantee and will edit with the rate class.

If FCI-2 agreement, no edit if written agreement flag and written agreement number.

## Insurance Plan 55:

Yield calculation is FCI-35 yield times Coverage Level Factor less minimum payment.
Yield edit: Yield must be $>0$ and $\leq$ ADM Yield * Coverage Level Factor.

## Insurance Plan 70:

Yield must equal FSA Farm Yield, Yield must be >0 and fall within ADM yield span.

Insurance Plans 42, 44, 45, 84, 86, 90 and 91:
Yield must match Type 15 record for approved yield. Yield edits occur in the Type 15 record. Yield must be $>0$ and fall within ADM1 R-Span rate classification.

## Insurance Plan 25:

Yield must match 15 record for approved yield. Yield edits occur in Type 15 record.

## Unit Premium Adjustment Factor

## Revenue Assurance

$\underline{\text { Basic Unit (Unit Option Code }=' \text { BU') }}$
Unit Premium Adjustment Factor $=\mathbf{1 . 0 0 0}$
Optional Unit (Unit Option Code $=$ ' $\mathbf{O U '}^{\prime}$ )
Unit Premium Adjustment Factor $=\mathbf{1 . 1 0 0}$

Unit Premium Adjustment Factor $=\mathbf{1 . 0 0 0}$

## CRC, Limited APH crops in Limited States \& Flue Cured Tobacco in

North Carolina

Enterprise Unit (Unit Option Code $=$ ' $\mathbf{E U}$ ')
Enterprise Units are offered for CRC, limited APH crops in limited states and Flue Cured Tobacco (0229) in North Carolina (plan code 30)

Unit Premium Adjustment Factors are in the Special Provisions on the ADM.

## All Other Crops/Insurance Plans

Unit Premium Adjustment Factor must be $=\mathbf{0 . 0 0 0}$

## Whole Farm Discount Factor

All Unit Organizations (Basic, Optional, Enterprise and Whole Farm) must = 1.000

## All Other Crops/Insurance Plans

Whole Farm Discount Factor must be $=\mathbf{0 . 0 0 0}$

