**Exhibit Name:** Indemnity Calculations
**Exhibit Number:** P21-3, Plan 04, 05, 06, 13 & 14
**Record Name:** Acreage Claim
**Record Code:** P21
**Reinsurance Year:** 2017
**Version:** Draft
**Release Date:** 8/4/2016

| | | | | |
|---|---|---|---|---|
| **Insurance Plan Code** | 04 Group Risk Plan/Area Yield Protection | 05 Area Revenue Protection | | 13 Rainfall Index |
| | 06 Area Revenue Protection with the Harvest Price Exclusion | | | 14 Vegetation Index |
| **Commodity Code** | 0011 Wheat | 0041 Corn | 0081 Soybeans | 0332 Annual Forage |
| | 0018 Rice | 0043 Popcorn | 0088 Pasture, Rangeland, Forage | 1191 Apiculture |
| | 0021 Cotton | 0051 Grain Sorghum | 0091 Barley | |
| | 0033 Forage Production | 0075 Peanuts | 0115 Oysters | |

| Calculations | Field Name | Record Number | Field Number | Field Format | Field Rounding | Rules |
|---|---|---|---|---|---|---|
| **Section 1: Stage Guarantee Calculation** | | | | | | |
| **Area Yield Protection, "04", or Area Revenue Protection with Harvest Price Exclusion, "06":** | | | | | | |
| **When Commodity Codes equals Wheat, "0011", Rice, "0018", Cotton, "0021", Forage Production, "0033", Corn, "0041", Popcorn, "0043", Grain Sorghum, "0051", Peanuts, "0075", Soybeans, "0081", or Barley, "0091":** | Acre Stage Guarantee Amount | P21 | 58 | 99999999.99 | Round to 2 decimals. | |
| Acre Stage Guarantee Amount = Dollar Amount of Insurance | Dollar Amount of Insurance | Internal | | 99999999.99 | Round to 2 decimals. | This will be the Dollar Amount of Insurance determined on the P11. |
| **Area Revenue Protection, "05":** | | | | | | |
| **When Commodity Codes equals Wheat, "0011", Rice, "0018", Cotton, "0021", Forage Production, "0033", Corn, "0041", Popcorn, "0043", Grain Sorghum, "0051", Soybeans, "0081", or Barley, "0091":** | Acre Stage Guarantee Amount | P21 | 58 | 99999999.99 | Round to 2 decimals. | |
| Acre Stage Guarantee Amount = Round(Expected County Yield * greater of (Projected Price or Harvest Price) * Price Election Percent, 2) | Expected County Yield | ADM | | 99999999.99 | None | Edit with ADM Area Price, "A00810". Expected County Yield will be stored in Expected Index Value in A00810. |
| | Projected Price | ADM | | 99999.9999 | None | Edit with ADM Price, "A00810". |
| | Harvest Price | ADM | | 99999.9999 | None | Edit with ADM Price, "A00810". |
| | Price Election Percent | P14 | 35 | 9.9999 | 2 decimal places | Protection Factor. This will be the Price Election Percent reported on P14 and used in determination of P11 Dollar Amount of Insurance. If Native Sod applies to the associated P11 record, the Price Election Percent must equal 0.65 (65%). |
| **Group Risk Plan, "04":** | | | | | | |
| **When Commodity Codes equals Oysters, "0115":** | Acre Stage Guarantee Amount | P21 | 58 | 99999999.99 | None | |
| Acre Stage Guarantee Amount = Dollar Amount of Insurance | Dollar Amount of Insurance | Internal | | 99999999.99 | None | |
| **Rainfall Index, "13", or Vegetation Index, "14":** | | | | | | |
| **When Commodity Code equals Pasture, Rangeland and Forage, "0088", Apiculture, "1191", or Annual Forage, "0332":** | Acre Stage Guarantee Amount | P21 | 58 | 99999999.99 | None | |
| Acre Stage Guarantee Amount = Dollar Amount of Insurance | Dollar Amount of Insurance | Internal | | 99999999.99 | None | |

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| | 0021 Cotton | 0051 Grain Sorghum | 0091 Barley | |
| | 0033 Forage Production | 0075 Peanuts | 0115 Oysters | |

| Calculations | Field Name | Record Number | Field Number | Field Format | Field Rounding | Rules |
|---|---|---|---|---|---|---|
| **Section 2: Loss Guarantee Calculation** | | | | | | |
| **Area Yield Protection, "04", Area Revenue Protection, "05", or Area Revenue Protection with Harvest Price Exclusion, "06":** | | | | | | |
| **When Commodity Codes equals Wheat, "0011", Rice, "0018", Cotton, "0021", Forage Production, "0033", Corn, "0041", Popcorn, "0043", Grain Sorghum, "0051", Peanuts, "005", Soybeans, "0081", and Barley, "0091":** | Loss Guarantee Amount | P21 | 60 | 99999999.99 | Round to whole number | |
| Loss Guarantee Amount = Acre Stage Guarantee Amount * Determined Acreage * Liability Adjustment Factor * Insured Share Percent | Determined Acreage | P21 | 18 | 99999999.99 | None | |
| | Liability Adjustment Factor | P21 | 39 | 9.999999 | None | |
| | Insured Share Percent | P11 | 43 | 9.9999 | None | |
| **Group Risk Plan, "04":** | | | | | | |
| **When Commodity Code equals Oysters, "0115":** | Loss Guarantee Amount | P21 | 57 | 99999999.99 | Round to whole number | |
| Loss Guarantee Amount = Acre Stage Guarantee Amount * Determined Pounds | Determined Pounds | P21 | 20 | 9999999999 | None | |

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| **Commodity Code** | 0011 Wheat | 0041 Corn | 0081 Soybeans | 0332 Annual Forage |
| | 0018 Rice | 0043 Popcorn | 0088 Pasture, Rangeland, Forage | 1191 Apiculture |
| | 0021 Cotton | 0051 Grain Sorghum | 0091 Barley | |
| | 0033 Forage Production | 0075 Peanuts | 0115 Oysters | |

| Calculations | Field Name | Record Number | Field Number | Field Format | Field Rounding | Rules |
|---|---|---|---|---|---|---|
| **Rainfall Index, "13", or Vegetation Index, "14":** | | | | | | |
| **When Insurance Plan Code equals Rainfall Index, "13", or Vegetation Index, "14" and Commodity Code equals Pasture, Rangeland and Forage, "0088", or Insurance Plan Code equals Rainfall Index, "13", and Commodity Code equals, Annual Forage, "0332":** | Loss Guarantee Amount | P21 | 60 | 99999999.99 | Round to whole number | Policy Protection (unit) |
| Loss Guarantee Amount = Round(Acre Stage Guarantee Amount * Total Insured Acreage * Percent of Value,0) * Insured Share Percent * Liability Adjustment Factor | Total Insured Acreage | P11 | 72 | 999999.99 | None | |
| | Percent of Value | P11 | 71 | 9.99 | None | Percent of Value for Annual Forage, "0332", will be pulled from P14 field 45. |
| | Insured Share Percent | P11 | 43 | 9.9999 | None | |
| | Liability Adjustment Factor | P21 | 39 | 9.999999 | None | As allowed under Section 6 (h)(2) of RI and VI Basic Provisions. |
| **When Insurance Plan Code equals Rainfall Index, "13", or Vegetation Index, "14" and Commodity Code equals Apiculture, "1191":** | Loss Guarantee Amount | P21 | 60 | 99999999.99 | Round to whole number | Policy Protection (unit) |
| Loss Guarantee Amount = Round(Acre Stage Guarantee Amount * Total Insured Colonies * Percent of Value,0) * Insured Share Percent | Total Insured Colonies | P11 | 73 | 9999999 | None | |
| | Percent of Value | P11 | 71 | 9.99 | None | |
| | Insured Share Percent | P11 | 43 | 9.9999 | None | |
| **Section 3: Indemnity Calculation** | | | | | | |
| **Area Yield Protection, "04", Area Revenue Protection, "05", or Area Revenue Protection with Harvest Price Exclusion, "06":** | | | | | | |
| **When Commodity Codes equals Wheat, "0011", Rice, "0018", Cotton, "0021", Forage Production, "0033", Corn, "0041", Popcorn, "0043", Grain Sorghum, "0051", Peanuts, "0075", Soybeans, "0081", or Barley, "0091":** | Preliminary Indemnity Amount | P21 | 62 | S9999999999 | Round to whole number | |
| Preliminary Indemnity Amount = Loss Guarantee Amount * Payment Factor | Payment Factor | ADM | | 9.999 | None | Edit with ADM Area Coverage Level, "A01130". |

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| | 0033 Forage Production | 0075 Peanuts | 0115 Oysters | |

| Calculations | Field Name | Record Number | Field Number | Field Format | Field Rounding | Rules |
|---|---|---|---|---|---|---|
| **Group Risk Plan, "04":** | | | | | | |
| **When Commodity Code equals Oysters, "0115":** | Preliminary Indemnity Amount | P21 | 62 | S9999999999 | Round to whole number | |
| Preliminary Indemnity Amount = Loss Guarantee Amount * Insured Share Percent * Payment Factor * Misreported Information Factor | Insured Share Percent | P11 | 43 | 9.9999 | None | |
| | Payment Factor | ADM | | 9.999 | None | Edit with ADM Area Coverage Level, "A01130". |
| | Misreported Information Factor | P21 | 46 | 9.999999 | None | |
| **When Insurance Plan Code equals Rainfall Index, "13", or Vegetation Index, "14":** | | | | | | |
| Preliminary Indemnity Amount = Loss Guarantee Amount * Payment Factor | Preliminary Indemnity Amount | P21 | 62 | S9999999999 | Round to whole number | |
| | Payment Factor | ADM | | 9.999999 | None | Edit with ADM Area Coverage Level, "A01130". |
| **All Plans:** | | | | | | |
| Indemnity Amount = Preliminary Indemnity Amount * Multiple Commodity Adjustment Factor | Indemnity Amount | P21 | 63 | S9999999999 | Round to whole number | |
| | Multiple Commodity Adjustment Factor | ICE | | 9999.999 | None | Edit with ICE Multiple Cropping, "D00063". Not applicable for Apiculture. |