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ACTUAL REVENUE HISTORY (ARH)

ARH CITRUS PILOT

INSURANCE STANDARDS HANDBOOK

2018 and Succeeding Crop Years

UNITED STATES DEPARTMENT OF AGRICULTURE
Kansas City, MO 64133

TITLE: ARH CITRUS PILOT PROGRAM INSURANCE STANDARDS HANDBOOK	NUMBER: 24260
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SUBJECT: ARH Citrus Pilot Program Insurance Standards and instructions for the 2018 and succeeding crop years	OPI: Actuarial and Product Design Division APPROVED: <i>/s/Thomas W. Worth</i> Acting Deputy Administrator for Product Management

Reason for Issuance

This handbook provides the official FCIC-approved 2018 and succeeding crop years' underwriting and administration standards for the ARH Citrus Pilot Program. All approved insurance providers electing to offer the ARH Citrus Pilot Program must utilize these standards.

Note: This document has been updated to reflect changes to the new CIH where applicable.

- Page 10 & 11** Clarified required elements for completion of the Total Production, Revenue, and Yield Report (ARH Form) in reference to Part 13.
- Page 12** Clarified language CIH reference Par.1541.
- Exhibit 1** Farm Service Agency added to list of Acronyms
- Exhibit 3** ARH forms updated to include numbers, and added example to clarify revenue substitution

**ARH CITRUS PILOT PROGRAM
INSURANCE STANDARDS HANDBOOK**

TABLE OF CONTENTS

Page No.

Part 1 General Information and Responsibilities

1	General Information.....	1
2	Responsibilities.....	2
3-21 (Reserved)		

Part 2 Insurability

22	Insurable Types and Practices	3
23	Units and Coverage Levels	3
24	Insurance Dates and Causes of Loss.....	4
25	Reports.....	7
26	Alternative Protection	8
27	Adjustments to Historic Revenue	8
28-30 (Reserved)		

Part 3 Applicability of Handbooks

31	General Overview	9
32	Specific Information Regarding the Crop Insurance Handbook	9
33	Prevented Planting Loss Adjustment Standards Handbook	12
34	Loss Adjustment Manual	12
35	Citrus Loss Adjustment Standards Handbook.....	12
36	General Standards Handbook	12
37-40 (Reserved)		

Part 4 Other Information

41	Determining Annual Price	13
42	Unharvested Production Adjustment.....	13
43	Payment Factor	15

Exhibits

1	Acronyms
2	Definitions
3	Example ARH Form
4	(Reserved)

5 Examples

Part 1 General Information and Responsibilities

1 General Information

A. Purpose

This handbook provides procedure for administering the ARH Citrus Pilot Program in accordance with the ARH Endorsement and the ARH citrus crop provisions, and supplements the CIH, GSH, and the LAM via exceptions, changes, and additions. If there is a conflict between this handbook and the CIH, GSH, or LAM, this handbook controls.

B. Source of Authority

The ARH Citrus Pilot Program is a RMA developed product approved by the FCIC Board of Directors on May 07, 2009, under Section 523 of the Federal Crop Insurance Act. This handbook provides the FCIC-approved procedures for administering the Pilot.

C. Duration

The ARH Citrus Pilot Program is available beginning with the 2011 crop year and is authorized until terminated or converted to a permanent program by the FCIC Board of Directors.

D. Pilot Area

See actuarial documents for the pilot area.

E. Applying for ARH Citrus Pilot Program

AIPs shall use the standard application for ARH Citrus Pilot Program. The application must indicate the insured has selected ARH Pilot Endorsement and ARH Citrus Pilot Crop Provisions along with all other required information.

1 General Information (Continued)

F. Related Handbooks

The following table provides handbooks related to ARH Citrus Pilot Program.

Important: Not all sections of related handbooks or all procedures in a section apply to ARH Citrus Pilot Program. See Part 3 for more information.

Handbook	Purpose
CIH	General underwriting procedures.
GSH	General administrative procedures.
LAM	General loss procedures.
Citrus Loss Adjustment Standards Handbook	Loss procedures for citrus.

2 Responsibilities

A. AIP Responsibilities

AIPs must use standards, procedures, methods and instructions as authorized by FCIC in the sale and service of crop insurance contracts. Each AIP is responsible for using RMA approved procedure. AIP should report any pilot program issues or concerns to APDD of RMA.

B. Insured's Responsibilities

To be eligible for the ARH Citrus Pilot Program, insureds must comply with all terms and conditions of the Basic Provisions, ARH Pilot Endorsement, and ARH Citrus Pilot Crop Provisions.

3-21 (Reserved)

Part 2 Insurability

22 Insurable Types and Practices

A. Types Insurable

For the purpose of this pilot, all types of navel oranges are insurable under the ARH Citrus Pilot Program. See actuarial documents for type availability by county, if appropriate. Other citrus crops, if insurable in future years, will be specified in the actuarial documents. The insurance guarantee is based on the revenue derived from historic sales of marketable citrus as defined in the Special Provisions.

B. Insurable Practices

Citrus must be produced in an orchard that is acceptable to the AIP, if inspected.

Insurable practices are listed in the actuarial documents. Generally, citrus must be irrigated to be insurable under the pilot.

Citrus inter-planted with another perennial crop are insurable unless, upon inspection of the acreage by the AIP, it is determined the requirements contained in the policy are not met.

23 Units and Coverage Levels

A. Units

Basic units are established according to the Basic Provisions. Section 34(c) of the Basic Provisions does not apply. ARH Citrus Pilot Crop Provisions, Section 3, allow basic units to be divided into optional units if each optional unit is located on non-contiguous land, unless limited in the Special Provisions. Optional units may also be established by type if type is specified in the Special Provisions.

As with other insurance plans:

- all optional units must be identified on the acreage report
- when adjusting a loss, units may be adjusted or combined to reflect the actual unit structure
- acceptable records of revenue and production by optional unit must be available for at least the most recently completed crop year
- records for each optional unit must be maintained in a manner that permits AIP to verify the information.

23 Units and Coverage Levels (Continued)

A. Units (continued)

The Basic Provisions, Section 34, that allow enterprise and whole-farm units do not apply to citrus.

B. Coverage Levels

Coverage is available in 5 percent (5%) increments from 50 percent (50%) to 75 percent (75%). CAT coverage is not offered, consistent with FCIC policy regarding revenue insurance plans.

24 Insurance Dates and Causes of Loss

A. Insurance Dates

The cancellation, termination, and sales closing date is November 20.

The contract change date is August 31 immediately preceding the cancellation date.

The date for the end of the insurance period for physical damage for each crop year is August 31 during the calendar year in which the citrus is normally harvested.

The date for the end of the insurance period for a loss of revenue due to an inadequate harvest price year is August 31 during the calendar year in which the bloom is normally set. If a citrus price pool has not closed by this date the production associated with that pool will be valued using the annual price procedure. Per the annual price procedure, if none of the insured pools have closed by August 31, the annual price will be the NASS price. The NASS price is generally made available during the last half of September following harvest. If the price pool closes after August 31, but before September 30, the claim must still be settled based on the annual price procedure because the insurance period ends on August 31.

Regardless of the price used to determine the revenue to count, the notice of loss must be filed by September 30 following harvest.

The acreage reporting date is January 10 following the cancellation date:

The revenue reporting date is the acreage reporting date.

The billing date is September 15 of the calendar year that follows the calendar year that contains the cancellation date.

B. Insurable Causes of Loss

The following causes of physical loss are covered under the ARH Citrus Pilot Program:

- adverse weather conditions
- fire, unless undergrowth has not been controlled or pruning debris has not been removed from the orchard
- wildlife damage
- earthquake
- volcanic eruption
- failure of irrigation water supplies if caused by a cause of loss specified in subparagraph B that occurs during the insurance period
- insects and plant disease, if either of the following apply:
 - adverse weather conditions prevent application of control measures or cause control measures to be ineffective after application, and reapplication is not possible or permitted before damage occurs or worsens
 - no pesticides effective on the insect or plant disease are registered with the Environmental Protection Agency and labeled for use on the citrus crop.

Important: Causes of loss due to insects or plant disease are insurable causes of loss only if a natural event, such as rain, either prevents timely application of a pesticide or washes it off the trees before it has had an opportunity to be effective. Further, the insured must have been unable to reapply the control measure before damage occurs or worsens due to continuing natural events, such as adverse weather, or because the label directions limit reapplication for several days after an initial application and there are no substitutes. In addition, a pest or disease may occur for which no pesticide has been registered for use on that disease or pest or, if a pesticide is registered, it has not been labeled for use on the citrus crop. Insureds must exercise normal and routine care of the orchard to control insects and disease outbreaks, but if natural events beyond the control of the insured occur and cause a production loss, such losses may be covered if all other requirements are met. Any new insured plantings must use citrus tristeza tolerant and tristeza free propagation material.

B. Insurable Causes of Loss (continued)

In addition to the causes of loss due to physical damage, loss of revenue due to an inadequate market price is a covered cause of loss for citrus which are delivered and sold or for citrus that are valued using the annual price procedure.

Important: Unsold citrus must be appraised to determine the cartons of marketable fruit and must be valued as revenue to count using the annual price procedure in accordance with the crop provisions.

C. Uninsurable Causes of Loss

In addition to the uninsurable causes of loss listed in the Basic Provisions, the following are not insurable causes of loss under the ARH Citrus Pilot Program:

- failure to harvest in a timely manner for any reason, including the inability to obtain harvest labor, unless the failure to harvest is due to a physical peril(s) insurable cause of loss according to paragraph B
- mechanical damage that occurs during the insurance period
- inability to market the citrus for any reason other than actual physical damage from an insurable cause.

Example: An insured's inability to market production due to quarantine, boycott, or refusal of any person to accept production is not an insurable cause of loss.

Revenue reports must contain insurable acreage amounts, production, appraised production, and revenue; and must be separated in the appropriate manner to support the insurance guarantee. All information contained in the revenue report must be substantiated by verifiable records, such as AIP loss records, settlement sheets, or appraisals. Appraisals are required for direct marking acreage and must also be accompanied by sales records.

AIP appraisal of unharvested marketable production may be used in the annual revenue determination. If the grower does not have an annual price from actual sales to use for the valuation of the unharvested marketable production the NASS price shall be used according to the annual price procedure. The revenue history refers to the insured's revenue from the harvesting and haulage of the fruit to the packinghouse door. Where the packinghouse pays for the harvest and haulage costs the net revenue is identified from packinghouse settlement statements as the gross revenue for all sales of marketable fruit less all packinghouse charges except the charges for harvesting and hauling to the packinghouse door.

If a loss claim record was filed for a crop year, the revenue to count from the loss record must be used for the revenue report even if the loss was settled using the NASS price and the production was later sold.

If harvested marketable production is rejected by the packer, such production can be used in the annual revenue determination provided acceptable supporting records are provided. The acceptable supporting records must include gross production; percent of damaged fruit, grade, and document the condition of damaged fruit, such as freeze, decay, blemished, etc. The harvested marketable production which was rejected by the packer is valued using the annual price procedure.

Acceptable supporting records for delivered and sold citrus are pool statements, pool summary statements, pack statements or year-end settlement sheets that indicate by crop/type, the number of standard size cartons (#58 container – 38 pounds for oranges) packed or the net weight of the packed fruit, and the total revenue from sales of marketable citrus.

If marketable citrus from the unit was delivered to more than one buyer or handler, the records of each buyer or handler must be aggregated to determine the total revenue and total number of standard cartons for the unit.

The average revenue per acre for a crop year is the total revenue received for marketable citrus divided by the number of insurable acres in the unit.

The average production from the unit also must be reported. Citrus production for which marketing records are expressed on a basis other than standard cartons must be converted to standard cartons on the basis of 38 pounds of packed fruit for the standard packed carton. The average production is the total number of standard containers divided by the number of insurable acres in the unit.

25 Reports (Continued)

The acreage also must be substantiated by verifiable records. However, since current acreage of bearing citrus trees can be measured, previous acreage can be determined with records of trees removed, trees planted, and so forth.

26 Alternative Protection

Alternative protection as referenced in the ARH Endorsement is not available for citrus.

27 Adjustments to Historic Revenue

The adjustments to historic revenues as described in Section 5(a)(1) and (2) of the ARH Endorsement do not apply to citrus.

28-30 (Reserved)

Part 3 Applicability of Handbooks

31 General Overview

This Part identifies information specific to the applicability of the CIH, GSH, LAM, and any other issuance that may require supplemental information with regard to citrus or to the ARH plan of insurance. Unless specifically amended, supplemented, or deleted by information in this handbook, all policy and procedure issuances apply to citrus and to the ARH plan of insurance.

The ARH citrus crop provisions are designed in a similar manner to the AZ-CA APH Citrus Crop provisions. That is to say, by design the provisions are potentially applicable to a number of citrus crops in California. However, for the purpose of the ARH pilot program only navel oranges are an insurable crop and thus are the only crop with corresponding actuarial documents. Throughout the materials ARH citrus and ARH navel oranges are interchangeable from a practical standpoint.

32 Specific Information Regarding the Crop Insurance Handbook

The general rules of crop insurance, as provided in CIH and GSH, apply to the ARH Citrus Pilot Program with the EXCEPTION THAT REVENUE REPORTED BY THE INSURED PERSON MUST INCLUDE ONLY THEIR REVENUE. The reported revenue will be stated as 100 percent share equivalent revenue for record keeping purposes. This change is needed because two or more persons sharing in the same acreage may not sell at the same time or to the same buyer and may realize different amounts of revenue.

All references to yield apply to both yield and revenue, as appropriate.

The ARH Pilot Endorsement does not allow for written agreements; therefore, any references to written agreements do not apply.

The ARH Pilot Endorsement does not allow for CUPS; therefore, any references to CUPS do not apply.

The following table provides general information, changes, additions, deletions and modifications, termed supplemental instructions, regarding the CIH applicability to ARH Citrus Pilot Program. Any references in the CIH to navel oranges or citrus in California apply to the ARH insurance plan unless specifically changed in this Underwriting Guide.

32 Specific Information Regarding the Crop Insurance Handbook (Continued)

CIH Section Reference	Supplemental Instructions
Part 22	<p>Relevant underwriting and APH responsibilities provided in CIH, Part 18, apply to revenue. The term “yield” as used therein is replaced by the term “yield and revenue” when appropriate, and the term “APH form” is replaced by the term “ARH form.”</p> <p>Example: In CIH, Part 18, the phrase “insureds must report on an annual basis all production, acres, and actual yields” would read “insureds must report on an annual basis all production, acres, actual yields, and actual revenues” for navel oranges.</p>
Part 13	<p>Producers who purchase ARH Citrus Pilot Program insurance coverage must follow the procedures of this section. The instructions provided pertain to both yield and revenue.</p> <p>AIPs are responsible for recording the appropriate acreage, yield, and revenue data using any form that meets all requirements. AIPs may elect to use two standard APH forms with the appropriate form labeled as “Revenue” or may elect to use a combined form of its design that meets the requirements stated below. An example form is provided in Exhibit 3.</p> <p>Producers are required to certify only their share of the revenue from the unit. For record keeping purposes, the certified revenue is to be recorded on a 100 percent share equivalent basis to provide continuity in the event the share may change from year to year.</p> <p>The instructions for short rated acreage apply to ARH citrus.</p> <p>The following are required for completion of the Production, Revenue, and Yield Report (ARH Form). The elements in this section are the minimum requirements for the ARH form. All of these elements are required.</p> <p>Producer’s Net Revenue - Enter the producer’s share of the revenue from the block/unit net of all non-allowable costs, such as cooling, culling, packing, etc. If non-allowable costs are not identified by unit, such as assessed on the entire quantity sold, allocate those costs pro-rata to the revenue derived from each unit (annual production on P15A).</p> <p>Average Revenue - Divide Producer’s Net Revenue by acres.</p> <p>Average Yield- Total production divided by total acres (average acre production on P15A).</p> <p>Producer’s Share - Enter the producer’s percent share of the production (lbs.)</p> <p>100% Share Equivalent Revenue - Divide Average Revenue by Share (annual yield on P15A).</p> <p>Total - Enter the total of the entries.</p>

32 Specific Information Regarding the Crop Insurance Handbook (Continued)

CIH Section Reference	Supplemental Instructions
	<p>Preliminary Yield – Enter the result of dividing the total of the “Average Yield” column by the number of crop years in the database.</p> <p>Approved Yield – Completed by the verifier in accordance with the General Standards Handbook.</p> <p>Preliminary Revenue - Enter the result of dividing the total of the “100% Share Equivalent Revenue” column by the number of crop years in the database.</p> <p>Approved Revenue - Completed by verifier. Enter the approved ARH revenue after all entries are verified or any applicable adjustments/reductions.</p> <p>Prior Revenue - Enter the prior approved ARH revenue, if applicable. Enter N/A if it is not applicable.</p> <p>Producers who purchase ARH Citrus Pilot Program coverage are required to follow the guidelines for acreage and production (revenue) evidence requirements in CIH, and provide records necessary to compute ARH insurance guarantees. Producers are required to certify only their share of the revenue from the unit.</p>
Part 17	Does not apply to ARH Citrus Pilot Program.
Part 18	Citrus is an eligible Category C crop. Follow the requirements for Arizona-California Citrus. Category C APH crop procedures apply to both yield and revenue for citrus with included modifications.
Par. 1851	Does not apply to ARH Citrus Pilot Program.
Par. 1856	<p>Apply the procedures to both yield and revenue, as appropriate, and with the following exceptions or clarifications:</p> <ul style="list-style-type: none"> • Revenue pertains only to that paid to the insured. • Include the production and value of unharvested marketable production in the yield and revenue calculation for a unit if an appraisal of unharvested marketable production was completed, regardless whether an indemnity was paid. See Exhibit 5, example D, for an example using the unharvested production adjustment when completing the revenue report for next year.
Par. 1858	<p>T-Revenues and T-Yields are applied on a unit basis instead of on a county crop basis.</p> <p>“T-Revenues” will be available and will be used in the same manner as T-yields are offered under the APH program, according to CIH. This includes adjusted transitional revenues in the same circumstances as an adjusted transitional yield would apply under the APH program.</p>

32 Specific Information Regarding the Crop Insurance Handbook (Continued)

CIH Section Reference	Supplemental Instructions
	“T-Yields” will be applicable in the same manner as they are offered in the APH program. Approved yields, which may include T-yields and applicable yield adjustments, are used in the determination of unharvested production adjustments and for statistical analysis.
Par.1541	Apply the procedures to the revenues reported by the insured if the insured requests revenue substitution. The terms “yield” and “t-yield” are supplemented by the terms “revenue” and “t-revenue,” respectively. Apply the yield substitution ONLY if the revenue substitution is elected and applied AND the individual year actual yield is less than 60 percent of the T-Yield. In the case of beginning farmers or ranchers, replace each excluded yield with a yield equal to 80 percent of the applicable transitional yield.
Part 15 Sec. 6	Applies to ARH Citrus Pilot Program.
Par.2001	Does not apply to ARH Citrus Pilot Program.

33 Prevented Planting Loss Adjustment Standards Handbook

The Prevented Planting Loss Adjustment Standards Handbook is not applicable to the ARH Citrus Pilot Program. Prevented planting coverage is not available for citrus.

34 Loss Adjustment Manual

The procedures identified in the LAM are adopted for the ARH Citrus Pilot Program.

35 Citrus Loss Adjustment Standards Handbook

The ARH Citrus Pilot Program Loss Adjustment Standard Handbook applies to this pilot.

36 General Standards Handbook

Part 6 of the General Standards Handbook applies to this pilot.

37-40 (Reserved)

Part 4 Other Information

41 Determining Annual Price

Annual price – In lieu of the definition contained in the ARH Endorsement, the annual price is the value we will use to determine the revenue to count for any appraised or unsold marketable production. We will determine this value for each unit by type as follows:

- (a) The annual price may first be calculated on a unit basis as the average value per carton of any production sold from the unit if that price is determined to be reasonable.
- (b) If there are no sales from the unit or the price is determined not reasonable, sales from a representative unit of the same type and on the same policy may be used.
- (c) If there are no sales from a unit of the same type that are determined to be reasonable, the annual price may be calculated on a whole farm basis as the average value per carton of any citrus production of the same type sold across units by the producer if that price is determined to be reasonable.

In accordance with the definition contained in the ARH Endorsement, in the event you do not have any sold production for a crop year, the California season average equivalent packinghouse door (PHD) price per box (converted to carton equivalent) for all navel and miscellaneous oranges reported by NASS for the crop year for the insured crop in the publication “Citrus Fruits YYYY Summary” (released in September of the crop year) or the price per carton determined by RMA if said publication or published price is not available. The factor to convert the price per box reported by NASS to a price per carton for navel oranges is 0.475. Any annual price based on the price reported by NASS in the cited publication is final. The price will not be recalculated even though NASS subsequently may revise that price. In the event that NASS does not report a specific price for the insured crop the Special Provisions will designate the price reported by NASS that will be used.

See the Citrus Pilot Loss Adjustment Standards Handbook for Annual Price calculations and an example of the sample loss worksheets.

42 Unharvested Production Adjustment

The ARH Citrus Pilot Program adjusts the revenue to count for savings achieved by not harvesting all or a portion of the crop.

Example: A freeze causes the cells of the fruit to rupture and become worthless and the insured does not harvest the acreage. Because the citrus crop is not harvested for sale, the insured does not need to employ the same degree of care to remove the damaged fruit from the acreage. Recall the annual revenue is based on the income after harvest thus the insured has already incurred harvesting/picking costs.

42 Unharvested Production Adjustment (Continued)

The guarantee is based on the value of citrus entering the packinghouse door. Accordingly, to be equitable, failure to recognize and account for savings from lower harvesting/picking and hauling costs would result in a windfall for the insured. The, UPA in paragraph 42 adjusts the guarantee for lower harvest and hauling costs.

The unharvested production adjustment amount is an estimated picking cost per carton and is published in the Special Provisions. The unharvested production adjustment amount is assessed to the cartons which represent a production shortfall. That is, the unharvested production adjustment amount is assessed to cartons not harvested or cartons not otherwise counted as revenue to count, such as appraised unharvested “marketable” production, when these cartons are less than the approved yield multiplied by coverage level and share.

Important: This procedure is to ensure producers are **not** compensated for harvest cost which they did **not** incur in the insurance year. Historical harvest costs are implicitly included in the revenue guarantee because the price valuation point is the point of first delivery.

The unharvested production adjustment amount is not assessed against marketable cartons which are not harvested because such cartons are appraised and valued at the annual price. The following table provides instructions for calculating the unharvested production adjustment amount. See Exhibit 5 for example.

Step	Action	Result/Purpose
1	Multiply the approved yield by the coverage level, share, and the number of acres damaged solely by uninsured causes.	Cartons associated with an uninsured cause of loss appraisal. The loss procedure will price these cartons at a packing house door valuation point. Therefore, the total cartons associated with such appraisals should be excluded from any unharvested production adjustment.
2	Add the result from step 1 to the sum of the insured’s share of the number of appraised and harvested cartons.	Total cartons appraised, harvested and cartons associated with uninsured cause of loss. Harvest costs are incurred on harvested cartons. Actual harvest costs are not incurred on appraised cartons; however, those cartons are valued at the annual price which is a post-harvest valuation point. As such, adding additional revenue to count to reflect harvest cost not incurred is unnecessary.
3	Multiply the approved yield by coverage level, share, and the number of insured acres.	Total number of cartons associated with the amount of insurance represented by the revenue guarantee. These cartons represent the threshold amount for when an adjustment will occur.
4	Subtract the result of step 2 from the result of step 3.	Determines whether the unharvested production adjustment will apply.

5	<p>Multiply the result of step 4 by the unharvested production adjustment amount.</p> <p>If the result of step 4 is zero or negative there is no assessment for harvest cost not incurred.</p>	<p>Revenue to count associated with the unharvested production adjustment, if applicable.</p>
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43 Payment Factor

The payment factor is substantially the same as the price election factor available for other crop insurance coverage plans. However, it must be handled differently than the price election factor.

In the APH insurance plan, for example, the amount of any indemnity is a two step process: first, the amount of the production loss is calculated and second, the production loss is multiplied by the price election. The price election factor simply reduces the effective price election, which also reduces the liability and the premium. It does not affect the guarantee, which is a production amount. Hence, the loss inception point remains the same regardless of the level of the price election factor.

To properly calculate an indemnity in ARH, the calculations first must determine the indemnity as though the payment factor were 100 percent (100%). The 100 percent (100%) indemnity then is reduced to reflect the payment factor chosen by the insured (the default value is 1.00).

Acronyms

The following table provides approved acronyms used in this handbook.

Approved Acronyms	Term
AIP	Approved Insurance Provider
APDD	Actuarial and Product Design Division
APH	Actual Production History
ARH	Actual Revenue History
CAT	Catastrophic Risk protection
CAW	Crop Addendum Worksheet
CIH	Crop Insurance Handbook
DSSH	Document and Supplemental Standards Handbook
ERF	Expected Revenue Factor
FCIC	Federal Crop Insurance Corporation
FSA	Farm Service Agency
GSH	General Standards Handbook
LAM	Loss Adjustment Manual
NASS	National Agricultural Statistics Service
PASS	Policy Acceptance and Storage System
PAW	Producer's Pre-Acceptance Worksheet
RMA	Risk Management Agency

Definitions

The following are definitions of terms used in this handbook.

Agent has the same meaning as the term “agent” in the Standard Reinsurance Agreement.

Approved Insurance Provider has the same meaning as the term “approved insurance provider” in the Federal Crop Insurance Act. For the purposes of this handbook, Approved Insurance Provider includes managing general agents as defined in the Standard Reinsurance Agreement.

Completely Sold Production means production for which a final sale price has been determined. This price is generally documented on the producers’ final sales settlement sheet.

Pesticide means a generic term to include fungicides, herbicides, insecticides, rodenticides, etc.

Example ARH Form

The following is an example of an ARH form. See paragraph 32 for related procedure.

Production, Revenue, and Yield Report (ARH Form)		ILLUSTRATION PURPOSES ONLY		For Crop Year: 2017																																																																	
Producer's Name and Address Donny Bravo 1776 Liberty Lane Phone No: SSN Tax No:		Required Field Review Required State: CA County: 019 Policy No. 234567		Agent Name and Address: Ima Agent 124 Somestreet Agent Code: 912-3456-7891ABC Company Name and Address: Big Insurance Company 321 Big Street																																																																	
Crop: 0227 Practice: 002 Type: 134 Unit No: 0001-0001BU		Section: 01 Township T96N Land Other County Range: R30W <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<table border="1"> <thead> <tr> <th>Crop Year</th> <th>Acres</th> <th>Production (lbs)</th> <th>Average Yield (lbs)</th> <th>Producer's Net Revenue</th> <th>Average Revenue</th> <th>Producer's Share</th> <th>100% Share Equivalent Revenue</th> </tr> </thead> <tbody> <tr> <td>2011</td> <td>15</td> <td>2,565</td> <td>171</td> <td>\$ 16,065</td> <td>\$ 1,071</td> <td>80%</td> <td>\$ 1,339</td> </tr> <tr> <td>2012</td> <td>15</td> <td>7,140</td> <td>476</td> <td>\$ 46,695</td> <td>\$ 3,113</td> <td>100%</td> <td>\$ 3,113</td> </tr> <tr> <td>2013</td> <td>22</td> <td>2,684</td> <td>122</td> <td>\$ 23,034</td> <td>\$ 1,047</td> <td>100%</td> <td>\$ 1,047</td> </tr> <tr> <td>2014</td> <td>22</td> <td>7,260</td> <td>330</td> <td>\$ 43,582</td> <td>\$ 1,981</td> <td>100%</td> <td>\$ 1,981</td> </tr> <tr> <td>2015</td> <td>22</td> <td>8,338</td> <td>379</td> <td>\$ 57,112</td> <td>\$ 2,596</td> <td>100%</td> <td>\$ 2,596</td> </tr> <tr> <td>2016</td> <td>22</td> <td>10,142</td> <td>461</td> <td>\$ 46,442</td> <td>\$ 2,111</td> <td>100%</td> <td>\$ 2,111</td> </tr> <tr> <td>Total</td> <td></td> <td></td> <td>1,939lbs</td> <td>\$232,930</td> <td>\$11,919</td> <td></td> <td>\$12,187</td> </tr> </tbody> </table>		Crop Year	Acres	Production (lbs)	Average Yield (lbs)	Producer's Net Revenue	Average Revenue	Producer's Share	100% Share Equivalent Revenue	2011	15	2,565	171	\$ 16,065	\$ 1,071	80%	\$ 1,339	2012	15	7,140	476	\$ 46,695	\$ 3,113	100%	\$ 3,113	2013	22	2,684	122	\$ 23,034	\$ 1,047	100%	\$ 1,047	2014	22	7,260	330	\$ 43,582	\$ 1,981	100%	\$ 1,981	2015	22	8,338	379	\$ 57,112	\$ 2,596	100%	\$ 2,596	2016	22	10,142	461	\$ 46,442	\$ 2,111	100%	\$ 2,111	Total			1,939lbs	\$232,930	\$11,919		\$12,187
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Other Entity(ies)		FSA Farm No. Cropland Acres: 23		Preliminary Revenue: \$2,031 Approved Revenue: \$2,031 Coverage Level: 75%																																																																	
Processor Number: 1256		Other: N/A		Preliminary Yield: 323 Approved Yield: 323 Prior Yield: N/A																																																																	

Example ARH Form

The following is an example of an ARH form with Revenue Substitution. See paragraph 32 for related procedure.

Production, Revenue, and Yield Report (ARH Form)			ILLUSTRATION PURPOSES ONLY				For Crop Year: 2017				
Producer's Name and Address Donny Bravo 1776 Liberty Lane Phone No: SSN Tax No:		Required Field Review Required State: CA County: 019 Policy No. 234567		Agent Name and Address: Ima Agent 124 Somestreet Agent Code: 912-3456-7891ABC		Phone No: 123-456-7891 Company Name and Address: Big Insurance Company 321 Big Street					
Crop: 0057 Practice: 002 Type: 134 Unit No: 0001-0001BU		Section: 01 Township T96N Land Other County Range: R30W <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Crop Year Acres Production (lbs)		Average Yield (lbs) Producer's Net Revenue		Average Revenue Producer's Share		100% Share Equivalent Revenue	
				2011		\$ 25,020		80%		\$ 2,085	
				2012		\$ 46,695		100%		\$ 3,113	
				2013		\$ 36,696		100%		\$ 1,668	
				2014		\$ 43,582		100%		\$ 1,981	
				2015		\$ 57,112		100%		\$ 2,596	
				2016		\$ 46,442		100%		\$ 2,111	
				Total		2,126 lbs		\$255,547		\$13,137	
Other Entity(ies)		FSA Farm No.		Preliminary Revenue \$2,259		Approved Revenue \$2,259		Coverage Level 75%			
		Cropland Acres: 23		Prior Revenue N/A							
		Transitional Yield: N/A		Preliminary Yield 354		Approved Yield 354					
		Transitional Revenue: N/A		Prior Yield N/A							
Processor Number 1256		Other: N/A									

Examples

This Exhibit provides examples of:

- calculating a revenue guarantee to illustrate the difference between the amount of insurance and the value per acre
- calculating an indemnity under an ARH plan of insurance.

The following data applies to examples 1-3:

- insured reports the following eight years of revenue history:

Production Year	Producer Revenue
1999	\$3,900
2000	\$3,000
2001	\$4,200
2002	\$3,900
2003	\$3,700
2004	\$4,350
2005	\$3,650
2006	\$4,000
Total	\$30,700

- insured has an approved revenue of \$3,838/acre
- insured has an approved yield of 400 cartons/acre
- insured has 10 acres of navel oranges
- RMA published ERF equals 1.00
- coverage level equals 0.75
- insured share equals 0.5000
- payment factor equals 0.80.

A. Example 1 - Calculating **Amount of Insurance**

The following is an example of calculating a revenue guarantee and is provided to illustrate the difference between the amount of insurance and the value per acre. The value per acre calculation is prior to application of the payment factor and therefore reflects the true loss inception point. The amount of insurance per acre (guarantee) is calculated as follows:

Examples (Continued)

A. **Example 1 - Calculating Amount of Insurance (continued)**

Step	Action
1	Multiply the approved revenue per acre times the ERF. $\$3,838 \times 1.00 = \$ 3,838$
2	Multiply the result of step 1 times the coverage level. $\$3,838 \times 0.75 = \$2,879$
3	Multiply the result of step 2 times the payment factor. $\$2,879 \times 0.80 = \$2,303$
4	Multiply the result of step 3 times producer's share. $\$2,303 \times 0.500 = \$1,152$ (Amount of insurance per acre)
5	Multiply the result of step 2 by the producer's share $\$2,879 \times 0.500 = \$1,440$ (Value per acre)
6	Multiply the result of step 4 times the number of acres. $\$1,152 \times 10 = \$11,520$

B. **Example 2 - Calculating an Indemnity Based on Inadequate Market Price**

The following is an example of calculating an indemnity under ARH plan of insurance. An indemnity is owed if the producer's revenue for the insurance year is less than the guarantee. The standard calculation sequence used for crop insurance must be modified for the Citrus Pilot Program because only the revenue obtained by the insured person can be included in the revenue to count. Therefore, the producer's share must be introduced at an earlier step in the standard calculation.

The producer harvests an amount of citrus that exceeds the approved yield of 400 cartons/acre. However, the market price results in revenue to count of only \$10,000 for the insured. The indemnity is calculated as follows:

Step	Action
1	Calculate the value per acre for 10 acres, as provided in paragraph A, Example 1. $\$1,440 \times 10 \text{ acres} = \$14,400$
2	Subtract the revenue to count from the result of step 1. $\$14,400 - \$10,000 = \$4,400$ preliminary indemnity
3	Multiply the result of step 2 times the payment factor. $\$4,400 \times 0.80 = \$3,520$ indemnity payment

Examples (Continued)**B. Example 2 - Calculating an Indemnity Based on Inadequate Market Price (continued)**

The payment factor is not applied to the revenue to count, but instead is applied to the preliminary indemnity amount. In this example, the insured would have received an indemnity of \$4,400 if the insured had elected to use the default payment factor of 1.00. Any payment factor other than 1.00 will reduce the overall producer guarantee and premium amount without altering the loss inception point.

C. Example 3 - Calculating an Indemnity Based on Crop Damage Resulting in Unmarketable Production

For this example, the following data applies:

- insured's share of the total harvested production was 1,000 cartons, and it was sold for \$10,000
- 125 cartons of insured's share of unharvested marketable production was appraised and valued with the annual price of \$10/carton
- herbicide drift, an uninsurable cause of loss, damaged 2 acres of citrus, making the citrus unmarketable
- unharvested production adjustment amount in the Special Provisions is \$0.70/carton.

Because there was a production shortfall, the unharvested production adjustment amount must be calculated in order to calculate the indemnity in this example. The following is the unharvested production adjustment amount calculation.

Step	Action
1	Multiply approved yield by coverage level by producer share by number of acres unharvested. $400 \times 0.75 \times 0.500 \times 2 = 300$ cartons production corresponding to the acres damaged by uninsured cause of loss
2	Add result of step 1 to sum of unharvested marketable appraised production plus harvested/sold production $300 \text{ cartons} + 125 \text{ cartons} + 1,000 \text{ cartons} = 1,425 \text{ cartons}$
3	Multiply approved yield per acre by coverage level by insured's share by number of total acres. $400 \times 0.75 \times 0.500 \times 10 = 1,500$ cartons implicit in guarantee
4	Subtract result of step 2 from result of step 3. $1,500 - 1,425 = 75$ cartons implicit in guarantee which are not harvested or otherwise account for with appraisal and valuation.

Examples (Continued)

C. Example 3 - Calculating an Indemnity Based on Crop Damage Resulting in Unmarketable Production (continued)

Step	Action
5	Multiply result of step 4 by the unharvested production adjustment amount in the Special Provisions. 75 x \$0.70 = \$53 of revenue to count representing the harvest cost not incurred due to the production shortfall.

After calculating the unharvested production adjustment amount, calculate the indemnity according to the following table.

Step	Action
1	Multiply the value per acre by the number of acres damaged by uninsured causes. \$1,440 x 2 = \$2,880 appraisal for uninsured causes
2	Multiply the cartons of unharvested marketable production by the annual price. 125 x \$10 = \$1,250 appraisal for unharvested marketable production
3	Sum result of step 1 + result of step 2 + dollar amount received for harvested/sold production + revenue to count representing the harvest cost not incurred due to the production shortfall. \$2,880 + \$1,250 + \$10,000 + \$53 = \$14,183 total revenue to count
4	Subtract result of step 3 from amount of insurance. \$14,400 - \$14,183 = \$217 preliminary indemnity
5	Multiply result of step 4 times payment factor. \$217 x 0.80 = \$174 total indemnity

D. Example 4 - Carrying Forward a Loss Claim with the Unharvested Production Adjustment

The following example demonstrates the loss information needed to complete the revenue report for the subsequent year when a complete loss occurred and the unharvested production adjustment procedure was applied. Assume a unit of citrus in Fresno County, CA was badly damaged by a freeze event. The appraisal determines zero production to count, a complete loss. There is no damage due to uninsurable causes. The grower does not harvest and the unharvested production adjustment is applied to the approved yield. For simplicity this example represents only one (1) acre and the producer approved amounts are identical to the county transitional values. The unharvested production adjustment amount is \$.70/carton.

Examples (Continued)

The following data applies:

- insured has an approved revenue of \$2,780/acre
- insured has an approved yield of 400 lbs/acre
- RMA published ERF equals 1.00
- coverage level equals 0.75
- insured share equals 1.000
- payment factor equals 1.00
- insured's amount of insurance equals \$2,085/acre
- County T-Revenue equals \$3,575/acre
- County T-Yield equals 450 cartons/acre

Step	Action
1	Insured's approved yield by coverage level and share equals 300 cartons/acre – (0 cartons damaged due solely to uninsured causes + 0 cartons appraised + 0 cartons harvested) = 300 cartons subject to the unharvested production adjustment
2	Multiply result of step 1 by the unharvested production adjustment amount. 300 cartons x \$0.70/ carton unharvested production adjustment amount = \$210 of revenue to count representing the harvest costs not incurred due to the production shortfall
3	Subtract result of step 2 from amount of insurance. \$2,085 amount of insurance – \$210 revenue to count= \$1,875 indemnity

The data from the claim form must be used when determining next year's annual revenue:
 0 cartons production to count = 0 carton actual yield;
 \$210 revenue to count = \$210 actual revenue.

Revenue substitution (RS) and yield substitution (YA) are applied if elected by the insured:
 60% RS = \$3,575 x 0.60 = \$2,145;
 60% YA = 450 cartons x 0.60 = 270 cartons