Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

03 Revenue Protection with Harvest Price Exclusion **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts 0041 Corn **Commodity Code** 0015 Canola 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field Field Field Record **Calculations** Name Number Number **Format** Rounding Rules **Section 1: Liability Calculation** If Unit of Measure equals Pounds "LBS", then round to whole number. Common Crop Insurance Policy definition 'production guarantee (per acre)'. Premium Guarantee Per Acre If Unit of Measure Internal 99999999.99 Amount equals Tons "TONS", Premium Guarantee Per Acre Amount should be then round to 2 rounded to whole pounds for Dry Beans, "0047" decimals. (all types), and Dry Peas, "0067" (all types). Otherwise, round to 1 decimal. Premium Guarantee Per Acre Amount = Approved Yield * Coverage Level Percent For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted Approved Yield P11 42 99999999.99 None For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) For APH Trend and Yield Exclusion the Coverage Level Percent in this section is ALWAYS the Coverage Level Percent P14 34 9.9999 None chosen coverage level and NOT the Effective Coverage Level.

12/3/2019 Page 1 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved

Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|------------------------------|--|-----------------------------|---------------|--------------|--------------------------------------|--|--|
| Commodity Code | 0011 Wheat 0015 Canola | 0021 Cotton 0041 Corn | | | 0047 Dry Beans 0051 Grain Sorghum | | 0075 Peanuts 0078 Sunflowers |
| commounty code | 0013 Canola 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | | 0081 Soybeans |
| | 0010 MCC | ооно г орсоні | | | ooo7 Diyi cas | | 0091 Barley |
| | | <u>Field</u> | Record | <u>Field</u> | <u>Field</u> | <u>Field</u> | · |
| | <u>Calculations</u> | <u>Name</u> | <u>Number</u> | Number | <u>Format</u> | Rounding | <u>Rules</u> |
| Guarantee Per Acre Amount | When Guarantee Adjustment Type Code equals Late Planting, "L" OR Prevented Planting, "P": Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor = | Guarantee Per Acre Amount | Internal | | 99999999999999 | 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 decimals. | Guarantee Per Acre Amount should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types). |
| | | Guarantee Adjustment Factor | P11 | 69 | 0.999 | None | Edit with the Guarantee Adjustment ICE, "D00068" or ADM Guarantee Adjustment, "A01220" for Preventing Planting. |
| Price Election Amount | = Projected Price (or Contract Price) * Price Election Percent | Price Election Amount | Internal | | 9999.9999 | When Commodity Code equals Barley, "0091", Corn, "0041", Cotton, "0021", Grain Sorghum, "0051", Soybeans, "0081" or Wheat, "0011"; round to nearest whole cent [\$9.99]. If result is based on Contract Price for specialty type Corn, Soybeans or Barley; round to nearest one hundredth cent (\$9.9999). | |

12/3/2019 Page 2 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|---------------------------------------|--|--|------------------|-------------------------------|---|---|---|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | Rules |
| Price Election Amount (contintued) | = Projected Price (or Contract Price) * Price Election Percent | Price Election Amount (continued) | Internal | | 9999.9999 | When Commodity Code equals Canola, "0015", Rice, "0018", Sunflowers, "0078"; round to nearest one- tenth cent [\$9.999]. If result is based on Contract Price for specialty type Canola; round to nearest one- hundredth cent (\$9.9999). When Commodity Code equals Popcorn, "0043", Dry Beans, "0047", or Dry Peas,"0067" round to nearest one- hundredth cent [\$9.9999]. | |
| | | Projected Price | ADM | | 99999.9999 | | Liability for Yield Protection, "01" allows the producer the opportunity to choose a percentage of the Projected Price. Liability f Revenue Protection, "02", or Revenue Protection with Harvest Price Exclusion, "03" requires the producer to choose 100 percent the Projected Price. Edit with ADM Price, "00810". |

12/3/2019 Page 3 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019
Version: Approved
Release Date: 12/6/2019

03 Revenue Protection with Harvest Price Exclusion **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field Field Field Record Rounding Calculations Name Number Number **Format** Rules For Yield Protection, "01", Contract Price may be used in lieu of the Projected Price for Dry Beans, Dry Peas, specialty types of Canola, Corn, Soybean or Barley. For Revenue Protection, "02", or Revenue Protection with Harvest Price Exclusion, "03", Contract Price may be used in lieu of the Projected Price for Dry Beans, Dry P11 46 9999.9999 None Peas, or specialty types of Canola, Corn or Soybeans. If the insured chooses to use the contract price, the contract price per bushel should be entered in the contract price field. The contracted price will be capped by RMA at a certain percentage over the projected price for Canola, Corn, Soybean and Barley as specified in the Special Provisions. Price Election Percent must equal 1.000, when Insurance Plan Code is Revenue Protection, Price Election Percent ICE 9.9999 None "02", or Revenue Protection with Harvest Price Exclusion, "03". Edit with ICE Price Election Percent, "D00007". Premium Total Guarantee 99999999.99 Internal Round to 2 decimals. Amount Premium Total Guarantee _ Premium Guarantee Per Acre Amount * Price Election Price Election Amount Internal 9999.9999 None Amount Amount Reported Acreage Reported Acreage must equal the sum of all Reported Acreage P11 48 99999999.99 None Land, P27, Reported Acreage.

12/3/2019 Page 4 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|-----------------------------|--|--|------------------|-------------------------------|---|--------------------------|---|
| Commodity Code | 0015 Canola | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans |
| | OUD NICC | 00+3 г орсотп | | | 0007 Dry 1 Cas | | 0091 Barley |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | Rules |
| | | | P11 | 103 | 9999999.99 | Round to 2 decimals. | |
| Total Guarantee Amount | Guarantee Per Acre Amount * Price Election Amount * | Price Election Amount | Internal | | 9999.9999 | None | |
| | Reported Acreage | Reported Acreage | P11 | 48 | 999999.99 | None | Reported Acreage must equal the sum of all Land, P27, Reported Acreage. |
| Premium Liability Amount | remium Liability Amount = Premium Total Guarantee Amount * Insured Share Percent | | Internal | | 999999999 | Round to whole number. | |
| | | Insured Share Percent | P11 | 43 | 9.9999 | None | |
| Liability Amount | Liability Amount = Total Guarantee Amount * Insured Share Percent | | P11 | 94 | 999999999 | Round to whole number. | |
| Elability Amount | | Insured Share Percent | P11 | 43 | 9.9999 | None | |
| ection 2: Unit Discount Cal | Iculation | | | | | | The appropriate discount factor should be looked up and applied. |
| /hen commodities are set | up in the unit discount table for lookups based solely on acres | | | | | | |
| | When the Unit Structure Code is Optional Unit, "OU", "UA", "UD", Basic Unit, "BU", or Enterprise Unit, "EU" or "EP": | Revenue Lookup Adjustment Factor | Internal | | 9.9999999 | None | |
| Revenue Lookup | Unit Structure Discount Factor | | | | | | |
| Adjustment Factor | When the Unit Structure Code is Whole Farm Unit "WU": | | | | | | Capped at 1.0 |
| | = | Unit Structure Discount Factor | Internal | | 9.9999999 | None | From below for Unit Structures "OU, UA, UD |

12/3/2019 Page 5 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protect | on with Harvest Price Exclusion |
|-----------------------------------|--|--|------------------|-------------------------------|---|---|--|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules |
| | When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD": | Unit Structure Discount Factor | Internal | | 9.9999999 | None | capped at 1.0 |
| | Optional Unit Discount Factor | Optional Unit Discount Factor | ADM | | 9.999 | None | Edit with ADM Unit Discount, "A01090". |
| | When Unit Structure Code is Basic Unit, "BU": Basic Unit Discount Factor | Basic Unit Discount Factor | ADM | | 9.999 | None | Edit with ADM Unit Discount, "A01090". |
| Unit Structure Discount Factor | When the Unit Structure Code is Enterprise Unit, "EU" or = "EP": Enterprise Unit Discount Factor | Enterprise Unit Discount Factor | ADM | | 9.999 | None | Edit with ADM Unit Discount, "A01090". Enterprise Units will now mandate that all insured acreage for a commodity will be included in the Enterprise Unit. This included both fall and spring planted acreage. Enterprise Unit Discount Factor is continge upon the sum of the reported acres which not prevented from planting for all applica units being greater than or equal to the Art Low Quantity and less than or equal to Art High Quantity fields contained on the ADN Discount, "A01090". Unit is not eligible as enterprise unit if summed planted acres arthan 20 acres or 20% of insured crop acrea |

12/3/2019 Page 6 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| | Record Code: | PII | | | Release Date: | 12/6/2019 | |
|--|---|--|------------------|-------------------------------|---|--------------------------|---|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protectio | n with Harvest Price Exclusion |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | <u>Rules</u> |
| When commodities are setu | p in the unit discount table for lookups based on acres <u>and</u> c | overage levels. | | | | | |
| | When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD": | Revenue Lookup Adjustment Factor | Internal | | 9.9999999 | None | |
| - | Unit Structure Discount Factor | Unit Structure Discount Factor | Internal | | 9.9999999 | None | Capped at 1.0 From below for Unit Structure "OU", "UA", or "UD". |
| = Revenue Lookup Adjustment Factor | When Unit Structure Code is Basic Unit, "BU": Basic Unit Discount Factor for 65% Coverage Level | Basic Unit Discount Factor | ADM | | 9.999 | None | Edit with ADM Unit Discount, "A01090" for 65% Coverage Level. Basic Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for the unit being greater than or equal to the Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090" for 65% Coverage Level. |
| = | When the Unit Structure Code is Enterprise Unit, "EU" or "EP" or Whole Farm Unit "WU": Enterprise Unit Discount Factor for 65% Coverage Level | Enterprise Unit Discount Factor | ADM | | 9.999 | None | Edit with ADM Unit Discount, "A01090" for 65% Coverage Level. Enterprise Unit Discount Factor is contingent upon the sum of the reported acres which wernot prevented from planting for all applicable units being greater than or equal to the Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unid Discount, "A01090" for 65% Coverage Level. |

12/3/2019 Page 7 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019
Version: Approved
Release Date: 12/6/2019

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts 0041 Corn **Commodity Code** 0015 Canola 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field Field Field Record Number **Calculations** Name Number **Format** Rounding Rules Capped at 1.0 See Section 19 for Option Code "TA" (Trend Unit Structure Discount Factor Internal 9.9999999 None Adjustment), "YC" (Yield Cup), and "YE" (Yield When the Unit Structure Code is Optional Unit, "OU", Exclusion). 'UA", or "UD": Edit with ADM Unit Discount, "A01090". Optional Unit Discount Factor See Section 19 for Option Code "TA" (Trend Optional Unit Discount Factor ADM 9.999 None Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion). Edit with ADM Unit Discount, "A01090" by Coverage Level. Unit Structure Discount Factor Basic Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for the unit being When Unit Structure Code is Basic Unit, "BU": greater than or equal to the Area Low Quantity Basic Unit Discount Factor ADM 9.999 None and less than or equal to Area High Quantity Basic Unit Discount Factor fields contained on the ADM Unit Discount, "A01090" for Coverage Level. See Section 19 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion).

12/3/2019 Page 8 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts 0041 Corn **Commodity Code** 0015 Canola 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field Field Field Record **Calculations** Name Number Number **Format** Rounding Rules Edit with ADM Unit Discount, "A01090" by Coverage Level. Enterprise Units will now mandate that all insured acreage for a commodity will be included in the Enterprise Unit. This includes both fall and spring planted acreage. Enterprise Unit Discount Factor is contingent When the Unit Structure Code is Enterprise Unit, "EU" or upon the sum of the reported acres which were Unit Structure Discount 'EP": Enterprise Unit Discount not prevented from planting for all applicable Factor = ADM 9.999 None Factor units being greater than or equal to the Area (contintued) Enterprise Unit Discount Factor Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090" for Coverage Level. Unit is not eligible as an enterprise unit if summed planted acres are less than 20 acres or 20% of insured crop acreage. See Section 19 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion).

12/3/2019 Page 9 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|---|---|--|------------------|------------------------|---|---------------------------------|---|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> Number | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | <u>Rules</u> |
| Section 3: Base Premium R | ate Calculation | | | | | | If Written Agreement is applicable make the necessary changes as provided by the agreement and ROE ADM. |
| | | Current Year Yield Ratio | Internal | | 9.9999 | Round to 2 decimals. | Cup at 0.50 and Cap at 1.50. |
| Current Year Yield Ratio | = Rate Yield / Reference Amount | Rate Yield | P15 | 35 | 99999999999 | None | For skip row commodities, the rate yield is the converted rate yield from the P15 record with skip row (yield conversion factor) applied. |
| | | Reference Yield | ADM | | 99999.99 | None | Edit with ADM Base Rate, "A01010". |
| When previous year yield li equals Spring Contract "98 | imitation code = '03', Insurance Option Code List contains Yie ": | ld Cup (YC), and Commodity Cod | le Dry Bean | s "0047" a | and Type Code equals Contr | act "62", or Commodit | y Code equals Dry Peas "0067" and Type Code |
| | | Prior Year Yield Ratio | Internal | | 999999.99 | Round to 2 decimals. | |
| Prior Year Yield Ratio | _ Round(Approved Yield * Contract Price,0) / Prior Year | Approved Yield | P11 | 42 | 99999999.99 | None | |
| Filor real field Katio | Reference Amount | Contract Price | P11 | 46 | 9999.9999 | None | |
| | | Prior Year Reference Amount | ADM | | 99999.99 | None | Edit with ADM Base Rate, "A01010". |
| When previous year yield l | imitation code = '03' and Insurance Option Code List contains | Yield Cup (YC) and the aforement | ntioned cor | nmodities | /types are not applicable: | | |
| | | Prior Year Yield Ration | Internal | | 9.9999 | Round to 2 decimals. | Cup at 0.50 and Cap at 1.50. |
| Prior Year Yield Ratio | Prior Year Yield Ratio = Approved Yield / Prior Year Reference Amount | | P11 | 42 | 99999999.99 | None | For skip row commodities, the rate yield is the converted rate yield from the P15 record with skip row (yield conversion factor) applied. |
| | | Prior Year Reference Amount | ADM | | 99999.99 | None | Edit with ADM Base Rate, "A01010". |

12/3/2019 Page 10 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019
Version: Approved
Release Date: 12/6/2019

02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion **Insurance Plan Code** 01 Yield Protection 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts 0041 Corn **Commodity Code** 0015 Canola 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field Field Field Record Rounding **Calculations** Name Number Number **Format** Rules Otherwise: Prior Year Yield Ratio Internal 9.9999 Round to 2 decimals. Cup at 0.50 and Cap at 1.50. For skip row commodities, the rate yield is the Rate Yield converted rate yield from the P15 record with P15 35 99999999.99 None Prior Year Yield Ratio = Rate Yield / Prior Year Reference Amount skip row (yield conversion factor) applied. Prior Year Reference Amount ADM 99999.99 None Edit with ADM Base Rate, "A01010". Current Year Rate Multiplier = Current Year Yield Ratio ^ Exponent Value Current Year Rate Multiplier Internal 9999.9999999 Round to 8 decimals. **Exponent Value** ADM S99.999 None Edit with ADM Base Rate, "A01010". Prior Year Rate Multiplier Internal 9999.9999999 Round to 8 decimals. Prior Year Rate Multiplier = Prior Year Yield Ratio ^ Prior Year Exponent Value ADM Edit with ADM Base Rate, "A01010". Prior Year Exponent Value S99.999 None

12/3/2019 Page 11 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|-------------------------------------|---|--|------------------|------------------------|---|--------------------------|---|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | Calculations | <u>Field</u> Name | Record Number | <u>Field</u> Number | <u>Field</u> Format | <u>Field</u> Rounding | Rules |
| | When Rate Method Code is Fixed, "F": | Current Year Base Rate | Internal | Number | 9999999999999999 | Round to 8 decimals. | iuics |
| = | Sub County Rate | Sub County Rate | ADM | | 99.9999 | None | Edit with ADM Sub County Rate, "A01050". |
| = Current Year Base Rate | When Rate Method Code is Additive, "A": Sub County Rate + (Current Year Rate Multiplier * Reference Rate + Fixed Rate) | Current Year Rate Multiplier | Internal | | 9999.9999999 | None | |
| = | When Rate Method Code is Multiplicative, "M": Sub County Rate * (Current Year Rate Multiplier * Reference Rate + Fixed Rate) | Reference Rate | ADM | | 9.9999 | None | Edit with ADM Base Rate, "A01010". |
| = | Otherwise: Current Year Rate Multiplier * Reference Rate + Fixed rate | Fixed Rate | ADM | | 9.9999 | None | Edit with ADM Base Rate, "A01010". |
| | Without Date Adaptive Code in Figure 1 11511. | Prior Year Base Rate | Internal | | 9999999999999999 | Round to 8 decimals. | |
| = | When Rate Method Code is Fixed, "F": Sub County Rate | Sub County Rate | ADM | | 99.9999 | None | Edit with ADM Sub County Rate, "A01050". |
| = Prior Year Base Rate = = | When Rate Method Code is Additive, "A": Sub County Rate + (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate) | Prior Year Rate Multiplier | Internal | | 9999.9999999 | None | |
| | When Rate Method Code is Multiplicative, "M": Sub County Rate * (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate) | Prior Year Reference Rate | ADM | | 9.9999 | None | Edit with ADM Base Rate, "A01010". |
| | Otherwise: Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed rate | Prior Year Fixed Rate | ADM | | 9.9999 | None | Edit with ADM Base Rate, "A01010". |

12/3/2019 Page 12 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| nsurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|--|---|------------------------------------|---------------|---------------|--------------------|-----------------------|--|
| | 0011 Wheat | 0021 Cotton | | | 0047 Dry Beans | | 0075 Peanuts |
| Commodity Code | 0015 Canola | 0041 Corn | | | 0051 Grain Sorghum | | 0078 Sunflowers |
| | 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | | 0081 Soybeans |
| | | | | | | | 0091 Barley |
| | | <u>Field</u> | Record | <u>Field</u> | <u>Field</u> | <u>Field</u> | |
| | <u>Calculations</u> | <u>Name</u> | <u>Number</u> | <u>Number</u> | <u>Format</u> | Rounding | <u>Rules</u> |
| | | Current Year Base Premium Rate | Internal | | 9999999999999999 | Round to 8 decimals. | If Option Code "YE" or "TA" is applicable ar effective coverage level exceeds the highe- coverage level for the offer in the ADM, se Section 23 for the Current Year Base Premi Rate calculation. |
| Current Year Base Premium Rate = | = Round(Current Year Base Rate * Rate Differential Factor * Unit Residual Factor, 8) | Rate Differential Factor | ADM | | 9.99999999 | None | Edit with ADM Coverage Level Differential "A01040". See Section 17 for Option Code "TA" (Tren Adjustment), "YC" (Yield Cup), and "YE" (Yiexclusion). |
| | | Unit Residual Factor | ADM | | 999.999 | None | Edit with ADM Coverage Level Differential "A01040". See Section 18 for Option Code "TA" (Tren Adjustment), "YC" (Yield Cup), and "YE" (Y Exclusion) where Unit Structure Code equipoptional Unit, "OU", "UA", "UD", or Basic 'BU'. |
| | When Unit Structure code is Enterprise Unit, "EU" or "EP": Round(Current Year Base Rate * Rate Differential Factor * Enterprise Unit Residual Factor, 8) | Enterprise Unit Residual Factor | ADM | | 9.999 | None | Edit with ADM Coverage Level Differential "A01040". See Section 18 for Option Code "TA" (Trer Adjustment), "YC" (Yield Cup), and "YE" (Y Exclusion) where Unit Structure Code equ Enterprise Unit, 'EU' or 'EP'. |
| | When Unit Structure code is Whole Farm Unit, "WU": Round(Current Year Base Rate * Rate Differential Factor * Whole Farm Unit Residual Factor, 8) | Whole Farm Unit Residual Factor | ADM | | 9.999 | None | Edit with ADM Coverage Level Differential "A01040". See Section 18 for Option Code "TA" (Tren Adjustment), "YC" (Yield Cup), and "YE" (Y Exclusion) where Unit Structure Code equ Whole Farm Unit, 'WU'. |

12/3/2019 Page 13 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|-----------------------------------|--|---|------------------|-------------------------------|-------------------------------|---------------------------------|---|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton0047 Dry Beans0041 Corn0051 Grain Sorghum0043 Popcorn0067 Dry Peas | | | | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | <u>Rules</u> |
| When previous year yield lin | nitation code = '03' and Insurance Option Code List contains | Yield Cup (YC): | | | | | |
| | When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU": | Prior Year Base Premium Rate | Internal | | 9999999999999999 | Round to 8 decimals. | |
| | ' ' ' | Prior Year Rate Differential Factor | ADM | | 9.99999999 | None | Edit with ADM Coverage Level Differential, "A01040." |
| | Round(Prior Year Base Rate * 1.05 * Prior Year Rate Differential Factor * Prior Year Unit Residual Factor, 8) | Prior Year Unit Residual Factor | ADM | | 999.999 | None | Edit with ADM Coverage Level Differential, "A01040." |
| Prior Year Base Premium = Rate | When Unit Structure code is Enterprise Unit, "EU" or "EP": Round(Prior Year Base Rate * 1.05* Prior Year Rate Differential Factor * Prior Year Enterprise Unit Residual Factor, 8) | Prior Year Enterprise Unit Residual Factor | ADM | | 9.999 | None | Edit with ADM Coverage Level Differential, "A01040". |
| | When Unit Structure code is Whole Farm Unit, 'WU': Round(Prior Year Base Rate * 1.05 * Prior Year Rate Differential Factor * Prior Year Whole Farm Unit Residual Factor, 8) | Prior Year Whole Farm Unit Residual Factor | ADM | | 9.999 | None | Edit with ADM Coverage Level Differential, "A01040." |

12/3/2019 Page 14 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|-------------------------|---|---|----------|--------|--------------------------------------|-----------------------|---|
| Commodity Code | 0011 Wheat 0015 Canola | 0021 Cotton 0041 Corn | | | 0047 Dry Beans 0051 Grain Sorghum | | 0075 Peanuts 0078 Sunflowers |
| commounty code | 0018 Rice | 0041 Com | | | 0067 Dry Peas | | 0081 Soybeans |
| | 0019 VICE | 0045 РОРСОП | | | 0067 Dry Peas | | 0091 Barley |
| | | Field | Record | Field | Field | Field | oosi buney |
| | Calculations | <u>Name</u> | Number | Number | Format | Rounding | <u>Rules</u> |
| therwise: | | | | | | • | |
| | When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU": | Prior Year Base Premium Rate | Internal | | 9999999999999999 | Round to 8 decimals. | |
| | Round(Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Unit Residual Factor, 8) | Prior Year Rate Differential Factor | ADM | | 9.99999999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion). |
| Prior Year Base Premium | | Prior Year Unit Residual Factor | ADM | | 999.999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion) where Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit"BU". |
| Rate = | When Unit Structure code is Enterprise Unit, "EU" or "EP": Round(Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Enterprise Unit Residual Factor, 8) | Prior Year Enterprise Unit Residual Factor | ADM | | 9.999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion) where Unit Structure Code equal to Enterprise Unit, 'EU' or 'EP'. |
| = | When Unit Structure code is Whole Farm Unit, 'WU': Round(Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Whole Farm Unit Residual Factor, 8) | Prior Year Whole Farm Unit Residual Factor | ADM | | 9.999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion) where Unit Structure Code equal to Whole Farm Unit, 'WU'. |
| Base Premium Rate = | MIN (Current Year Base Premium Rate, Prior Year Base Premium Rate * 1.2, .999) | Base Premium Rate | P11 | 97 | 999999999.99999999 | Round to 8 decimals. | |
| Revenue Lookup Rate = | MIN(Current Year Base Rate, Prior Year Base Rate * 1.2, | Revenue Lookup Rate | Internal | | 9999999999.9999 | Round to 4 decimals. | |

12/3/2019 Page 15 of 77

Reinsurance Year: 2019

| | Record Name: Record Code: | = | | | Version: Release Date: | Approved 12/6/2019 | |
|--------------------------------|--|---|---------------------|-------------------------------|---|--------------------------|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | <u>Rules</u> |
| Section 4: Optional Coverag | e (Additive "A" and Multiplicative "M") | | | | | | If Option Rate Method Code equal "T' (Total Premium Rate Adjustment) see Section 9. |
| | | Additive Optional Rate Adjustment Factor | Internal | | 999999.9999 | Round to 4 decimals. | |
| Additive Optional Rate $_{=}$ | When Rate Method Code is Additive, "A": | Option Rate | ADM | | 99999.9999 | None | Option Rate will be the Sum of all Option Rate with Rate Method Code equal to Additive, "A". Edit with ADM Option Rate, "A01060". |
| Adjustment Factor ⁼ | = ∑ Option Rate * Rate Differential Factor | Rate Differential Factor | ADM | | 9.9999999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion). |
| Multiplicative Optional | When Rate Method Code is Multiplicative, "M": | Multiplicative Optional Rate Adjustment Factor | Internal | | 999999.9999 | Round to 4 decimals. | |
| Rate Adjustment Factor | ∑ Option Rate1 * Option Rate2 * Option Rate3 | Option Rate | ADM | | 9.9999 | None | Edit with ADM Option Rate, "A01060". |
| Section 5: Revenue Coverag | e Add on Rates (Applicable only for Plans 02 and 03) | | | | | | It is recommended that other than hard coding for specific type and practice codes which will eventually change when the new key structure is adopted, that a condition be put in place that will set the add on rate to 0 when the Price Volatility is 0. This condition MUST occur at some point in order to circumvent the Calculation of Preliminary Revenue Protection Add on Rate and Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate, which contains a constraint that the add on rate be at least 1% greater than the base Premium Rate. |
| | | Lookup Rate | Internal | | 999999999999999 | Round to 4 decimals. | |
| Lookup Rate = | Revenue Lookup Rate * Revenue Lookup Adjustment Factor | Revenue Lookup Rate | Internal | | 999999999999999 | Round to 4 decimals. | From Section 3. |
| 12/3/2019 | | Revenue Lookup Adjustment Factor Page 1 | Internal 6 of 77 | | 9.9999999 | None | From Section 2. |

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

03 Revenue Protection with Harvest Price Exclusion **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts 0015 Canola **Commodity Code** 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field Field Field Record Calculations Name Number Number **Format** Rounding Rules Adjusted Mean Quantity Internal 999999.9999999 Round to 8 decimals. (AdjMean) For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. Approved Yield (AY) P11 42 9999999.99 None For skip row commodities, the approved yield is Adjusted Mean Quantity = Approved Yield * Mean Quantity / 100 the converted approved yield from the P15 record with skip row (yield conversion factor) applied. Edit with ADM Combo Revenue Factor, "A01030". ADM Mean Quantity 999.99999999 None Search the Combo Revenue Factor, "A01030" for the Mean Quantity using Lookup Rate. Adjusted Standard Deviation Internal Round to 8 decimals. 9999999999999999 Quantity (AdjStndDev) For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. Approved Yield (AY) P11 42 99999999.99 None Adjusted Standard = Approved Yield * Standard Deviation Quantity / 100 For skip row cotton, the approved yield is the **Deviation Quantity** converted approved yield from the P15 record with skip row (yield conversion factor) applied. Edit with ADM Combo Revenue Factor, "A01030". Standard Deviation Quantity ADM 999.99999999 None Search the Combo Revenue Factor "A01030" for the Standard Deviation Quantity using Lookup Rate.

12/3/2019 Page 17 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|---|--|--|------------------|-------------------------------|---|---------------------------------|--|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules |
| | | log Mean Quantity (LnMean) | Internal | | 999999.99999999 | Round to 8 decimals. | |
| | Ln(Projected Price or Contract Price) – | Projected Price | ADM | | 99999.9999 | | Edit with ADM Price, "A00810". |
| LnMean | (Price Volatility Factor) ² / 2 | Contract Price | P11 | 46 | 9999.9999 | None | Contract price as addressed in Section 1, capped with Max Contract Price from ADM. |
| | | Price Volatility Factor | ADM | | 9.99 | | Edit with ADM Price, "A00810". |
| Yield Draw Quantity _{Sequence} | For Sequence Number 1 to 500 = Yield Draw Quantity | Yield Draw Quantity | ADM | | \$99.99999999 | None | Edit with ADM Beta, "A01020". Use the Beta ID field from ADM Insurance Offer, "A00030" and the Beta "A01020" to obtain the applicable draws. There should be 500 draws (or sequence numbers) per Beta Id for every distinct Beta Id in the Insurance Offer ADM, "A00030". |
| Price Draw Quanity _{Sequence} | For Sequence Number 1 to 500 = Price Draw Quantity | Price Draw Quantity | ADM | | \$99.99999999 | None | Edit with ADM Beta, "A01020". Use the Beta ID field from ADM Insurance Offer, "A00030" and the Beta "A01020" to obtain the applicable draws. There should be 500 draws (or sequence numbers) per Beta Id for every distinct Beta Id in the Insurance Offer ADM |

12/3/2019 Page 18 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | on with Harvest Price Exclusion |
|--|--|---|------------------|-------------------------------|---|---------------------------------|---|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules |
| | | Simulated Yield Protection Losses Quantity (SimYPLosses) | Internal | | 9999999999999999999999 | Round to 12 decimals. | |
| Simulated Yield Protection $= \sum_{i=1}^{500} \text{Round(MAX(0), } A$ Losses Quantity $= i=1$ AdjStr | ∑ Round(MAX(0, AY * covlvl - Round(MAX(0, Yieldi * | Approved Yield (AY) | P11 | 42 | 99999999.99 | None | For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied. |
| | | Coverage Level Percent (covlvl) | P14 | 34 | 9.9999 | None | For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion). |
| | | Yield Draw Quantity _i (Yield _i) | ADM | | S99.99999999 | None | |

12/3/2019 Page 19 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| | Record Code: P11 | | | Release Date: 12/6/2019 | | | | | | |
|--|--|---|------------------|---|---|-----------------------|---|--|--|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protect | ion with Harvest Price Exclusion | | | |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | | | | | |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | Field Rounding | <u>Rules</u> | | | |
| | | Simulated Revenue Protection Losses Quantity(SimRPLosses) | Internal | | 99999999999999999999 | Round to 12 decimals. | | | | |
| Simulated Revenue Protection Losses : Quantity | $ \sum_{i=1}^{500} \textbf{Round}(\textbf{MAX}(0, \textbf{AY* covlvl* Round}(\textbf{MAX}(\textbf{ProjPrice}, \\ \textbf{i=1} \qquad \textbf{Round}(\textbf{MIN}(2*\textbf{ProjPrice}, \textbf{Round}(e^{(\textbf{Price}_i * \textbf{Price Volatility})}), 12)), 12) - \\ (\textbf{Round}(\textbf{MAX}(0, \textbf{Yieldi* AdjStdDev} + \textbf{AdjMean}), 12) * \\ \textbf{Round}(\textbf{MIN}(2*\textbf{ProjPrice}, \textbf{Round}(e^{(\textbf{Price}_i * \textbf{Price Volatility})}), 12))), 12))), 12) $ | Approved Yield (AY) | P11 | 42 | 99999999.99 | None | For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield the converted approved yield from the P15 record with skip row (yield conversion factor applied. | | | |
| | | Coverage Level Percent (covIvI) | P14 | 34 | 9.9999 | None | For Option Code "TA" (Trend Adjustment), "Young Cup), and "YE" (Yield Exclusion) this wis be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion). | | | |
| | | Yield Draw Quantity _i (Yield _i) | ADM | | \$99.99999999 | None | | | | |
| | | Projected Priced or Contract Price (ProjPrice) | ADM | | 99999.9999 | None | Edit with ADM Price, "A00810". Contract Pricas addressed in Section 1. | | | |

12/3/2019 Page 20 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protecti | on with Harvest Price Exclusion | |
|--|---|---|------------------|-----------------|---|-------------------------------|--|--|
| <u>Commodity Code</u> | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | Grain Sorghum 0078 Sunflowers | | |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | Field Number | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | Rules | |
| | | Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity (SimRPhpeLosses) | Internal | | 9999999999999999999 | Round to 12 decimals. | | |
| Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity | = Yield _i * = 'i=1 AdjStdDev + AdjMean),12) * Round(MIN(2 * ProjPrice, Round(e ^{(price} i * Price Volatility Factor + LnMean), 12)),12))),12) | Approved Yield (AY) | P11 | 42 | 99999999.99 | None | For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield i the converted approved yield from the P15 record with skip row (yield conversion factor) applied. | |
| | | Coverage Level Percent (covIvI) | P14 | 34 | 9.9999 | None | For Option Code "TA" (Trend Adjustment), "YC' (Yield Cup), and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion). | |
| | | Projected Priced or Contract Price (ProjPrice) | ADM | | 99999.9999 | None | Edit with ADM Price, "A00810". Contract Price as addressed in Section 1. | |

12/3/2019 Page 21 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|--|---|---|------------------|-------------------------------|---|--------------------------|--|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | <u>Rules</u> |
| Simulated Yield Protection Base Premium Rate | = (, ,, , | Simulated Yield Protection Base Premium Rate | Internal | | 999999.99999999 | Round to 8 decimals. | For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion) Effective Coverage Level Percent will replace Coverage Level Percent. |
| Protection Base Premium | (Simulated Revenue Protection Losses / 500) / (Approved = Yield * Coverage Level Percent * (Projected Price or Contract Price)) | Simulated Revenue Protection Base Premium Rate | Internal | | 999999.99999999 | Round to 8 decimals. | For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion) Effective Coverage Level Percent will replace Coverage Level Percent. |
| Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate | (Simulated Revenue Protection with harvest Price Exclusion = Losses Quantity / 500) / (Approved Yield * Coverage level Percent * (Projected Price or Contract Price)) | Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate | Internal | | 999999.99999999 | Round to 8 decimals. | For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion) Effective Coverage Level Percent will replace Coverage Level Percent. |
| Protection Premium Add | • | Preliminary Revenue Protection Premium Add on Rate | Internal | | 999999.99999999 | Round to 8 decimals. | This is a control meant to ensure that the premium rate associated with Revenue Protection is at least 1% greater than the basic Base Premium Rate where the Price Volatility Factor is NOT EQUAL to 0. |
| Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate | MAX(Simulated Revenue Protection with Harvest Price = Exclusion Base Premium Rate - Simulated Yield Protection Base Premium Rate, -0.5 * Base Premium Rate) | Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate | Internal | | 999999.99999999 | Round to 8 decimals. | This is a control meant to ensure that the premium rate associated with Revenue Protection with Harvest Price Exclusion will not be less than half of the Base Premium Rate where the Price Volatility Factor is NOT EQUAL to 0. |

12/3/2019 Page 22 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved

Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | rotection 03 Revenue Protection with Harvest Price Exclusion | | | | | |
|---------------------|---------------------|-----------------------|--|--------------|--------------------|---------------|-----------------|--|
| | 0011 Wheat | 0021 Cotton | | | 0047 Dry Beans | | 0075 Peanuts | |
| Commodity Code | 0015 Canola | 0041 Corn | | | 0051 Grain Sorghum | | 0078 Sunflowers | |
| | 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | 0081 Soybeans | | |
| | | | | | | | 0091 Barley | |
| | _ | <u>Field</u> | Record | <u>Field</u> | <u>Field</u> | <u>Field</u> | | |
| | <u>Calculations</u> | <u>Name</u> | <u>Number</u> | Number | <u>Format</u> | Rounding | <u>Rules</u> | |

Section 6: Historical Revenue Capping (Applicable only for Plans 02 and 03)

Note: This Section will not apply if record has a Written Agreement.

This section is for calculation the 2010 Revenue Assurance Optional Unit Level Base Premium Rate for coverage level percents 65 thru 85 where applicable. Then it is used in conjunction with the Base Premium Rate and Revenue Add On Rates to compute capped Revenue Add On Rates. This table is set up such that the only value that will change from year to year is the Commodity Year. By doing this we are fixing a point where the premium calculation method was changed and applying an exponential capping over time.

If there is NOT a corresponding row in the Historical Revenue Capping ADM, "A01110", then this calculation does not need to be performed. Furthermore, since coverage level percents 50, 55, 60 did not exist for Revenue Assurance (RA) historically capping does not need to be performed for those coverage level percents as well. If TA is applicable then this will be based on the TA Effective Coverage Level Percent. See next statement.

When TA and YE Option is selected, this section does not apply when the Effective Coverage Level is less than 65%.

12/3/2019 Page 23 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion | |
|---------------------------|--|---|------------------|-------------------------------|-------------------------------|--|---|--|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0047 Dry Beans 0041 Corn 0051 Grain Sorg 0043 Popcorn 0067 Dry Peas | | | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | | |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | <u>Rules</u> | |
| | | Capping Yield Ratio | Internal | | 9.99 | Round to 2 decimals. | Cup at 0.50 and Cap at 1.50. | |
| Capping Yield Ratio | = Rate Yield / Capping Reference Yield | Rate Yield | P15 | 35 | 99999999.99 | None | For skip row commodities, the rate yield is the converted rate yield from the P15 record with skip row (yield conversion factor) applied. | |
| | | Capping Reference Yield | ADM | | 99999.99 | None | Edit with ADM Historical Revenue Capping, "A01110". | |
| | | Prior Capping Yield Ratio | Internal | | 9.99 | Round to 2 decimals. | Cup at 0.50 and Cap at 1.50. | |
| Prior Capping Yield Ratio | Prior Capping Yield Ratio = Rate Yield / Prior Capping Reference Yield | | P15 | 35 | 99999999.99 | None | For skip row commodities, the rate yield is the converted rate yield from the P15 record with skip row (yield conversion factor) applied. | |
| | | Prior Capping Reference Yield | ADM | | 99999.99 | None | Edit with ADM Historical Revenue Capping, "A01110". | |
| Compine Data Multiplion | Capping Rate Multiplier = Capping Yield Ratio ^Capping Exponent Value | | Internal | | 999999.99999999 | Round to 8 decimals. | | |
| Capping Rate Multiplier | | | ADM | | \$99.999 | None | Edit with ADM Historical Revenue Capping, "A01110". | |

12/3/2019 Page 24 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|--------------------------------------|---|--|------------------|-------------------------------|---|---------------------------------|---|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | <u>Rules</u> |
| Prior Capping Rate _ | Prior Capping Yield Ratio Prior Capping Exponent Value | Prior Capping Rate Multiplier | Internal | | 999999.99999999 | Round to 8 decimals. | |
| Multiplier = | Prior Capping field Katio Prior Capping Exponent Value | Prior Capping Exponent Value | ADM | | \$99.999 | None | Edit with ADM Historical Revenue Capping, "A01110". |
| | If Rate Method Code = Fixed, "F": Sub County Rate | Historical Capping Base Rate | Internal | | 999999.99999999 | Round to 8 decimals. | |
| | If Rate Method Code = Additive, "A": | | | | | | |
| | Sub County Rate + (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate) | Sub County Rate | ADM | | 9.9999 | None | Edit with ADM Sub County Rate, "A01050". |
| Historical Capping Base = Rate | If Rate Method Code = Multiplicative, "M": | | | | | | |
| | Sub County Rate * (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate) | Capping Reference Rate | ADM | | 9.9999 | | Edit with ADM Historical Revenue Capping, "A01110". |
| | Otherwise: | | | | | | |
| | (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate) | Capping Fixed Rate | ADM | | 9.9999 | | Edit with ADM Historical Revenue Capping, "A01110". |
| | If Rate Method Code = Fixed "F": Sub County Rate | Historical Prior Capping Base Rate | Internal | | 999999.99999999 | Round to 8 decimals. | |
| | If Rate Method Code = Additive, "A": | | | | | | |
| | Sub County Rate + (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate) | Sub County Rate | ADM | | 9.9999 | None | Edit with ADM Sub County Rate, "A01050". |
| Historical Prior Capping = Base Rate | If Rate Method Code = Multiplicative, "M": | | | | | | |
| | Sub County Rate * (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate) | Prior Capping Reference Rate | ADM | | 9.9999 | | Edit with ADM Historical Revenue Capping, "A01110". |
| | Otherwise: | | | | | | |
| | (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate) | Prior Capping Fixed Rate | ADM | | 9.9999 | | Edit with ADM Historical Revenue Capping, "A01110". |
| Historical Basic Unit Base | .9 * MIN(.999, Historical Prior Capping Base Rate * 1.2, Historical Capping Base Rate) | Historical Basic Unit Base Rate | Internal | | 999999.9999999 | Round to 8 decimals. | |

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|---|--|--|------------------|------------------------|------------------------|--|--|
| | 0011 Wheat | 0021 Cotton | | | 0047 Dry Beans | | 0075 Peanuts |
| Commodity Code | 0015 Canola | 0041 Corn | | | 0051 Grain Sorghum | | 0078 Sunflowers |
| | 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | | 0081 Soybeans |
| | | | | | | | 0091 Barley |
| | Calculations | <u>Field</u> Name | Record Number | <u>Field</u> Number | <u>Field</u> Format | <u>Field</u> Rounding | Rules |
| | When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU": | Coverage Level Percent | P14 | 34 | 9.9999 | None | For Option Code "TA" (Trend Adjustment), "YC" (Y Cup), and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), a "YE" (Yield Exclusion). |
| Historical Revenue Protection Base Premium Rate | | Historical Revenue Protection Base Premium Rate | Internal | | 99999999999999999 | Round each intermittent Beta * calculation to 8 decimals as it has been done historically. | Edit with ADM Historical Revenue Capping, |
| | Beta 13 Factor * Coverage Level Percent * Price Volatility | Beta 0 Factor - Beta 14 Factor | ADM | | S99.99999999 | None | "A01110". |
| | | Price Volatility Factor | ADM | | 9.99 | None | Edit with ADM Price, "A00810". |
| | Beta 14 Factor * (Approved Yield / Capping Reference Yield) * Price Volatility Factor] * Unit Residual Factor X 1.1 | Unit Residual Factor | ADM | | 999.999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion). |
| | When Unit Structure Code is equal to Enterprise Unit, "EU" or "EP": Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Factor' | Enterprise Unit Residual Factor | ADM | | 999.999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion). |

12/3/2019 Page 26 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019
Version: Approved

Release Date: 12/6/2019

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0021 Cotton 0047 Dry Beans 0011 Wheat 0075 Peanuts **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field Record Field **Field** Calculations Name Number Number **Format** Rounding Rules For Option Code "TA" (Trend Adjustment) this will be When Unit Structure Code is equal to Optional Unit, "OU", "UA", Effective Coverage Level Percent. See Section 16 for Coverage Level Percent P14 34 9.9999 None "UD", or Basic Unit, "BU": Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion). [beta0 Factor + Beta 1 Factor * Historical Basic Unit Base Rate + Beta 2 Factor * Historical Basic Unit Base Rate ^2 + Beta 3 Factor * Coverage Level Round each Percent + Beta 4 Factor * Coverage Level Percent ^2 + intermittent Beta * Historical Revenue Protection Beta 5 Factor * Approved Yield / Capping Reference Yield + calculation to 8 with Harvest Price Exclusion Internal 9999999999999999 Beta 6 Factor * (Approved Yield / Capping Reference Yield)^2 + decimals as it has Base Premium Rate Beta 7 Factor * Price Volatility Factor + been done Historical Revenue Beta 8 Factor * Price Volatility Factor^2 + historically. Protection with Harvest Price Beta 9 Factor * Historical Basic Unit Base Rate * Coverage Level Exclusion Base Premium Rate Percent + Beta 10 Factor * Historical Basic Unit Base Rate * Approved Yield / Capping Reference Yield + Beta 11 Factor * Historical Basic Unit Base Rate * Price Volatility Factor + Beta 12 Factor * Coverage Level Percent * Approved Yield / Capping Reference Yield + Beta 13 Factor * Coverage Level Percent * Price Volatility Factor + Beta 14 Factor * (Approved Yield / Capping Reference Yield) * Price Volatility Factor] * Unit Residual Factor X 1.1 ADM 599.999999999 None Beta O Factor - Beta 14 Factor Edit with ADM Historical Revenue Capping, "A01110' Price Volatility Factor ADM 9.99 None Edit with ADM Price, "A00810". Edit with ADM Coverage Level Differential, "A01040" See Section 18 for Option Code "TA" (Trend Unit Residual Factor ADM 999.999 None Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion). When Unit Structure Code is equal to Enterprise Unit, "EU" or Edit with ADM Coverage Level Differential, "A01040" 'EP": See Section 18 for Option Code "TA" (Trend Enterprise Unit Residual Factor ADM 999.999 None Adjustment), "YC" (Yield Cup), and "YE" (Yield Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Exclusion).

12/3/2019 Page 27 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion | |
|---|--|--|------------------|-------------------------------|---|---|---|--|
| Commodity Code | 0011 Wheat 0021 Cotton 0de 0015 Canola 0041 Corn 0018 Rice 0043 Popcorn | | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | | |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | <u>Rules</u> | |
| MIN(Base Premium Rate + Preliminary Revenue Capped Revenue | Add On Rate, Historical Revenue Protection Base Premium Rate * 1.2^(Commodity Year - Capping Year)) - Base | Capped Revenue Protection Add on Rate | Internal | | 99999999999999999 | Round to 8 decimals. | Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Protection with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 3 to calculate the Capped Revenue add on factors. | |
| | Premium Rate | Base Premium Rate | P11 | 97 | 999999.9999999 | None | | |
| | | Commodity Year | P14 | 10 | CCYY | None | | |
| | | Capping Year | ADM | | ССҮҮ | None | Edit with ADM Historical Revenue Capping, "A01110". | |
| Capped Revenue Protection with Harvest Price Exclusion Add on | MIN(Base Premium Rate + Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate, Historical = Revenue Protection with Harvest Price Exclusion Base | Capped Revenue Protection with Harvest Price Exclusion Add on Rate | Internal | | 99999999999999999 | Round to 8 decimal | Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Protection with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 3 to calculate the Capped Revenue add on factors. | |
| Rate | Premium Rate * 1.2^(Commodity Year - Capping Year)) - Base Premium Rate | Base Premium Rate | P11 | 97 | 999999.9999999 | None | | |
| | | Commodity Year | P14 | 10 | CCYY | None | | |
| | | Capping Year | ADM | | ССҮҮ | None | Edit with ADM Historical Revenue Capping, "A01110". | |

12/3/2019 Page 28 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019

Version: Approved

Polesce Date: 12/6/2019

| | Record Code | : P11 | | : 12/6/2019 | | | |
|-------------------------------------|---|--|------------------|-------------------------------|---|--------------------------|---|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | <u>Rules</u> |
| Section 7: Whole Farm Uni | it Base Premium Rate | | | | | | The Whole Farm Unit Discount is only applicable to the Revenue Protection and Revenue Protection with Harvest Price Exclusion Insurance Plans, unless the Special Provisions allow Whole Farm Units for other Insurance Plans. Whole Farm Units will now mandate that producers include both their spring and fall planted commodities into the whole farm unit for commodity/plans offering Whole Farm Units. Malting Barley Coverage is NOT applicable for Whole Farm Unit. |
| | | Lookup Rate | Internal | | 9999999999.9999 | Round to 4 decimals. | |
| Lookup Rate | = Revenue Lookup Rate * Revenue Lookup Adjustment Factor | Revenue Lookup Rate | Internal | | 9999999999.9999 | Round to 4 decimals. | From Section 3. |
| | | Revenue Lookup Adjustment Factor | Internal | | 9.9999999 | None | From Section 2. |
| Mean Quantity _{commodityj} | = Mean Quantity _{commodityj} WHERE Lookup Rate _{commodityj} = Base Rate _{commodityj} | Mean Quantity _{commodityj} | ADM | | 999.99999999 | None | Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Mean Quantity, When the Lookup Rate = Base Rate |
| | | Lookup Rate _{commodityj} | Internal | | 9.9999 | None | |
| | | Base Rate _{commodityj} | ADM | | 9.9999 | None | Edit with ADM Combo Revenue Factor, "A01030". |

12/3/2019 Page 29 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field Field Record **Field** Calculations Name Number Number **Format** Rounding Rules Edit with ADM Combo Revenue Factor, 'A01030". Standard Deviation Quantity ADM 999.99999999 None Search the Combo Revenue Factor, "A01030" ommodityi Standard Deviation $\underline{\ }$ Standard Deviation Quantity $_{\text{commodity}j}$ WHERE Lookup Rate for the Standard Deviation Quantity, When the Quantity commodityj commodityj = Base Rate commodityj Lookup Rate = Base Rate Lookup Rate commodityi Internal 9.9999 None Edit with ADM Combo Revenue Factor, Base Rate commodityj ADM 9.9999 None "A01030". Adjusted Mean Quantity Internal 999999.99999999 Round to 8 decimals. commodityj For APH Trend, Yield Cup, and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted Adjusted Mean Quantity = Approved Yield $_{commodityj}$ * Mean Quantity $_{commodityj}$ / 100 vield. Approved Yield commodity P11 42 9999999.99 None For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied. Adjusted Standard Deviation Internal 9999999999999999 Round to 8 decimals. Quantity commodity For APH Trend, Yield Cup, and Yield Exclusion, the Approved Yield will be the greater of the Adjusted Standard Approved Yield commodityi * calculated approved yield and the adjusted Deviation Quantity = Standard Deviation Quantity commodityj / 100 vield. Approved Yield commodity 42 P11 9999999.99 None For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.

12/3/2019 Page 30 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|---|--|--|------------------|-------------------------------|---|---------------------------------|--|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules |
| | | log Mean _{commodityj} (LnMean) | Internal | | 999999.99999999 | Round to 8 decimals. | |
| LnMean _{commodityj} | In(Projected Price or Contract Price _{commodityj}) – (Price Volatility Factor _{commodityj}) ² / 2 | Projected Price or Contract Price _{commodityj} | ADM | | 99999.9999 | | Edit with ADM Price, "A00810". Contract Price as addressed in Section 1. |
| | | Price Volatility Factor _{commodityj} | ADM | | 9.99 | None | Edit with ADM Price, "A00810". |
| Yield Draw Quantity commodityj Sequence Number | = Yield Draw Quantity _{commodity} | Yield Draw Quantity | ADM | | \$99.999999999 | None | ADM Insurance Offer, "A00030", and Beta, "A01020", should be used to obtain the applicable draws. There should be 500 Draws (or sequence numbers) per Beta Id in the ADM Beta, "A01020" for every distinct Beta Id in the ADM Insurance Offer, "A00030". |
| Price Draw Quantity commodityj Sequence Number | = Price Draw Quantity _{commodity} | Price Draw Quantity | ADM | | \$99.99999999 | None | ADM Insurance Offer, "A00030", and Beta, "A01020", should be used to obtain the applicable draws. There should be 500 Draws (or sequence numbers) per Beta Id in the ADM Beta, "A01020" for every distinct Beta Id in the ADM Insurance Offer, "A00030". |

12/3/2019 Page 31 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| | | | | | | , , , | |
|---|--|--|------------------|-------------------------------|---|--|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protectio | n with Harvest Price Exclusion |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules |
| | | Simulated Revenue Protection Losses Whole Farm (SimRPLossesWF) | Internal | | 999999999.999999999 | Round to 12 decimals. | Simulated Revenue Protection Losses for All Commodity/Acreage report line in the Whole Farm Unit. |
| | | Coverage Level Percent _{commodityj} (covlvl) | P14 | 34 | 9.9999 | None | For Option Code "TA" (Trend Adjustment), "YC" (Yicup), and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), an "YE" (Yield Exclusion). |
| ProjPrice _{commodityi} , Round(e ^(Pricecommodity) | $\sum_{i=1}^{} \textbf{Round(MAX(0,\sum_{j=1}^{} Ay_{commodityj})^*}$ | Approved Yield _{commodityj} (AY) | P11 | 42 | 9999999.99 | None | Approved Yield for each Commodity/Acreage repo line in the Whole Farm Unit. For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied. |
| Protection Losses Whole = Farm | all Commodities ∑ Round(MAX(0,Round(Yield _{commodityji} * j= AdjStdDev _{commodityj} + AdjMean _{commodityj,12})),12) * | Reported Acreage _{commodityj} (Acres) | P11 | 48 | 999999.99 | None | Reported Acreage must equal the sum of all Land, P27, Reported Acreage. Reported Acreage for each Commodity/Acreage report line in the Whole Farm Unit. Edit with ADM Price, "A00810". |
| * Price Volatility Factorcommodity] + LnMeancommodity],12)),12) * Round(Acres _{commodityj} ,12)), 12) | | Projected Price or Contract Price _{commodityj} (ProjPrice) | ADM | | 99999.9999 | None | Projected Price or Contract Price for each Commodity/Acreage report line in the Whole Farm Unit. |
| | | Price Draw Quanity _{commodityj} i (Price) | ADM | | S99.99999999 | None | Price Draw Quantity for each Commodity /Acreage report line in the Whole Farm Unit. |
| | Price Volatility Factor _{commodityj} | Internal | | 999999.9999999 | None | Price Volatility Factor for each Commodity/Acreage report line in the Whole Farm Unit. | |
| | | log Mean _{commodityj} (LnMean) | Internal | | 999999.9999999 | None | Log Mean for each Commodity/Acreage report line the Whole Farm Unit. |
| | | Yield Draw Quantity _{commodityj} i (Yield) | ADM | | S99.99999999 | None | Yield Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit. |

12/3/2019 Page 32 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved

| | Record Code: P11 | | | Release Date: 12/6/2019 | | | | |
|---|--|---|---|-------------------------------|---|---|---|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protecti | on with Harvest Price Exclusion | |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | n 0051 Grain Sorghum ocorn 0067 Dry Peas | | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | | |
| | Calculations | <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | Rounding | <u>Rules</u> | |
| Simulated Revenue Protection Losses Whole Farm (continued) | all Commodities \[\sum \text{Round}(MAX(0, \text{Round}(\text{Yield}_{commodityji}) \ ^* \] j= Adj\text{StdDev}_{commodityj} + \text{AdjMean}_{commodityj,12})12\) * \[\text{Round}(\text{MIN}(2 * \text{ProjPrice}_{commodityj}, \text{Round}(e^{(\text{Pricecommodityji})}, \text{Price} \text{Volatility} \ ^* \text{Price Volatility} \ Factorcommodityj + \text{LnMeancommodityj}, \text{12}\),12\) * | Adjusted Standard Deviation Quantity _{commodityj} (AdjStnDev) | Internal | | 999999999999999999999999999999999999999 | None | Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit. | |
| | Round(Acres _{commodityj,12})), 12) | Adjusted Mean Quantity _{commodityj} (AdjMean) | Internal | | 999999.999999999 | None | Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit. | |

12/3/2019 Page 33 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| | Record Code. | | | | Neicuse Date | . 12/0/2013 | |
|---|--|---|------------------|-------------------------------|---|---------------------------------|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protectio | n with Harvest Price Exclusion |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | <u>Rules</u> |
| Simulated Revenue Protection Harvest Price = Excluded Losses Whole Farm | SRound(MAX (0, \(\sum \) convolved commodity \(\) i=1 \qquad j= AY_{commodityj} * ProjPrice_{commodityj} \qquad * Acres_{commodityj} \qquad all commodities Round(MAX(0, Round(Yield_{commodityji}) * j= AdjStdDev_{commodityj} + AdjMean_{commodityji},12)),12) * Round(MIN(2 * ProjPrice_{commodityji}, Round(e^{(Pricecommodityji) * Price Volatility Factorcommodityj + LnMeancommodityji},12)),12) * Round(Acres_{commodityji},12)),12) | Simulated Revenue Protection Harvest Price Excluded Losses Whole Farm (SimRPhpeLossesWF) | Internal | | 9999999999999999999 | Round to 12 decimals. | Simulated Revenue Protection Harvest Price Excluded Losses for All Commodity/Acreage report lines in the Whole Farm Unit. |
| | | Coverage Level Percent _{commodityj} (covlvI) | P14 | 34 | 9.9999 | None | For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion). |
| | | Approved Yield _{commodityj} (AY) | P11 | 42 | 99999999.99 | None | Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit. For APH Trend, Yield Cup, and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied. |
| | | Reported Acreage _{commodityj} (Acres) | P11 | 48 | 999999.99 | None | Reported Acreage must equal the sum of all Land, P27, Reported Acreage. Reported Acreage for each Commodity/Acreage report line in the Whole Farm Unit. |
| | | Projected Price or Contract Price _{commodityj} (ProjPrice) | ADM | | 99999.9999 | None | Edit with ADM Price, "A00810". Projected Price or Contract Price (as addressed in Section 1) for each Commodity/Acreage report line in the Whole Farm Unit. |
| | | Yield Draw Quantity _{commodityj} i (Yield) | ADM | | S99.99999999 | None | Yield Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit. |
| | | Adjusted Standard Deviation Quantity _{commodityj} (AdjStnDev) | Internal | | 9999999999999999 | None | Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit. |
| | | Adjusted Mean Quantity _{commodityj} (AdjMean) | Internal | | 999999.99999999 | None | Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit. |
| | | Price Draw Quanity _{commodityj} i (Price) | ADM | | 599.99999999 | None | Price Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit. |

12/3/2019 Page 34 of 77

Record Name: Acreage
Record Code: P11

Reinsurance Year: 2019

Version: Approved

| | P11 | Release Date: 12/6/2019 | | | | | | |
|---------------------|--|---|---|-----------------|-------------------------------|---|--|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protectio | on with Harvest Price Exclusion | |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | | |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | Field Number | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | Rules | |
| (contintued) | all commodities \[\sum_{\text{Round}} \(\text{MAX} \) \(\text{0}, \sum_{\text{commodityj}} \) \(\text{summodityj} \) \(\text{summodityj} \) \(\text{summodityj} \) \(\text{ProjPrice}_{\text{commodityj}} \) \(\text{Acres}_{\text{commodityj}} \) \(\text{all commodities} \) \(\text{S Round} \(\text{MAX} \) \(\text{0}, \text{Round} \(\text{Yield}_{\text{commodityj}} \) \(\text{4dj} \) \(\text{Round} \(\text{MIN} \) \(\text{2} \) \(\text{ProjPrice}_{\text{commodityj}} \) \(\text{Round} \(\text{MIN} \) \(\text{2} \) \(\text{ProjPrice}_{\text{commodityj}} \) \(\text{Round} \(\text{elill} \) \(\text{Pricecommodityj} \) \(\text{ProjPrice}_{\text{commodityj}} \) \(\text{Round} \(\text{elill} \) \(\text{ProjPrice}_{\text{commodityj}} \) \(\text{ProjPrice}_{commodi | Price Volatility Factor _{commodityj} | Internal | | 999999.99999999 | None | Price Volatility Factor for each Commodity/Acreage report line in the Whole Farm Unit. | |
| | ,12)),12) * Round(Acres _{commodityj} ,12)), 12) | log Mean _{commodityj} (LnMean) | Internal | | 999999.99999999 | None | Log Mean for each Commodity/Acreage report line i the Whole Farm Unit. | |

12/3/2019 Page 35 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|---|---|--|------------------|-------------------------------|---|--------------------------|---|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | <u>Rules</u> |
| | <u>SimRPLossesWF</u> 500 | Coverage Level Percent _{commodityj} (covlvl) | P14 | 34 | 9.9999 | None | For Option Code "TA" (Trend Adjustment), "YO (Yield Cup), and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup) and "YE" (Yield Exclusion). |
| Revenue Protection Whole Farm Rate | $ = \sum_{\text{convodity}} \text{S}(\text{covlvl}_{\text{commodity}}) * \text{AY}_{\text{commodity}} * \text{ProjPrice}_{\text{commodity}} * $ | Revenue Protection Whole Farm Rate | Internal | | 9999999999999999 | Round to 8 decimals. | |
| | Acres _{commodityj}) | Projected Price or Contract Price _{commodityj} (ProjPrice) | ADM | | 99999.9999 | None | Edit with ADM Price, "A00810". Projected Price or Contract Price (as addresse in Section 1) for each Commodity/Acreage report line in the Whole Farm Unit. |
| Revenue Protection with Harvest Price Exclusion = Whole Farm Rate | <u>SimRPhpeLossesWF</u> 500 | Coverage Level Percent _{commodityj} (covlvl) | P14 | 34 | 9.9999 | None | For Option Code "TA" (Trend Adjustment), "Ye (Yield Cup), and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion). |
| | \(\(\text{COVIVI}_{commodityj} \) \(\text{AY}_{commodityj} \) \(\text{ProjPrice}_{commodityj} \) \(\text{j} = \) Acres_{commodityj} \) | Revenue Protection with Harvest Price Exclusion Whole Farm Rate | Internal | | 99999999999999999 | Round to 8 decimals. | |
| | | Projected Price or Contract Price _{commodityj} (ProjPrice) | ADM | | 99999.9999 | None | Edit with ADM Price, "A00810". Projected Price or Contract Price (as addresse in Section 1) for each Commodity/Acreage report line in the Whole Farm Unit. |

12/3/2019 Page 36 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|---------------------------------------|--|--|------------------|-------------------------------|---|---------------------------------|---|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans |
| | oots nice | 00+3 i opcom | | | ooo7 bry r cas | | 0091 Barley |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules |
| When Insurance Plan Code | equals Revenue Protection, "02": | | | | | | |
| Whole Farm Base Premium Rate | = Revenue Protection Whole Farm Rate | Whole Farm Base Premium Rate | Internal | | 999999999999999999999999999999999999999 | None | |
| When Insurance Plan Code "03": | equals Revenue Protection with Harvest Price Exclusion, | | | | | | |
| Whole Farm Base Premium Rate | = Revenue Protection with Harvest Price Exclusion Whole Farm Rate | Whole Farm Base Premium Rate | Internal | | 999999999.9999999 | None | |
| Section 8: Premium Rate | | | | | | | The Premium Rate for ALL Unit Structures should be capped at .999 in the event various adjustments to the Base Premium Rate would |
| | | 1 | ı | ı | | 1 | cause it to exceed 1.0. |
| When Unit Structure Code Premium Rate | equals Whole Farm Unit, "WU": MIN(.999, Round(Whole Farm Base Premium Rate * Sum ((Reported Acreage * Multiplicative Optional Rate Adjustment Factor) / Sum(Total Reported Acreage) for Whole Farm including Prevented Planting) + Sum ((Reported Acreage * Additive Optional Rate Adjustment Factor) / Sum(Total Reported Acreage) for Whole Farm including Prevented Planting), 8)) | Premium Rate | Internal | | 9999999999999999 | Round to 8 decimals. | Premium Rate is capped at 0.99900000. For situations where the option factors vary by Commodity, a reported Acreage weighted average of the Option Factors should be used to determine the Multiplicative and Additive Optional Rate adjustments to be used in the computation of the Premium Rate for Whole Farm Unit. |
| | · · · · | Total Reported Acreage | Internal | | 99999999.99 | None | Total Reported Acreage for the Whole Farm including Prevented Planting. |

12/3/2019 Page 37 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts 0041 Corn **Commodity Code** 0015 Canola 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field Field Field Record Calculations Name Number Number **Format** Rounding Rules Set Capped Revenue Add On Factor as follows: When Unit Structure Code DOES NOT EQUAL Whole Farm Unit, "WU": If Insurance Plan Code equals 01, Capped Revenue Add On Factor will equal zero. If Unit Structure Code does not equal Whole Farm (WU), set Capped Revenue Add On Factor as follows: If Section 6 is applicable, Capped Revenue Add On Factor will equal Capped Revenue Protection MIN(.999, Base Premium Rate * Unit Structure Discount Premium Rate = Factor * Multiplicative Optional Rate Adjustment Factor+ Add On Rate when Insurance Plan Code equals Premium Rate Internal 9999999999999999 Round to 8 decimals. 02 or Capped Revenue Protection with Harvest Additive Optional Rate Factor + Capped Revenue Add On Price Exclusion Add On Rate when Insurance Factor) Plan Code equals 03. If Section 6 is not applicable, Capped Revenue Add On Factor will equal Preliminary Revenue Protection Add On Rate when Insurance Plan Code equals 02 or Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate when Insurance Plan Code equals 03.

12/3/2019 Page 38 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019
Version: Approved
Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protect | ion with Harvest Price Exclusion |
|----------------------------|--|--|---------------|---------------|--------------------------------------|--|---|
| Commodity Code | 0011 Wheat 0015 Canola | 0021 Cotton 0041 Corn | | | 0047 Dry Beans 0051 Grain Sorghum | | 0075 Peanuts 0078 Sunflowers |
| commodity code | 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | | 0081 Soybeans |
| | | | | | , | | 0091 Barley |
| | | <u>Field</u> | Record | <u>Field</u> | <u>Field</u> | <u>Field</u> | |
| | Calculations | <u>Name</u> | <u>Number</u> | <u>Number</u> | <u>Format</u> | Rounding | Rules |
| Section 9: Total Premium | Amount, Subsidy Amount, and Producer Premium Amount | | | | | | |
| | | Preliminary Total Premium | Internal | | 999999999 | Round to whole number. | |
| | | Experience Factor | P11 | 47 | 9.999 | None | Experience Factor is only applicable for Insurance Plan Code Yield Protection, "01". |
| • | Preliminary Total Premium Prem | Premium Surcharge Percent | Internal | | | | Use when the Approved Yield Had a Cup or Surcharge applied. Does not apply when option "YC" is elected. Set to 1.00. |
| | | Total Premium Multiplicative Optional Rate Adjustment Factor | ADM | | 9.9999 | None | If Option Rate with Rate Method Code equal "T". Edit with ADM Option Rate, "A01060". Currently this will be used for Short Rate Option. |
| | Decline in any Tatal December * Multiple Commodity | Total Premium Amount | P11 | 95 | 999999999 | Round to whole number. | |
| Total Premium Amount | Preliminary Total Premium * Multiple Commodity = Adjustment Factor | Multiple Commodity Adjustment Factor | ICE | | 9999.999 | None | Edit with ICE Multiple Cropping, "D00063". Used when there is a first Commodity Loss. |
| Subsidy Amount | : = Total Premium Amount * Subsidy Percent | Subsidy Amount | P11 | 93 | 999999999 | Round to whole number. | If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 18 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 | 999999999 | Round to whole number. | |

12/3/2019 Page 39 of 77

Reinsurance Year: 2019 Version: Ann

| | | lame: Acreage Code: P11 | | | | on: Approved te: 12/6/2019 | |
|--------------------------------------|---|--------------------------------------|----------|--------------|--------------------|-------------------------------|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
| | 0011 Wheat | 0021 Cotton | | | 0047 Dry Beans | | 0075 Peanuts |
| Commodity Code | 0015 Canola | 0041 Corn | | | 0051 Grain Sorghum | | 0078 Sunflowers |
| | 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | | 0081 Soybeans |
| | | | | | | | 0091 Barley |
| | | <u>Field</u> | Record | <u>Field</u> | <u>Field</u> | <u>Field</u> | |
| | Calculations | <u>Name</u> | Number | Number | <u>Format</u> | Rounding | Rules |
| Cottonseed Endorsement (| Option 'SE' | | | | | | Information (Approved Yield, Reported Acres Insured Share Percent) will be obtained from Cotton P11 record and Rate Yield from P15 record associated with the Cottonseed record CAT does not apply to Plan 01 Cottonseed. Ustructure Code 'WU' does not apply to Cottonseed. |
| Section 10: Liability Calcul | lation | | | | | | |
| | | | | | | Round to whole | |
| | | Modified Yield | Internal | | 99999999.99 | Number. | |
| Modified Yield | Modified Yield = Approved Yield * Option Conversion Factor | Approved Yield | P11 | 42 | 99999999.99 | None | From Cotton P11 record. For skip row cotton, the approved yield is the converted approved yield from the P15 recor with skip row (yield conversion factor) applie |
| | | Option Conversion Factor | ADM | | 9.9999 | None | Edit with ADM Option Rate, "A01060". |
| Premium Guarantee Per Acre Amount | = Modified Yield * Coverage Level Percent | Premium Guarantee Per Acre Amount | Internal | | 999999999.99 | Round to whole number. | |
| | | Coverage Level Percent | P14 | 34 | 9.9999 | None | |
| Constant Day Assa | When Guarantee Adjustment Type Code equals Late Planting, "L" OR Prevented Planting, "P": | Guarantee Per Acre Amount | Internal | | 999999999.99 | Round to whole number. | |
| Guarantee Per Acre Amount | | Guarantee Adjustment Factor | P11 | 69 | 0.999 | None | Edit with the Guarantee Adjustment ICE, "D00068" or ADM Guarantee Adjustment, "A01220" for Prevented Planting. |
| Price Flortion Amount | • | Price Election Amount | Internal | | 9999.9999 | None | Cottonseed will equal the Projected Price fro ADM regardless of Price Election Percent for Cotton Lint. |
| rnice Liection Amount | = Projected Price * Price Election Percent | Projected Price | ADM | | 99999.9999 | | |
| | | Price Election Percent | ICE | | 9.9999 | None | Will always be 1.000 for Cottonseed. |
| Premium Total Guarantee | Premium Guarantee Per Acre Amount * Price Election | Premium Total Guarantee Amount | Internal | | 999999999999 | Round to 2 decimals. | |
| Amount | = Amount * Reported Acreage | Price Election Amount | Internal | | 9999.9999 | None | |
| Amount Amount * Reported Acreage | | | | | | | |

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Commodity Code (| 0011 Wheat 0015 Canola | 02 Revenue Protection 0021 Cotton | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|------------------------------|---|---|------------------|-------------------------------|---|---------------------------------|--|
| Commodity Code (| 0015 Canola | 0021 Cotton | | | | | |
| | 0018 Rice | 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| <u>(</u> | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules |
| Total Guarantee Amount = | Guarantee Per Acre Amount * Price Election Amount * | Total Guarantee Amount | P11 | 103 | 99999999.99 | Round to 2 decimals. | |
| F | Reported Acreage | Price Election Amount Reported Acreage | Internal P11 | 48 | 9999.9999 999999.99 | None None | From Cotton P11 record. |
| Premium Liability Amount = F | Premium Total Guarantee Amount * Insured Share Percent | Premium Liability Amount | Internal | | 999999999 | Round to whole number. | |
| | | Insured Share Percent | P11 | 43 | 9.9999 | None | From Cotton P11 record. |
| Liability Amount = T | Total Guarantee Amount * Insured Share Percent | Liability Amount | P11 | 94 | 999999999 | Round to whole number. | |
| Section 11: Premium Rate | | Insured Share Percent | P11 | 43 | 9.9999 | None | From Cotton P11 record. |
| Premium Rate = F | MIN(.999, Base Premium Rate * Unit Structure Discount Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor) | Premium Rate | Internal | | 9999999999999999 | Round to 8 decimals. | To Determine the Premium Rate for the Cottonseed records: 1) Use the Rate Yield as determined under normal procedures. 2) Process the Rate Yield through section 3 of these procedures using the rating components for regular Cotton offer. If Yield Exclusion is elected, see section 24 for the current year base premium rate calculatio when the Effective Coverage Level exceeds the MAX ADM coverage level. 3) Find the Unit Structure Discount Factor to be applied later from section 2 of these procedur for regular Cotton offer. 4) Find the applicable Option Factors to be applied later from section 4 for regular Cotton offer. 5) Sections 5, 6, 7 are not applicable for Cottonseed records. |
| | | Multiplicative Optional Rate Adjustment Factor Additive Optional Rate | Internal | | 99999.9999 | | |

12/3/2019 Page 41 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019
Version: Approved

Release Date: 12/6/2019 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field Field Record **Field** Calculations Name Number Number **Format** Rounding Rules Section 12: Total Premium Amount, Subsidy Amount, and Producer Premium Amount Round to whole 999999999 Preliminary Total Premium Internal number. Preliminary Total Premium Liability Amount Premium Rate Experience Factor Premium Rate Surcharge Percent Experience Factor is only applicable for **Experience Factor** P11 47 9.999 None Insurance Plan Code Yield Protection, "01". Premium Rate Surcharge Does not apply when option "YC" is elected. Set Percent to 1.00. Round to whole **Total Premium Amount** P11 95 999999999 Preliminary Total Premium * Multiple Commodity number. Total Premium Amount = Adjustment Factor Multiple Commodity ICE 9999.999 None Edit with ICE Multiple Cropping, "D00063". Adjustment Factor If this record qualifies for Beginning Farmer and Round to whole Subsidy Amount 93 Rancher or Native Sod, see Section 18 for P11 999999999 number. Subsidy Amount = Total Premium Amount * Subsidy Percent subsidy calculations. Subsidy Percent ADM 9.999 None Edit with ADM Subsidy Percent, "A00070". Producer Premium Amount - Subsidy Amount Amount - Subsidy Amount Round to whole P11 94 **Producer Premium Amount** 999999999 number. Trend Adjustment Option (TA), Yield Cup Option APH Yield Trend (Trend Adjustment Option 'TA'), Yield Cup (Option 'YC') and Yield (YC), and Yield Exclusion Option (YE) ONLY Exclusion (Option 'YE') available in select counties for selected crops. See "white papers" for examples. Section 13: Effective Coverage Level Calculation When Commodity Code equals Dry Beans "0047" and Type Code equals Contract "62", or Commodity Code equals Dry Peas "0067" and Type Code equals Spring Contract "98": Effective Coverage Level Internal 99.9999 Round to 2 decimals. Percent Coverage Level Percent P14 34 9.9999 None For APH Trend, Yield Cup, and Yield Exclusion, Effective Coverage Level _ Coverage Level Percent * Round(Approved Yield * Contract the Approved Yield will be the greater of the Approved Yield P11 42 99999999.99 None Percent Price,0) / Adjusted Yield calculated Approved Yield and the Adjusted Yield. **Contract Price** 46 P11 9999.9999 None P15 44 Adjusted Yield 9999999.99 None

12/3/2019 Page 42 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|-------------------------------------|--|----------------------------------|---------------|---------------|--------------------|------------------------------|---|
| | 0011 Wheat | 0021 Cotton | | | 0047 Dry Beans | | 0075 Peanuts |
| Commodity Code | 0015 Canola | 0041 Corn | | | 0051 Grain Sorghum | | 0078 Sunflowers |
| | 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | | 0081 Soybeans |
| | | | | | | | 0091 Barley |
| | | <u>Field</u> | Record | <u>Field</u> | <u>Field</u> | <u>Field</u> | |
| | Calculations | <u>Name</u> | <u>Number</u> | <u>Number</u> | <u>Format</u> | Rounding | <u>Rules</u> |
| For all others: | | | | | | | |
| | | Effective Coverage Level Percent | Internal | | 99.9999 | Rounded to 2 decimal places. | |
| | | Coverage Level Percent | P14 | 34 | 9.9999 | None | |
| Effective Coverage Level Percent | = Coverage Level Percent * Approved Yield/Adjusted Yield | Approved Yield | P11 | 42 | 9999999.99 | None | For APH Trend, Yield Cup, and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied. |
| | | Adjusted Yield | P15 | 44 | 99999999.99 | None | For skip row commodities, the adjusted yield is the converted adjusted yield from the P15 record with skip row (yield conversion factor) applied. |

12/3/2019 Page 43 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019
Version: Approved
Release Date: 12/6/2019

| | Record Code | : P11 | | | Release Dat | e: 12/6/2019 | |
|----------------------------|---|--|------------------|-------------------------------|---|---------------------------------|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | on with Harvest Price Exclusion |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules |
| ection 14: Rate Differenti | | | | | | | When Trend Adjustment Option (TA) was chosen and yield reflects a trend or when Yiel Cup Option "YC" was chosen or when Yield Exclusion Option "YE" was chosen. |
| hen the Insurance Option | n Code List contains Options "YE" or "YC": | | | 1 | | <u> </u> | |
| | | Rate Differential Factor | Internal | | 9.99999999 | Round to 9 decimal places | |
| | | Base Rate Differential Factor | ADM | | 9.99999999 | None | Base Rate Differential Factor is equal to Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Lev Differential, "A01040". |
| Rate Differential Factor | (1+ (ROUND (MIN (((MAX (0.85,Effective Coverage Level Percent) -0.85) / 0.15) ,1) ³ ,7)) * 0.05) * (Round(Base Rate Differential Factor + (Upper Bound Rate Differential Factor - Lower Bound Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9)) | Upper Bound Rate Differential Factor | ADM | | 9.99999999 | None | Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. |

12/3/2019 Page 44 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protec | tion with Harvest Price Exclusion | |
|--------------------------------------|---|---|------------------|-----------------|-------------------------------|------------------------------|---|--|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0047 Dry Beans 0041 Corn 0051 Grain Sort 0043 Popcorn 0067 Dry Peas | | | | rain Sorghum 0078 Sunflowers | | |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | Field Number | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | Rules | |
| | (1+ (ROUND (MIN (((MAX (0.85,Effective Coverage Level Percent) -0.85) / 0.15) ,1) ³ ,7)) * 0.05) * (Round(Base | Lower Bound Rate Differential Factor | ADM | | 9.999999999 | None | Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equal an existing ADM Coverage Level then this wi based on the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level Percent is gre than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. | |
| Rate Differential Factor (continued) | = Rate Differential Factor + (Upper Bound Rate Differential Factor - Lower Bound Rate Differential Factor) * (Effective | Effective Coverage Level Percent | Internal | | 99.9999 | None | | |
| | Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9)) | Floored Effective Coverage Level Percent | Internal | | 99.9999 | None | Based on the 'floored' Coverage Level. Edit v ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equal an existing ADM Coverage Level then this wil the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is great than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level. | |

12/3/2019 Page 45 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protectio | n with Harvest Price Exclusion |
|--|---|--|------------------|-------------------------------|---|----------------------------|--|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | Rules |
| | | Prior Year Rate Differential Factor | Internal | | 9.99999999 | Round to 9 decimal places. | |
| | | Base Prior Year Rate Differential Factor | ADM | | 9.99999999 | None | Base Prior Year Rate Differential Factor is equal to Prior Year Rate Differential for Minimum of 1 Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". |
| Prior Year Rate Differential Factor | Round(Base Prior Year Rate Differential Factor + (Upper Bound Prior Year Rate Differential Factor - Lower Bound = Prior Year Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9) | Upper Bound Prior Year Rate Differential Factor | ADM | | 9.99999999 | None | Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. |

12/3/2019 Page 46 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protec | tion with Harvest Price Exclusion |
|--|---|--|------------------|-------------------------------|---|---|--|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules |
| | Round(Base Prior Year Rate Differential Factor + (Upper | Lower Bound Prior Year Rate Differential Factor | ADM | | 9.99999999 | None | Based on the 'lower bound' Coverage Leve Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will based on the Effective Coverage Level. If the Effective Coverage Levels then this will based on lower ADM Coverage Levels then this will based on lower ADM Coverage Level. If the Effective Coverage Level is greater the maximum ADM Coverage Level then the will be based on the second highest ADM Coverage Level. |
| Prior Year Rate Differential Factor | Bound Prior Year Rate Differential Factor - Lower Bound = Prior Year Rate Differential Factor) * (Effective Coverage | Effective Coverage Level Percent | Internal | | 99.9999 | None | |
| (contintued) | Level Percent - Floored Effective Coverage Level Percent) * 20, 9) | Floored Effective Coverage Level Percent | Internal | | 99.9999 | None | Based on the 'floored' Coverage Level. Edi ADM Coverage Level Differential, "A01040 If the Effective Coverage Level Percent equ an existing ADM Coverage Level then this the Effective Coverage Level Percent. If the Effective Coverage Level Percent fall between existing ADM Coverage Levels this will be the lower ADM Coverage Level If the Effective Coverage Level Percent is g than the maximum ADM Coverage Level this will be the highest ADM Coverage Level |

12/3/2019 Page 47 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

03 Revenue Protection with Harvest Price Exclusion Insurance Plan Code 01 Yield Protection 02 Revenue Protection 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0067 Dry Peas 0018 Rice 0043 Popcorn 0081 Soybeans

| 0010 Nice | 0043 F 0pcom | | | ooor bry reas | | 0091 Barley |
|--|---|---------------------|---------------|---------------|---------------------------|---|
| | <u>Field</u> | Record | <u>Field</u> | <u>Field</u> | <u>Field</u> | |
| <u>Calculations</u> | <u>Name</u> | Number | <u>Number</u> | <u>Format</u> | Rounding | Rules |
| When Trend Adjustment Option "TA" is elected alone (excludes "YC" and "YE") | | | 1 | | 1 | |
| | Rate Differential Factor | Internal | | 9.99999999 | Round to 9 decimal places | |
| | Base Rate Differential Factor | ADM | | 9.99999999 | None | Base Rate Differential Factor is equal to Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". |
| Round(Base Rate Differential Factor + (Upper Bound Rate Differential Factor - Lower Bound Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9) | Upper Bound Rate Differential Factor | ADM | | 9.99999999 | None | Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. |
| | Lower Bound Rate Differential Factor | ADM | | 9.99999999 | None | Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. |
| 12/3/2019 | Effective Coverage Level Percent Page 4 | Internal 8 of 77 | | 99.9999 | None | |

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protect | on with Harvest Price Exclusion |
|--------------------------|---|---|----------|-------|--------------------------------------|--------------------|---|
| Commodity Code | 0011 Wheat 0015 Canola | 0021 Cotton 0041 Corn | | | 0047 Dry Beans 0051 Grain Sorghum | | 0075 Peanuts 0078 Sunflowers |
| commodity code | 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | | 0081 Soybeans |
| | | Field | Record | Field | Field | Field | 0091 Barley |
| | Calculations | <u>Name</u> | Number | | <u>Format</u> | Rounding | Rules |
| Rate Differential Factor | Round(Base Rate Differential Factor + (Upper Bound Rate Differential Factor - Lower Bound Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9) | Floored Effective Coverage Level Percent | Internal | | 99.9999 | None | Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level. |

12/3/2019 Page 49 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protectio | n with Harvest Price Exclusion |
|--|---|--|------------------|------------------------|------------------------|----------------------------|--|
| | 0011 Wheat | 0021 Cotton | | | 0047 Dry Beans | | 0075 Peanuts |
| Commodity Code | 0015 Canola | 0041 Corn | | | 0051 Grain Sorghum | | 0078 Sunflowers |
| | 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | | 0081 Soybeans |
| | | e: -1.4 | Deserved | E:-I-I | e:-I.i | e:-14 | 0091 Barley |
| | Calculations | <u>Field</u> Name | Record Number | <u>Field</u> Number | <u>Field</u> Format | <u>Field</u> Rounding | Rules |
| | | Prior Year Rate Differential Factor | Internal | | 9.99999999 | Round to 9 decimal places. | |
| | | Base Prior Year Rate Differential Factor | ADM | | 9.99999999 | None | Base Prior Year Rate Differential Factor is equa to Prior Year Rate Differential for Minimum of Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". |
| Prior Year Rate Differential Factor | Round(Base Prior Year Rate Differential Factor + (Upper Bound Prior Year Rate Differential Factor - Lower Bound = Prior Year Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9) | Upper Bound Prior Year Rate Differential Factor | ADM | | 9.99999999 | None | Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. |

12/3/2019 Page 50 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protect | ion with Harvest Price Exclusion | |
|--|--|--|------------------|-------------------------------|---|---------------------------------|--|--|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0041 Corn 0 | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules | |
| | Round(Base Prior Year Rate Differential Factor + (Upper | Lower Bound Prior Year Rate Differential Factor | ADM | | 9.99999999 | None | Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. | |
| Prior Year Rate Differential Factor | = Prior Year Rate Differential Factor) * (Effective Coverage | Effective Coverage Level Percent | Internal | | 99.9999 | None | | |
| (contintued) | Level Percent - Floored Effective Coverage Level Percent) * 20, 9) | Floored Effective Coverage Level Percent | Internal | | 99.9999 | None | Based on the 'floored' Coverage Level. Edit v ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equal an existing ADM Coverage Level then this wil the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greatent the maximum ADM Coverage Level then this will be the highest ADM Coverage Level. | |

12/3/2019 Page 51 of 77

Record Name: Acreage

Reinsurance Year: 2019 Version: Approved

| | Record Nam Record Coo | = | | | on: Approved te: 12/6/2019 | | |
|---------------------------|--|--|----------|--------------|---|--|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | on with Harvest Price Exclusion |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | Record | <u>Field</u> | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas <u>Field</u> | <u>Field</u> | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| Section 15: Unit Residual | | <u>Name</u> | Number | Number | <u>Format</u> | Rounding | Rules The lookup/interpolation/extrapolation procedure for 'Unit Residual Factor and Prior Unit Residual Factor' when Trend Adjustment Option (TA) was chosen and yield reflects a trend or when Yield Cup Option was chosen or when Yield Exclusion Option "YE" was chosen. |
| When Unit Structure Code | is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, " | Unit Residual Factor | Internal | Residual F | 999.999 | Residual Factor: Round to 3 decimal places. | The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure regardless of Coverage Type Code where applicable (Buyup/CAT). |
| | | Base Unit Residual Factor | ADM | | 999.999 | None | Base Unit Residual Factor is equal to Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". |
| Unit Residual Factor | Round(Base Unit Residual Factor + (Upper Bound Unit Residual Factor - Lower Bound Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3) | Upper Bound Unit Residual Factor | ADM | | 999.999 | None | Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level Percent is greate than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. |

12/3/2019 Page 52 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

03 Revenue Protection with Harvest Price Exclusion **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field Field Field Record **Calculations** Name Number Number **Format** Rounding Rules Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. Lower Bound Unit Residual ADM 999.999 If the Effective Coverage Level falls between None Factor existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. Round(Base Unit Residual Factor + (Upper Bound Unit Effective Coverage Level Internal 99.9999 None Unit Residual Factor _ Residual Factor - Lower Bound Unit Residual Factor) * Percent (contintued) (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3) Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. Floored Effective Coverage Internal 99.9999 None If the Effective Coverage Level Percent falls Level Percent between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

12/3/2019 Page 53 of 77

Record Name: Acreage Record Code: P11

Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protectio | n with Harvest Price Exclusion |
|---------------------|---|--|---------------------|-----------------|---|----------------------------|--|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | Calculations | <u>Field</u> Name | Record Number | Field Number | <u>Field</u> Format | <u>Field</u> Rounding | Rules |
| | | Prior Year Unit Residual Factor | Internal | | 999.999 | Round to 3 decimal places. | The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure |
| | | Base Prior Year Unit Residual Factor | ADM | | 999.999 | None | Base Prior Year Unit Residual Factor is equal to Prior Year Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". |
| | Round(Base Prior Year Unit Residual Factor + (Upper Bound Prior Year Unit Residual Factor - Lower Bound Prior Year Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3) | Upper Bound Prior Year Unit Residual Factor | ADM | | 999.999 | None | Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. |
| | | Lower Bound Prior Year Unit Residual Factor | ADM | | 999.999 | None | Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. |
| 12/3/2019 | | Effective Coverage Level Percent Page 5 | Internal 4 of 77 | | 99.9999 | None | |

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| | Record Code: | Record Code: PII | | | Kelease Date: 12/6/2019 | | | | |
|---|---|---|------------------|-------------------------------|---|---------------------------------|--|--|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protect | ion with Harvest Price Exclusion | | |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | | |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules | | |
| Prior Year Unit Residual Factor (continued) | Unit Residual Factor) * (Effective Coverage Level Percent - | Floored Effective Coverage Level Percent | Internal | | 99.9999 | None | Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level. | | |

12/3/2019 Page 55 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| necord code. 111 necose butc. 12/0/2015 | | | | | | | |
|---|---|--|------------------|------------------------|---|---|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protectio | n with Harvest Price Exclusion |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> Number | <u>Field</u> Format | <u>Field</u> <u>Rounding</u> | Rules |
| nen Unit Structure Code | is equal to Enterprise Unit, 'EU' or 'EP', use the following calc | ulations for Enterprise Unit Resi | idual Factor | and Prior | Year Enterprise Unit Resid | ual Factor: | |
| | | Enterprise Unit Residual Factor | Internal | | 999.999 | Round to 3 decimal places. | The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage level within the chosen unit structure |
| | | Base Enterprise Unit Residual Factor | ADM | | 999.999 | None | Base Enterprise Unit Residual Factor is equal Enterprise Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". |
| | Round(Base Enterprise Unit Residual Factor + (Upper Bound = Enterprise Unit Residual Factor - Lower Bound Enterprise Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3) | Upper Bound Enterprise Unit Residual Factor | ADM | | 999.999 | None | Based on the 'upper bound' Coverage Level Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equal an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent falls between existing ADM Coverage Levels their this will be based on the higher ADM Coverage Level. If the Effective Coverage Level Percent is greatly than the maximum ADM Coverage Level their this will be based on the highest ADM Coverage Level their will be based on the highest ADM Coverage Level. |

12/3/2019 Page 56 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | on with Harvest Price Exclusion |
|--|--|--|---------------|--------------|--------------------------------------|--|--|
| Commodity Code | 0011 Wheat 0015 Canola | 0021 Cotton 0041 Corn | | | 0047 Dry Beans 0051 Grain Sorghum | | 0075 Peanuts 0078 Sunflowers |
| commounty code | 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | | 0081 Soybeans |
| | | | | | | | 0091 Barley |
| | | <u>Field</u> | Record | <u>Field</u> | <u>Field</u> | <u>Field</u> | |
| | <u>Calculations</u> | <u>Name</u> | <u>Number</u> | Number | <u>Format</u> | Rounding | <u>Rules</u> |
| | | Lower Bound Enterprise Unit Residual Factor | ADM | | 999.999 | None | Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. |
| Enterprise Unit Residual Factor | Round(Base Enterprise Unit Residual Factor + (Upper Bound Enterprise Unit Residual Factor - Lower Bound Enterprise Unit Residual Factor) * (Effective Coverage Level Percent - | Effective Coverage Level Percent | Internal | | 99.9999 | None | |
| (contintued) Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3) | Floored Effective Coverage Level Percent | Internal | | 99.9999 | None | Based on the 'floored' Coverage Level. Edit wit ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greated than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level. | |

12/3/2019 Page 57 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

03 Revenue Protection with Harvest Price Exclusion **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts 0015 Canola **Commodity Code** 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field Field Field Record Number **Calculations** Name Number **Format** Rounding Rules The cap value for the Residual Factors is the Prior Year Enterprise Unit Round to 3 decimal Internal 999.999 MAX(Residual Factor) from all coverage levels Residual Factor places. within the chosen unit structure Base Enterprise Prior Year Unit Residual Factor is equal to Enterprise Prior Year Unit Residual for Minimum of 1) Maximum available Base Enterprise Prior Year Unit ADM 999.999 None Coverage Level or; 2) available Coverage Level Residual Factor less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Round(Base Enterprise Prior Year Unit Residual Factor + (Upper Bound Prior Year Enterprise Unit Residual Factor -Prior Year Enterprise Unit = Lower Bound Prior Year Enterprise Unit Residual Factor) * Based on the 'upper bound' Coverage Level. **Residual Factor** (Effective Coverage Level Percent - Floored Effective Edit with ADM Coverage Level Differential, "A01040". Coverage Level Percent) * 20, 3) If the Effective Coverage Level equals an existing ADM Coverage Level then this will be Upper Bound Prior Year based on the Effective Coverage Level. Enterprise Unit Residual ADM 999.999 None If the Effective Coverage Level falls between Factor existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

12/3/2019 Page 58 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019
Version: Approved
Release Date: 12/6/2019

Insurance Plan Code 01 Yield Protection 03 Revenue Protection with Harvest Price Exclusion 02 Revenue Protection 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field Field Field Record **Calculations** <u>Name</u> Number Number **Format** Rounding Rules Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be Lower Bound Prior Year based on the Effective Coverage Level. Enterprise Unit Residual ADM 999.999 None If the Effective Coverage Level falls between Factor existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. Round(Base Enterprise Prior Year Unit Residual Factor + Prior Year Enterprise Unit (Upper Bound Prior Year Enterprise Unit Residual Factor -Effective Coverage Level Residual Factor = Lower Bound Prior Year Enterprise Unit Residual Factor) * Internal None 99.9999 Percent (continued) (Effective Coverage Level Percent - Floored Effective Based on the 'floored' Coverage Level. Edit with Coverage Level Percent) * 20, 3) ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be Floored Effective Coverage the lower ADM Coverage Level. Internal 99.9999 None Level Percent If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

12/3/2019 Page 59 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019

Version: Approved

Release Date: 12/6/2019

| | Record Code | Release Date: 12/6/2019 | | | | | | |
|------------------------------------|---|--|------------------|------------------------|----------------------------|----------------------------|--|--|
| | | | | | | | | |
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protectio | n with Harvest Price Exclusion | |
| | 0011 Wheat | 0021 Cotton | | | 0047 Dry Beans | | 0075 Peanuts | |
| Commodity Code | 0015 Canola | 0041 Corn | | | 0051 Grain Sorghum | | 0078 Sunflowers | |
| | 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | | 0081 Soybeans | |
| | | | T | | | | 0091 Barley | |
| | Calculations | <u>Field</u> Name | Record Number | <u>Field</u> Number | <u>Field</u> Format | <u>Field</u> Rounding | Rules | |
| When Unit Structure Code | is equal to Whole Farm Unit, 'WU', use the following calculat | ions for Whole Farm Unit Resid | ual Factor a | nd Prior Y | ear Whole Farm Unit Residu | ial Factor: | | |
| | | Whole Farm Unit Residual Factor | Internal | | 999.999 | Round to 3 decimal places. | The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure | |
| | | Base Whole Farm Unit Residual Factor | ADM | | 999.999 | None | Base Whole Farm Unit Residual Factor is equal to Whole Farm Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". | |
| Whole Farm Unit Residual Factor | Round(Base Whole Farm Unit Residual Factor + (Upper Bound Whole Farm Unit Residual Factor - Lower Bound = Whole Farm Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3) | Upper Bound Whole Farm Unit Residual Factor | ADM | | 999.999 | None | Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level Percent is greate than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. | |

12/3/2019 Page 60 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

03 Revenue Protection with Harvest Price Exclusion **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts 0015 Canola **Commodity Code** 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field Field Field Record **Calculations** Name Number Number **Format** Rounding Rules Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. Lower Bound Whole Farm ADM 999.999 None If the Effective Coverage Level falls between Unit Residual Factor existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. Round(Base Whole Farm Unit Residual Factor + (Upper Whole Farm Unit Residual Bound Whole Farm Unit Residual Factor - Lower Bound Effective Coverage Level Internal 99.9999 None Factor = Whole Farm Unit Residual Factor) * (Effective Coverage Percent (continued) Level Percent - Floored Effective Coverage Level Percent) * 20, 3) Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. Floored Effective Coverage If the Effective Coverage Level Percent falls Internal 99.9999 None Level Percent between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

12/3/2019 Page 61 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved

Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protectio | n with Harvest Price Exclusion | |
|---------------------|---|---|------------------|-------------------------------|-------------------------------|---|---|--|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton0047 Dry Beans0041 Corn0051 Grain Sorghum0043 Popcorn0067 Dry Peas | | | 0051 Grain Sorghum | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | | |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | Rules | |
| | | Prior Year Whole Farm Unit Residual Factor | Internal | | 999.999 | Round to 3 decimal places. | The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure | |
| | Round(Base Whole Farm Prior Year Unit Residual Factor + (Upper Bound Prior Year Whole Farm Unit Residual Factor - Lower Bound Prior Year Whole Farm Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3) | Base Whole Farm Base Prior Year Unit Residual Factor | ADM | | 999.999 | None | Base Whole Farm Base Prior Year Unit Residual Factor is equal to Whole Farm Base Prior Year Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". | |

12/3/2019 Page 62 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protecti | on with Harvest Price Exclusion |
|---|---|--|------------------|-------------------------------|---|---------------------------------|--|
| Commodity Code | | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules |
| | Round(Base Whole Farm Prior Year Unit Residual Factor + | Upper Bound Prior Year Whole Farm Unit Residual Factor | ADM | | 999.999 | None | Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. |
| Prior Year Whole Farm Unit Residual Factor | Upper Bound Prior Year Whole Farm Unit Residual Factor - Lower Bound Prior Year Whole Farm Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3) | Lower Bound Prior Year Whole Farm Unit Residual Factor | ADM | | 999.999 | None | Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. |
| | | Effective Coverage Level Percent | Internal | | 99.9999 | None | |

12/3/2019 Page 63 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| | Record Code: P11 | | | Release Date: 12/6/2019 | | | | | |
|---|---|---|----------|-------------------------|--------------------|--------------------|---|--|--|
| Incurance Dian Code | 01 Yield Protection | 02 Revenue Protection | | | | 02 Payanua Pratast | ion with Harvest Price Exclusion | | |
| Insurance Plan Code | OI Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protect | ion with Harvest Price Exclusion | | |
| | 0011 Wheat | 0021 Cotton | | | 0047 Dry Beans | | 0075 Peanuts | | |
| Commodity Code | 0015 Canola | 0041 Corn | | | 0051 Grain Sorghum | | 0078 Sunflowers | | |
| | 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | | 0081 Soybeans | | |
| | | T | 1 | | ì | Ť | 0091 Barley | | |
| | | <u>Field</u> | Record | <u>Field</u> | <u>Field</u> | <u>Field</u> | | | |
| | Calculations | <u>Name</u> | Number | Number | <u>Format</u> | Rounding | Rules | | |
| Prior Year Whole Farm Unit Residual Factor | Round(Base Whole Farm Prior Year Unit Residual Factor + (Upper Bound Prior Year Whole Farm Unit Residual Factor - Lower Bound Prior Year Whole Farm Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3) | Floored Effective Coverage Level Percent | Internal | | 99.9999 | None | Based on the 'floored' Coverage Level. Edit wi ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level. | | |
| ection 15: Unit Discount (| Calculation | | | | | | The lookup/interpolation/extrapolation procedure for 'Optional Unit Discount Factor, Basic Unit Discount Factor, and Enterprise Unit Discount Factor' when Trend Adjustment Opti (TA), Yield Cup Option (YC), or Yield Exclusion Option (YE) was chosen and yield reflects a trend. | | |

12/3/2019 Page 64 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protectio | n with Harvest Price Exclusion |
|-----------------------------------|---|--|------------------|------------------------|---|----------------------------|---|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | Calculations | <u>Field</u> Name | Record Number | <u>Field</u> Number | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | Rules |
| | | Unit Structure Discount Factor | Internal | | 9.99999999 | Round to 4 decimal places. | Capped at 1.0 |
| | | Base Coverage Level Percent Optional Unit Discount Factor | ADM | | 9.99999999 | None | Base Coverage Level Percent Optional Unit Discount Factor is equal to Percent Optional Discount for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". |
| Unit Structure Discount Factor | = Unit Discount Factor - Lower Round Coverage Level Percent | Upper Bound Coverage Level Percent Optional Unit Discount Factor | ADM | | 9.99999999 | None | Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. |
| | | Lower Bound Coverage Level Percent Optional Unit Discount Factor | ADM | | 9.99999999 | None | Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. |
| | | Effective Coverage Level Percent | Internal | | 99.9999 | None | |

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| | | | | Hereade Date: 12/0/2019 | | | | | |
|--|---|---|------------------|-------------------------------|---|---------------------------------|---|--|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protect | ion with Harvest Price Exclusion | | |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | | |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules | | |
| Unit Structure Discount Factor : (continued) | = Unit Discount Factor - Lower Bound Coverage Level Percent | Floored Effective Coverage Level Percent | Internal | | 99.9999 | None | Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level. | | |

12/3/2019 Page 66 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| | Record Code: | FII | | | nelease Dat | e: 12/6/2019 | |
|-----------------------------------|---|---|------------------|-------------------------------|---|----------------------------|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protectio | n with Harvest Price Exclusion |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | Rules |
| When Unit Structure Code | is equal to Basic Unit, 'BU', use the following calculation for U | nit Structure Discount Factor: | | | | | |
| | • | Unit Structure Discount Factor | Internal | | 9.99999999 | Round to 4 decimal places. | Capped at 1.0 |
| | | Base Coverage Level Percent Basic Unit Discount Factor | ADM | | 9.99999999 | None | Base Coverage Level Percent Basic Unit Discoun Factor is equal to Basic Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than o equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". |
| Unit Structure Discount Factor | Round(Base Coverage Level Percent Basic Unit Discount Factor + (Upper Bound Coverage Level Percent Basic Unit = Discount Factor - Lower Bound Coverage Level Percent Basic Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4) | Upper Bound Coverage Level Percent Basic Unit Discount Factor | ADM | | 9.99999999 | None | Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. |
| | | Lower Bound Coverage Level Percent Basic Unit Discount Factor | ADM | | | None | Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. |
| 12/3/2019 | | Effective Coverage Level Percent | Internal | | 99.9999 | None | |

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| | Record Code. 111 | | | Neleuse Bute. 12/0/2013 | | | | |
|--|---|---|---|-------------------------------|-------------------------------|---|---|--|
| | | | | | | | | |
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protect | on with Harvest Price Exclusion | |
| Commodity Code | 0015 Canola | 0021 Cotton 0041 Corn 0043 Popcorn | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | | |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules | |
| Unit Structure Discount Factor (continued) | Round(Base Coverage Level Percent Basic Unit Discount Factor + (Upper Bound Coverage Level Percent Basic Unit = Discount Factor - Lower Bound Coverage Level Percent Basic Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4) | Floored Effective Coverage Level Percent | Internal | | 99.9999 | None | Based on the 'floored' Coverage Level. Edit wit' ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level. | |

12/3/2019 Page 68 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved

Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | on with Harvest Price Exclusion |
|-----------------------------------|--|--|---------------------|--------------|---|-----------------------|--|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | | <u>Field</u> | Record | <u>Field</u> | <u>Field</u> | <u>Field</u> | |
| 144 U.S | Calculations | Name | Number | Number | <u>Format</u> | Rounding | Rules |
| When Unit Structure Code | is equal to Enterprise Unit, 'EU' or 'EP', use the following calc | liation for Unit Structure Discou | int Factor: | | | Round to 4 decimal | |
| | | Unit Structure Discount Factor | Internal | | 9.99999999 | places. | Capped at 1.0 |
| | | Base Coverage Level Percent Enterprise Unit Discount Factor | ADM | | 9.999999999 | None | Base Coverage Level Percent Enterprise Unit Discount Factor is equal to Enterprise Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". |
| Unit Structure Discount Factor | Round(Base Coverage Level Percent Enterprise Unit Discount Factor + (Upper Bound Coverage Level Percent Enterprise Unit Discount Factor - Lower Bound Coverage Level Percent Enterprise Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4) | Upper Bound Coverage Level Percent Enterprise Unit Discount Factor | ADM | | 9.99999999 | None | Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. |
| | recently 20, 4) | Lower Bound Coverage Level Percent Enterprise Unit Discount Factor | ADM | | | None | Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. |
| 12/3/2019 | | Effective Coverage Level Percent Page 6 | Internal 9 of 77 | | 99.9999 | None | |

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| | Record Code: | Record Code: P11 | | | nelease Date: 12/0/2019 | | | | |
|--|--|---|---------------|--------------|-------------------------|-----------------------|---|--|--|
| | | | | | | | | | |
| <u>Insurance Plan Code</u> | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | on with Harvest Price Exclusion | | |
| | 0011 Wheat | 0021 Cotton | | | 0047 Dry Beans | | 0075 Peanuts | | |
| Commodity Code | 0015 Canola | 0041 Corn | | | 0051 Grain Sorghum | | 0078 Sunflowers | | |
| | 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | | 0081 Soybeans | | |
| | | | | | | | 0091 Barley | | |
| | | <u>Field</u> | Record | <u>Field</u> | <u>Field</u> | <u>Field</u> | | | |
| | Calculations | <u>Name</u> | <u>Number</u> | Number | <u>Format</u> | Rounding | <u>Rules</u> | | |
| Unit Structure Discount Factor (continued) | Round(Base Coverage Level Percent Enterprise Unit Discount Factor + (Upper Bound Coverage Level Percent Enterprise Unit Discount Factor - Lower Bound Coverage Level Percent Enterprise Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4) | Floored Effective Coverage Level Percent | Internal | | 99.9999 | None | Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level. | | |

12/3/2019 Page 70 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019
Version: Approved
Release Date: 12/6/2019

| | Record Code: P11 | | | Release Date: 12/6/2019 | | | | | | |
|------------------------------|---|----------------------------|----------|-------------------------|--------------------|------------------------|--|--|--|--|
| | | | | | | | | | | |
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protectio | n with Harvest Price Exclusion | | | |
| | 0011 Wheat | 0021 Cotton | | | 0047 Dry Beans | | 0075 Peanuts | | | |
| Commodity Code | 0015 Canola | 0041 Corn | | | 0051 Grain Sorghum | | 0078 Sunflowers | | | |
| | 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | | 0081 Soybeans | | | |
| | | 1 | | | | 1 | 0091 Barley | | | |
| | Calaulatiana | <u>Field</u> | Record | <u>Field</u> | <u>Field</u> | <u>Field</u> | Bules | | | |
| | Calculations | <u>Name</u> | Number | <u>Number</u> | <u>Format</u> | Rounding | Rules | | | |
| Downed Rice Endorsement | t (DRE) Option 'DC' | | | | | | CAT does not apply to Downed Rice (DRE). Onl Unit Structure Codes 'BU and OU' apply regardless of the base Rice selection. Price Election Percent for base Rice will apply to DRE Subsidy Level will be 38% for DRE regardless of the base Rice Unit Structure or Coverage Level. Insured Share can be different for DRE than base Rice. Insured Share will be 100%. DRE coverage is not available for high-risk CAT acreage if excluded from additional coverage for Base Rice. | | | |
| Section 16: Liability Calcul | ation | | | | | | | | | |
| | | Premium Liability Amount | Internal | | 999999999 | Round to whole number. | | | | |
| Premium Liability Amount | Dollar Amount of Insurance * Reported Acreage * Insured | Dollar Amount of Insurance | ADM | | 99999 | None | Edit with ADM Price, "A00810", Fixed Coverage Amount with insurance option = 'DC'. | | | |
| | Share Percent * Price Election Percent | Reported Acreage | P11 | 48 | 99999999.99 | None | | | | |
| | | Insured Share Percent | P11 | 43 | 9.9999 | None | DRE insured share will always be 100% without regards to base Rice. | | | |
| | | Price Election Percent | ICE | | 9.9999 | None | From base Rice P14 record. | | | |
| | | Liability Amount | P11 | 94 | 999999999 | Round to whole number. | | | | |
| | Dollar Amount of Insurance * Reported Acreage * Insured | Dollar Amount of Insurance | ADM | | 99999 | None | Edit with ADM Price, "A00810", Fixed Coverage Amount with insurance option = 'DC'. | | | |
| Liability Amount | = Share Percent * Price Election Percent | Reported Acreage | P11 | 48 | 999999.99 | None | | | | |
| | | Insured Share Percent | P11 | 43 | 9.9999 | None | DRE insured share will always be 100% without regards to base Rice. | | | |
| | | Price Election Percent | ICE | | 9.9999 | None | From base Rice P14 record. | | | |

12/3/2019 Page 71 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protecti | on with Harvest Price Exclusion |
|--|---|-------------------------------|------------|---------------|--------------------|------------------------|--|
| | 0011 Wheat | 0021 Cotton | | | 0047 Dry Beans | | 0075 Peanuts |
| Commodity Code | 0015 Canola | 0041 Corn | | | 0051 Grain Sorghum | | 0078 Sunflowers |
| | 0018 Rice | 0043 Popcorn | | | 0067 Dry Peas | | 0081 Soybeans |
| | | | | | | | 0091 Barley |
| | | <u>Field</u> | Record | <u>Field</u> | <u>Field</u> | <u>Field</u> | |
| | Calculations | <u>Name</u> | Number | <u>Number</u> | <u>Format</u> | Rounding | Rules |
| ection 17: Total Premium | Amount, Subsidy Amount, and Producer Premium Amount | | | - | | | |
| Preliminary Total = Premium Liability Amount * Premium Rate Premium | | Preliminary Total Premium | Internal | | 999999999 | Round to whole number. | |
| Premium | = Premium Liability Amount * Premium Rate | Premium Rate | ADM | | | None | Edit with ADM Option Rate, "A01060", rate wit insurance option = 'DC'. |
| Total Premium Amount | = Preliminary Total Premium | Total Premium Amount | P11 | 95 | 999999999 | Round to whole number. | |
| Subsidy Amount | = Total Premium Amount * Subsidy Percent | Subsidy Amount | P11 | 93 | 999999999 | Round to whole number. | If this record qualifies for Beginning Farmer an Rancher or Native Sod, see Section 18 for subsidy calculations. |
| | | | ADM | | 9.999 | None | Edit with ADM Subsidy Percent, "A00070". Wi always be 38% for DRE. |
| Producer Premium Amount | = Total Premium Amount - Subsidy Amount | Producer Premium Amount | P11 | 94 | 999999999 | Round to whole number. | |
| ection 18: Beginning Farm | ner and Rancher (BFR), Veteran Farmer Rancher (VFR), Native | Sod (NS) and Conservation Com | pliance (C | C) Subsidy | Calculations | | |
| Base Subsidy Amount | = Total Premium Amount * Subsidy Percent | Base Subsidy Amount | Internal | | 999999999 | Round to whole number | Cupped by the standard rule of \$1 if applicable |
| zase sassia, riinoane | - Istan remain who are substay referring | 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) | BFR/VFR Subsidy Amount | Internal | | 999999999 | Round to whole number | Beginning Farmer Rancher/Veteran Rancher Farmer Subsidy Amount. If Applicable; else 0. 0.10 (10%). |
| Native Sod Subsidy Amount | = Total Premium Amount * 0.50 | Native Sod Subsidy Amount | Internal | | 999999999 | Round to whole number | If Applicable; else 0. 0.50 (50%). For CAT coverage, Native Sod Subsidy Amount always 0. |
| CC Subsidy Reduction | - Dago Cubaidu Araquat * CC Cubaidu Dodustion Doscost | CC Subsidy Reduction Percent | P11 | 76 | 9.9999 | None | If Applicable; else 0. |
| CC Subsidy Reduction Amount = Base Subsidy Amount * CC Subsidy Reduction Percent | | CC Subsidy Reduction Amount | P11 | 111 | 999999999 | 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 | 93 | 999999999 | 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 | 999999999 | Round to whole number | |

12/3/2019 Page 72 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved

| | Record Code: | de: P11 Release Date: 12/6/2019 | | | | | | | |
|---|--|---|------------------|-------------------------------|---|---|--|--|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion | | |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | | | |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | <u>Rules</u> | | |
| Section 19: Yield Cup, Yield | Exclusion and Trend APH Current Year Base Premium Rate Ca | alculations (only use when the I | Effective Co | verage Lev | el for the record exceeds t | ne highest coverage lev | rel for the offer in the ADM) | | |
| | | Unadjusted Liability Amount | Internal | | 999999999 | Round to whole number | | | |
| Unadiusted Liability | Round((Coverage Level Percent/Effective Coverage Level | Coverage Level Percent | P14 | 34 | 9.9999 | None | | | |
| Amount | Percent),10) * Premium Liability Amount | Effective Coverage Level Percent | Internal | | 99.9999 | | | | |
| | | Premium Liability Amount | Internal | | 999999999 | Round to whole number | | | |
| | When Unit Structure Code is equal to Optional Unit, "OU", "UA" or "UD: ROUND(1.00/ Current Year Base Rate,8) — ROUND(Unadjusted Liability Amount/(Current Year Base Rate * Premium Liability Amount),8) + ROUND(ROUND(Base Rate Differential Factor * Base Unit Residual Factor * Base Optional Unit Structure Discount Factor * Unadjusted Liability Amount,8)/Premium Liability Amount,8) | Max Coverage Level Adjustment Factor | Internal | | 999999999999999 | Round to 8 decimals. | | | |
| | | Unadjusted Liability Amount | Internal | | 999999999 | Round to whole number | | | |
| | | Current Year Base Rate | Internal | | 99999999999999 | Round to 8 decimals. | | | |
| | | Premium Liability Amount | Internal | | 999999999 | Round to whole number | | | |
| | | Base Rate Differential Factor | ADM | | 9.99999999 | None | | | |
| Max Coverage Level Adjustment Factor | | Base Unit Residual Factor Base Optional Unit Structure Discount Factor | ADM | | 999.999 9.99999999 | None | Base Optional Unit Structure Discount Factor is equal to Optional Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". See Section 19 for more info. | | |
| | When Unit Structure code is Basic Unit, "BU": ROUND(1.00/ Current Year Base Rate,8) — ROUND(Unadjusted Liability Amount/(Current Year Base Rate * Premium Liability Amount),8) + ROUND(ROUND(Base Rate Differential Factor * Base Unit Residual Factor * Base Basic Unit Structure Discount Factor * Unadjusted Liability Amount,8)/Premium Liability Amount,8) | Base Basic Unit Structure Discount Factor | ADM | | 9.99999999 | None | Base Basic Unit Structure Discount Factor is equal to Basic Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". See Section 19 for more info. When the total planted acres for the unit is 0 (all acres are prevented planted) set to 1.00. | | |

12/3/2019 Page 73 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protecti | on with Harvest Price Exclusion |
|--|--|--|------------------|-------------------------------|---|--------------------------|---|
| Commodity Code | 0015 Canola | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | Rules |
| | ROUND(1.00/ Current Year Base Rate,8) — ROUND(Unadjusted Liability Amount/(Current Year Base Rate * Premium Liability Amount),8) + ROUND(ROUND(Base Rate Differential Factor * Base Enterprise Unit Residual Factor * Base Enterprise Unit Structure Discount Factor * Unadjusted Liability Amount,8)/Premium Liability Amount,8) | Discount Factor | ADM | | 9.99999999 | None | Base Enterprise Unit Structure Discount Factor equal to Enterprise Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". See Section 19 for more info. When the total planted acres for the unit is 0 (all acres are prevented planted) set to 1.00. |
| Max Coverage Level Adjustment Factor = (continued) V R R R R R | | Base Enterprise Unit Residual Factor | ADM | | 999.999 | None | Base Enterprise Unit Residual Factor is equal Enterprise Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". |
| | ROUND(1.00/ Current Year Base Rate,8) – ROUND(Unadjusted Liability Amount/(Current Year Base Rate * Premium Liability Amount),8) + ROUND(ROUND(Base Rate Differential Factor * Base Whole Farm Unit Residual | Unit Structure Discount Factor | Internal | | 9.9999999 | None | Capped at 1.0 See Section 19 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion). |
| | | Base Whole Farm Unit Residual Factor | ADM | | 999.999 | None | Base Whole Farm Unit Residual Factor is equato Whole Farm Unit Residual for Minimum of Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". |

12/3/2019 Page 74 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion |
|------------------------------------|---|--|------------------|-------------------------------|---|--------------------------|--|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans |
| | ooto mee | ooo7 biyi cas | | 0091 Barley | | | |
| | Calculations | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> Rounding | <u>Rules</u> |
| | | Marginal rate Adjustment Marginal Adjustment Rate Factor | Internal | | 9.9999999 | Round to 8 decimals. | |
| | Max Coverage Level Adjustment Factor /(Rate Differential Factor * Unit Residual Factor * Unit Structure Discount Factor) | Max Coverage Level Adjustment Factor | Internal | | 999999999.99999999 | Round to 8 decimals. | |
| | | Rate Differential Factor | ADM | | 9.99999999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion). |
| | | Unit Residual Factor | ADM | | 999.999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion). |
| larginal Rate Adjustment Factor | | Unit Structure Discount Factor | Internal | | 9.9999999 | None | Capped at 1.0 See Section 19 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yiel Exclusion). |
| P E - N F | When Unit Structure code is Enterprise Unit, "EU" or "EP": Max Coverage Level Adjustment Factor /(Rate Differential Factor * Enterprise Unit Residual Factor * Unit Structure Discount Factor) | Enterprise Unit Residual Factor | ADM | | 9.999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion) where Unit Structure Code equal t Enterprise Unit, 'EU' or 'EP'. |
| | When Unit Structure code is Whole Farm Unit, "WU": Max Coverage Level Adjustment Factor /(Rate Differential Factor * Whole Farm Unit Residual Factor * Unit Structure Discount Factor) | Whole Farm Unit Residual Factor | ADM | | 9.999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion) where Unit Structure Code equal t Whole Farm Unit, 'WU'. |

12/3/2019 Page 75 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| surance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion | |
|-----------------------------------|--|--|------------------|-------------------------------|---|---|--|--|
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0021 Cotton 0041 Corn 0043 Popcorn | | | 0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | | |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules | |
| | | Current Year Base Premium Rate | Internal | | 9999999999999999 | Round to 8 decimals. | | |
| | When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU": | Rate Differential Factor | ADM | | 9.99999999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Tren. Adjustment), "YC" (Yield Cup), and "YE" (Yi Exclusion). | |
| | Round(Current Year Base Rate * Rate Differential Factor * Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00) | Unit Residual Factor | ADM | | 999.999 | None | Edit with ADM Coverage Level Differential "A01040". See Section 18 for Option Code "TA" (Tren Adjustment), "YC" (Yield Cup), and "YE" (Yi Exclusion) where Unit Structure Code equal Optional Unit, "OU", "UA", "UD", or Basic I 'BU'. | |
| Current Year Base Premium Rate | | Marginal Rate Adjustment Factor | Internal | | 999999999.9999999 | Round to 8 decimals. | | |
| = Roi Ent | =IRound(Current Year Base Rate * Rate Differential Factor * | Enterprise Unit Residual Factor | ADM | | 9.999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Tren-Adjustment), "YC" (Yield Cup), and "YE" (Yi Exclusion) where Unit Structure Code equatenterprise Unit, 'EU' or 'EP'. | |
| = | When Unit Structure code is Whole Farm Unit, "WU": Round(Current Year Base Rate * Rate Differential Factor * Whole Farm Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00) | Whole Farm Unit Residual Factor | ADM | | 9.999 | None | Edit with ADM Coverage Level Differential "A01040". See Section 18 for Option Code "TA" (Tren Adjustment), "YC" (Yield Cup), and "YE" (Y Exclusion) where Unit Structure Code equ. Whole Farm Unit, 'WU'. | |

12/3/2019 Page 76 of 77

Record Name: Acreage Record Code: P11 Reinsurance Year: 2019 Version: Approved Release Date: 12/6/2019

| | Record code: | Record Code: P11 | | | | | Release Date: 12/6/2019 | | | | | |
|-----------------------------------|---|------------------------------------|------------------|-------------------------------|-------------------------------------|---------------------------------|--|--|--|--|--|--|
| Insurance Plan Code | 01 Yield Protection | 02 Revenue Protection | | | | 03 Revenue Protection | n with Harvest Price Exclusion | | | | | |
| Commodity Code | 0011 Wheat 0015 Canola 0018 Rice | 0041 Corn | | | 0051 Grain Sorghum 0067 Dry Peas | | 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley | | | | | |
| | <u>Calculations</u> | <u>Field</u> <u>Name</u> | Record Number | <u>Field</u> <u>Number</u> | <u>Field</u> <u>Format</u> | <u>Field</u> <u>Rounding</u> | Rules | | | | | |
| ction 20: Yield Cup, Yield | Exclusion and Trend APH for CottonseedCurrent Year Base | Current Year Base Premium | lly use when | n the Effec | tive Coverage Level for the | record exceeds the hig | hest coverage level for the offer in the ADM) | | | | | |
| Current Year Base Premium Rate | When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU": Round(Current Year Base Rate * Rate Differential Factor * Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1 00) | Rate Differential Factor | ADM | | 9.99999999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yiel Exclusion). | | | | | |
| | | Unit Residual Factor | ADM | | 999.999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yie Exclusion) where Unit Structure Code equal Optional Unit, "OU", "UA", "UD", or Basic Ut 'BU'. | | | | | |
| | | Marginal Rate Adjustment Factor | Internal | | 99999999999999999 | Round to 8 decimals. | Copy value over from the base lint line. | | | | | |
| | When Unit Structure Code is is Enterprise Unit, "EU" or "EP": Round(Current Year Base Rate * Rate Differential Factor * Enterprise Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00) | Enterprise Unit Residual Factor | ADM | | 9.999 | None | Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yiel Exclusion) where Unit Structure Code equal Enterprise Unit, 'EU' or 'EP'. | | | | | |

12/3/2019 Page 77 of 77