

Exhibit Name: Premium Calculation
 Exhibit Number: P11-13, Plans 16, 17
 Record Name: Acreage
 Record Code: P11

Reinsurance Year: 2020
 Version: Approved
 Release Date: 7/1/2019

Margin Protection (MP)

Insurance Plan Code 16 Margin Protection 17 Margin Protection with Harvest Price Option

Commodity Code 0011 Wheat 0018 Rice 0041 Corn 0081 Soybeans

| Calculations | Field Name | Record Number | Field Number | Field Format | Field Rounding | Rules |
|--------------|------------|---------------|--------------|--------------|----------------|-------|
|--------------|------------|---------------|--------------|--------------|----------------|-------|

Section 1: Dollar Amount of Insurance

| | | | | | | |
|--|----------------------------|----------|----|-------------|------------------|---|
| Dollar Amount of Insurance = $\frac{\text{Expected Revenue} * \text{Coverage Level Percent} * \text{Price Election Percent}}{\text{Price Election Percent}}$ | Dollar Amount of Insurance | Internal | | 99999999.99 | 2 decimal places | |
| | Coverage Level Percent | P14 | 34 | 9.99 | 2 decimal places | Coverage Level Percent in 5% increments as selected for MP. |
| | Price Election Percent | P14 | 35 | 9.99 | 2 decimal places | Protection Factor |
| | Expected Revenue | ADM | | 99999999.99 | None | Expected Revenue. Edit with ADM Price, "A00810." |

Section 2: Liability Calculation

| | | | | | | |
|--|------------------------|-----|-----|------------|------------------------|--|
| Total Guarantee Amount = Dollar Amount of Insurance * Reported Acreage | Total Guarantee Amount | P11 | 101 | 9999999999 | Round to whole number. | |
| | Reported Acreage | P11 | 48 | 9999999.99 | None | |
| Liability Amount = Total Guarantee Amount * Insured Share Percent | Liability Amount | P11 | 92 | 9999999999 | Round to whole number. | |
| | Insured Share Percent | P11 | 43 | 9.9999 | None | |

Section 3: Total Premium, Subsidy, and Producer Premium Calculation

Sections 3 and 4 will be used if base (companion) record does not have qualifying information for MP Net Premium.

| | | | | | | |
|--|----------------------------------|----------|----|-------------|------------------------|--|
| Preliminary Total Premium Amount = $\frac{\text{Reported Acreage} * \text{Base Rate} * \text{Price Election Percent}}{\text{Insured Share Percent}}$ | Preliminary Total Premium Amount | Internal | | 9999999999 | Round to whole number. | |
| | Base Rate | ADM | | 999999.9999 | None | Base Rate is Margin Protection Premium Amount Per Acre. Edit with ADM Area Rate, "A01135" and ADM Area Coverage Level, "A01130". |
| Total Premium Amount = Preliminary Total Premium Amount | Total Premium Amount | P11 | 93 | 9999999999 | Round to whole number. | |
| Subsidy Amount = Total Premium Amount * Subsidy Percent | Subsidy Amount | P11 | 91 | 9999999999 | Round to whole number. | If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 4 for subsidy calculations. |
| | Subsidy Percent | ADM | | 9.999 | None | Edit with ADM Subsidy Percent, "A00070". |
| Producer Premium Amount = Total Premium Amount - Subsidy Amount | Producer Premium Amount | P11 | 94 | 9999999999 | Round to whole number. | |

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Section 4: Premium Credit for MP Policies with Base Policy

MP policy has an associated base (companion) policy.
 Use Sections 3 and 4 when base (companion) record does not have qualifying information for MP Net Premium.

| | | | | | | |
|--|-----------------------------|----------|--|-------------|----------------------|--|
| $\text{Simple Average Annual Yield} = \frac{\sum_{i=1, \dots, N} \text{Average Annual Yield}(i)}{N}$ | Simple Average Annual Yield | Internal | | 99999999.99 | Round to 2 decimals. | Sum all average annual yields in the APH database for a type/practice unit divide by the number of yields. |
| | Average Annual Yield(i) | Internal | | 99999999.99 | Round to 2 decimals. | APH average annual yields for each year in the APH database. For Corn "0041" Type Silage "026", convert each Average Annual Yield (measured in tons) to bushels by dividing by 0.15 and rounding to the nearest whole number. |
| | N | Internal | | 99999 | Whole Number | Count of the yields in the APH database. |
| $\text{Simple Average County Yield} = \frac{\sum_{i=1, \dots, N} \text{Yield}(i)}{N}$ | Simple Average County Yield | Internal | | 99999999.99 | Round to 2 decimals. | Sum (county) yields for the same years that yields are reported for the unit and divide by the number of yields. |
| | Yield(i) | ADM | | 99999999.99 | Round to 2 decimals. | Yield(i) is the "Yield Amount" found in the ADM Historical Yield Trend, "A01115". |
| | N | Internal | | 99999 | Whole Number | Count of the yields in the APH database. |
| County Yield Deviation(i) = Yield(i) - Simple Average County Yield | County Yield Deviation(i) | Internal | | 999999.99 | Round to 2 decimals. | |
| Unit Yield Deviation(i) = Average Annual Yield(i) - Simple Average Annual Yield | Unit Yield Deviation(i) | Internal | | 999999.99 | Round to 2 decimals. | |
| Cross Product(i) = County Yield Deviation(i) * Unit Yield Deviation(i) | Cross Product(i) | Internal | | 999999.9999 | Round to 4 decimals | |
| Squared County Deviation(i) = County Yield Deviation(i) * County Yield Deviation(i) | Squared County Deviation(i) | Internal | | 999999.9999 | Round to 4 decimals | |

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|---|----------------------------|---------------|--------------|--------------|----------------------|---|
| Beta = $\frac{\sum \text{Cross Product}(i)}{\sum \text{Squared County Deviation}(i)}$ | Beta | Internal | | 999999.9999 | Round to 4 decimals | If calculated Beta < 0.3 or if N < 4, set Beta = 0.3 or if calculated Beta > 1.6, set Beta = 1.6. Step 13 of Parameter Example Exhibit P15-6. <i>Note: The sum of the cross product ($\sum \text{Cross Product}(i)$) and the sum of the squared county deviation ($\sum \text{Squared County Deviation}(i)$) should be rounded to 2 decimals before performing the beta calculation.</i> When there are zero (0) yield years with an approved actual yield type for MP then the Beta, Alpha, Sigma are NOT calculated for the MP P11 and the MP P11 is treated as a standalone MP P11. Credit will = 1. |
| Alpha = $\frac{\text{Simple Average Annual Yield} - \text{Beta} * \text{Simple Average County Yield}}$ | Alpha | Internal | | 999999.9999 | Round to 4 decimals | |
| Squared Yield Deviation(i) = $[\text{Average Annual Yield}(i) - \text{Alpha} - \text{Beta} * \text{Yield}(i)]^2$ | Squared Yield Deviation(i) | Internal | | 999999.9999 | Round to 4 decimals | |
| Sigma = $[\sum_{i=1, \dots, N} \text{Squared Yield Deviation}(i) / (N-2)]^{0.5}$ | Sigma | Internal | | 999999.9999 | Round to 4 decimals | If N < 4, Sigma = 0. |
| Trigger Margin Calculation: | | | | | | |
| Trigger Margin = $\text{Expected Margin} - (1 * (\text{Expected Revenue} * (1 - \text{Coverage Level Percent})))$ | Trigger Margin | Internal | | 99999999.99 | Round to 2 decimals. | |
| | Expected Margin | ADM | | 99999999.99 | Round to 2 decimals. | Expected Margin found in the ADM Price, "A00810". |

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Simulated MP Losses Calculation:

| | | | | | | |
|---|-------------------------------|----------|--|------------------|----------------------|---|
| <p>For t = 1 to n and j= 1 to 100</p> $\text{Margin Draw (t,j)} = \text{Detrended Yield(t)} * \text{Commodity Price Draw Quantity (t,j)} - \text{Input Cost Draw Quantity (t,j)}$ | Margin Draw | Internal | | 99999999.99 | Round to 2 decimals. | Note: Starting in 2018, the 't' is defined as 60 and will increase by one each year. |
| | n | ADM | | 99999999.99 | None | Beginning in 2018 'n' is defined as 60 and will increase by one each year going forward. |
| | Detrended Yield | ADM | | 9999999999.99 | None | Do not make calculations if Detrended Yields = 0, skip to next value. Detrended Yield found in the ADM Historical Yield Trend, "A01115". |
| | Commodity Price Draw Quantity | ADM | | 99999.9999999999 | None | Commodity Price Draw Quantity found in the ADM Draw Data, "A00615". |
| | Input Cost Draw Quantity | ADM | | 9999.999999999 | None | Input Cost Draw Quantity found in the ADM Draw Data, "A00615". |
| Counter = Counter + 1 | Counter | Internal | | 99999999.99 | Whole Number | Counter is set = 0 to begin the simulation. Do not increment counter when any County Detrended Yield = 0 or missing from ADM data. |
| When Insurance Plan Code Equals 16: | | | | | | |
| $\text{MP Gross Indemnity Draw(t,j)} = \text{MIN}(\text{MAX}[\text{Trigger Margin} - \text{Margin Draw(t,j)}, 0] * \text{Price Election Percent}, \text{Dollar Amount of Insurance})$ | MP Gross Indemnity Draw(t,j) | Internal | | 99999999.99 | Round to 2 decimals. | |
| When Insurance Plan Code equals 17: | | | | | | |
| $\text{MP Gross Indemnity Draw(t,j)} = \text{MIN}(\text{MAX}(\text{Coverage Level Percent} * \text{Expected County Yield} * \text{MAX}(\text{Projected Price}, \text{Commodity Price Draw Quantity(t,j)}) - \text{Expected Revenue} + \text{Expected Margin} - \text{Margin Draw(t,j)}, 0) * \text{Price Election Percent}, \text{Dollar Amount of Insurance})$ | Projected Price | ADM | | 99999.9999 | | Edit with ADM Price, "A00810". The Projected Price to be used in MP will be stored in Projected Price in "A00810" in the applicable record for either Insurance Plan Code 16 or 17. |
| | Expected County Yield | ADM | | 99999999.99 | None | Edit with ADM Price, 'A00810'. Expected County Yield = Expected Index Value. |
| $\text{MP Gross Indemnity} = \sum_{t=1, \dots, n} \sum_{j=1, \dots, 100} [\text{MP Gross Indemnity Draw(t,j)}]$ | MP Gross Indemnity | Internal | | 99999999.99 | Round to 2 decimals. | Sum the MP Gross Indemnities for all iterations. |

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|--------------|------------|---------------|--------------|--------------|----------------|-------|

Simulated Farm Yield Calculation:

| | | | | | | |
|---|-----------------------------|----------|--|---------------|----------------------|---|
| Farm Yield Draw(t,j) = MAX[Alpha + Beta * Detrended Yield(t) + Sigma * Farm Deviation Quantity (j),0] | Farm Yield Draw(t,j) | Internal | | 99999999.99 | Round to 2 decimals. | |
| | Farm Deviation Quantity (j) | ADM | | 99999999.9999 | None | Farm Deviation Quantity (j) found in the ADM Draw Data, "A00615". |
| Farm Revenue Draw(t,j) = Farm Yield Draw(t,j) * Commodity Price Draw Quantity (t,j) | Farm Revenue Draw(t,j) | Internal | | 99999999.99 | Round to 2 decimals. | |

Simulated Indemnities for Base (Companion) Policy Calculation:

| | | | | | | |
|---|------------------------|----------|----|-------------|---|---|
| Coverage Level = Coverage Level for Base (Companion) Policy | Coverage Level | P14 | 34 | 9.99 | 2 decimal places | Note - this is the Coverage Level for Base (Companion) Policy. |
| Guarantee Per Acre = Approved Yield * Coverage Level | Approved Yield | P11 | 42 | 99999999.99 | None | |
| | Guarantee Per Acre | Internal | | | If Unit of Measure equals Pounds "LBS", then round to whole number. If Unit of Measure equals Tons "TONS", then round to 2 decimals. Otherwise, round to 1 decimal. | |
| YP Indemnity Draw(t,j) = Projected Price * MAX(Guarantee Per Acre - Farm Yield Draw(t,j),0) | YP Indemnity Draw(t,j) | Internal | | 99999999.99 | 2 decimal places | The Projected Price to be used in MP will be stored in Projected Price in "A00810" in the applicable record for either Insurance Plan Code 16 or 17. For Corn "0041" Type Silage "026", convert Approved Yield (measured in tons) to bushels by dividing by 0.15 and rounding to the nearest whole number. |
| RP Guarantee Draw(t,j) = Guarantee Per Acre * MAX(Commodity Price Draw Quantity (t,j), Projected Price) | RP Guarantee Draw(t,j) | Internal | | 99999999.99 | 2 decimal places | The Projected Price to be used in MP will be stored in Projected Price in "A00810" in the applicable record for either Insurance Plan Code 16 or 17. For Corn "0041" Type Silage "026", convert Approved Yield (measured in tons) to bushels by dividing by 0.15 and rounding to the nearest whole number. |

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17 Margin Protection with Harvest Price Option

Commodity Code 0011 Wheat

0018 Rice

0041 Corn

0081 Soybeans

| Calculations | Field Name | Record Number | Field Number | Field Format | Field Rounding | Rules |
|---|-------------------------------|---------------|--------------|--------------|------------------|--|
| $RP \text{ Indemnity Draw}(t,j) = \text{MAX}(RP \text{ Guarantee Draw}(t,j) - \text{Farm Revenue Draw}(t,j), 0)$ | RP Indemnity Draw(t,j) | Internal | | 99999999.99 | 2 decimal places | |
| $RPHPE \text{ Indemnity Draw}(t,j) = \text{MAX}[\text{Guarantee Per Acre} * \text{Projected Price} - \text{Farm Revenue Draw}(t,j), 0]$ | RPHPE Indemnity Draw(t,j) | Internal | | 99999999.99 | 2 decimal places | <p>The Projected Price to be used in MP will be stored in Projected Price in "A00810" in the applicable record for either Insurance Plan Code 16 or 17.</p> <p>For Corn "0041" Type Silage "026", convert Approved Yield (measured in tons) to bushels by dividing by 0.15 and rounding to the nearest whole number.</p> |
| Net Indemnities: | | | | | | |
| $YP \text{ Net Indemnity Draw}(t,j) = \text{MAX}[MP \text{ Gross Indemnity Draw}(t,j) - YP \text{ Indemnity Draw}(t,j), 0]$ | YP Net Indemnity Draw(t,j) | Internal | | 99999999.99 | 2 decimal places | |
| $RP \text{ Net Indemnity Draw}(t,j) = \text{MAX}[MP \text{ Gross Indemnity Draw}(t,j) - RP \text{ Indemnity Draw}(t,j), 0]$ | RP Net Indemnity Draw(t,j) | Internal | | 99999999.99 | 2 decimal places | |
| $RPHPE \text{ Net Indemnity Draw}(t,j) = \text{MAX}[MP \text{ Gross Indemnity Draw}(t,j) - RPHPE \text{ Indemnity Draw}(t,j), 0]$ | RPHPE Net Indemnity Draw(t,j) | Internal | | 99999999.99 | 2 decimal places | |

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| <u>Calculations</u> | <u>Field Name</u> | <u>Record Number</u> | <u>Field Number</u> | <u>Field Format</u> | <u>Field Rounding</u> | <u>Rules</u> |
|--|----------------------------|----------------------|---------------------|---------------------|-----------------------|--------------|
| Summed Net Indemnities: | | | | | | |
| YP Net Indemnity = $\sum_{t=1, \dots, n} \sum_{j=1, \dots, 100} [\text{YP Net Indemnity Draw}(t,j)]$ | YP Net Indemnity | Internal | | 99999999.99 | 2 decimal places | |
| RP Net Indemnity = $\sum_{t=1, \dots, n} \sum_{j=1, \dots, 100} [\text{RP Net Indemnity Draw}(t,j)]$ | RP Net Indemnity | Internal | | 99999999.99 | 2 decimal places | |
| RPHPE Net Indemnity = $\sum_{t=1, \dots, n} \sum_{j=1, \dots, 100} [\text{RPHPE Net Indemnity Draw}(t,j)]$ | RPHPE Net Indemnity | Internal | | 99999999.99 | 2 decimal places | |
| Gross Premium and Net Premium Per Acre on a 100% share basis: | | | | | | |
| Gross Premium = Round(MP Gross Indemnity / Counter,2) | Gross Premium | Internal | | 99999999.99 | 2 decimal places | |
| YP Net Premium Per Acre = Round(YP Net Indemnity / Counter,2) | YP Net Premium Per Acre | Internal | | 99999999.99 | 2 decimal places | |
| RP Net Premium Per Acre = Round(RP Net Indemnity / Counter,2) | RP Net Premium Per Acre | Internal | | 99999999.99 | 2 decimal places | |
| RPHPE Net Premium Per Acre = Round(RPHPE Net Indemnity / Counter,2) | RPHPE Net Premium Per Acre | Internal | | 99999999.99 | 2 decimal places | |

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|--------------|------------|---------------|--------------|--------------|----------------|-------|

| Base (Companion) Policy Credit and MP Net Premium: | | | | | | |
|--|----------------------------------|----------|----|-------------|------------------|--|
| YP Base Policy Credit = Gross Premium - YP Net Premium Per Acre | YP Base Policy Credit | Internal | | 99999999.99 | 2 decimal places | |
| RP Base Policy Credit = Gross Premium - RP Net Premium Per Acre | RP Base Policy Credit | Internal | | 99999999.99 | 2 decimal places | |
| RPHPE Base Policy Credit = Gross Premium - RPHPE Net Premium Per Acre | RPHPE Base Policy Credit | Internal | | 99999999.99 | 2 decimal places | |
| Preliminary MP Net Premium = Base Rate * Price Election Percent - (YP Base Policy Credit, RP Base Policy Credit, or RPHPE Base Policy Credit) | Preliminary MP Net Premium | Internal | | 99999999.99 | 2 decimal places | |
| | Base Rate | ADM | | 999999.9999 | None | Base Rate is Margin Protection Premium Amount Per Acre. Edit with ADM Area Rate, "A01135" and ADM Area Coverage Level, "A01130". Use Sections 3 and 4 when base (companion) record does not have qualifying information for MP Net Premium. |
| Base Policy Premium = Base Policy Total Premium Amount / Insured Share Percent / Reported Acreage | Base Policy Total Premium Amount | P11 | 93 | 99999999.99 | 2 decimal places | Edit with YP, RP, RPHPE Total Premium Amount from P11 Insurance Plan Code 01, 02, or 03. |
| | Base Policy Premium | Internal | 93 | 99999999.99 | 2 decimal places | Converts Base Policy Total Premium to dollars per 100 percent share acre. |
| MP Net Premium = MAX(Preliminary MP Net Premium, 0.50, 0.30 * Base Rate * Price Election Percent, (Base Rate * Price Election Percent) - (0.70 * Base Policy Premium)) | MP Net Premium | Internal | | 99999999.99 | 2 decimal places | 0.50 = 50 cent minimum cost per acre 0.30 * Base Rate * Price Election Percent limits subsidy to 70% of the calculated amount (Base Rate * Price Election Percent) - (0.70 * Base Policy Premium) limits credit to 70% of the premium per acre of the base policy. |

| Section 5: Total Premium, Subsidy, and Producer Premium Calculation for MP Policies with Base (Companion) Policy: | | | | | | |
|---|----------------------------------|----------|----|------------|------------------------|--|
| Preliminary Total Premium Amount = Reported Acreage * MP Net Premium * Insured Share Percent | Preliminary Total Premium Amount | Internal | | 9999999999 | Round to whole number. | |
| Total Premium Amount = Preliminary Total Premium Amount | Total Premium Amount | P11 | 93 | 9999999999 | Round to whole number. | |
| Subsidy Amount = Total Premium Amount * Subsidy Percent | Subsidy Amount | P11 | 91 | 9999999999 | Round to whole number. | If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 4 for subsidy calculations. |
| | Subsidy Percent | ADM | | 9.999 | None | Edit with ADM Subsidy Percent, "A00070". |
| Producer Premium Amount = Total Premium Amount - Subsidy Amount | Producer Premium Amount | P11 | 94 | 9999999999 | Round to whole number. | |

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| Section 6: Beginning Farmer and Rancher (BFR), Veteran Farmer Rancher (VFR), Native Sod (NS), and Conservation Compliance (CC) Subsidy Calculations | | | | | | |
| Base Subsidy Amount = Total Premium Amount * Subsidy Percent | Base Subsidy Amount | Internal | | 9999999999 | Round to whole number | Cupped by the standard rule of \$1 if applicable. |
| | Subsidy Percent | ADM | | 9.999 | None | Edit with ADM Subsidy Percent, "A00070". |
| BFR/VFR Subsidy Amount = Total Premium Amount * 0.10 * (1 - CC Subsidy Reduction Percent) | CC Subsidy Reduction Percent | P11 | 76 | 9.9999 | None | If Applicable; else 0. |
| | BFR/VFR Subsidy Amount | Internal | | 9999999999 | Round to whole number | Beginning Farmer Rancher/Veteran Farmer Rancher Subsidy Amount. If Applicable; else 0. 0.10 (10%). |
| Native Sod Subsidy Amount = Total Premium Amount * 0.50 | Native Sod Subsidy Amount | Internal | | 9999999999 | Round to whole number | If Applicable; else 0. 0.50 (50%). For CAT coverage, Native Sod Subsidy Amount is always 0. |
| CC Subsidy Reduction Amount = Base Subsidy Amount * CC Subsidy Reduction Percent | CC Subsidy Reduction Amount | P11 | 109 | 9999999999 | Round to whole number | CC Subsidy Reduction Amount. If Applicable; else 0. |
| Subsidy Amount = Base Subsidy Amount + BFR/VFR Subsidy Amount - Native Sod Subsidy Amount - CC Subsidy Reduction Amount | Subsidy Amount | P11 | 91 | 9999999999 | Round to whole number | Subsidy Amount cannot exceed Total Premium Amount. Subsidy Amount will be cupped at \$0. |
| Producer Premium Amount = Total Premium Amount - Subsidy Amount | Producer Premium Amount | P11 | 94 | 9999999999 | Round to whole number | |