

United States Department of Agriculture



Federal Crop Insurance Corporation

FCIC-25350 (11-2018) FCIC-25350-1 (04-2020)

POPCORN LOSS ADJUSTMENT STANDARDS HANDBOOK

2020 and Succeeding Crop Years

RISK MANAGEMENT AGENCY KANSAS CITY, MO 64133

TITLE: POPCORN LOSS	NUMBER:	25350
ADJUSTMENT STANDARDS		25350-1
HANDBOOK		
EFFECTIVE DATE: 2020 and Succeeding	ISSUE DATE:	April 30, 2020
Crop Years		
SUBJECT:	OPI: Product A	Administration and Standards
	Division	
Provides the procedures and instructions	APPROVED:	
for administering the Popcorn crop		
insurance program	/S:/ Richard Fl	ournoy
		-
	Deputy Admini	strator for Product Management

REASON FOR ISSUANCE

Major changes: See changes or additions in text which have been highlighted. Three stars (***) identify information that has been removed.

1. Exhibit 15: Corrected the Popcorn Moisture Adjustment Factors for moisture percent over 30.0 percent.

POPCORN LOSS ADJUSTMENT STANDARDS HANDBOOK

CONTROL CHART

Popcorn Loss Adjustment Standards Handbook							
	TP Page(s)	TC Page(s)	Text Page(s)	Exhibit Number	Exhibit Page(s)	Date	FCIC Number
Remove	1-4			14-15	71-72	11-2018	FCIC-25350
Insert	1-2			14-15	71-72	04-2020	FCIC-25350-1
Current Index	1-2	1-2	1-24	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\end{array} $	$\begin{array}{c} 25\\ 26\\ 27-29\\ 30-33\\ 34-36\\ 37-39\\ 40-64\\ 65\\ 66\\ 67\\ 68\\ 69\\ 70\\ 71\\ 72\\ 73-74\\ 75-76\\ 77\end{array}$	04-2020 11-2018 11-2018 11-2018 11-2018 11-2018 11-2018 11-2018 11-2018 11-2018 11-2018 11-2018 11-2018 11-2018 11-2018 11-2018 11-2018 11-2018 11-2018	FCIC-25350-1 FCIC-25350 FCIC-25350 FCIC-25350 FCIC-25350 FCIC-25350 FCIC-25350 FCIC-25350 FCIC-25350 FCIC-25350 FCIC-25350 FCIC-25350 FCIC-25350 FCIC-25350-1 FCIC-25350-1 FCIC-25350 FCIC-25350

FILING INSTRUCTIONS

This handbook replaces the 2019 Popcorn Loss Adjustment Standards Handbook, FCIC-25350-3H (03-2018). This handbook is effective for the 2020 and succeeding crop years and is not retroactive to any 2019 or prior crop year determinations.

POPCORN LOSS ADJUSTMENT STANDARDS HANDBOOK TABLE OF CONTENTS

PAGE NO.

PART 1 GENERAL INFORMATION

1	General Information
2	AIP Responsibilities
	(Reserved)

PART 2 POLICY INFORMATION

11	Insurability	4
	Unit Division	
13	Popcorn Quality Adjustment	6
	0 (Reserved)	

PART 3 REPLANTING PAYMENT PROCEDURES

21	Replanting Payment Procedures	8
22	Qualifications for Replanting Payment	8
	Maximum Replanting Payment	
	Replanting Payment Inspections	
	30 (Reserved)	

PART 4 APPRAISALS

31	General Information	11
32	Selecting Representative Samples	11
	Measuring Row Width for Sample Selection	
	Stages of Growth	
	Appraisal Methods	
	Deviations and Modifications	
37	General Information for Appraisal Worksheet Entries and Completion Procedures	22
38-5	0 (Reserved)	

PART 5 PRODUCTION WORKSHEET

51 General Information for Production Worksheet Entries and Completion Procedures23 52-60 (Reserved)

POPCORN LOSS ADJUSTMENT STANDARDS HANDBOOK TABLE OF CONTENTS

PAGE NO.

EXHIBITS

1	Acronyms and Abbreviations	25
2	Definitions	26
3	Form Standards – Appraisal Worksheet for Stand Reduction	27
4	Form Standards – Appraisal Worksheet for Hail Damage	30
5	Form Standards – Appraisal Worksheet for Maturity Line Weight	34
6	Form Standards – Appraisal Worksheet for Weight	37
7	Form Standards – Production Worksheet	40
8	Minimum Representative Sample Requirements	65
9	Row Length Factors	66
10	Popcorn Stand Reduction – Percent of Potential Remaining	67
11	Popcorn Hail Stand Reduction Loss	68
12	Leaf Loss Chart	69
13	Stage Modification	70
14	Shelling Percentage Factors – Ear Popcorn	71
15	Popcorn Moisture Adjustment Factors	72
16	Popcorn – Combined Test Weight and Pack Factors	73
17	Popcorn Stage Characteristics	75
18	Popcorn Plant and Kernel Characteristics	77

1 General Information

A. Purpose and Objective

The RMA-issued loss adjustment standards for this crop are the official standard requirements for adjusting losses in a uniform and timely manner. The RMA-issued standards for this crop and crop year are in effect as of the signature date for this crop handbook located at <u>www.rma.usda.gov/Policy-and-Procedure/Loss-Adjustment-Standards---25000</u>.

This handbook remains in effect until superseded by reissuance of either the entire handbook or selected portions (through amendments, bulletins, or FADs). If amendments are issued for a handbook, the original handbook as amended shall constitute the handbook. A bulletin or FAD can supersede either the original handbook or subsequent amendments.

B. Related Handbooks

The following table identifies handbooks that shall be used in conjunction with this handbook.

Handbook	Relation/Purpose	
CIH	Provides overall general underwriting (not crop specific) process.	
DSSH	Provides the form standards and procedures for use in the sales and service of crop insurance contracts.	
GSH	Provides general crop insurance information.	
LAM	Provides overall general loss adjustment (not crop-specific) process.	

(1) Terms, abbreviations, and definitions general (not crop specific) to loss adjustment are identified in the GSH and LAM.

(2) Terms, abbreviations, and definitions specific to Popcorn loss adjustment and this handbook are in exhibits 1 and 2, herein.

C. CAT Coverage

Refer to the CIH, GSH and LAM for provisions and procedures not applicable to CAT coverage.

D. Irrigated Practice

Refer to the DSSH for irrigated practice guidelines and to the CIH and LAM for other irrigated practice information.

2 **AIP Responsibilities**

A. Utilization of Standards

All AIPs shall utilize these standards for both loss adjustment and loss training for the applicable crop year. These standards, which include crop appraisal methods, claims completion instructions, and form standards, supplement the general (not crop-specific) loss adjustment standards identified in the LAM.

B. Form Distribution

The following is the minimum distribution of forms completed by the adjuster and signed by the insured (or the insured's authorized representative) for the loss adjustment inspection.

- (1) One legible copy to the insured; and
- (2) The original and all remaining copies as instructed by the AIP.

C. Record Retention

It is the AIP's responsibility to maintain records (documents) as stated in the SRA and described in the LAM.

D. Form Standards

- (1) The entry items in exhibits 3 7 are the minimum requirements for the Appraisal Worksheets and Claim Form (hereafter referred to as "Production Worksheet"). All entry items are "Substantive", (they are required).
- (2) The Privacy Act and Non-Discrimination statements are required statements that must be printed on the form or provided to the insured as a separate document. These statements are not shown on the example form(s) in exhibits 3 - 7. The current Non-Discrimination Statement and Privacy Act Statement can be found on the RMA website at: www.rma.usda.gov/About-RMA/Laws-and-Regulations/Required-Statements or successor website.
- (3) The certification statement required by the current DSSH must be included on the PW directly above the insured's signature block immediately followed by the statement below:

"I understand the certified information on this Production Worksheet will be used to determine my loss, if any, to the above unit. The insurance provider may audit and approve this information and supporting documentation. The Federal Crop Insurance Corporation, an agency of the United States, subsidizes and reinsures this crop insurance."

2 AIP Responsibilities (Continued)

(4) Refer to the DSSH for other crop insurance form requirements (such as point size of font, and so forth). The current DSSH can be found on the RMA website at: www.rma.usda.gov/Policy-and-Procedure/Underwriting---24000 or successor website.

3-10 (Reserved)

PART 2 POLICY INFORMATION

The AIP determines the insured has complied with all policy provisions of the insurance contract. The Popcorn CP, which are to be considered in this determination include (but are not limited to):

11 Insurability

The following may not be a complete list of insurability requirements. Refer to the BP, the Popcorn CP, and the SP for a complete list.

- (1) The crop insured will be all the popcorn grown in the county by the insured for which a premium rate is provided by the actuarial documents, in which the insured has a share, and that is planted for harvest as popcorn.
- (2) Insurable popcorn acreage must be grown under, and in accordance with the requirements of a processor contract executed on or before the acreage reporting date and is not excluded from the processor contract at any time during the crop year.
- (3) Popcorn acreage is not insurable (unless allowed by the SP or by WA) if it is:
 - (a) interplanted with another crop; or
 - (b) planted into an established grass or legume.
- (4) The insured will be considered to have a share in the insured popcorn crop if, under the processor contract:
 - (a) the insured retains control of the acreage on which the popcorn is grown;
 - (b) the insured has a risk of loss; and
 - (c) the processor contract provides for delivery of popcorn under specified conditions and at a stipulated base contract price.
- (5) A popcorn producer who is also a processor may be able to establish an insurable interest in the popcorn crop. Refer to the Popcorn CPs for requirements.

- (6) The total PTC (in pounds) from all insurable acreage in the unit includes (but is not limited to):
 - (a) All appraised production (as stated in the CPs) and all harvested production from the insurable acreage in the unit. All harvested and appraised production lost or damaged by uninsured causes.
 - (b) For processor contracts that stipulate the amount of production to be delivered, all harvested popcorn production from any other insurable unit that has been used to fulfill the processor contract applicable to the unit.
 - (c) Any production from yellow or white dent corn on a weight basis and any production harvested from plants growing in the insured crop may be counted as popcorn on a weight basis.
- (7) Any acreage of the insured crop damaged before the final planting date, to the extent that the majority of producers in the area would normally not further care for the crop, must be replanted unless the AIP agrees that it is not practical. Refer to the LAM for replanting provision issues. Refer to Part 3 of this handbook for replanting payment procedures.
- (8) In addition to the COLs excluded by the BP, insurance is not provided against:
 - (a) Damage resulting from frost or freeze after the date designated in the SP; or
 - (b) Failure to follow the requirements contained in the processor contract.

12 Unit Division

Refer to the insurance contract for unit provisions. Unless limited by the CP or SP, a basic unit, as defined in the BP, may be divided into optional units if, for each optional unit, all the conditions stated in the applicable provisions are met.

For information on Enterprise, Multi-County Enterprise, and Whole-Farm units, refer to the CIH and the LAM.

13 Popcorn Quality Adjustment

A. General Information

- (1) Refer to the LAM for information on speculative type contract prices in QA. The QAF cannot be greater than 1.000 or less than zero (.000).
- (2) Popcorn production will be eligible for QA, if due to an insurable COL that occurs within the insurance period, it is not merchantable popcorn and is rejected by the processor. The production will be adjusted by:
 - (a) dividing the value per pound of the damaged popcorn by the base contract price per pound for undamaged popcorn; and
 - (b) multiplying the result by the number of pounds of such popcorn.
 - **Note:** When the edible portion of the crop has been exposed to flood waters and a Federal or State agency recommends destruction or disposal of production from such acreage, refer to the LAM.
- (3) Document QA information as described in the instructions for the Narrative section of the PW (exhibit 7) or on a Special Report.
- (4) If a local market cannot be found for the damaged popcorn, or when determining a salvage value, refer to the LAM.
- Moisture adjustment is applied prior to applying any qualifying QAF such as test weight, kernel damage, etc. A popcorn moisture adjustment factors chart is in exhibit 15. Moisture adjustment results in a reduction in PTC of 0.12 percent for each 0.1 percent moisture in excess of 15 percent.
- (6) Refer to the LAM for special instructions regarding mycotoxin-infected popcorn.
- (7) For additional QA definitions, instructions, qualifications, sampling requirements, graders, and testing requirements, refer to the LAM.

B. Federal or State Ordered Destruction

Under section 15 (j) of the BPs, if due to insured causes, a Federal or State agency has ordered the appraised insured crop or production to be destroyed, on the PW enter the factor ".000" in column 35 for appraised production or column 65 for harvested production, as applicable. Instruct the insured to complete and submit a Certification Form stating the date the crop or production was destroyed and the method of destruction (refer to item 40 and the Narrative in the PW instructions). Also, refer to the LAM for additional information. Otherwise, make no entry.

14-20 (Reserved)

PART 3 REPLANTING PAYMENT PROCEDURES

21 Replanting Payment Procedures

- (1) Replanting payments made on acreage replanted using a practice that was uninsurable as an original planting will require the deduction of the replanting payment for such acreage from the original unit liability. If the unit dollar loss (final claim) is less than the original unit liability minus such replanting payment, the actual indemnity dollar amount will not be affected by the replanting payment. The premium will not be reduced.
- (2) No replanting payment will be made on acreage on which a prior replanting payment has been made during the current crop year.

22 Qualifications for Replanting Payment

To qualify for replanting payment, the:

- (1) insured crop must be damaged by an insurable cause;
- (2) AIP determines that it is practical to replant (refer to the LAM);
- (3) acres being replanted must have been initially planted on or after the "Earliest Planting" date established by the SP;
- (4) per acre appraisal (or appraisal plus any appraisals for uninsured causes of loss) must be less than 90 percent of the per acre production guarantee for the acreage the insured intends to replant (refer to Part 4, "Appraisals");
- (5) acreage replanted must be at least the lesser of 20 acres or 20 percent of the insured planted acreage for the unit as determined on the final planting date or within the late planting period, if a late planting period is applicable (any acreage planted after the end of the late planting period will not be included when determining if the 20 acres or 20 percent qualification is met, refer to the LAM); and
- (6) AIP has given consent to replant after verifying that the processor contract terms can accept delivery, or the processor agrees in writing that it will accept the production from the replanted acreage.

In the Narrative of the PW or on Special Report, show the appraisal for each field or subfield and the calculations to document that qualifications for a replanting payment have been met.

The maximum amount of the replanting payment per acre will be the lesser of:

- (1) the insured's actual replanting cost;
- (2) the product of multiplying the maximum pounds allowed in the policy (150 pounds) by the insured's price election, times the insured's share in the crop; or
- (3) 20 percent of the production guarantee multiplied by the insured's price election, multiplied by the insured's share.

Compute the number of pounds per acre allowed for a replanting payment by dividing the maximum replanting payment by the price election. Show all calculations in the Narrative of the **PW** or on a Special Report.

Example 1

Owner/operator (100 percent share) 25.0 acres replanted Actual cost to replant = \$14.00 per acre Price election = 0.10 per lb. 20 percent of prod. guar. (2000 lbs. x 20%) = 400 lbs. x 0.10 (price election) x 1.000 (share) = 0.00150 pounds (maximum lbs. allowed in policy) x 0.10 (price election) x 1.000 (share) = 15.00The lesser of 15.00, 14.00 and 40.00 is 14.00Actual lbs. per acre allowed = 140 lbs. ($14.00 \div 0.10$ – rounded to whole lbs.)

Enter the number of pounds per acre allowed (140 lbs.) in Section I, column 31, "Appraised Potential" of the PW.

Example 2

Landlord/tenant both insured (50/50 percent share) 25.0 acres replanted Actual cost to replant = \$7.00 per acre (insured's share of cost) Price election = \$0.10 per pound 20 percent of prod. guar. (2000 lbs. x 20%) = 400 lbs. x \$0.10 (price election) x .500 (share) = \$20.00150 pounds (maximum lbs. allowed in the policy) x \$0.10 (price election) x .500 (share) = \$7.50The lesser of \$7.00, \$20.00 and \$7.50 is \$7.00Actual lbs. per acre allowed = 70 lbs. ($$7.00 \div 0.10 rounded to whole lbs.)

Enter the number of pounds allowed (70 lbs.) if share has been applied, or the number of pounds allowed (140 lbs.) if share has yet to be applied in Section I, column 31, "Appraised Potential" of the **PW**. (Follow individual AIP guidelines). Indicate in the Narrative if the pounds allowed for replanting have/have not been reduced for share on the **PW** according to individual AIP guidelines.

24 Replanting Payment Inspections

Replanting payment inspections are to be prepared as final inspections on the PW only when qualifying for a replant payment. Non-qualifying replant payment inspections are to be handled as preliminary inspections. If qualified for a replanting payment, a Certification Form may be prepared on the initial farm visit. Refer to the LAM.

25-30 (Reserved)

PART 4 APPRAISALS

31 General Information

Potential production for all types of inspections will be appraised in accordance with procedures specified in this handbook and the LAM.

32 Selecting Representative Samples

A. Determine Minimum Samples

Determine the minimum number of required samples for a field or subfield by the field size, the average stage of growth, age (size); general capabilities of the plants, variability of potential production, and plant damage within the field or subfield.

B. Splitting Fields

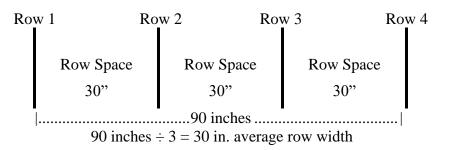
- (1) Split the field into subfields when:
 - (a) Variable damage causes the crop potential to appear to be significantly different within the same field; or
 - (b) The insured wishes to destroy a portion of a field.
- (2) Each field or subfield must be appraised separately.
- (3) Take not less than the minimum number (count) of representative samples required in exhibit 8 (Minimum Representative Sample Requirements) for each field or subfield.

33 Measuring Row Width for Sample Selection

Use these instructions for all appraisal methods that require row width determinations.

- (1) Use a measuring tape marked in inches or convert a tape marked in tenths, to inches, to measure row width (refer to the LAM for conversion table).
- (2) Measure across three or more row spaces from the center of the first row to the center of the fourth row (or as many rows as needed) and divide the result by the number of row spaces measured across to determine an average row width in whole inches.

Example:



- (3) Where rows are skipped for tractor and planter tires, refer to the LAM.
- (4) Apply average row width in exhibit 9 to determine the factor required for the sample row.
- (5) When two or more rows are used for a required sample row, divide the required sample row length when conducting crop appraisals by the number of rows being used. The combined length of all rows must equal the single row length.

34 Stages of Growth

- (1) These instructions provide growth stage information for use when appraising potential production during various stages of growth.
- (2) Sampling Procedures:
 - (a) Determine average popcorn growth stage in selected representative samples.
 - (b) Establish the stage of growth as the most advanced stage of development in which at least 50% of the plants in the representative sample have reached.
 - (c) Use the stage of growth on the date of adjustment (the date when the adjuster first appraises crop damage) when determining yield loss. The date of damage is used when applying the hail appraisal method.
- (3) Actual leaf count is used to determine stages of growth from emergence to tasseling.
 - (a) Starting with the rounded tip leaf, count all leaves developed up to, and including, the stage indicator leaf. The stage indicator leaf is that leaf which is 40 to 50 percent exposed. It is usually the uppermost leaf that is pointing below a horizontal line.
 - (b) If the rounded tip leaf cannot be determined, the node identification system will be used as follows (refer to exhibit 18, Figure A):
 - (i) Pull up the entire plant and carefully split stalk to expose stalk nodes and root whorls.

- (ii) The sixth leaf attaches to the top of the first noticeable elongation between the stalk nodes (an internode).
- (iii) After the sixth leaf node is identified, count upward to the stage indicator leaf.
- (iv) In the early stages of the plant's development, the internodes are very compact and, therefore, difficult to distinguish. By the seventh or eighth leaf stage, the internode elongation should be easily found.
- (4) Ear development is used to determine stage of growth from tasseling to maturity (100 percent stage).
- (5) Stage Definitions. The definitions listed in exhibit 17 are based on normal or average conditions in the Corn Belt Area for 120-day or full season popcorn. There are approximately 7 days from planting to emergence, and 21 days from emergence to the 7th actual leaf stage.

35 Appraisals Methods

A. General Information

These instructions provide information on the following appraisal methods:

Appraisal Method	Use
Stand Reduction Method	for planted acreage with no emerged seed, and from emergence to the milk stage.
Hail Damage Method	for hail damaged appraisals beginning with the 7 th leaf stage and until the popcorn reaches the milk stage.
Maturity Line Weight Method	for all appraisals from the milk stage until kernel are physiologically mature and kernel moisture drops below 40 percent. If at all possible, defer appraisals to weight method.
Weight Method	for all appraisals after the kernels are physiologically mature and kernel moisture drops below 40 percent.

B. Stand Reduction

(1) This method is based on the number of surviving plants in a designated sample row length.

If the reduction in stand is solely due to non-emerged seed due to insufficient soil moisture, do not complete appraisals prior to the time specified in the LAM. Refer to the paragraph in the LAM regarding deferred appraisals and non-emerged seed.

- (2) Surviving plant counts, at the time of appraisal, are converted to pounds per acre by multiplying the percent of potential remaining by the base yield. Base yield is the appropriate verified yield for the acreage from the APH form.
- (3) Prior to the 11th leaf stage, the "Stand Reduction Chart" is used to determine the percent of potential remaining (exhibit 10).
- (4) In the 11th leaf to the milk stage, the yield and stand reductions are on a one-to-one ratio. (Example: 80 percent stand = 80 percent potential.)
- (5) Samples consist of 1/100 acre.

C. Hail Damage

- (1) This method is based on the calculation of direct and indirect damage from hail to determine percent of potential remaining, converted to a pounds-per-acre appraisal.
- (2) For damage due to hail, inspections for immature popcorn shall be delayed a minimum of 7 days after damage for a more accurate damage assessment.
- (3) Direct damage includes loss from stand reduction, crippled plants, and damage to the ear and stalk.
 - (a) Stand Reduction:
 - (i) Prior to the 11th leaf stage, the "Hail Stand Reduction Loss Chart" (exhibit 11) is used to determine percent of damage due to stand reduction.
 - (ii) Beginning with the 11th leaf stage, stand reduction and yield are on a one-to-one ratio. (Example: 80 percent stand = 80 percent potential).
 - (b) Crippled Plants:
 - (i) Cripples are plants which grow to approximately normal height or less but do not produce a normal, harvestable ear. Barren stalks should not be counted as cripples.

C. Hail Damage (continued)

- (ii) Crippled plants must be individually evaluated to determine their contribution to potential yield. Cripples are not counted as totally destroyed plants. For example, in a particular sample it may take three ears from crippled plants to make an average ear (3-for-1). If 30 cripples were counted out of 100 remaining plants and evaluated on a 3-for-1 basis (.67 factor, since 2 of every 3 plants are considered damaged), the gross cripple damage would be 20 percent (.67 x 30).
- (c) Ear Damage:

Ear damage is determined by comparing the number of damaged kernels to the number of total kernels, in a sample of all harvestable ears from 10 consecutive representative plants.

(d) Stalk Damage:

Plants having bruises on the stalk should not be counted as destroyed until such time as they actually fall over and become unharvestable. Young bruised plants usually will produce a normal (or near normal) ear. When considerable bruising is evident, the adjustment should be deferred until the actual loss can be determined.

- (4) Indirect damage is caused by defoliation (the loss of leaf area) due to hail. To determine defoliation or leaf destruction:
 - (a) select representative plants;
 - (b) remove the leaves which were exposed at the time of damage;
 - (c) determine the percent of leaf area destroyed (missing or brown areas) for each leaf;
 - (d) total the percentages; and
 - (e) divide by the number of leaves to determine the average percent. Apply the percent to the Leaf Loss table (exhibit 12).
- (5) Stage Modification Procedure:

Plant stages may not be accurate for leaf area determination when short season (short stature) field varieties which produce less than 19-21 actual leaves in a season are appraised. The stages used for defoliation determination are modified to reflect this lower potential leaf area. Determine the ultimate number of leaves to be produced by tearing the plant down. After the stage indicator leaf has been identified, dissect the plant and count the nodes or leaves not yet emerged to determine the ultimate number.

C. Hail Damage (continued)

- (a) If the actual number of leaves to be produced cannot be determined, defer the appraisal until the actual number of leaves can be determined. At the time of deferral, accurately determine percent of defoliation as of date of loss.
- (b) When the actual leaves to be produced can be determined, refer to the Stage Modification Chart (exhibit 13), to obtain the modified stage for use with the Leaf Loss chart (exhibit 12).
- (c) No further determination of defoliation should be made at the time of a later inspection unless further damage occurs.
- (6) Samples consist of 1/100 acre.

D. Maturity Line Weight

- (1) Select representative samples of:
 - (a) 1/100 acre, if potential appears to be 500 pounds per acre or less.
 - (b) 1/1000 acre, if potential appears to be in excess of 500 pounds per acre.
- (2) This method is based on weighing the samples which are grouped according to maturity and converting this production to pounds per acre.
- (3) The stage of maturity is established by determining where the line separating the solids and the liquid is located in the grain kernel. The solids start to form at the end opposite the kernel tip. The five stages of maturity and the number of pounds of immature-ear popcorn required to make a pound of mature shelled popcorn are as illustrated in exhibit 18, Figure C.
- (4) Pick and husk all harvestable ears in the sample area. Discard portions of ears without kernels.
- (5) Break the ears in half and with the exposed kernels on the tip end of the cob, use a pen/pencil to determine which quarter of the kernel the maturity (solids) line is located. To locate the maturity line, apply moderate pressure at the top of the kernel and draw the pencil toward the bottom of the kernel. Place both parts of each ear in an appropriate stage pile to determine the stage weights. In most samples, the ears will be in only two stages (Refer to exhibit 18, Figure C).
- (6) Use the appropriate factor for converting the stage weight to pounds per acre of mature potential production. (Refer to items 12 - 16 of Maturity Line Weight Method Appraisal Worksheet instructions). Total the stage weight pounds per acre to obtain the appraisal for the sample.

E. Weight Method

- (1) This method is based on weighing the ears in a fraction of an acre, then converting this production to pounds-per-acre.
- (2) Select representative samples of:
 - (a) 1/100 acre, if potential appears to be 500 pounds per acre or less.
 - (b) 1/1000 acre, if potential appears to be in excess of 500 pounds per acre.
- (3) Pick and husk all harvestable ears in the sample area. Weigh production.
- (4) Multiply average sample weight by:
 - (a) 100 if sample size was 1/100 acre.
 - (b) 1000 if sample size selected was 1/1000 acre.

The results will be the pounds-per-acre of potential production (not adjusted for moisture, test weight, etc.).

- (5) Determine shelling percentage factor as follows:
 - (a) Select a five-pound representative ear popcorn sample, shell, and weigh.
 - (b) Apply weight to exhibit 14 to arrive at shelling percent factor. If weight of shelled popcorn is not listed in exhibit 14, divide the weight from (a) above by 5 and round to two decimals.

A. Deviations

Deviations in appraisal methods require FCIC written authorization (as described in the LAM) prior to implementation.

B. Modifications

Modifications in appraisal methods require FCIC written authorization (as described in the LAM) prior to implementation.

Modifications in appraisal methods require AIP authorization (as described in the LAM).

When applicable, with AIP approval, use the following instructions in conjunction with the appropriate appraisal methods for damage due to insurable causes.

(1) No Pollination Due To Drought, Heat, Hot Winds, and/or Insects:

Appraise popcorn as "0" (for the stand reduction method of appraisal) if, after a general survey of the crop, the adjuster finds:

- (a) Ear shoots, and the pollination period:
 - (i) has ended. Blisters on the cob are enlarged (wart-like); or
 - (ii) is in progress. Blisters on the cob are not enlarged, and all the silk has been eaten below the husk by insects.
- (b) No ear shoots, and the pollination period:
 - (i) is in progress or has ended; or
 - (ii) has not begun. The tassel is exposed and the still unexposed ear bud is less than 2 inches in length.
- (2) Poor Pollination Due To Drought, Heat, Hot Winds, and/or Insects:

Insect damage must be due to insurable causes. Refer to the CP.

Appraise popcorn based upon stand reduction only if the appraisal cannot be deferred. After normal silking to milk stage, stalks with partial pollination are considered surviving plants but only to the extent they contribute to the production of a normal ear of popcorn, i.e., if 3 ears are required to produce the grain equivalent of one normal ear, count only 1/3 of such plants. Barren stalks are not counted as surviving. Individually evaluate ears to determine total surviving plants to be entered on the appraisal worksheet. Document adjustment in the "Notes and Calculations" section of the Stand Reduction Appraisal Worksheet or on an attached Special Report.

B. Modifications (continued)

(3) Severely Drought-Stunted Popcorn:

Defer the appraisal until the milk stage, at which time the maturity line method is used. If the insured does not wish to leave representative sample areas for this appraisal, or it is impractical to do so, use the stand reduction method.

(4) Permanently Wilted Popcorn:

Note on appraisal worksheet "no production potential due to permanent wilt" and enter a zero appraisal for the affected acres. For acreage with minimal or no damage due to permanent wilt, but wilt conditions have been determined to be in the area, appraise in the normal manner unless the insured agrees to leave representative sample areas for later appraisal. Inform insured to request another appraisal within 30 days of this inspection.

Permanent wilt is caused by extremely dry soil conditions and can occur at any stage of growth. Permanent wilt is a condition where plants are stressed from lack of moisture to the extent that all leaves remain tightly rolled throughout the night. Lower plant leaves become dry and brittle and will crumble when rolled between the hands. Permanently wilted plants are damaged to the extent that they will die even if supplied moisture. From the tasseled stage forward, appraisals should be deferred until the maturity line or weight method appraisals can be used because of the difficulty with the determination of whether the popcorn will produce grain.

(5) Irregular Germination or Crop Development Due to Insured Causes:

Use the stand reduction method of appraisal based upon the number of plants capable of reaching the milk stage prior to a killing frost.

- (a) Count all plants to determine the plant population and enter in normal plant population per 1/100 acre (item 11, Stand Reduction Appraisal Worksheet).
- (b) Determine stage of growth for early-germinating popcorn and record in item 19 (Stage of Growth at Time of Damage).
- (c) Determine the stage of growth for each late-germinating popcorn plant and record in "Notes and Calculations" section (item 23, Stand Reduction Appraisal Worksheet):
 - (i) The stage of each plant; and
 - (ii) The computation of the number of days from the current stage to the milk stage for each plant and add five days (the additional five days are to account for slower plant development as the frost date approaches).

B. Modifications (continued)

- (d) Compute the number of days from the appraisal date to the average killing frost date for the area (contact State Extension Service) and show calculation in "Notes and Calculations" section (item 23, Stand Reduction Appraisal Worksheet).
- (e) Count and record the number of surviving plants per 1/100 acre (item 12, Stand Reduction Appraisal Worksheet) which will reach the milk stage before the average killing frost date (include early-germinated plants).
- (f) The percent of potential (item 15, Stand Reduction Appraisal Worksheet) is equal to the percent of "surviving" plants ("surviving" plant number divided by original plant population) on a "one-for-one" basis for plants in the 11th leaf stage and beyond. Before the 11th leaf stage, the Stand Reduction Chart is used to determine the percent of potential.
- (g) The percent of potential (item 15) multiplied by the applicable APH yield results in the pound-per-acre appraisal.

Example:

Some plants are in the 5th, 8th, and 10th leaf stages. Date of the appraisal is July 24. Frost date is September 25; 63 days from the date of appraisal. Late developing plants which will not reach the milk stage prior to the frost date will not be counted as surviving plants.

Plants in the 10th leaf stage will be counted as surviving, since they will reach the milk stage in 58 days (allowing the additional FIVE days for maturity retardation). Plants in the 8th leaf and earlier stage would not be counted as surviving, as they would not reach the milk stage prior to the frost date.

<u>STAGE</u>	DAYS TO MILK STAGE
5 th leaf	<mark>73</mark>
8 th leaf	<mark>64</mark>
10 th leaf	<mark>58</mark>

- (6) Appraisal Modification for Early Freeze Damage:
 - (a) When authorized by the AIP, the Maturity Line Appraisal method may be modified to more closely reflect the actual potential remaining after freeze damage. Apply the following procedure on a case-by-case basis only as circumstances warrant.

B. Modifications (continued)

- (b) Document on a Special Report, all pertinent information regarding the loss such as the popcorn hybrid planted, the maturity rating of the popcorn, whether the late planting provisions apply, planting (and any replanting) dates, the practicality of any late replanting, extent of freeze damage to popcorn in the area (whether general or isolated), date of normal freeze, date(s) of damaging freeze(s), and specifically why the popcorn did not escape freeze damage. Do not apply the appraisal modification for early freeze damage if it is determined that the insured could have prevented the damage through proper farming practices. The modification is only applied on popcorn that is less than fully mature. QA procedures do not apply when using the freeze modification. The stage of popcorn on the date of final adjustment must be used when applying the modification factors. Do not backstage to the stage at the date of freeze.
- (c) The conditions that determine the extent of damage are the maturity of the plant at the time of freeze and the number of leaves killed above the ear-stalk attachment. If the freeze occurs when the maturity line method of appraisal is applicable (except 100 percent stages), adjustments to the maturity line appraisal are allowed if all the leaves above the base of the ears are killed by the freeze. For:
 - (i) 25 percent stage count 25 percent of the appraisal.
 - (ii) 50 percent stage count 50 percent of the appraisal.
 - (ii) 75 percent stage count 75 percent of the appraisal.
 - (iii) 95 percent stage count 95 percent of the appraisal.
- (d) The adjustments do not apply if:
 - (i) Kernels are in the 100 percent stage -- use normal appraisal.
 - (ii) Any leaves remain alive above the base of the ear (regardless of stage) -- use normal appraisal; or
 - (iii) Kernels are in the pre-25 percent stage (leaves are all killed above the base of the ear) ear has no potential. If all ears are in this category, appraise at zero.
- (e) For purposes of this appraisal modification, "early freeze damage" refers to a freeze which occurs early enough in the popcorn's growth stages to cause damage to the developing ears, without regard to its relationship to the calendar date of occurrence. The calendar date of the freeze is important, however, in determining whether the insured could have prevented the damage through proper farming practices.
- (f) Freeze is not an insurable COL if the freeze or frost occurs after the date designated in the SP.

37 General Information for Appraisal Worksheet Entries and Completion Procedures

- (1) Include the AIP's name in the appraisal worksheet title if not preprinted on the worksheet or when a worksheet entry is not provided.
- (2) Include the claim number on the appraisal worksheet (when required by the AIP) when a worksheet entry is not provided.
- (3) Separate appraisal worksheets must be completed for each unit appraised, and for each field or subfield including fields or subfields with a different APH yield or farming practice (applicable to replant, preliminary, and final claims). Refer to Part 4, paragraph 32 for sampling requirements.
- (4) When a remarks section is not included on the form, document pertinent information about the appraisal, including any appropriate calculations, on a Special Report and attach to the worksheet.
- (5) Standard appraisal worksheet items are numbered consecutively in exhibits 3 6. Example appraisal worksheets are also provided to illustrate how to complete item entries.
- (6) For all zero appraisals, refer to the LAM.

38-50 (Reserved)

PART 5 PRODUCTION WORKSHEET

51 General Information for Production Worksheet Entries and Completion Procedures

- (1) The PW is a progressive form containing all notices of damage for all preliminary, replant, and final inspections on a unit.
- (2) If a PW has been prepared on a prior inspection, verify each entry and enter additional information as needed. If a change or correction is necessary, strike out all entries on the line and re-enter correct entries on a new line. The adjuster and insured should initial any line deletions.
- (3) Refer to the LAM for instructions regarding the following:
 - (a) Acreage report errors.
 - (b) Delayed notices and delayed claims.
 - (c) Corrected claims or fire losses (double coverage) and cases involving uninsured causes of loss, unusual situations, controversial claims, concealment, or misrepresentation.
 - (d) Claims involving a Certification Form (when all the acreage on the unit has been appraised to be put to another use, when acreage is being appraised for a replanting payment and all acreage on the unit has been initially planted, or other reasons described in the LAM).
 - (e) "No Indemnity Due" claims (which must be verified by an appraisal or notification from the insured that the production exceeded the guarantee).
 - (f) Late planting.
- (4) Refer to the **PPSH** for information on prevented planting.
- (5) The adjuster is responsible for determining if any of the insured's requirements under the notice and claim provisions of the policy have not been met. If any have not, the adjuster should contact the AIP.
- (6) Instructions labeled "**Preliminary**" apply to preliminary inspections only. Instructions labeled "**Replant**" apply to replant inspections only. Instructions labeled "**Final**" apply to final inspections only. Instructions not labeled apply to all inspections.
- (7) The AIP may complete a separate **PW** for each type planted in the unit.

51 General Information for Worksheet Entries and Completion Procedures (Continued)

(8) If the AIP determines the claim is to be denied, refer to the LAM for PW completion instructions.

52-60 (Reserved)

Acronyms and Abbreviations

Approved Acronym/Abbreviation	Term
AIP	Approved Insurance Provider
АРН	Actual Production History
BP	Basic Provisions
CAT	Catastrophic Risk Protection
CIH	Crop Insurance Handbook
COL	Cause of Loss
СР	Crop Provisions
DF	Discount Factor
DSSH	Document and Supplemental Standards Handbook
FCIC	Federal Crop Insurance Corporation
FGIS	Federal Grain Inspection Service
GSH	General Standards Handbook
LAM	Loss Adjustment Manual
PPSH	Prevented Planting Standards Handbook
PTC	Production to Count
PW	Production Worksheet
QA	Quality Adjustment
QAF	Quality Adjustment Factor
RIV	Reduction in Value
RMA	Risk Management Agency
SP	Special Provisions
SRA	Standard Reinsurance Agreement
UUF	Uninsured Unavoidable Fire
WA	Written Agreement

The following table provides the acronyms and abbreviations used in this handbook.

<u>Base Contract Price</u> means the price stipulated on the contract executed between the insured and the processor before any adjustments for quality.

Merchantable Popcorn means popcorn that meets the provisions of the processor contract.

Form Standards – Appraisal Worksheet for Stand Reduction

Verify and/or make the following entries for each appraisal worksheet element/item number. A completed appraisal worksheet example is at the end of this exhibit. For general form standards and other general information, see subparagraph 2D and paragraph 37.

	Element/Item Number	Standard
	Company	Name of AIP if not preprinted on the worksheet (Company Name).
1.	Insured's Name	Name of the insured that identifies exactly the person (legal entity) to whom the policy is issued.
2.	Policy Number	Insured's assigned policy number.
3.	Unit No.	Unit number from the Summary of Coverage after it is verified to be correct.
	Claim Number	Claim number as assigned by the AIP.
4.	Crop	"Popcorn."
5.	Crop Year	Four-digit crop year, as defined in the policy, for which the claim is filed.
6.	FSA Farm No.	FSA farm number, if applicable.
7.	Field No.	Field or subfield identification symbol.
	No. of Acres	Number of determined acres, to tenths, in the field or subfield being appraised.
8.	Row Width	Row width to nearest inch. Refer to Part 4, Paragraph 33 for row width determination information.
9.	Base Yield	Enter the approved APH yield to nearest whole pound from the APH form, after verifying to be correct.
10.	Sample No.	Make no entry.
11.	Normal Plant Population 1/100 acre	Determine by counting the potential (living, dead, missing, and non- emerged) plants in a length of row equivalent to 1/100 acre, rounded to the nearest multiple of ten.
12.	No. of Surviving Plants 1/100 Acre	Number of surviving plants in the same sample.
13.	Percent of Stand	Make no entry.
14.	Round Col. 13 to nearest 5 percent	Make no entry.

Form Standards – Appraisal Worksheet for Stand Reduction (Continu	ued)
---	------

15.	Percent of	Enter percent of potential as follows:
	Potential	a. Determine stage of growth at time of damage and enter in item 19.
		b. Before 11 th leaf stage, use Stand Reduction (exhibit 10) and enter percent potential to nearest whole percent, after interpolating.
		 c. In 11th leaf stage and beyond, enter result of dividing number of surviving plants (item 12) by normal plant population (item 11) to whole percent.
16.	Base Yield	Repeat entry from item 9.
17.	Appraisal for Sample	Result, to whole pounds, of multiplying percent of potential (item 15) expressed as a decimal by the base yield (item 16).
18.	Total	Sum of entries in item 17 to whole pounds.
19.	Stage of Growth at Time of Damage	Stage of growth at time of damage (refer to Paragraph 34).
20.	Total Appraisals for all Samples	Repeat entry from item 18.
21.	No. of Samples	Enter total number of samples.
22.	Appraisal per	Result (rounded to whole pounds) by dividing total appraisals for all
	Acre/Field	samples (item 20) by the total number of samples (item 21).
23.	Notes and	Remarks pertinent to the appraisal, sampling, and conditions in general
	Calculations	(e.g. – very hot and dry), etc.
	The following requi	ired entries are not illustrated on the Appraisal Worksheet example
	below.	
24.	Insured's Signature	Insured's (or insured's authorized representative's) signature and date.
	and Date	Before obtaining insured's signature, review all entries on the appraisal
		worksheet with the insured, (or insured's authorized representative)
		particularly explaining codes, etc., which may not be readily understood.
25.	Adjuster's	Signature of adjuster, code number, and date signed after the insured (or
	Signature, Code	insured's authorized representative) has signed. If the appraisal is
	No., and Date	performed prior to signature date, document the date of appraisal in the
		Remarks/Narrative section of the Appraisal Worksheet (if available);
	Page Number	otherwise, document the appraisal date in the Narrative of the PW. Page numbers - (Example: Page 1 of 1, Page 1 of 2, Page 2 of 2, etc.).
	i age inumber	1 age numbers - (Example. 1 age 1 01 1, Fage 1 01 2, Fage 2 01 2, etc.).

Exhibit 3

Form Standards – Appraisal Worksheet for Stand Reduction (Continued)

FOR ILLUSTRATION PURPOSES ONLY			COMPANY			INSURED'S I	2. POLICY NUMBER				
			ANY COMPANY			I.M. INSURED					XXXXXXX
STAND REDUCTION			3. UNIT NO.	CLAIM NUMBER		4. CROP				:	5. CROP YEAR
APPRAISAL WORKSHEET (Corn and Grain Sorghum,			0001-0001BU	XXXXX					CORN		YYYY
HYBRID SEED CORN,			6. FSA FARM NO.	7. FIELD NO.	NC	NO. OF ACRES 8. RO			OW WIDTH 9. BASE YI		
HYBRID SORGHUM SEED, POPCORN)			106	A		80.0 30")"	2000		
COMPUT	ATIONS		1			T					
				HUM SEED AND							
SAMPLE NO. 10	NORMAL PLANT POPULATION 1/100 ACRE 11	NO. OF SURVIVING PLANTS 1/100 ACRE 12	PERCENT OF STAND 13	ROUND COL. 13 NEAREST 5 PERCENT 14	то	POTE	PERCENT OF POTENTIAL BASE YIELD 15 16				APPRAISAL FOR SAMPLE (COL. 15 X 16) 17
1	220	36				3'	7	x 2000		000	= 740
2	220	32				34	4	X X	x 2000 :		= 680
3	220	23				2	7	X	20	000	= 540
4	220	42				4	1	X	x 2000		= 820
5	220	51				4	47 × 2000		000	= 940	
6								X			 =
7								X			 =
8	After 10 th le	af stage, percent poter	ntial is in direct propo	rtion to percent sta	and:	Col. 12 ÷ Co	ol. 11	 X			=
9								X			=
10								X			=
11								X			=
12								X			=
										18. TOTA	5720
19. STAGE OF GROWTH AT TIME OF DAMAGE 20. TOTAL APPRAISALS FOR ALL SAMPLES 21. NO. OF SAMPLES 22. APPRAISAL PER ACRE/FIELD					ACRE/FIELD						
	8 th Lea		3720	<u>.</u>		5		=		744	LBS.
23. NOTES	SAND CALCULATIO	NS									

This form example does not illustrate all required entry items (e.g., signatures, dates, etc.).

Form Standards – Appraisal Worksheet for Hail Damage

Verify and/or make the following entries for each appraisal worksheet element/item number. A completed appraisal worksheet example is at the end of this exhibit. For general form standards and other general information, see subparagraph 2D and paragraph 37.

	Element/Item	Standard
	Number	
	Company	Name of AIP if not preprinted on the worksheet (Company Name).
	Claim No.	Claim number as assigned by the AIP.
1.	Insured's Name	Name of the insured that identifies exactly the person (legal entity) to whom the policy is issued.
2.	Policy No.	Insured's assigned policy number.
3.	Unit Number	Unit number from the Summary of Coverage after it is verified to be correct.
4.	Crop	"Popcorn."
5.	Crop Year	Four-digit crop year, as defined in the policy, for which the claim is filed.
6.	FSA Farm No.	FSA Farm Number, if applicable.
7.	Field No.	Field or subfield identification symbol.
8.	Ultimate No. of	Make no entry.
	Leaves	
9.	Base Yield	The approved yield, to the nearest whole pound, from the APH form after verifying to be correct.
10.	Sample No.	Make no entry.
11.	Normal No. of	Normal plant population (original stand) – determine by counting the
	Plants 1/100 acre	potential (living, dead, missing or non-emerged) plants in a length of row
		equivalent to 1/100 acre, rounded to the nearest multiple of ten. Refer to
		exhibit 9.
12.	No. Plants Totally	Number of plants totally destroyed. If totally destroyed plants cannot be
	Destroyed 1/100	accurately counted, complete item 13 and enter result of subtracting
	Acre	remaining stand (item 13) from normal number of plants (item 11).
13.	Remaining Stand	Determine the number of remaining plants or enter the result of
	No. Plants 1/100	subtracting number of plants totally destroyed (item 12) from normal
	Acre	number of plants (item 11).

14.	% Damage from	Determine and enter percent of damage (to whole percent).						
	Stand Reduction							
	(<mark>Exhibit 11</mark>)	a. From 7 th through 10 th leaf stages, use "Hail Stand Reduction						
		Loss" (exhibit 11) based on entries in item 11 (normal number of						
		plants) and item 13 (remaining stand number of plants).						
		Interpolate to nearest whole percent.						
		b. After 10 th leaf stage, divide number of plants totally destroyed						
		(item 12) by normal number of plants (item 11), round to nearest						
		whole percent.						
15.	% Cripples (Corn	Determine entry as follows (refer to sample on worksheet for						
	Only)	calculations and subparagraph 35 C (3) (b) for definition):						
		a. Count the number of cripples in 100 remaining live plants.						
		b. Individually evaluate the ears on the crippled plants to determine						
		the gross damage from cripples.						
		c. Multiply this gross percent times the remaining crop (100 – percent						
		damage from stand reduction table (item 14)) to obtain the net						
		percent of damage. Round to nearest tenth.						
16.	% Ear Damage	a. If no ear damage – make no entry.						
	(Corn)							
		b. If ear damage:						
		(1) Select all ears from 10 consecutive representative plants.						
		(2) Determine the total number of kernels on all ears.						
		(2) Determine the total number of demaged kernels on semple						
		(3) Determine the total number of damaged kernels on sample ears. The gross percent of ear damage is determined by						
		dividing the total number of kernels damaged by the total number of kernels.						
		number of kernets.						
		(4) Determine net percent of ear damage by multiplying the						
		gross percent times the remaining crop (100 – item 14 – item						
		15) and enter the results in item 16, to tenths.						

Form Standards – Appraisal Worksheet for Hail Damage (Continued)

17.	Total Direct Damage	Sum of items 14, 15 and 16.
10		
18.	Potential	Result of subtracting entry in total direct damage (item 17) from 100.
	Remaining	
19.	% Leaf Area	Determine and enter percent of leaf area destroyed.
	Destroyed	
20.	% Damage for	Percent of damage for leaf destruction based on exhibit 12, percent leaf
	Leaf Destruction	area destroyed (items 19) and stage of plant growth at time of damage
		(item 27), to nearest tenth percent.
21.	Net Indirect	Result (rounded to tenths) of multiplying potential remaining (item 18) by
	Damage	percent damage for leaf destruction (item 20).
22.	% Damage from	Sum of total direct damage (item 17) and net indirect damage (item 21),
	Hail	to tenths.
23.	% Potential	Result (to tenths) of subtracting percent damage from hail (item 22) from
23.	Production	100 (to nearest tenth).
	Remaining	100 (to hearest tentil).
24	Base Yield	Parast the approved yield aptry from item 0 (Pass Vield)
24.		Repeat the approved yield entry from item 9 (Base Yield).
25.	Appraisal For	Result (rounded to whole pounds) of multiplying percent potential
	Sample	production remaining (item 23 expressed as a decimal), by base yield
		(item 24).
26.	Total	Sum of appraisal for sample entries (item 25).
27.	Stage of Plant	Stage of growth at time of damage.
	Growth at Time of	
	Damage	
28.	Total All Samples	Transfer entry from item 26.
29.	No. Samples	Total number of samples.
30.	Per Acre Appraisal	Result of dividing total all samples (item 28) by number of samples (item
	Bu.	29), rounded to whole pounds.
31.	Remarks	Remarks pertinent to the appraisal, sampling, conditions in general (e.g. –
		very hot and dry), etc. Show calculations converting cripples to net
		percent of damage as shown on sample worksheet.
The	following required	entries are not illustrated on the Appraisal Worksheet example below.
32.	Insured's	Insured's (or insured's authorized representative's) signature and date.
	Signature and Date	Before obtaining insured's signature, review all entries on the Appraisal
		Worksheet with the insured, (or insured's authorized representative)
		particularly explaining codes, etc., which may not be readily understood.
33.	Adjuster's	Signature of adjuster, code number, and date signed after the insured (or
55.	Signature, Code	insured's authorized representative) has signed. If the appraisal is
	-	1 , 0 11
	No. and Date	performed prior to signature date, document the date of appraisal in the
		Remarks/Narrative section of the Appraisal Worksheet (if available);
	D 11 1	otherwise, document the appraisal date in the Narrative of the PW.
	Page Number	Page numbers - (Example: Page 1 of 1, Page 1 of 2, Page 2 of 2, etc.).

Form Standards – Appraisal Worksheet for Hail Damage (Continued)

					mpany		ny Com	pany	,		Clai	lm No	.: X	XXXXX	XX	
(FOR IL)	LUSTRATI	ON PURP	OSES ONLY)	1. INSU	JRED'S N	AME		2. POI	LICY NO.		3. U	NIT NUM	BER	4. CROP		
	HAIL	DAMAG	E			INSURE			XXXX			0001-000	POPCORN			
APPRAISAL WORKSHEET (Corn and Grain Sorghum)				5. CRO	P YEAR	6. FSA	FARM NO	7. FIEI	7. FIELD NO.		TIMATE	NO. OF L	EAVES	9. BASE YIELD		
(Co	rn and G	Frain Soi	rghum)	Y	YYYY 106				А				20	00		
COMPU	TATION	s			1				1			1	1	1	1	
SAMPLE NO.	NORMAL NO. OF PLANTS 1/100 ACRE	NO. PLNTS TOTALLY DESTROYED 1/100 ACRE	REMAINING STAND NO. PLANTS	% DAMAAGE FROM STAND REDUCTION (CHART)	% CRIPPLE (CORN ONLY)	% EAR DAMAGE (CORN) %HEAD DAMAGE (GRAIN SORGHUM)	TOTAL DIRECT DAMAGE (14 + 15 + 16)	POTENTIAL REMAINING (100-17)	% LEAF AREA DESTROYED	% DAMAGE FOR LEAF DESTRUCTION (CHART)	NET INDIRECT DAMAGE (18 X 20)	% DAMAGE FROM HAIL (17+21)	% POTENTIAL PRODUCTION REMAINING (100 – 22)	BASE YIELD	APPRAILSAL FOR SAMPLE (23 X 24)	
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
1	240	201	39	63	6.2		69.2	30.8	45	1.0	0.3	69.5	30.5	2000	610	
2	230	189	41	61	7.8		68.8	31.2	40	1.0	0.3	69.1	30.9	2000	618	
3	240	198	42	61	7.3		68.3	31.7	40	1.0	0.3	68.6	31.4	2000	628	
4	240	216	24	73	1.8		74.8	25.2	45	1.0	0.3	75.1	24.9	2000	498	
5	240	205	35	65	5.9		70.9	29.1	45	1.0	0.3	71.2	28.8	2000	576	
6																
7																
8																
9																
			II				II					26	. TOTAL	. 29	30	
27. STAG	E OF PLAN	T GROWTI	H AT TIME O	F DAMA	GE	28. TOTA	L ALL SAM	PLES	29. NO. 5	SAMPLES		30. PER	ACRE AP	PRAISAL		
		7 TH	leaf				2930		÷	5		=	586			
31. RE	MARKS															
Net perc	cent cripp	ole damag	-			Der		Ŧ	D		N-4 P					
Sample Percent Damage						Perce Dama			Percent emaining		Net Per cripple					
Number		oples		Factor			cripples		plants		damag					
1	2			.67	=	16.8			37	=	6.2					
2 3	3			.67 .67	=	20.1 18.8			39 39	=	7.8 7.3					
4		o x 0 x		.67	=	6.7			39 27	=	1.8					
5		5 x		.67	=	16.8			35	=	5.9					

This form example does not illustrate all required entry items (e.g., signatures, dates, etc.).

Form Standards – Appraisal Worksheet for Maturity Line Weight

Verify and/or make the following entries for each appraisal worksheet element/item number. A completed appraisal worksheet example is at the end of this exhibit. For general form standards and other general information, see subparagraph 2D and paragraph 37. Complete heading items 1 through 7, and Part II items 20 through 32.

	Element/Item	Standard
	Number	
	Company	The AIP's name if not preprinted on the worksheet (Company Name).
	Claim Number	Claim number as assigned by the AIP.
1.	Insured's Name	Name of the insured that identifies exactly the person (legal entity) to
		whom the policy is issued.
2.	Policy No.	Insured's assigned policy number.
3.	Unit No.	Unit number from the Summary of Coverage after it is verified to be
		correct.
4.	Crop	"Popcorn."
5.	Crop Year	Four-digit crop year as defined in the policy for which the claim has been
		filed
6.	FSA Farm No.	FSA farm number.
7.	Circle Appraisal	Circle "PEC" for ear popcorn.
	Code	
8. –		Make no entry.
	RT II – MATURITY ure and moisture drop	LINE WEIGHT METHOD (from milk stage until kernels are fully s below 40).
20.	Field ID	Field or subfield identification symbol.
22.	Stage	Make no entry.
23.	Fraction of Acre	Use "1/100," if potential appears to be 500 pounds per acre or less, or "1/1000," if potential appears to be in excess of 500 pounds per acre.
24.	Weight by Stage	Pound weight, to tenths, for each sample by stage of maturity. Determine weights by:
		(1) Picking and husking all harvestable ears from the sample.
		(2) Discarding portions of ears having no kernels.
		(3) Determining maturity line of each ear in order to determine its
		stage.
		(4) Sorting ears by stage and weighing all ears in stage (pounds to
		tenths).

Form Standards – Appraisal Worksheet for Maturity Line Weight (Continued)

1		
25.	Total Weight All	Total of sample weights from all sample plots for that stage (to tenths).
	Sample Plots	
26.	Yield Factor	Use appropriate factor for fraction of an acre used.
27.	Appraisal Per	Result of multiplying Total Weight All Sample Plots (item 25) by
	Stage	appropriate yield factor (item 26), rounded to whole pounds.
		For appraisal modifications for early freeze damage, multiply the result of
		appraisal per stage by the appropriate freeze damage appraisal adjustment,
		to whole pounds and make a notation of adjustment in the remarks section
		of the appraisal worksheet. Refer to subparagraph 36 (6).
28.	Total Appr. All Stages	Sum of entries in item 27 (Appraisal Per Stage), in whole pounds.
29.	Total No. Rep. Sample Plots	Number of sample plots.
30.	Acre Appraisal	Result of dividing the total appraisal for all stages (item 28) by the total
		number of representative sample plots (item 29), rounded to whole
		pounds.
	Remarks	Remarks pertinent to the appraisal, sampling, conditions in general (e.g. –
		very hot and dry), etc.
	The following requ	ired entries are not illustrated on the Appraisal Worksheet example
	below.	
31.	Insured's	Insured's (or insured's authorized representative's) signature and date.
	Signature, and	Before obtaining the insured's signature, review all entries on the
	Date	Appraisal Worksheet with the insured (or insured's authorized
		representative's), particularly explaining codes, etc., which may not be
		readily understood.
32.	Adjuster's	Signature of adjuster, code number, and date signed after the insured (or
	Signature, Code	insured's authorized representative) has signed. If the appraisal is
	No., and Date	performed prior to signature date, document the date of appraisal in the
		Remarks section of the Appraisal Worksheet (if available); otherwise,
		document the appraisal date in the Narrative of the PW.
	Page Number	Page numbers – (Example: Page 1 of 1, Page 1 of 2, etc.).

Form Standards – Appraisal Worksheet for Maturity Line Weight (Continued)

COMPANY Any Company CLAIM NUMB xxxxx 4. CROP 5. CROP YR			xx	I. M.	sured's Insure							UNIT NO. 0002-0002	2BU			and enter GRAIN SO EAR CORN				
4. CROP POPCORN		YYY	YYYY 100				POPCORN 100 if sample size selected was 1/100 acre 1000 if sample size selected was 1/1000 acre 50rn, grain sorghum) – GRAIN SORGI				YIELD FAC CORN 1.43 if sample size selected w 14.3 if sample size selected w		RN ed was 1/100 acre 1.34 if sample ed was 1/1000 acre.3 13.4 if sample		GRAIN SORGHUM le size selected was 1/100 acre e size selected was 1/1000 acre		POPCORN – (PEC) CORN SILAGE – CS GRAIN SORGHUM, SILAGE – GSS			
PARTI-	MATURE		- POPCOR	IN – HYB	RID SEEI	D (corn, g	rain sorgh	ium) – GF	RAIN SOR	GHUM AN	D SILAGE	WEIGHT METHO	D							
FIELD ID 8	ACRES IN FIELD 9	KIND OF APPR 10.	FRACTIO OF ACRE 11	N			EACH BL MPLE PLC 12			ALI	L WEIGHT L SAMPLE PLOTS 13	NO. OF SAMPLE PLOTS 14	WEIGHT	AVG. SAMPLE WEIGHT PER FIELD F		PER ACRE YIELD (CIRCLE ONE) 17	FOR MATURE CORN POPCORN AND GRAIN SORGHUM			
										=		÷ =	=	x	=	BUSHELS TONS POUNDS	PERCEN 18. MOISTURE	T/FACTOR 19. SHELLING		
										=		÷ =	=	x	=	BUSHELS TONS POLINDS	PERCEN 18. MOISTURE -	T/FACTOR 19. SHELLING		
										=	<u> </u>	÷ =	=	x	=	BUSHELS	PERCEN 18. MOISTURE	T/FACTOR 19. SHELLING		
											om milk sta	ge until kernels are				elow 40%)				
FIELD ID	STAGE	FRAC- TION OI ACRE	F	R	ecord in E	ach Block	the Pounds 1 24	per Sample	Plot to Ter	nths	1	TOTAL WEIG SAMPL PLOTS	E	YIE	LD FACTOR 26	APPRAISAL PER STAGE		REPRESENTATIVE SAMPLES (Popcorn)		
20	22	23	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	Plot 6	Plot 7	Plot 8	Plot 9	25		Corn	Popcorn	27	 1/100 acre if potential appears to b 500 lbs/acre or less. 			
С	1⁄4	1/100	6.1	3.3	3.3	0.0	0.0					= 12.7	x	.7092		= 508		potential appears to		
Acreage in		1/100	7.1	6.5	4.4	5.2	6.3					29.5		.7463		- <u> </u>	REPRESENTATIVE SAMPLES			
Field to tenths	1/2	1/1000	,	0.5		5.2	0.5					=	x	7.463	<u> </u>	= 1239	(Corn, Grain Sorghum)			
21		1/1000	6.9	4.1	3.2	0.0	0.0					14.2		.8000	-		20 bushels/acre			
20.0	3⁄4	1/1000	0.9	7.1	5.2	0.0	0.0					=	x	8.0000		= 639		ootential appears to 20 bushels/acre.		
		1/100	3.5	0.0	0.0	0.0	0.0					3.5		.8475			-			
	Doughy	1/1000		0.0	0.0	0.0	0.0	_	_			Ţ	x	8.475		= 165				
		1/100	1									+		1.063		+				
	Extended	1/1000										=	x	10.638	0 590.0	=	TOTAL NO. REP. SAMPLE PLOTS 29	ACRE APPRAISAL 30		
REMARKS		es show	n above	e are fo	or illus	stration	n purpo	oses on	ly. No	ormally	, popco	orn is in only	y two st	ages.		28 TOTAL APPR. ALL STAGES 2551	÷ 5	= 510		

This form example does not illustrate all required entry items (e.g., signatures, dates, etc.).

Form Standards – Appraisal Worksheet for Weight

Verify and/or make the following entries for each appraisal worksheet element/item number. A completed appraisal worksheet example is at the end of this exhibit. For general form standards and other general information, see subparagraph 2D and paragraph 37. Complete heading, items 1 through 7, Part I items 8 through 19, and Part II items 31 and 32.

	Element/Item	Standard
	Number	
	Company	The AIP's name if not preprinted on the worksheet (Company Name).
	Claim Number	Claim number as assigned by the AIP.
1.	Insured's Name	Name of the insured that identifies exactly the person (legal entity) to
		whom the policy is issued.
2.	Policy No.	Insured's assigned policy number.
3.	Unit No.	Unit number from the Summary of Coverage after it is verified to be
		correct.
4.	Crop	"Popcorn."
5.	Crop Year	Four-digit crop year as defined in the policy for which the claim has been
		filed.
6.	FSA Farm No.	FSA farm number.
7.	Circle Appraisal	Circle "PEC" for ear popcorn.
	Code	
		Part I – Weight Method
-	this method for when	kernels are fully mature and moisture drops below 40 percent.
8.	Field ID	Field or subfield identification symbol.
9.	Acres in Field	Number of determined acres, to tenths, in field or subfield being
		appraised
10.	Kind of Appr.	Enter "PEC."
11.	Fraction of Acre	Enter "1/100," if potential appears to be 500 pounds per acre or less.
		Enter "1/1000," if potential appears to be in excess of 500 pounds per
		acre.
12.	Weight per Sample	Weight for each sample (pounds, to tenths).
13.	Total Weight All	Sum of entries in item 12 (pounds, to tenths).
	Sample Plots	
14.	No. of Sample	Number of sample plots.
	Plots	
15.	Avg. Sample	Result, rounded to tenths, of dividing total weight of all samples (item 13)
	Weight per Field	by the number of sample plots (item 14).
16.	Yield Factor	If entry in item 11 is 1/100, enter "100." If entry in item 11 is 1/1000,
		enter "1000."
17.	Per Acre Yield	Result, to whole pounds, of multiplying average sample weight per
		field (item 15) by the yield factor (item 16). Circle "pounds".
18.	Moisture	Record moisture percentage, if in excess of 15.0 (through 40) percent,
		rounded to tenths.

Form Standards – Appraisal Worksheet for Weight (Continued)

19.	Shelling	Shelling percentage factor (to whole percent).								
		To determine shelling percentage for ear popcorn:								
		a. Husk 5 lbs. of ear popcorn.								
		b. Shell all ears and weigh grain.								
		c. Apply weight to exhibit 14, column (3) to get shelling percent.								
		d. Enter shelling percent to whole percent.								
	Remarks	Remarks pertinent to the appraisal, sampling, conditions in general (e.g. –								
		very hot and dry), etc.								
	The following required entries are not illustrated on the Appraisal Worksheet example									
	below.									
31.	Insured's	Insured's (or insured's authorized representative's) signature and date.								
	Signature, and	Before obtaining the insured's signature, review all entries on the								
	Date	Appraisal Worksheet with the insured (or insured's authorized								
		representative), particularly explaining codes, etc., which may not be readily understood.								
32.	A division's									
52.	Adjuster's	Signature of adjuster, code number, and date signed after the insured (or								
	Signature, Code	insured's authorized representative) has signed. If the appraisal is								
	No., and Date	performed prior to signature date, document the date of appraisal in the								
		Remarks section of the Appraisal Worksheet (if available); otherwise,								
		document the appraisal date in the Narrative of the PW.								
	Page Number	Page numbers – (Example: Page 1 of 1, Page 1 of 2, etc.).								

(FOR I	LLUSTRA	TION PU	RPOSES					METHO	DD APF	PRAISAL	4										
COMPANY	ť.	CLAIM NU XXXX		1. It I. M. Ins	NSURED ured	'S NAM	1E		. POLICY			3.	UNIT NO. 0001-000)1BU			and e	7. CIRCLE APPRAISAL CODE and enter in Col. 10 Part 1 GRAIN SORGHUM – GS			
Any Com	pany																EAR	CORN – E	EC		
4. CROP. 5. CROP YR. POPCORN YYYY				6. FSA FARM NO. 106 POPCORN 100 if sample size selected was 1/100 acre							YIELD FACTOR CORN 1.43 if sample size selected was 1/100 acre 1.34 if samp				ample size sel				N – (PEC) LAGE – CS DRGHUM, SILAGE – GSS		
						1000 D (corn	0 if samp	le size selec	$\frac{1}{n} - GP$	1000 acre	14.3 if sar	nple size select	ted was 1/1000 acre.3	13.4 if sa	mple size sele	cted was 1/100) acre				
FARTI-T	MATURE		-FOFCOR		ND SEE		i, grain	sorgnun	ii) – GR	AIN SON		J SILAGE									
FIELD ID	ACRES IN FIELD	KIND OF APPR	FRACTIO OF ACRE	N			SAMP	CH BLOC		THS	ALL	WEIGHT SAMPLE PLOTS	NO. OF SAMPLE PLOTS	AVG. SA WEIGH FIE	T PER LD	YIELD FACTOR	PER ACRE YI (CIRCLE ON		FOR MATU POPCOR	RN AND	
8	9	10.	11]	12				13	14	1:	5	16	17		GRAIN SORGHUM		
В	10.0	PEC	1/100	4.3	6.	2	5.1	3.9	5.0		=	24.5	÷ 5	 = 4.	9 x	100	= BUSHELS 490 TONS (POUNDS)		PERCENT/ 18. MOISTURE 20.5		
											=		÷	=	x		BUSHELS		PERCENT 18. MOISTURE		
											1		I	1	1		TONS				
	•											corn until k	ernels are fully ma		isture drops	below 40%)					
FIELD ID	STACE	23	3	Record in Each Block the Pounds per Sample Plot to 24							ths TOTAL WEIGHT ALL SAMPLE PLOTS				YI	ELD FACTOR 26	APPRAISA PER STAC	L	REPRESENTATIVE SAMPLES (Popcorn)		
20	STAGE 22		Plot 1	Plot 2	Plot 3	Plot 4	Pl	ot 5 P	Plot 6	Plot 7	Plot 8	Plot 9	25	5	Corr	1		1.	1/100 acre if potential appears to 500 lbs/acre or less.		
	1/4	1/100											=	:	x	_	=	2.	1/1000 acre if pote in excess of 500 lb	ential appears to be	
A anagaga in															<u> </u>						
Acreage in Field to tenths	1/2	1/100											=		.746		=			REPRESENTATIVE SAMPLES (Corn, Grain Sorghum)	
21		1/1000													.800			1.	1/100 acre if poter 20 bushels/acre or		
	3⁄4	1/1000											=		x 8.000		=	2.	 1/1000 acre if potential appear in excess of 20 bushels/acre. 		
		1/100											1		.847	5 47.0	İ		in excess of 20 bus	511C15/ dC1C.	
	Doughy	1/1000										+	 ₸		x	60 470.0	=				
		1/100											1		1.063	8 59.0					
	Extended	1/1000											=		x 10.63	80 590.0	=		TOTAL NO. REP. SAMPLE PLOTS 29	ACRE APPRAISAL 30	
REMARKS	S:	1	1	1			I			I.	l	l	1		1		28 TOTAL APPR. ALL STAGES	+			

This form example does not illustrate all required entry items (e.g., signatures, dates, etc.).

Form Standards - Production Worksheet

Verify and/or make the following entries for each **PW** element/item number. A completed **PW** example is at the end of this exhibit. For general form standards and other general information, see subparagraph 2D and paragraph 51.

	Element/Item	Description
	Number	
1.	Crop/Code #	"Popcorn" (0043).
2.	Unit #	Unit number from the Summary of Coverage after it is verified to be correct.
3.	Location Description	Land location that identifies the legal description, if available, and the location of the unit (e.g., section, township, and range; FSA Farm Numbers; FSA Common Land Units (CLU) and tract numbers; GPS identifications; or Grid identifications) as applicable for the crop.
4.	Date(s) of Damage	First three letters of the month(s) during which the determined insured damage occurred for the inspection and cause(s) of loss listed in item 5 below. If no entry in item 5 below make no entry. For progressive damage, enter the month that identifies when the majority of the insured damage occurred. Include the specific date where applicable as in the case of hail damage (e.g., Aug 11). Enter additional dates of damage in the extra spaces, as needed. If more space is needed, document the additional dates of damage in the Narrative (or on a Special Report). Refer to the illustration in item 6 below. If there is no insurable COL, and a no indemnity due claim will be completed, make no entry.
5.	Cause(s) of Damage	 Name of the determined insured cause(s) of damage for this crop as listed in the LAM for the date(s) of damage listed in item 4 above. If an insured cause(s) of damage is coded as "Other," explain in the Narrative. Enter additional causes of damage in the extra spaces, as needed. If more space is needed, document the additional determined insured causes of damage in the Narrative (or on a Special Report). Refer to the illustration in item 6 below. If it is evident that no indemnity is due, enter "no indemnity due" across the columns in Item 5 (refer to the LAM for more information on no indemnity due claims).

Elen	nent/Item Number	Description									
6.	Insured Cause %	Preliminary: Make no entry.									
		 damage listed in item 5 abo extra spaces, as needed. If a additional determined "Insu Special Report). The total of entered in the Narrative mu If there is no insurable COL completed, make no entry. Example entries for items 4 	 Replant and Final: Whole percent of damage for the insured cause of damage listed in item 5 above. Enter additional "Insured Cause %" in the extra spaces, as needed. If additional space is needed, enter the additional determined "Insured Cause %" in the Narrative (or on a Special Report). The total of all "Insured Cause %" including those entered in the Narrative must equal 100%. If there is no insurable COL, and a no indemnity due claim will be completed, make no entry. Example entries for items 4-6 and the Narrative, reflecting entries for 								
		multiple dates of damage, the corresponding insured causes of damage and insured cause percent:									
		4. Date(s) of Damage	MAY	JUN 30	AUG						
		5. Cause(s) of Damage	Excess Moisture	Hail	Drought						
		6. Insured Cause %	40	20	30						
		Narrative: Additional date Freeze; Insured cause perce	0	– SEP 5; C	ause of Damage –						
7.	Company/Agency	Name of company and agen	cy servicing	the contract	et.						
8.	Name of Insured	Name of the insured that id whom the policy is issued.	entifies exac	tly the pers	on (legal entity) to						
9.	Claim #	Claim number as assigned b	by the AIP.								
10.	Policy #	Insured's assigned policy n									
11.	Crop Year	Four-digit crop year, as defi	ined in the po	olicy, for w	hich the claim is filed.						
12.	Additional Units	Preliminary and Replant:	Make no er	ntry.							
		 Final: Unit number(s) for all non-loss units for the crop at the time of final inspection. A non-loss unit is any unit for which a PW has not been completed. Additional non-loss units may be entered on a single PW. If more spaces are needed for non-loss units, enter the unit numbers, identified as "Non-Loss Units," in the Narrative or on an attached 									
		Special Report.									

Elem	ent/Item Number	Description
13.	Est. Prod. Per Acre	Preliminary and Replant: Make no entry.
		Final: Estimated yield per acre, in whole pounds of all non-loss units for the crop at the time of final inspection.
14.	Date(s) Notice of	Preliminary:
	Loss	
		a. Date the first or second notice of damage or loss was given for the unit in item 2, in the 1st or 2nd space, as applicable. Enter the complete date (MM/DD/YYYY) for each notice.
		 A notice of damage or loss for a third preliminary inspection (if needed) requires an additional set of PWs. Enter the date of notice for a third preliminary inspection in the 1st space of item 14 on the second set of PWs.
		c. Reserve the "Final" space on the first page of the first set of PWs for the date of notice for the final inspection.
		d. If the inspection is initiated by the AIP, enter "Company Insp." instead of the date.
		e. If the notice does not require an inspection, document as directed in the Narrative instructions.
		Replant and Final: Transfer the last date (in the 1st or 2nd space from the first or second set of PWs) to the final space on the first page of the first set of PWs if a final inspection should be made as a result of the notice. Always enter the complete date of notice (MM/DD/YYYY) for
		the "FINAL" inspection in the final space on the first set of PWs. For a delayed notice of loss or delayed claim, refer to the LAM.

Elen	Element/Item Number		Description		
15.	Companion Policy(s)	a.	If no other person has a share in the unit (insured has 100 percent share), make no entry.		
		b.	In all cases where the insured has less than a 100 percent share of a loss-affected unit, ask the insured if the other person sharing in the unit has a multiple-peril crop insurance contract (i.e., not crop-hail, fire, etc.). If the other person does not, enter "None."		
			(1) If the other person has a multiple-peril crop insurance contract and it can be determined that the same AIP services it, enter the contract number. Handle these companion policies according to AIP instructions.		
			(2) If the other person has a multiple-peril crop insurance contract and a different AIP or agent services it, enter the name of the AIP and/or agent (and contract number) if known.		
			(3) If unable to verify the existence of a companion contract, enter "Unknown" and contact the AIP for further instructions.		
		c.	Refer to the LAM for further information regarding companion contracts.		

Section I – Determined Acreage Appraised, Production and Adjustments

Make separate line entries for varying:

- (1) Rate classes, types, classes, sub-classes, intended uses, irrigated practices, cropping practices, or organic practices, as applicable;
- (2) APH yields;
- (3) Appraisals;
- (4) Adjustments to appraised mature production (moisture and/or QAFs);
- (5) Stages or intended use(s) of acreage;
- (6) Shares (e.g., 50 percent and 75 percent shares on the same unit); or
- (7) Appraisals for damage due to hail or fire if Hail and Fire Exclusion is in effect.

	Item Number	Description
16. Fie	eld ID	The field or subfield identification symbol from a sketch map or an aerial photo. Refer to the Narrative.
		Where acreage is partly replanted, omit the Field ID symbol for the fields that have not been replanted and that have been consolidated into a single line entry.
17. M	ulti-Crop Code	Replant: Make no entry.
		Preliminary and Final: The applicable two-digit code for first crop and second crop. Refer to the LAM for instructions regarding entry of first crop and second crop codes.
18. Re	ported Acres	In the event of over-reported acres, handle in accordance with the individual AIP's instructions. In the event of under-reported acres, enter the reported acres to tenths for the field or sub field. If there are no under-reported acres make no entry.
19. De	termined Acres	 Refer to the LAM for definition of acceptable determined acres used herein. Enter the determined acres to tenths for the field or subfield for which consent is given for other use and/or: a. Put to other use without consent; b. Abandoned; c. Damaged by uninsured causes; or d. For which the insured failed to provide acceptable records of production. Refer to the LAM for procedures regarding when estimated acres are allowed and documentation requirements. Replant: Determine the total acres, to tenths, of replanted acreage for each field or subfield (do not estimate). Make a separate line entry for any part of a field or subfield not replanted. a. Determine the planted acreage of any fields or subfield not replanted. Consolidate it into a single line entry unless the usual reasons for separate line entries apply. Record the field or subfield identities (from a map or aerial photo) in the Narrative. b. Account for all planted acreage in the unit.
		Preliminary and Final: Determined acres to tenths.

Element/Item Number		Description		
19.	Determined Acres	Acreage breakdowns within a unit or field may be estimated (refer to the		
	(Continued)	LAM) if a determination is impractical.		
		Account for all planted acreage in the unit.		
20.	Interest or Share	Insured's interest in the crop to three decimal places as determined at the time of inspection. If shares vary on the same unit, use separate line entries.		
21.	Risk	Three-digit code for the correct "Rate" as specified on the actuarial document maps. If a "Rate" or "High-Risk Area" is not specified on the actuarial document maps, make no entry. Verify with the Summary of Coverage and if the "Rate" is found to be incorrect, revise according to the AIP's instructions. Refer to the LAM.		
		Unrated land is uninsurable without a WA.		
22.	Туре	Three-digit code number entered exactly as specified on the actuarial documents for the type grown by the insured. If "No Type Specified" is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If a type is not specified on the actuarial documents, make no entry.		
23.	Class	Three-digit code number, entered exactly as specified on the actuarial documents for the class grown by the insured. If "No Class Specified" is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If a class is not specified on the actuarial documents, make no entry.		
24.	Sub-Class	Three-digit code number, entered exactly as specified on the actuarial documents for the sub-class grown by the insured. If "No Sub-Class Specified," is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If a sub-class is not specified on the actuarial documents, make no entry.		
25.	Intended Use	Three-digit code number, entered exactly as specified on the actuarial documents for the intended use of the crop grown by the insured. If "No Intended Use Specified" is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If an intended use is not specified on the actuarial documents, make no entry.		

Elem	ent/Item Number	Description		
26.	Irr. Practice	Three-digit code number, entered exactly as specified on the actuarial documents for the irrigated practice carried out by the insured. If "No Irrigated Practice Specified" is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If an irrigated practice is not specified on the actuarial documents, make no entry.		
27.	Cropping Practice	Three-digit code number, entered exactly as specified on the actuarial documents for the cropping practice (or practice) carried out by the insured. If "No Cropping Practice" or "No Practice Specified" is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If a cropping practice is not specified on the actuarial documents, make no entry.		
28.	Organic Practice	Three-digit code number, entered exactly as specified on the actuarial documents for the organic practice carried out by the insured. If "No Organic Practice Specified" is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If an organic practice is not specified on the actuarial documents, make no entry.		
29.	Stage	Preliminary: Make no entry. Replant: Replant stage abbreviation as shown below. <u>STAGE</u> <u>EXPLANATION</u> "R" Acreage replanted and qualifying for replanting payment. "NR" Acreage not replanted. *** "RN" Acreage replanted and not qualified for a replanting payment. Final: Stage abbreviation as shown below.		

Elem	ent/Item Number		Description
29.	Stage (Continued)	STAGE	EXPLANATION
		···P"	Acreage abandoned without
			consent, put to other use
			without consent, damaged
			solely by uninsured causes, or
			for which the insured failed to
			provide acceptable records of
			production to the AIP.
		"Н"	Harvested.
		"UH"	Unharvested or put to other use
			with consent.
		"TZ"	<mark>UUF/Third Party Damage –</mark>
			Zero production on same
			acreage.
		"TA"	UUF/Third Party Damage –
			Appraised production on same
			acreage.
		"TH"	UUF/Third Party Damage –
			Harvested production on same
			acreage.
		D revented D lanting, Defer t	o the DDCU for proper order for any
		eligible prevented planting ac	o the PPSH for proper codes for any
		engible prevented planting ac	leage.
		Gleaned Acreage: Refer to t	he LAM for information on gleaning.
30.	Use of Acreage		ring "Intended Use" abbreviations.
50.	ese of nereuge		ing intended obe deere hadons.
		USE	EXPLANATION
		"Replant"	Acreage replanted ***
		"Not Replanted"	Acreage not replanted ***
		"To Millet"	Use made of the acreage
		"WOC"	Other use without consent
		"SU"	Solely uninsured
		"ABA"	Abandoned without consent
		"H"	Harvested
		"UH"	Unharvested
			the PPSH for proper codes for any eligible
		prevented planting acreage.	
		Gleaned Acreage: Refer to th	e LAM for information on gleaning.
L			Le Li mi in mormanon on gioannig.

Eleme	nt/Item Number	Description	
31.	Appraised	Replant: Enter the pounds per acre allowed for replanting as	
	Potential	determined from the replant calculation documented in the Narrative.	
		(Refer to Part 3, for qualifications and computations.)	
		Preliminary: Per-acre appraisal in whole pounds of potential	
		production for the acreage appraised as shown on the appraisal	
		worksheet. Refer to Part 4, "Appraisals" for additional instructions. If	
		there is no potential on UH acreage, enter "0." Refer to LAM for	
		procedures for documenting zero yield appraisals.	
32a.	Moisture %	Replant: Make no entry.	
		Preliminary and Final: Moisture percent (if in excess of 15.0 percent)	
		to nearest tenth. Moisture adjustment is applied prior to applying any	
		qualifying adjustment for quality.	
32b.	Factor	Replant: Make no entry.	
520.	1 detor	Replance make no entry.	
		Preliminary and Final: Moisture factor – For appraised mature grain	
		production in excess of 15.0 percent, obtain factor from exhibit 15.	
33.	Shell %, Factor, or	Replant: Make no entry.	
	Value		
		Preliminary and Final: If a Weight Method appraisal is made, enter	
		the shelling percentage factor rounded to a two-place decimal (Refer to	
		exhibit 14). Popcorn production is measured in pounds, therefore, the	
		0.4 volume to bushel factor is not used when using the Weight Method	
		appraisal. It will be necessary to multiply the gross pounds (ear popcorn	
		pounds) by the actual shelling percentage as specified in (exhibit 14,	
		column (4)).	
34.	Production Pre	Replant: Enter the result of multiplying column 31 times column 19	
	QA	rounded to whole pounds. If no entry in column 31, make no entry.	
		Preliminary and Final: Result of multiplying column 31 times column	
		19, times column 32b, times column 33, if applicable, rounded to whole	
		pounds. If no entry in column 31, make no entry.	
1			

Element/Item Number		Description		
35.	Quality Factor	Replant: Make no entry.		
		Preliminary and Final: For Weight Method appraisals of mature popcorn, which due to insurable causes, is not of merchantable popcorn quality and is rejected by the processor, divide the value per pound of the damaged popcorn by the base contract price per pound for undamaged popcorn. Enter the factor to three decimal places.		
36.	Production Post QA	Replant: Transfer the entry in item 34.		
		Preliminary and Final: Result of multiplying column 34 times column 35, rounded to whole pounds. If no entry in column 35, transfer entry from column 34.		
37.	Uninsured Cause	Replant: Make no entry.		
		Preliminary and Final: Result of per acre appraisal for uninsured causes (taken from appraisal worksheet or other documentation) multiplied by column 19, rounded to whole pounds. Refer to the LAM for information on how to determine uninsured cause appraisals. If no uninsured causes, make no entry.		
		a. Hail and Fire Exclusion not in effect.		
		 (1) Enter the result of multiplying column 19 entry by not less than the insured's production guarantee per acre in whole pounds for the line, (calculated by multiplying the elected coverage level percentage times the approved APH yield per acre shown on the APH form), for any "P" stage acreage. 		
		(2) On preliminary inspections, advise the insured to keep the harvested production from any acreage damaged solely by uninsured causes separate from other production. Refer to the LAM for information on how to determine uninsured cause appraisals.		

Element/Item Number		Description
37.	Uninsured Cause (Continued)	 (3) For acreage that is damaged partly by uninsured causes, enter the result of multiplying the appraised uninsured loss of production per acre in whole pounds, by column 19 entry for any such acreage.
		b. When there is late-planted acreage, the applicable production guarantee for such acreage is the production guarantee per-acre that has been reduced for late-planted acreage, multiplied by column 19 entry.
		c. Refer to the LAM when a Hail and Fire Exclusion is in effect and damage is from hail or fire.
		d. Enter the result of adding uninsured cause appraisals to hail and fire exclusion appraisals.
		e. For fire losses, if the insured also has other fire insurance (double coverage), refer to the LAM.
38.	Total to Count	Result of adding item 36 and item 37.
39.	Total	Preliminary: Make no entry.
57.	Total	Tremmary. Make no endy.
		Replant and Final: Total determined acres (column 19), to tenths.
40.	Quality	Replant: Make no entry.
	-	Preliminary and Final: Check the applicable qualifying QA condition(s) affecting the unit's production (refer to table below). Check all qualifying conditions that apply to the unit's appraised and harvested production (refer to the CP and SP).
		Qualifying QA Condition:
		Test Weight (TW)
		Kernel Damage (KD) and Total Defects
		Garlicky (Grade)
		Aflatoxin
		Vomitoxin
		Vomitoxin Fumonisin
		Fumonisin
		Fumonisin Dark Roast (for Sunflowers only)
		Fumonisin Dark Roast (for Sunflowers only) Sclerotinia (for Sunflowers only)
		Fumonisin Dark Roast (for Sunflowers only) Sclerotinia (for Sunflowers only) Ergoty (Grade)
		Fumonisin Dark Roast (for Sunflowers only) Sclerotinia (for Sunflowers only) Ergoty (Grade) COFO (commercially objectionable foreign odor) (includes Musty and Sour

Element/Item Number		Description
40. Quality (Continued)	a.	For all qualifying QA conditions checked, in the Narrative (or on a Special Report):
		 Document the level for each qualifying QA condition as indicated by approved test results, and the name and location of each testing facility that verifies the presence of the qualifying QA condition and the date of the test(s); or
		(2) Enter "See documentation included in the claim file" (e.g., include copy of the test facility certificate, grade certificate, summary or settlement sheet, etc., that documents the QA condition).
	b.	If "Other" is checked, in addition to the above documentation requirements, document in the Narrative (or on a Special Report):
		(1) A description of the qualifying QA condition;
		(2) The name of the controlling authority that considers this qualifying QA condition to be injurious to human or animal health and why.
	c.	Check "None" if none of the production qualifies for QA.

Elem	ent/Item Number	Description	
41.	Mycotoxins exceed FDA, State, or other health organization maximum limits. Check "Yes:"	 Replant: Make no entry. Preliminary and Final: Check "Yes" if any mycotoxins listed in item 40 (including any identified as "Other") exceed the FDA, state, or other health organization maximum limits, otherwise leave blank. Document in the Narrative (or on a Special Report), the disposition of the production that was: a. Sold, document the name and address of the buyer; or b. Not sold, document the date(s) of the disposition, how the production was used, or how it was destroyed. Refer to the LAM and the SP for additional information on mycotoxins. 	
42.	Totals	Total of entries in columns 34, 36, 37 and 38. If a column has no entries, make no entry.	

Narrative Instructions

If more space is needed, document on a Special Report, and enter "See Special Report." Attach the Special Report to the PW.

a.	If no acreage is released on the unit, enter "No acreage released," adjuster's initials, and date.
b.	If notice of damage was given and no inspection is necessary, enter "No Inspection," the unit number(s), date, and adjuster's initials (do not enter unit numbers for which notice has not been given). The insured's signature is not required.
с.	Explain any uninsured causes, unusual, or controversial cases.
d.	If there is an appraisal in Section I, column 37 for uninsured causes due to a hail/fire exclusion, show the original hail/fire liability per acre and the hail/fire indemnity per acre.

e.	Document the actual appraisal date if an appraisal was performed prior to the adjuster's signature date on the appraisal worksheet, and the date of the appraisal is not recorded on the appraisal worksheet.
f.	State that there is "No other fire insurance" when fire damages or destroys the insured crop and it is determined that the insured has no other fire insurance. Also refer to the LAM.
g.	Explain any errors found on the Summary of Coverage.
h.	Explain any commingled production. Refer to the LAM.
i.	Explain any entry for "Production Not to Count" in Section II, column 62 and/or any production not included in Section II, column 56 or column 49 - 52 entries (e.g., harvested production from uninsured acreage that can be identified separately from the insured acreage in the unit).
j.	Explain a "No" checked in item 44.
k.	Attach a sketch map or aerial photo to identify the total unit:
	 If consent is or has been given to put part of the unit to another use or to replant; If acreage has been replanted to a practice uninsurable as an original practice; If uninsured causes are present; or For unusual or controversial cases.
	Indicate on the aerial photo or sketch map, the disposition of acreage destroyed or put to other use with or without consent.
1.	Explain any difference between date of inspection and signature dates. For an absentee insured, enter the date of the inspection and the date of mailing the PW for signature.
m.	When any other adjuster or supervisor accompanied the adjuster on the inspection, enter the code number of the other adjuster or supervisor and the date of inspection.
n.	Explain the reason for a "No Indemnity Due" claim. "No Indemnity Due" claims are to be distributed in accordance with the AIP's instructions.
0.	Explain any delayed notices or delayed claims as instructed in the LAM.
р.	Document any authorized estimated acres, as instructed in the LAM, shown in Section I, column 19.
q.	Document the method and calculation used to determine acres for the unit. Refer to the LAM.
r.	Specify the type of insects or disease when the insured cause of damage or loss is listed as insects or disease. List the control measures used and explain why they did not work.
s.	Document the appraisal (plus appraisal for uninsured causes of loss, if applicable) for replanted acreage, and the calculations to show that the qualification for a replanting payment have been met. Refer to Part 3, paragraph 22.

t.	If any acreage to be replanted in the unit does not qualify for a replanting payment, enter Field
	No., "NOT QUAL FOR RP PAYMENT," date of inspection, adjuster's initials, and reason not
	qualified.
u.	For replant claims, indicate if the pounds allowed for replanting have/have not been reduced for
	share on the PW according to individual AIP guidelines.
v.	For production that qualifies for QA (supporting documentation should be included in the
	insured's claim file):
	(1) Explain any ".000" QA factor entered in Section I, column 35 and Section II, column 65.
	(2) Explain any deficiencies, substances, or conditions that are allowed for QA, as well as any
	which were not allowed.
	(3) If mycotoxins are present, document the level based on laboratory test results.
	(4) If a Federal or State destruction order has been issued, attach to the PW a copy of the
	Federal or State destruction order and the insured's completed Certification Form.
	(5) Document the DFs or the RIVs and Local Market Price, as applicable, used in establishing
	the QA factor for mature appraised or harvested production.
	(6) Refer to the LAM for documentation requirements when any excess transportation costs or
	conditioning costs are included in the QA factor.
	(7) Document all calculations used in determining QA factors.
	(8) Refer to the LAM for additional documentation requirements.
w.	Document field IDs, date, and method of destruction of mycotoxin-infested popcorn if it has no
** .	market value. For further documentation instructions, refer to the LAM.
v	
х.	Document the name and address of the charitable organization when gleaned acreage is
	applicable. Refer to the LAM for more information on gleaning.
у.	Document any other pertinent information, including any data to support any factors used to
	calculate the production.

Section II – Determined Harvested Production

- (1) Account for all harvested production (for all entities sharing in the crop) except production appraised before harvest and shown in Section I because the quantity cannot be determined later (e.g., high moisture grain going into air-tight storage, released for other uses, etc.).
- (2) Columns 49 through 52 are for structure measurements entries (Rectangular, Round, Square, Conical Pile, etc.). If structures are a combination of shapes, break into a series of average measurements, if possible. Enter "Odd Shape" if production is stored in an odd-shaped structure. Document measurements on a Special Report or other worksheet used for this purpose.
- (3) If farm-stored production has been weighed prior to storage and acceptable weight tickets are available showing gross weights, enter "Weighed and Stored on Farm" in columns 49 through 52. Refer to the LAM for acceptable weight tickets.
- (4) For production commercially stored, sold, etc., make entries in columns 49 through 52 as follows:
 - (a) Name and address of storage facility or buyer.
 - (b) "Seed," "Fed," etc.
- (5) There will be no "harvested production" entries for replanting payments.
- (6) If acceptable sales or weight tickets are not available, refer to the LAM.
- (7) If additional lines are necessary, the data may be entered on a continuation sheet. Use separate lines for:
 - (a) Separate storage structures.
 - (b) Varying names and addresses of buyers of sold production.
 - (c) Varying determinations of production (varying moisture, foreign material (FM), test weight, value, etc.). Average percent of FM or moisture can be entered when the elevator has calculated the average on the summary sheet, and the determined average is acceptable to the adjuster. Separate line entries are not otherwise required. Refer to the LAM for instructions.

- (d) Varying shares; e.g., 50 percent and 75 percent shares on same unit.
- (e) Production from first (original) or second (substitute) crop acreage when a second crop will be or is planted on the first crop acreage within the same crop year.
- (f) Conical piles. Do not add the cone in the top or bottom of a bin to the height of other grain in the structure. For computing the production in cones and conical piles, refer to the LAM.
- (8) There will generally be no harvested production entries in columns 47 through 66 for preliminary inspections.
- (9) If there is harvested production from more than one insured practice (or type) and a separate approved APH yield has been established for each, the harvested production also must be entered on separate lines in columns 47 through 66 by type or practice. If production has been commingled, refer to the LAM.

Elen	ent/Item Number	Description
43.	Date Harvest	Preliminary: Make no entry.
	Completed: (Used to determine if there is a	Replant and Final:
	delayed notice or a delayed claim. Refer to the LAM.)	 a. The earlier of the date the entire acreage on the unit was (1) harvested, (2) totally destroyed, (3) replanted, (4) put to other use, (5) a combination of harvested, destroyed, or put to other use, or (6) the calendar date for the end of the insurance period.
		b. If at the time of final inspection (if prior to the end of the insurance period), there is any unharvested insured acreage remaining on the unit that the insured does not intend to harvest; enter "Incomplete."
		c. If at the time of final inspection (if prior to the end of the insurance period), none of the insured acreage on the unit has been harvested, and the insured does not intend to harvest such acreage, enter "No Harvest."
		d. If the case involves a Certification Form, enter the date from the Certification Form when the entire unit is put to another use, replanting is complete for the unit, etc. Refer to the LAM.

Eleme	ent/Item Number	Description
44.	Damage similar to other farms in the area?	Preliminary: Make no entry.Replant and Final: Check "Yes" or "No." Check "Yes" if the amount and cause of damage due to insurable causes is similar to the experience of other farms in the area. If "No" is checked, explain in the Narrative.
45.	Assignment of Indemnity	Check "Yes" only if an assignment of indemnity is in effect for the crop year; otherwise, check "No." Refer to the LAM.
46.	Transfer of Right to Indemnity	Check "Yes" only if a transfer of right to indemnity is in effect for the unit for the crop year; otherwise, check "No." Refer to the LAM.
47a.	Share	Record only varying shares on same unit to three decimal places.
47b.	Field ID	a. If only one practice and/or type of harvested production is listed in Section I, make no entry.
		 b. If more than one practice and/or type of harvested production is listed in Section I, and a separate approved APH yield exists, indicate for each practice/type the corresponding Field ID (from Section I, column 16).
48.	Multi-Crop Code	The applicable two-digit code for first crop and second crop. Refer to the LAM for instructions regarding entry of first crop and second crop codes.
49.	Length or Diameter	Internal measurement in feet to tenths of structural space occupied by crop. a. Length if rectangular or square.
		a. Length if rectangular or square.b. Diameter if round or conical pile. Refer to the LAM to convert circumference to diameter if internal diameter measurement is not possible.
50.	Width	Internal width measurement in feet to tenths of space occupied by crop in structure if rectangular or square. If round, enter "RND." If conical pile, enter "Cone."
51.	Depth	Depth measurement in feet to tenths of space occupied by crop in rectangular, round, or square structure. If conical pile, enter the height of the cone. If there is production in the storage structure from other units or sources, refer to the LAM.

Elen	1ent/Item Number	Description									
52.	Deductions	Cubic feet, to tenths, of crop space displaced by chutes, vents, studs,									
		crossties, etc. Refer to the LAM for computation instructions.									
53.	Net Cubic Feet	Net cubic feet of crop in the storage structure. Refer to the LAM for									
		computation instructions.									
54.	Conversion Factor	Enter Conversion Factor as follows:									
		Shelled Popcorn 0.8									
		Ground Shelled Popcorn 0.7									
		Ground Ear Popcorn 0.6*									
		Ear Popcorn 0.4									
		*Unless otherwise directed.									
55.	Gross Prod.	Multiply column 53 times column 54, rounded to tenths of a bushel.									
		The results of the calculation represent the amount of gross bushels in									
		the bin.									
56.	Bu., Ton, Lbs., Cwt.	Circle "Lbs." in column heading. Enter the gross production in whole									
		pounds, before deductions for grain moisture and foreign material for									
		production:									
		a. Weighed and stored on the farm.									
		For farm stored ear popcorn production, calculate the pounds as									
		follows: column 55 (gross production in bushels) times column									
		60a (actual test weight), rounded to the nearest whole pound.									
		For farm stored shelled popcorn production, calculate the pounds									
		as follows: column 55 (gross production in bushels) times 56									
		pounds per bushel (standard test weight), rounded to the nearest									
		whole pound.									
		b. Sold and/or stored in commercial storage - Obtain gross									
		6 6									
		production for the unit from the summary and/or settlement									
		sheets. (Individual load slips only will not suffice unless the storage facility or buyer will not provide summary and/or									
		settlement sheets to the insured, and this is documented in the									
		Narrative.)									
		Narrative.)									
		c. Stored in odd-shaped structures. The adjuster must compute the									
		amount of gross production. (Refer to the LAM for cubic									
		footage and production computations). A copy of all production									
		calculations must be left in the file folder.									
		d. For mycotoxin-infected popcorn, enter all production even if it									
		has no market value.									

Elem	ent/Item Number	Description
57.	Shell/Sugar Factor	Shelling percentage for Ear popcorn production recorded in:
		a. Gross weight from settlement sheets, or other weight records acceptable to the AIP, (column 56), enter shelling percentage from exhibit 14, column (3) as two-place decimal. If shelling percentage is not on the settlement sheets or other weight records, or is otherwise unavailable, enter standard shelling percentage of ".80."
		 b. Standard shelling percent (".80") is included in the bushel factor (0.4) used to convert Ear bushel by volume to pounds of popcorn by multiplying grain bushels by the actual test weight of the grain. Use of the actual-determined shelling percent (as in "a" above) would result in double adjustment in this case ("c" below). The shelling percentage factor, exhibit 14, column (3), corrects the calculated production to reflect the shelling-percent deviation from the standard.
		c. Volume/structure measurements (items B-E), enter the shelling factor from exhibit 14, column (4) as two-place decimal. If not available, enter the standard shelling factor of "1.00."
58a.	FM %	Make entry to nearest tenth. Refer to the LAM for entry instructions.Refer to the LAM for FGIS definitions of "FM".
58b.	Factor	Enter the three-place factor determined by subtracting the percent of FM from 1.000, or subtract the entry in 58a from 100 and divide by 100. Example: For 4 percent, enter ".960."
59a.	Moisture %	Enter moisture percent to tenths. Moisture adjustment is applied prior to applying any qualifying adjustment for quality.
59b.	Factor	If grain moisture is more than 15.0 percent, enter the four-place moisture factor from the popcorn moisture adjustment factors (exhibit 15).
60a.	Test Wt.	Enter test weight (only when storage structure measurements are entered) in whole pounds (or pounds to tenths if so instructed by the AIP). Refer to the LAM for instructions on determining test weight.

Eleme	ent/Item Number	Description
60b.	Factor	For shelled popcorn, use the Combination Test Weight/Pack Factor - enter the factor from the appropriate table (exhibit 16) for the square footage of floor space in the storage structure. Refer to the LAM for instructions on calculating floor space of a structure.
		Combination test weight pack factors are applicable only to shelled popcorn.
		For test weights not shown on the chart, multiply the actual test weight by the last available combination test weight pack factor for the appropriate bin size and divide the result by the last available test weight shown on the chart.
		Popcorn with a test weight of 65 pounds stored in a less than 255 Sq. Ft. bin 65 (actual test weight) x 1.135 (last available factor) \div 64 (last available test weight) = 1.153 factor.
61.	Adjusted Production	The result of multiplying column 56 x 57 x 58b x 59b. (Round to nearest whole pound).
		For farm stored shelled popcorn, the result of multiplying column 56 x 57 x 58b x 59b x 60b. (Round to nearest whole pound).
62.	Prod. Not to Count	Net production not to count, in whole pounds, when acceptable records identifying such production are available, from harvested acreage which has been assessed an appraisal of not less than the guarantee per acre, or from other sources (e.g., other units or uninsured acreage) in the same storage structure (if the storage entries include such production).
		This entry must never exceed production shown on the same line. Explain the total bin contents (bin grain depth, etc.) and any "production not to count" in the Narrative.
		Make no entry if only the depth for PTC has been entered in column "51," and the depth for production not to count has been entered in the Narrative section. Refer to example in the LAM.
63.	Production Pre-QA	Result of subtracting column 62 from column 61.
64a.	Value	Sold or otherwise disposed of - Enter the actual dollar-and-cents value per pound received for the damaged production on the earlier of the day of adjustment or the date such production is sold, taking into account RIVs due to insurable causes (including mycotoxins). Refer to the LAM for further instructions.

Elem	ent/Item Number	Description
64b.	MKT Price	If entry is made in 64a, enter the base contract price per pound, to
		three decimal places.
65.	Quality Factor	For production eligible for QA, enter the 3-digit QAF determined by
		dividing column 64a divided by 64b. Explain in the Narrative. If
		moisture adjustment is applicable, it will be made prior to any
		adjustment for quality. Refer to paragraph 13 and the CP for
		additional information on QA.
66.	Production to Count	Enter result from multiplying column 63 times column 65, rounded to nearest whole pound.
67.	Total of Column 63	Total of column 63. If no entry in column 63, make no entry.
For ite	ems 68 – 72. When separ	ate line entries are made for varying share, stages, APH yields,
	1	, types, etc., within the unit, and totals need to be kept separate for
		to entry and follow the AIP's instructions; otherwise, make the
follow	ving entries.	•
68.	Section II Total:	Preliminary and Replant: Make no entry.
		Final: Total of column 66.
69.	Section I Total	Preliminary and Replant: Make no entry.
		Final: Enter figure from Section I, column 38 total.
70.	Unit Total	Preliminary and Replant: Make no entry.
		Final: Total of column 68 and column 69.
71.	Allocated Prod	Refer to the LAM for instructions for determining allocated
		production. Enter the total production rounded to whole pounds,
		allocated to this unit that is included in Sections I or II of the PW.
		Document how allocated production was determined and record
		supporting calculations in the Narrative or on a Special Report.
72.	Total APH Prod.	Result of subtracting the total of column 37 (item 42 "Totals") and
		item 71 (Allocated Prod.) from item 70 (Unit Total). If no entries in
		item 37 and item 71, transfer the entry in item 70. Make no entry
		when separate APH yields are maintained by type, practice, etc., within the unit.

The f	following required entrie	s are not illustrated on the <mark>PW</mark> example below.
73.	Insured's Signature and Date	Insured's (or insured's authorized representative's) signature and date. Before obtaining the signature, review all entries on the PW with the insured (or insured's authorized representative), particularly explaining codes, etc., that may not be readily understood.
		Final indemnity inspections and final replanting payment inspections should be signed on bottom line.
74.	Adjuster's Signature, Code #, and Date	Signature of adjuster, code number, and date signed after the insured (or insured's authorized representative) has signed. For an absentee insured, enter adjuster's code number only. The signature and date will be entered after the absentee has signed and returned the PW.
		Final indemnity inspections and final replanting payment inspections should be signed on bottom line.
75.	Page	Preliminary: Page numbers – "1," "2," etc., at the time of inspection.
		Replant and Final: Page numbers - (Example: Page 1 of 1, Page 1 of 2, Page 2 of 2, etc.).

									PR	ODUC	TION	WORE	KSHE	ET									
1. C	rop/Cod	e #	2. Unit #	3. L	ocation D	escription	1 7	. Comp	any		ANY	COMPAN	IY		8. Name of Insured								
	POPC	ORN	0001-0001	BU				Agenc	y -	ANY AGENCY					I.M. INSURED								
	00	43			SW1-	96N-3W			-						9. Claim	#			11. Crop Year				
4. D	ate(s) of	Damage	JUL													XXX	XXXXX		уууу				
5. C	ause(s) o	of Damage	DROUGHT	Г						10. Policy #													
6. In	6. Insured Cause %		100												14. Date	14. Date(s) 1st			2nd	F	Final		
12. Additional Units 0002-00			0002-0002	BU											Notice of	Loss	MM/D	D/YYYY			MM/DD	/уууу	
13. I	Est. Prod	. Per Acre	2000												15. Com	panion Pol	icy(s)						
SEC	SECTION I – DETERMINED ACREAGE APPRAISED, PRODUCTION AND ADJUSTMENTS																						
A. ACTUARIAL											B. POTENTIAL YIELD												
16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	32a. 32b.	33.	34.	35.	36.	37.	38.	
Field ID	Multi- Crop Code	Reported Acres	Determined Acres	Interest or Share	Risk	Туре	Class	Sub- Class	Intended Use	Irr Practice	Cropping Practice	Organic Practice	Stage	Use of Acreage	Appraised Potential		Shell %, Factor, or Value		Quality Factor	Production Post QA	Uninsured Causes	Total to Count	
A	NS		80.0	1.000		997					003		UH	PASTUR ED	744			59520		59520		59520	
В	NS		10.0	1.000		997					003		UH	SILAGE	490	20.5 .9340	.80	3661		3661		3661	
с	NS		60.0	1.000		977					003		н	н									
		39. TOTAL	. 150.0	Scler 41. Myc	rotinia □ cotoxins e	exceed FD	□ CoFe OA, State o	o \Box Of or other l	ther D N nealth org	anization 1	naximum	limits. Y	es 🗆	Dark Roas	t 🗆	42.	TOTALS	63181		63181		63181	
NAF	RRATIV	/E (If more	e space is nee	eded, att	ach a Sp	ecial Re	port)	Acres w	vere dete	rmined us	ing perm	anent field	d measu	irements.									

3. Date Harvest Completed 44. Damage similar to other farms in the ar										area?	a? 45. Assignment of Indemnity 46. Transfer of Right to Indemnity?										
		MM/DI	>/УУУУ					Yes	X No				-	Yes	No X		Yes	No X	ζ		
. ME	ASUR	EMEN	TS			B. GROSS PRODUCTION				C. ADJ	USTMEN	TS TO H	ARVESTI	ED PRODU	JCTION						
47a. 47b.	48.	49.	50.	51.	52.	53.	54.	55.	56.	57.	58a. 58b.	59a. 59b.	60a. 60b.	61.	62.	63.	64a. 64b.	65.	66.		
Share	Multi-	Length		Donth	Deduc-	Net Cubic	Conver- sion	Gross	Bu, Ton	Shell/ Sugar	FM%	Moisture %	Test WT	Adjusted	Prod. Not	Production Pre-QA	Value	Quality Fastor	Production to Count		
Field ID	Crop Code	or Diameter	Width	Depth	tion	Feet	Factor	Prod.	CWT	Factor	Factor	Factor	Factor	Production	to Count		Mkt. Price	Quality Factor	to count		
	NS		CME E			10500			10500	.80		15.5		8350		8350			8350		
		ANY	TOWN,	ANY S	STATE							.9940									
	NS	10.0	10.0	9.0		900.0	.4	360.0	23040	1.00		16.0	64	22764		22764	22764		22764		
												.9880									
														-							
															67. TOTAL	31114	68	. Section II Total	31114		

94295

71. Allocated Prod.72. Total APH Prod.

1 Cr	op/Code	• #	2. Unit # 3. Location Description 7. Company ANY COMPANY											8. Name of Insured											
1. 01	POPC		0001-0001B		ation Des	enpuon	l'	Agenc	-			AGENCY				i insurea		тмт	NSURED						
	004		0001 00010		SW1-9	6N-3W		rigene	· _		74147	//02/10/			9. Claim #	ŧ		=.///. =		op Year					
4 Da		Damage	MAY 10		0												xxxxx			1	ууу				
	· · ·	of Damage	FREEZE										10. Policy # XXXXXXXXX												
	sured Ca	U	100													1	lst		2nd Final						
		al Units								+					Notice of I	'		D/YYYY			MM/DD/YYYY				
		. Per Acre														15. Companion Policy(s)									
			MINED AC	REAG	E APPR	AISED	PROD	UCTIO	N AND	ADJUST	MENT	3)(~)								
	CTUA						,11102	00110		120000		5			B. POTI	INTIAL	VIELD								
															B. POTENTIAL YIELD										
16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	32b.	33.	34.	35.	36.	37.	38.			
Field	Multi-	Reported	Determined	Interest				Sub-	Intended	Irr	Cropping	Organic		Use of	Appraised	Moisture		Production	Quality	Production	Uninsured	Total to			
ID	Crop	Acres	Acres	or	Risk	Туре	Class	Class	Use	Practice	Practice	Practice	Stage	Acreage	Potential	%	Factor,	Pre QA	Factor	Post QA	Causes	Count			
	Code		05.0	Share		007									140	Factor	or Value	2500		2500		2500			
A			25.0	1.000		997					003		R	REPLANTED	140			3500		3500		3500			
В			25.0	1.000		997					003		NR	NOT REPLANTED											
	40. Quality: TW KD Aflatoxin Vomitoxin Garlicky Dark Roast																								
															42.	TOTALS	3500		3500		3500				
39. TOTAL 50.0 Sclerotinia □ Ergoty □ CoFo □ Other □ None □ 42. TOTALS 41. Mycotoxins exceed FDA, State or other health organization maximum limits? Yes □ 42. TOTALS																									
NAR	NARRATIVE (If more space is needed, attach a Special Report) The example above shows allowance when the actual cost is less than the													nan the ma	ximum al	lowance.	The insur	ed's actu	al cost to r	eplant was	\$14.00				
			ction of \$0.1																						
\$0.10)) See	attached Sp	ecial Report t	for whee	l measur	ements.																			
SEC	TION	I – DETER	MINED AC	REAG	E APPR	AISED	, PROD	UCTIO	N AND	ADJUS	IMENTS	5													
A. A	CTUA	RIAL													B. POTI	ENTIAL	YIELD								
16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	32a. 32b.	33.	34.	35.	36.	37.	38.			
T . 11	Multi-	D 1		Interest				G 1			a .	o .				Moisture	Shell %,	D 1	0 11	D 1 2		m , 1,			
Field ID	Crop	Reported Acres	Determined Acres	or	Risk	Туре	Class	Sub- Class	Intended Use	Irr Practice	Cropping Practice	Organic Practice	Stage	Use of Acreage	Appraised Potential	%	Factor,	Production Pre OA	Factor	Production Post QA	Causes	Total to Count			
ш	Code	Actes	Actes	Share				Class	Use	Flactice	Flacuce	Flacuce		Acteage	Fotentiai	Factor	or Value	rieQA	Factor	rost QA	Causes	Count			
A			25.0	.500		997					003		R	REPLANTED	70			1750		1750		1750			
в			25.0	.500		997	r				003		NR	NOT											
_														REPLANTED											
																	-								
		20 TOT 1									monisin [Garlic	ky 🗆	Dark Roast		10	TOTAL	1850		4		4750			
		39. TOTAL							ther \square N		maximum	limite? V				42.	TOTALS	1750		1750		1750			
NAD	рати	/E (If more	space is nee															ahana ia a		Tuanadi		-			

PRODUCTION WORKSHFFT

NARRATIVE (If more space is needed, attach a Special Report) Example above shows allowance when the actual cost is less than the maximum allowance when share is considered. Insured's actual cost to replant was \$7.00 per acre with a Price election of \$0.10. \$7.00 + \$0.10 = 70 lbs. 70 lbs. x 25 acres replanted = 1750 lbs. Maximum allowed - \$7.50 (150 lbs. x \$0.10 x 50%) See attached Special Report for wheel measurements.

Minimum Representative Sample Requirements

Acres in Field or Subfield	Minimum Number of Samples*
0.1 - 10.0	3
*Add one additional sample for each additional 40.0) acres (or fraction thereof) in the field or subfield.

ROW WIDTH (INCHES)	ROW LENGTH (FEET) FOR 1/100 ACRE	ROW LENGTH (FEET) FOR 1/1000 ACRE	ROW LENGTH (FEET) FOR 1/2000 ACRE
42	124.5	12.4	6.2
40	130.7	13.1	6.5
38	137.6	13.8	6.9
36	145.2	14.5	7.3
34	153.7	15.4	7.7
32	163.4	16.3	8.2
30	174.2	17.4	8.7
28	186.7	18.7	9.3
26	201.0	20.1	10.1
24	217.8	21.8	10.9
22	237.6	23.8	11.9
20	261.4	26.1	13.1
18	290.4	29.0	14.5
16	326.7	32.7	16.3
14	373.4	37.3	18.7

For row widths not listed above, use the following formula:

43,56	50 sq.	ft./acre \div row wi	dth i	<u>n inches</u>
		Ĺ	12	J
100 ft.	or	1000 ft.	or	2000 ft.
(for 1/100 acre)	(1	for 1/1000 acre)		(for 1/2000 acre)

EXAMPLE:

43,560 sq. ft./acre ÷ 25"

 $\frac{12''}{100 \text{ ft.}} = \frac{43,560 \text{ sq. ft.} \div 2.083}{100 \text{ ft.}} = \frac{20,912.146}{100 \text{ ft.}} = 209.121 \text{ ft. or } 209.1 \text{ ft. row length}$

		390	380	370	360	350	340	330	320	310	300	290	280	270							200			<u>`</u>				130	120	110	100	90	80	70	60	50	40	30	20	10	1	
	400	100			98	<u>98</u>		97	1		95	<u>94</u>	92	<u>91</u>	<u>89</u>	87	86	84	82	80		76	74	72		67	64	61	58		52	48	43	37	31	24	19	14	-	5	400	Í –
	390	100			99	<u>98</u>	97	97	97	96	95	94	93	<u>91</u>	89	87	86	84	82	80		76	74	72	69	67	65	62	59		53		44	38	32	25	20	15	-	-	390	
	380		100		99	<u>99</u>	<u>98</u>	<u>98</u>	97	96	95	94	93	<u>91</u>	89	87	86	84	82	80	78	76	74	72	69	67	65	62	59		53		44	39	33	26	21	16		5	380	ĺ
	370			100			99	98	97		95	94	93	92	90	88	86	84	82		78	76	74	72	69			62	59	56	53		44	39	34	27	22	16	_		370	
	360				100	100	99	99	98		96	94	93	93	91	89	87	85	83	81		76	74	72	69	67		62	59				46	41	35	28	22	17	11	6	360	
	350					100	100	99	99	98	97	96	95	94	92	90	88	86	84	81	79	77	75	73	71	69	66	64	61	58	55	51	47	42	36	29	23	17	12	6	350	
	340						100	100	99	99	98	97	96	95	94	92	90	88	85	83	81	79	76	74	72	69	67	64	61	58	55	51	47	42	36	30	24	18	12	6	340	
	330							100	100	99	98	97	96	95	94	92	91	89	86	84	82	80	78	75	73	70	68	65	62	59		51	47	42	37	31	25	19	12	6	330	
	320								100	99	98	97	96	95	94	93	92	91	89	87	84	82	79	77	74	71	68	65	62	59			47	43	38	32	26	20	14	8	320	
	310									100	99	98	97	96	95	94	93	92	90	88	86	84	81	79	76	73	70	67	64				48	44	39	33	27	21		9	310	
	300										100		98	97	96	95	94	93	91	89	88	86	83		77	75	72	69	66	63			50		40	34	29	23		11	300	
0	290											100		98	97	96		94	92	90	89	87	85		79	77	74	71	68					47	42	36	31	25			290	-
R	280												100		98	97	95	94	93	91	90	88			81	79	76	73	70	66			54	49	43	37	33	27	21			
Ι	270													100	99	97	96	95	94	_	91	90				82	79	76	72	69			55		45	39	34					
G	260														100	99	97	96	95	94		91			86		81	78	75						47	41	36	30			_	G
Ι	250															100		98	97	96	94	93	92	90	88	86	83	80	77	73		-	59	54	49	43	37	30			250	Ι
Ν	240																100	1	98	97	96	95	94	91	90	88		82	78	74			60		50	44	38	31	24			Ν
Α	230																	100		98	97	96	95	92	<u>91</u>	89		83	79	75		67			51	45	38	31		15	230	Α
L	220																		100		98	97	96	93	92	90	87	84	80	76			62	57	52	46	40	33			-	L
a	210																			100	99	98	96	94	93	91 00	88	84	80	76					53	47	41	34	-			G
S	200 190			EXA	мр	I.F.															100	99 100	97 98	95 96	94 95	92 93	89 90	85 86	81 83	77 79				59 60	54 55	48 49	42 43	35 36				S
T	190						ate fo	or 39	rema	aining	g pla	nts a	nd 24	10 or	igina	l pla	nts					100	98 100		95 96	93 94	90 91	88	85	79 81	75 77		05 67		55 57	49 51	43 45	30 36		17	190	T
A N	170					-	(236	6 orig	ginal	plant	s, ro	unde	d to 2	240):	-	•							100	90 100	90 98	94 96	91 93	00 90	87	83	79		69	64	57 59	53	45 46	30		17		A
D	160					39	is .9		liffer					d 40	; .									100	³⁰	98	95 95	90 92	87 89		81		71	66	<u>61</u>	55	46	38	_	18	_	
υ	150						31		.9 x 7 6.3 :					27)											100	100		95	92	88	84		74	69	64	58	47	38		18		U
	140						51	prus	0.5	- 57.	5 (10	unue	u 10.	51)				<u> </u>	-		-					100	-	97	94	90			77	72	67	<u>61</u>	48	39	20	19	-	ĺ
	130								main																		100	100		94			80		70	64	49	39	29	19		ĺ
	120			To	o inte	erpola			remai						ginal	plar	nts:		1										100	97			83		73	67	50	40	-	21	-	1
	110			(236 original plants, rounded to 240) 6 is .6 of difference between 0 and 10;												1											100					78	72	51	40	-	-	-	1			
	100			$.6 \times 15 (15-0) = 9$													1											100				83	77	52	41							
	90								.0 A	0 + 9										1												100	96		87	81	53	41		24	90	
	80																	1	1	1		İ											100	96	91	85	54	42	_	25	80	ĺ
	70						l	1	İ										1															100	96	91				26		
	60							1										1	1													Ī			100	95	56	43	33	27	60	ĺ
	50																																			100	57	43	33	28	50	
•		390	380	370	360	350	340	330	320	310	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10		ĺ
		-				1.20	1	10	10		•					•		1	1	L0						0		0								1					L	1

Use from emergence through 10th leaf stage. Interpolate as necessary and round to the nearest whole percent. (DO NOT USE AFTER 10TH LEAF STAGE.) **REMAINING PLANTS IN SAMPLE (1/100) ACRE**

REMAINING PLANTS IN SAMPLE (1/100 ACRE)

F			1				1	1	-	1					_		_	-			_	PLF	<u> </u>																	-
Í	<u>390</u>	380	370	360	350	340	330	320	310	300	290	280	270	260		240	230			200	190	180						_	_		_	_			50			-	10	_
400	0	0	1	2	2	3	3	3	4	5	6	8	9	11	13	14	16	18	20	22	24	26	28	31		36		42	45	48	52	57	63			81		90	95	40
390	0	0	0	1	2	3	3	3	4	5	6	7	9	11	13	14	16	18	20	22	24	26	28	31		35	38	41	44	47	51	56	62	68	75	80	85	90	95	39
380		0	0	1	1	2	2	3	4	5	6	7	9	11	13	14	16	18	20	22	24	26		31					44						74	79	84	90	95	38
370			0	0	1	1	2	3	4	5	6	7	8	10	12	14	16	18	20	22	24	26	28	31	33	35	38	41	44	47	51	56	61	66	73	78	84	89	95	37
360				0	0	1	1	2	3	4	6	7	7	9	11	13	15	17	19	22	24	26	28	31	33	35	38	41	44	47	50	54	59	65	72	78	83	89	94	36
350					0	0	1	1	2	3	4	5	6	8	10	12	14	16	19	21	23	25	27	29	31	34	36	39	42	45	49	53	58	64	71	77	83	88	94	35
340						0	0	1	1	2	3	4	5	6	8	10	12	15	17	19	21	24	26	28	31	33	36	39	42	45	49	53	58	64	70	76	82	88	94	34
330							0	0	1	2	3	4	5	6	8	9	11	14	16	18	20	22	25	27	30	32	35	38	41	45	49	53	58	63	69	75	81	88	94	33
320								0	1	2	3	4	5	6	7	8	9	11	13	16	18	21	23	26	29	32	35	38	41	45	49	53	57	62	68	74	80	86	92	32
310									0	1	2	3	4	5	6	7	8	10	12	14	16	19			27	30	33				47					73		85	91	31
300										0	1	2	3	4	5	6	7	9	11	12	14	17	20	23	25	28	31	34	37	41	45	50	55	60	66	71	77	83	89	3(
290			1					1	1		0	1	2	3	4	5	6	8	10	11	13			21					35		43			58	64	69			89	29
280			1			l		ĺ	1			0	1	2	3	5	6	7	9	10	12	14				24	27		34											
270													0	1	3	4	5	6	7	9	10			16						35									87	2'
260														0	1	3	4	5	6	7	9	10	12	14	16	19	22	25	29	33	38	43	48	53	59	64	70	77	86	20
250															0	1	2	3	4	6	7	8	10		14	17	20		27			41			57			77	85	2
240																0	1	2	3	4	5	6	9	10	12	15	18	22	26	29	34	40	45	50	56	62	69	76	85	2
230																	0	1	2	3	4	5	8	9	11	14	17	21	25	29			44		55	62	69	76	85	2
220																		0	1	2	3	4	7		10	13	16		24				43		54				84	_
210																			0	1	2	4	6	7	9	12	16	20	24						53				84	2
200																				0	1	3	5	6	8	11	15		23						52				83	2
190			EXAMPLE: To interpolate for 89 remaining plants an																	0	2	4	5	7	10	14														
180		E	XA	MPI	LE:	То	inter	rpol	ate fo	or 89	ren	nain	ing r	olant	ts an	nd 24	10					0	2	4	6	9	12		19			33			_				83	1
170		original plants (236 original plants rounded to 240):																				-	0	2	4	7	10	13	17				36	41			63	73		_
160			(236 original plants rounded to 240):																				-	0	2	5	8		15		24		34							
150			89 is .9 of difference between 90 and 80;																					-	0	3	5		12			26								_
140							.9	9 x 6	i(40 -	- 34)) = 5	.4														0	3	6	10	14		23			39				81	_
130					4	0 m	inus	5.4	= 34	.6 (r	oun	ded	to 35	5)													0	3	6			20			36				81	
120				1387		рт т			n					• •	10)												÷	0	3			17		27	33			70	79	
110		т							Rem																			-	0	3	8				_			70	77	
100		To interpolate for 6 remaining plants and 240 original plants (236 original plants rounded to 240)												plant	s:												v	0	4	8	12									
90			(236 original plants rounded to 240) 6 is .6 of difference between 0 and 10;																											0	4	8	13		47		69	76		
80			6 is .6 of difference between 0 and 10; .6 x 15 $(100 - 85) = 9$																											•	0	4	9				68	75	_	
70																																	-	4		45			74	_
60			100 minus 9 = 91																														-		4 4				_	
50			1																																	43			72	
			370	<u> </u>				<u> </u>												L																		20	10	-

REMAINING PLANTS IN SAMPLE (1/100) ACRE

									Perce	ent Lea	f Area l	Destroy	ed						
Stage of Growth	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
									Pe	rcent P	roducti	on Lost	ţ						
7-leaf	0	0	0	0	0	0	1	1	2	3	4	4	5	5	6	7	8	9	9
8-leaf	0	0	0	0	0	1	1	2	3	4	5	5	6	6	7	8	9	10	11
9-leaf	0	0	0	1	1	2	2	3	4	5	6	6	7	7	9	10	11	12	13
10-leaf	0	0	0	1	2	3	4	5	6	7	8	8	9	9	11	13	14	15	16
11-leaf	0	0	1	1	2	3	5	6	7	8	9	10	11	12	14	16	18	20	22
12-leaf	0	0	1	2	3	4	5	7	9	10	11	13	15	16	18	20	23	26	28
13-leaf	0	1	1	2	3	4	6	8	10	11	13	15	17	19	22	25	28	31	34
14-leaf	0	1	2	3	4	6	8	10	13	15	17	20	22	25	28	32	36	40	44
15-leaf	1	1	2	3	5	7	9	12	15	17	20	23	26	30	34	38	42	46	51
16-leaf	1	2	3	4	6	8	11	14	18	20	23	27	31	36	40	44	49	55	61
17-leaf	2	3	4	5	7	9	13	17	21	24	28	32	37	43	48	53	59	65	72
18-leaf	2	3	5	7	9	11	15	19	24	28	33	38	44	50	56	62	69	76	84
19-21 leaf	3	4	6	8	11	14	18	22	27	32	38	43	51	57	64	71	79	87	96
Tassel	3	5	7	9	13	17	21	26	31	36	42	48	55	62	68	75	83	91	100
Silked	3	5	7	9	12	16	20	24	29	34	39	45	51	58	65	72	80	88	97
Silks brown	2	4	6	8	11	15	18	22	27	31	36	41	47	54	60	66	74	81	90
Pre-blister	2	3	5	7	10	13	16	20	24	28	32	37	43	49	54	60	66	73	81
Blister	2	3	5	7	10	13	16	19	22	26	30	34	39	45	50	55	60	66	73
Early milk	2	3	4	6	8	11	14	17	20	24	28	32	36	41	45	50	55	60	66
Milk	1	2	3	5	7	9	12	15	18	21	24	28	32	37	41	45	49	54	59
Late milk	1	2	3	4	6	8	10	12	15	18	21	24	28	32	35	38	42	46	50
Soft dough	1	1	2	2	4	6	8	10	12	14	17	20	23	26	29	32	35	38	41
Early dent		0	1	1	2	3	5	7	9	11	13	15	18	21	23	25	27	29	32
Dent	0	0	0	1	2	3	4	6	7	8	10	12	14	15	17	19	20	21	23
Late dent	0	0	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Nearly mature	0	0	0	0	0	0	0	0	1	2	3	4	5	5	6	6	7	7	8
Mature	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

For percentage of production loss not on the chart, interpolate as follows:

Locate the percent leaf area destroyed directly below and above the actual percent of leaf area destroyed taken from item 19 on the appraisal worksheet. Subtract the lower number from the actual percent and divide by 5. Multiply this result by the difference between the lower and higher production lost percentages. Add this amount to the percent production lost lower number, in percent to tenths.

EXAMPLE: Stage is 18th leaf. Actual percent of leaf area destroyed is 42. 40 and 45 (percents directly below and above). 42 - 40 = 2 $2 \div 5 = .4$ 19 - 15 = 4 $4 \times .4 = 1.6$ 1.6 + 15 = 16.6 will be the percent damage for leaf destruction entered in item 20 on the appraisal worksheet.

Stage Modification

Actual			ТОТА	L ACTU	JAL LEA	VES TO	BE PRC	DUCED) (ULTIN	IATE NO). OF LE	EAVES)		
Leaves at	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Date of Loss						I	MODIFIE	ED STAG	Έ					
5	11	10	9	8	8	7	6	5	5	5				
6	13	12	11	10	9	8	7	6	6	6	5			
7	14	13	12	11	10	9	8	7	7	7	6	5		
8	15	14	13	12	11	10	9	8	8	8	7	6	5	
9	16	15	14	13	12	11	10	9	9	9	8	7	6	5
10	17	16	15	14	13	12	11	10	10	10	9	8	7	6
11	18	17	16	15	14	13	12	11	11	11	10	9	8	7
12	19/21	18	17	16	15	14	13	12	12	12	11	10	9	8
13		19/21	18	17	16	15	14	13	13	13	12	11	10	9
14			19/21	18	17	16	15	14	14	14	13	12	11	10
15				19/21	18	17	16	15	15	15	14	13	12	11
16					19/21	18	17	16	16	16	15	14	13	12
17						19/21	18	17	17	17	16	15	14	13
18							19/21	18	18	18	17	16	15	14
19								19/21	19/21	19/21	18	17	16	15
20									19/21	19/21	19/21	18	17	16
21										19/21	19/21	19/21	18	17
22											19/21	19/21	19/21	18
23												19/21	19/21	19/21
24													19/21	19/21
25														19/21

Shelling Percentage Factors – Ear Popcorn

(1)	(2)	(3) EAR POPCORN	(4)
Wt. of Ear Popcorn Sample: (lbs.)	Wt. of Shelled Popcorn Sample: (lbs.)	Shelling Percentage For Weight Method Appraisals and Gross Weight Entries in Section II, column 57 of the Production Worksheet	EAR POPCORN Shelling Percentage Factor For Structural Measurement Entries
5	4.4	.88	1.10
5	4.3	.86	1.08
5	4.2	.84	1.05
5	4.1	.82	1.03
5	4.0	.80	1.00
5	3.9	.78	.98
5	3.8	.76	.95
5	3.7	.74	.93
5	3.6	.72	.90
5	3.5	.70	.88
5	3.4	.68	.85
5	3.3	.66	.83
5	3.2	.64	.80
5	3.1	.62	.78
5	3.0	.60	.75
5	2.9	.58	.73
5	2.8	.56	.70
5	2.7	.54	.68
5	2.6	.52	.65
5	2.5	.50	.63
5	2.4	.48	.60
5	2.3	.46	.58
5	2.2	.44	.55
5	2.1	.42	.53
5	2.0	.40	.50

Popcorn Moisture Adjustment Factors

WHOLE				TENTI	HS OF PERC	CENT - MOIS	STURE			
PERCENT MOISTURE	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
15	1.0000	.9988	.9976	.9664	.9952	.9940	.9928	.9916	.9904	.9892
16	.9880	.9868	.9856	.9844	.9832	.9820	.9808	.9796	.9784	.9772
17	.9760	.9748	.9736	.9724	.9712	.9700	.9688	.9676	.9664	.9652
18	.9640	.9628	.9616	.9604	.9592	.9580	.9568	.9556	.9544	.9532
19	.9520	.9508	.9496	.9484	.9472	.9460	.9448	.9436	.9424	.9412
20	.9400	.9388	.9376	.9364	.9352	.9340	.9328	.9316	.9304	.9292
21	.9280	.9268	.9256	.9244	.9232	.9220	.9208	.9196	.9184	.9172
22	.9160	.9148	.9136	.9124	.9112	.9100	.9088	.9076	.9064	.9052
23	.9040	.9028	.9016	.9004	.8992	.8980	.8968	.8956	.8944	.8932
24	.8920	.8908	.8896	.8884	.8872	.8860	.8848	.8836	.8824	.8812
25	.8800	.8788	.8776	.8764	.8752	.8740	.8728	.8716	.8704	.8692
26	.8680	.8668	.8656	.8644	.8632	.8620	.8608	.8596	.8584	.8572
27	.8560	.8548	.8536	.8524	.8512	.8500	.8488	.8476	.8464	.8452
28	.8440	.8428	.8416	.8404	.8392	.8380	.8368	.8356	.8344	.8332
29	.8320	.8308	.8296	.8284	.8272	.8260	.8248	.8236	.8224	.8212
30	.8200	<mark>.8188</mark>	<mark>.8176</mark>	<mark>.8164</mark>	<mark>.8152</mark>	<mark>.8140</mark>	<mark>.8128</mark>	<mark>.8116</mark>	<mark>.8104</mark>	<mark>.8092</mark>
31	<mark>.8080</mark>	<mark>.8068</mark>	<mark>.8056</mark>	<mark>.8044</mark>	<mark>.8032</mark>	<mark>.8020</mark>	<mark>.8008</mark>	<mark>.7996</mark>	<mark>.7984</mark>	<mark>.7972</mark>
32	<mark>.7960</mark>	<mark>.7948</mark>	<mark>.7936</mark>	<mark>.7924</mark>	<mark>.7912</mark>	<mark>.7900</mark>	<mark>.7888</mark>	<mark>.7876</mark>	<mark>.7864</mark>	<mark>.7852</mark>
33	<mark>.7840</mark>	<mark>.7828</mark>	<mark>.7816</mark>	<mark>.7804</mark>	<mark>.7792</mark>	<mark>.7780</mark>	<mark>.7768</mark>	<mark>.7756</mark>	<mark>.7744</mark>	<mark>.7732.</mark>
34	<mark>.7720</mark>	<mark>.7708</mark>	<mark>.7696</mark>	<mark>.7684</mark>	<mark>.7672</mark>	<mark>.7660</mark>	<mark>.7648</mark>	<mark>.7636</mark>	<mark>7624</mark>	<mark>7612</mark>
35	<mark>.7600</mark>	<mark>.7588</mark>	<mark>.7576</mark>	<mark>.7564</mark>	<mark>.7552</mark>	<mark>.7540</mark>	<mark>.7528</mark>	<mark>.7516</mark>	<mark>.7504</mark>	<mark>.7492</mark>
36	<mark>.7480</mark>	<mark>.7468</mark>	<mark>.7456</mark>	<mark>.7444</mark>	<mark>.7432</mark>	<mark>.7420</mark>	<mark>.7408</mark>	<mark>.7396</mark>	<mark>.7384</mark>	<mark>.7372</mark>
37	<mark>.7360</mark>	<mark>.7348</mark>	<mark>.7336</mark>	<mark>.7324</mark>	<mark>.7312</mark>	<mark>.7300</mark>	<mark>.7288</mark>	<mark>.7276</mark>	<mark>.7264</mark>	<mark>.7252</mark>
38	<mark>.7240</mark>	<mark>.7228</mark>	<mark>.7216</mark>	<mark>.7204</mark>	<mark>.7192</mark>	<mark>.7180</mark>	<mark>.7168</mark>	<mark>.7156</mark>	<mark>.7144</mark>	<mark>.7132</mark>
39	<mark>.7120</mark>	<mark>.7108</mark>	<mark>.7096</mark>	<mark>.7084</mark>	<mark>.7072</mark>	<mark>.7060</mark>	<mark>.7048</mark>	<mark>.7036</mark>	<mark>.7024</mark>	<mark>.7012</mark>
40	<mark>.7000</mark>	<mark>.6988</mark>	<mark>.6976</mark>	<mark>.6964</mark>	<mark>.6952</mark>	<mark>.6940</mark>	<mark>.6928</mark>	<mark>.6916</mark>	<mark>.6904</mark>	<mark>.6892</mark>

Test Weight	Less Than 255 Sq. Ft	255 Sq. Ft. to 461 Sq. Ft	462 Sq. Ft. to 767 Sq. Ft	768 Sq. Ft. to 1384 Sq. Ft	1385 Sq. Ft. to 2289 Sq. Ft	2290 or Over Sq. Ft
30.0	0.587	0.594	0.603	0.610	0.610	0.610
30.5	0.596	0.603	0.612	0.619	0.619	0.619
31.0	0.605	0.612	0.622	0.628	0.628	0.628
31.5	0.614	0.621	0.631	0.638	0.638	0.638
32.0	0.623	0.630	0.640	0.647	0.647	0.647
32.5	0.632	0.639	0.649	0.656	0.656	0.656
33.0	0.641	0.648	0.658	0.665	0.665	0.665
33.5	0.649	0.657	0.667	0.674	0.674	0.674
34.0	0.658	0.665	0.676	0.684	0.684	0.684
34.5	0.667	0.674	0.685	0.693	0.693	0.693
35.0	0.676	0.683	0.694	0.702	0.702	0.702
35.5	0.684	0.692	0.703	0.711	0.711	0.711
36.0	0.693	0.701	0.712	0.720	0.720	0.720
36.5	0.702	0.709	0.721	0.729	0.729	0.729
37.0	0.710	0.718	0.730	0.738	0.738	0.738
37.5	0.719	0.727	0.739	0.747	0.747	0.747
38.0	0.727	0.736	0.748	0.756	0.756	0.756
38.5	0.736	0.744	0.757	0.765	0.765	0.765
39.0	0.744	0.753	0.765	0.774	0.774	0.774
39.5	0.753	0.761	0.774	0.783	0.783	0.783
40.0	0.761	0.770	0.783	0.791	0.791	0.791
40.5	0.770	0.779	0.792	0.800	0.800	0.800
41.0	0.778	0.787	0.800	0.809	0.809	0.809
41.5	0.787	0.796	0.809	0.818	0.818	0.818
42.0	0.795	0.804	0.818	0.841	0.853	0.871
42.5	0.803	0.812	0.826	0.849	0.861	0.879
43.0	0.812	0.821	0.835	0.857	0.869	0.887
43.5	0.820	0.829	0.843	0.865	0.877	0.895
44.0	0.828	0.838	0.852	0.873	0.885	0.903
44.5	0.836	0.846	0.860	0.881	0.893	0.911
45.0	0.845	0.854	0.869	0.889	0.901	0.919
45.5	0.853	0.862	0.877	0.897	0.909	0.927
46.0	0.861	0.871	0.886	0.905	0.917	0.935
46.5	0.869	0.879	0.894	0.913	0.925	0.943
47.0	0.877	0.887	0.902	0.921	0.933	0.951
47.5	0.885	0.895	0.911	0.929	0.941	0.959
48.0	0.893	0.903	0.919	0.937	0.949	0.967
48.5	0.901	0.912	0.927	0.945	0.957	0.975
49.0	0.909	0.920	0.935	0.953	0.965	0.983
49.5	0.917	0.928	0.944	0.961	0.973	0.991

Popcorn – Combined Test Weight and Pack Factors

Test Weight	Less Than 255 Sq. Ft. -	255 Sq. Ft. to 461 Sq. Ft	462 Sq. Ft. to 767 Sq. Ft	768 Sq. Ft. to 1384 Sq. Ft	1385 Sq. Ft. to 2289 Sq. Ft	2290 or Over Sq. Ft
50.0	0.925	0.936	0.952	0.969	0.981	0.999
50.5	0.933	0.944	0.960	0.978	0.990	1.009
51.0	0.941	0.952	0.968	0.986	0.998	1.017
51.5	0.949	0.960	0.976	0.994	1.006	1.025
52.0	0.956	0.968	0.984	1.003	1.015	1.034
52.5	0.964	0.975	0.992	1.011	1.024	1.043
53.0	0.972	0.983	1.000	1.019	1.032	1.051
53.5	0.980	0.991	1.008	1.027	1.040	1.059
54.0	0.987	0.999	1.016	1.036	1.049	1.069
54.5	0.995	1.007	1.024	1.044	1.057	1.077
55.0	1.003	1.015	1.032	1.052	1.065	1.085
55.5	1.010	1.022	1.040	1.060	1.073	1.094
56.0	1.018	1.030	1.048	1.068	1.081	1.102
56.5	1.026	1.038	1.056	1.076	1.089	1.110
57.0	1.033	1.045	1.064	1.084	1.097	1.118
57.5	1.041	1.053	1.071	1.092	1.105	1.126
58.0	1.048	1.061	1.079	1.100	1.113	1.134
58.5	1.056	1.068	1.087	1.108	1.122	1.143
59.0	1.063	1.076	1.095	1.116	1.130	1.151
59.5	1.070	1.083	1.102	1.123	1.138	1.160
60.0	1.078	1.091	1.110	1.131	1.146	1.168
60.5	1.085	1.098	1.118	1.139	1.153	1.175
61.0	1.093	1.106	1.125	1.147	1.161	1.183
61.5	1.100	1.113	1.133	1.155	1.169	1.191
62.0	1.107	1.120	1.140	1.163	1.177	1.199
62.5	1.114	1.127	1.147	1.171	1.185	1.207
63.0	1.121	1.134	1.154	1.179	1.193	1.215
63.5	1.128	1.141	1.161	1.187	1.201	1.223
64.0	1.135	1.148	1.168	1.195	1.209	1.231

Popcorn – Combined Test Weight and Pack Factors (Continued)

Applicable only to shelled popcorn. If the actual test weight is not shown on the chart, refer to exhibit 7, Section II, column 60b for instructions.

Popcorn Stage Characteristics

All Stage are based on 50 percent of the plants in the sample at or beyond a given phase of development.						
STAGE OF GROWTH (LEAF IS 40 TO 50 PERCENT EXPOSED AND IS USUALLY THE UPPERMOST LEAF TIP POINTING BELOW A HORIZONTAL LINE	AVERAGE TIME INTERVAL (THIS STAGE TO NEXT)	COLLAR OF THIS LEAF IS VISIBLE	TIP OF THIS LEAF IS VISIBLE	PERCENT OF LEAF AREA EXPOSED		
7 th Leaf	3 days	5 th	9 th	6		
8 th Leaf	3 days	6 th	10 th	10		
9 th Leaf	3 days	7 th	11 th	16		
10 th Leaf	3 days	7 th	12 th	23		
11 th Leaf	3 days	8 th	13 th	31		
12 th Leaf	3 days	9 th	14^{th}	41		
13 th Leaf	3 days	10 th	15 th	50		
14 th Leaf	3 days	11 th	16 th	60		
15 th Leaf	3 days	12 th	17 th	69		
16 th Leaf	3 days	13 th	18 th	77		
17 th Leaf	3 days	14 th		84		
18 th Leaf	2 days	15 th		94		
19-21 Leaf	2 days	Tassel and ear shoot emerging but not fully extended. Removal of husks will show the silk to be shorter than cob. The last leaves of the plant are in the process of becoming fully extended. Elongation of upper nodes is not complete.		94+		

All Stage are based on 50 percent of the plants in the sample at or beyond a given phase of development.

Popcorn Stage Characteristics (Continued)

NAME OF	AVERAGE TIME INTERVAL	CHARACTERISTICS	PERCENT OF LEAF AREA
STAGE (THIS STAGE TO NEXT)		EXPOSED	
Tasseled	4 days	Tassel fully extended; ear shoot exposed but no silk showing. Husks opened on the ear shoot would show the silk longer than cob. No pollen evident. Plant has reached maximum size.	99
Silked	4 days	Pollination period. Silks have emerged. Tassel is shedding pollen.	100
Silks Brown	5 days	Pollination period almost complete. Seventy-five percent of silks on ear shoot showing a purple to brown color. Silks are not dry to the touch even though the color has changed to purplish brown.	
Pre-Blister	4 days	Pollination period is complete. Silks are brown but not dry. No fluid in seed coat and kernel has appearance of a pimple.	
Blister	4 days	Kernels on cob appear as watery blisters. Kernel is white fluid is colorless. Removal of fluid from kernel would leave only hull.	
Early Milk	4 days	Kernels changing in color from translucent to yellow. Kernels of seed coat starting to show slight yellow appearance. Thin chalky or milky substance in kernels.	
Milk	5 days	Full yellow color. Cob has reached its maximum length. Milky fluid in kernel, no solid substance.	
Late Milk	4 days	Milky fluid thickening and solids forming at the end opposite tip of kernel. Crush kernel to determine existence of vitreous (glassy) starch deposits.	
Soft Dough	5 days	Pasty or semi-solid. Deposits of dense or horny endosperm give the impression of a small lens or incomplete cap to the kernel. Kernels still produce a milky substance when squeezed.	
25 percent stage	5 days	Thick gummy substance will be evident when kernel is squeezed but kernels will still squirt some milk when mashed. Glazing or (capping) evident near the butt end of the ear.	
50 percent stage	5 days	Capping evident in most kernels. While most kernels will not squirt milk when squeezed, there will be evidence of milk in the top of some kernels. the endosperm has shown signs of hardening.	
75 percent stage	5 days	All kernels are capped. Kernels showing distinct brown coloration. Drying of the husks.	
95 percent stage	5 days	Kernels have full coloration. Dry matter has accumulated in all but the tips of the kernels.	
100 percent stage		Physiological maturity and the point of maximum grain dry matter has been reached. Loss in weight from this point to full maturity (15 percent moisture) reflects reduction in moisture from approximately 40 percent to 15 percent.	

All stages are based on 50 percent of the plants being at or beyond a given phase of development. Modifications to the late reproductive stage characteristics of popcorn provided by E.J. Stevens, S.J. Stevens, A.D. Flowerday. University of Nebraska – Lincoln.

NOTE: See exhibit 18, Figures A, B, and C for descriptive pictures of the popcorn plant.

Exhibit 17

FIGURE A

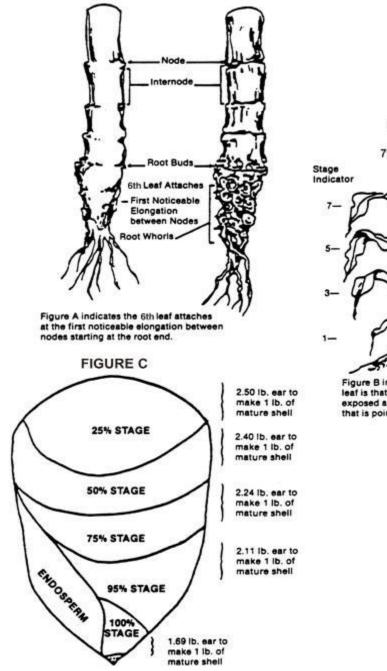


FIGURE B



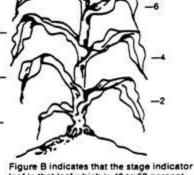


Figure B indicates that the stage indicator leaf is that leaf which is 40 to 50 percent exposed and is usually the uppermost leaf that is pointing below a horizontal line.

Full Maturity

Figure C indicates the stages of maturity by determining in which quarter of the kernel that the line separating the solids and the milk is located.