

United States
Department of
Agriculture

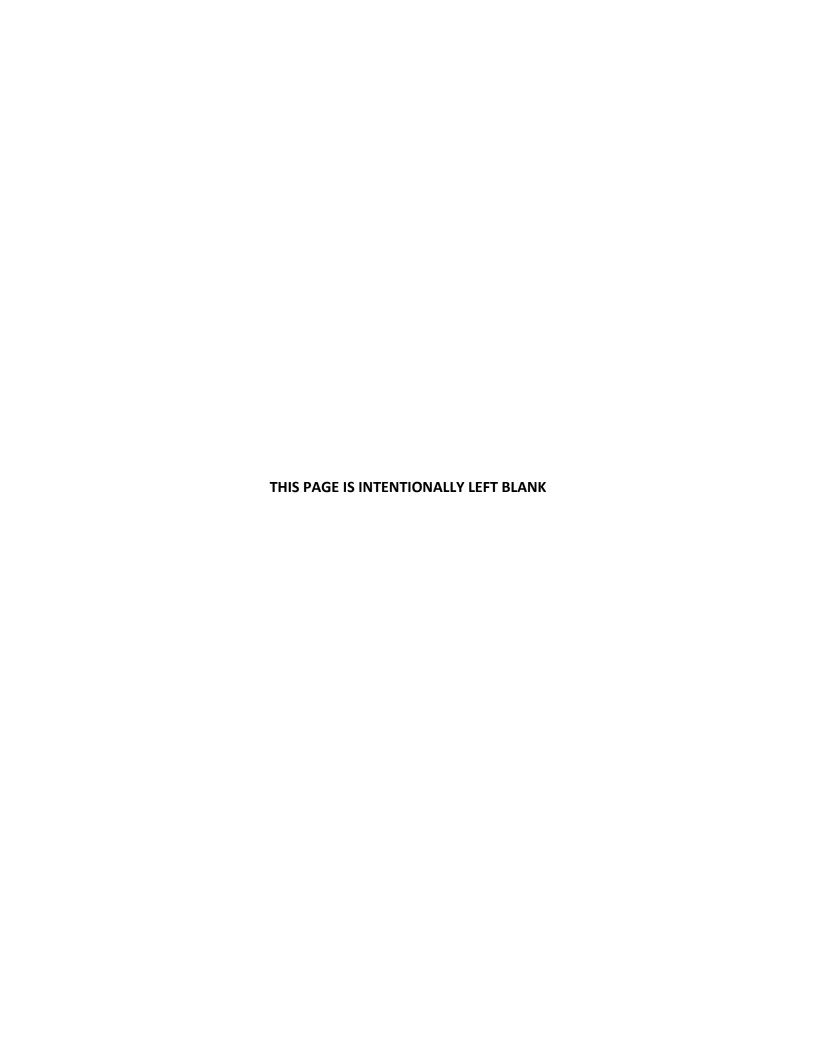


Federal Crop Insurance Corporation

FCIC-25350 (12-2023)

POPCORN LOSS ADJUSTMENT STANDARDS HANDBOOK

2024 and Succeeding Crop Years



UNITED STATES DEPARTMENT OF AGRICULTURE FARM PRODUCTION AND CONSERVATION RISK MANAGEMENT AGENCY

TITLE: POPCORN LOSS ADJUSTMENT STANDARDS	NUMBER: FCIC-25350
HANDBOOK	OPI: Product Administration and Standards
	Division
EFFECTIVE DATE: 2024 and Succeeding Crop Years	ISSUE DATE: December 13, 2023
SUBJECT:	APPROVED:
	/s/ John W. Underwood for
Provides the loss procedures for administering the	
Popcorn crop insurance program.	Deputy Administrator for Product Management

REASON FOR ISSUANCE

This handbook provides loss procedures for administering the Popcorn crop insurance program. This handbook replaces FCIC-25350, Popcorn Loss Adjustment Standards Handbook, issued September 8, 2022. This handbook is effective for the 2024 and succeeding crop years and is not retroactive to any 2023 or prior crop year determinations.

SUMMARY OF CHANGES

Listed below are significant content changes to the 2023 FCIC-25350 Popcorn Loss Adjustment Standards Handbook. Minor changes and corrections are not included in this listing. All changes, and additions are highlighted. Three asterisks (***)indicate where major deletions occurred.

Reference	Description of Change
Summary of Changes	Technical correction: Corrected exhibit number references and added a
	change that was inadvertently omitted (Exhibit 3, Item 15(4)).
Subparagraph 35C(a)(i) and	Technical correction: Corrected exhibit references.
<u>(ii)</u>	
Exhibit 4, Item 14	Technical correction: Removed exhibit reference from item name.
	Instructions now reference two separate exhibits.
Exhibit 7	Technical correction: Introductory paragraph, corrected paragraph reference.
Exhibit 12	Technical correction: Corrected exhibit name and applicable stages (7th
	through 10 th leaf stages). Table of contents updated accordingly.
Throughout	Updated to External Handbook Standards, including changing reference from
	insurance contract to insurance policy.
TP	Removed Control Chart and incorporated Filing Instructions into Reason for
	Issuance, per latest EHS.
Paragraph 35 B (4)	Updated appraisal procedure to show from the beginning of the 11 th leaf stage
	through the 17 th leaf stage the "Stand Reduction Chart" is used to determine
	the percent of potential remaining (Exhibit 11).
Paragraph 35 B (5)	Updated appraisal procedure to show from the beginning of the 18th leaf stage
	to the milk stage, the yield and stand reductions are on a one-to-one ratio.
	Example: 80 percent stand = 80 percent potential.

POPCORN LOSS ADJUSTMENT STANDARDS HANDBOOK

SUMMARY OF CHANGES (Continued)

Reference	Description of Change
	Description of Change
Paragraph 35 C (3)(a)(ii)	Updated appraisal procedure to show from the beginning of the 11 th leaf stage
	through the 17 th leaf stage the "Hail Stand Reduction Chart" is used to
	determine the percent of potential remaining (Exhibit 13).
Paragraph 35 C (3)(a)(iii)	Updated appraisal procedure to show from the beginning of the 18 th leaf stage
	to the milk stage, stand reduction and yield are on a one-to-one ratio.
	Example: 80 percent stand = 80 percent potential.
Exhibit 3, Item 15(3)	Added procedure to state from the beginning of the 11 th leaf stage through
	the 17 th leaf stage the "Stand Reduction Chart" is used to determine the
	percent of potential remaining (<u>Exhibit 11</u>).
Exhibit 3, Item 15(4)	Added procedure to state from the beginning of the 18th leaf stage to the milk
	stage, the yield and stand reductions are on a one-to-one ratio.
	Example: 80 percent stand = 80 percent potential.
Exhibit 4, Item 14 (2)	Added procedure to state from the beginning of the 11 th leaf stage to the 17 th
	leaf stage, use "Hail Stand Reduction Loss" (Exhibit 13) based on entries in
	item 11 (normal number of plants) and item 13 (remaining stand number of
	plants).
Exhibit 4, Item 14 (3)	Added procedure to state from the beginning of the 18 th leaf stage to the milk
	stage, stand reduction and yield are on a one-to-one ratio.
	Example: 80 percent stand = 80 percent potential.
Exhibit 11	Added new Exhibit 11 Popcorn Stand Reduction – Percent of Potential
	Remaining for 11 th Through 17 th Leaf Growth Stages. Renumbered remaining
	exhibits and updated references accordingly.
Exhibit 13	Added new Exhibit 13 "Hail Stand Reduction Loss" for 11th Through 17th Leaf
	Growth Stages. Renumbered remaining exhibits and updated references
	accordingly.

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PART 1: GENERAL INFORMATION AND RESPONSIBILITIES

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 www.rma.usda.gov.

This handbook remains in effect until superseded by reissuance. A bulletin or FAD can supersede selected portions of the handbook.

B. Source of Authority

Refer to the LAM for sources of authority.

C. Title VI of the Civil Rights Act of 1964

The USDA prohibits discrimination against its customers. Title VI of the Civil Rights Act of 1964 provides that "No person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance." Therefore, programs and activities that receive Federal financial assistance must operate in a non-discriminatory manner. Also, a recipient of RMA funding may not retaliate against any person because they opposed an unlawful practice or policy, or made charges, testified, or participated in a complaint under Title VI.

It is the AIPs' responsibility to ensure that standards, procedures, methods, and instructions, as authorized by FCIC in the sale and service of crop insurance policies, are implemented in a manner compliant with Title VI. Information regarding Title VI of the Civil Rights Act of 1964 and the program discrimination complaint process is available on the USDA public website at www.usda.gov/oascr. For more information on the RMA Non-Discrimination Statement see the DSSH.

D. Related Handbooks

The following table provides handbooks related to this handbook.

Handbook	Relation/Purpose	
CIH	This handbook provides the official FCIC-approved underwriting standards for	
	policies administered by AIPs for the General Administrative Regulations,	
	Common Crop Insurance Policy Basic Provisions, and Area Risk Protection	
	Regulations.	
DSSH	This handbook provides the official FCIC-approved form standards for use in the	
	sale and service of any eligible Federal crop insurance policy; required	
	statements and disclosures; and the standards for submission and review of	
	non-reinsured supplemental policies in accordance with the SRA.	
GSH	This handbook provides the official FCIC-approved standards for policies	
	administered by AIPs under the General Administrative Regulations, Common	
	Crop Insurance Policy Regulations Basic Provisions, including the Catastrophic	
	Risk Protection Endorsement; the Area Risk Protection Insurance Regulations	
	Basic Provisions; the Stacked Income Protection Plan of Insurance; the Rainfall	
	Index Plan; and the Whole-Farm Revenue Protection Pilot Policy.	
LAM	This handbook provides the official FCIC-approved general loss adjustment	
	standards for all levels of insurance provided under FCIC unless a publication	
	specifies that none or only specified parts of this handbook apply.	

- (1) Terms, abbreviations, and definitions general (not crop specific) to loss adjustment are identified in the GSH and the LAM.
- (2) Terms, abbreviations, and definitions specific to popcorn loss adjustment and this handbook are in <u>Exhibit 1</u> and <u>Exhibit 2</u>, herein.

E. CAT Coverage

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

F. Irrigated Practice

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

2 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 and completion instructions in <u>Exhibits 3</u>, <u>Exhibit 4</u>, <u>Exhibit 5</u>, <u>Exhibit 6</u>, and <u>Exhibit 7</u> are the minimum requirements for the Popcorn Appraisal Worksheet and PW. All entry items are "Substantive" (they are required).
- (2) The Privacy Act and Non-Discrimination statements are required statements. These required statements are not shown on the example form(s) in the exhibits. See the DSSH for the required statements requirements and current language.
- (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."
- (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.

3-10 Reserved

PART 2: POLICY INFORMATION

The AIP determines the insured has complied with all policy provisions of the insurance policy. 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 AD, 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.

11 Insurability (Continued)

- (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 **policy** 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) Mature 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.

A. General Information (Continued)

- (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.
- (5) 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 17.
 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.

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:

- 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, times the insured's share in the crop.

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. \times 20%) = 400 lbs. \times \$0.10 (price election) \times 1.000 (share) = \$40.00 150 pounds (maximum lbs. allowed in policy) \times \$0.10 (price election) \times 1.000 (share) = \$15.00

The lesser of \$15.00, \$14.00, and \$40.00 is \$14.00

Actual 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. \times 20%) = 400 lbs. \times \$0.10 (price election) \times .500 (share) = \$20.00 150 pounds (maximum lbs. allowed in the policy) \times \$0.10 (price election) \times .500 (share) = \$7.50

The lesser of \$7.00, \$20.00, and \$7.50 is \$7.00

Actual 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

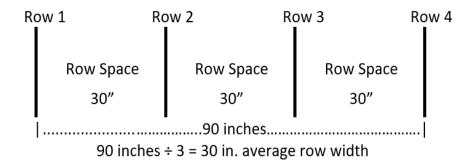
- (1) Split the field into subfields when:
 - (a) variable damage causes the crop potential to appear to be significantly different within the same field; or
 - (b) the insured wishes to destroy a portion of a field.
- (2) Each field or subfield must be appraised separately.
- (3) Take not less than 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 <u>Exhibit 9</u> to determine the length of row 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 20, Figure A):

34 Stages of Growth (Continued)

- (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 <u>Exhibit 19</u> 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) From the beginning of the 11th leaf stage through the 17th leaf stage, the "Stand Reduction Chart" is used to determine the percent of potential remaining (Exhibit 11).
- (5) From the beginning of the 18th leaf stage to the milk stage, the yield and stand reductions are on a one-to-one ratio.

Example: 80 percent stand = 80 percent potential.

(6) 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 12) is used to determine percent of damage due to stand reduction.
 - (ii) From the beginning of the 11th leaf stage through the 17th leaf stage, the "Stand Reduction Chart" is used to determine the percent of potential remaining (Exhibit 13). ***

C. Hail Damage (Continued)

(iii) From the beginning of the 18th leaf stage to the milk 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.
- (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 × 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

C. Hail Damage (Continued)

- (e) divide by the number of leaves to determine the average percent. Apply the percent to the Leaf Loss table (<u>Exhibit 14</u>).
- (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.

- (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 15), to obtain the modified stage for use with the Leaf Loss chart (Exhibit 14).
- (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 20, Figure C.

D. Maturity Line Weight (Continued)

- (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 20, 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.

Ε. 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.
 - 1/1000 acre, if potential appears to be in excess of 500 pounds per acre. (b)
- (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.

D. Maturity Line Weight (Continued)

(b) Apply weight to Exhibit 16 to arrive at shelling percent factor. If weight of shelled popcorn is not listed in Exhibit 16, divide the weight from (a) above by 5 and round to two decimals.

36 Deviations and Modifications

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 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.

(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).
- (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.

STAGE	DAYS TO MILK STAGE
5 th leaf	73
8 th leaf	64
10 th leaf	58

- (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) 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 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 <u>Exhibits 3</u>, <u>Exhibit 4</u>, <u>Exhibit 5</u>, and <u>Exhibit 6</u>. Example appraisal worksheets are also provided to illustrate how to complete item entries.
- (6) For all zero appraisals, refer to the LAM.

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

EXHIBITS

Exhibit 1 Acronyms and Abbreviations

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

Approved Acronym/Abbreviation	Term
AD	Actuarial Documents
AIP	Approved Insurance Provider
APH	Actual Production History
ВР	Basic Provisions
CAT	Catastrophic Risk Protection
CIH	Crop Insurance Handbook
COL	Cause of Loss
CLU	FSA Common Land Unit
СР	Crop Provisions
DF	Discount Factor
DSSH	Document and Supplemental Standards Handbook
FAD	Final Agency Determination
FDA	Food and Drug Administration
FCIC	Federal Crop Insurance Corporation
FGIS	Federal Grain Inspection Service
FSA	Farm Service Agency
GSH	General Standards Handbook
LAM	Loss Adjustment Manual
OPI	Office of Primary Interest
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

Exhibit 2 Definitions

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

<u>Merchantable Popcorn</u>: Popcorn that meets the provisions of the processor contract.

Exhibit 3 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.

El	ement/Item Number	Description
Comp	oany	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	Determine by counting the potential (living, dead, missing, and non-
	Population 1/100 acre	emerged) plants in a length of row equivalent to 1/100 acre, rounded to the
		nearest multiple of ten.
12.	No. of Surviving Plants	Number of surviving plants in the same sample.
	1/100 Acre	
13.	Percent of Stand	Make no entry.
14.	Round Col. 13 to	Make no entry.
	nearest 5 percent	
15.	Percent of Potential	Enter percent of potential as follows:
		(1) Determine stage of growth at time of damage and enter in item 19.
		(2) Before 11 th leaf stage, use Stand Reduction (Exhibit 10) and enter
		(2) Before 11 th leaf stage, use Stand Reduction (<u>Exhibit 10</u>) and enter percent potential to nearest whole percent, after interpolating.
		percent potential to hearest whole percent, after interpolating.
		(3) From the beginning of the 11 th leaf stage through the 17 th leaf stage,
		the "Stand Reduction Chart" is used to determine the percent of
		potential remaining (Exhibit 11).

Exhibit 3 Form Standards – Appraisal Worksheet for Stand Reduction (Continued)

El	ement/Item Number	Description	
15.	Percent of Potential	(4) From the beginning of the 18 th leaf stage to the milk stage, the yield	
	(Continued)	and stand reductions are on a one-to-one ratio.	

		Example: 80 percent stand = 80 percent potential.	
16.	Base Yield	Repeat entry from item 9.	
17.	Appraisal for Sample	Result, to rounded 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	Stage of growth at time of damage (refer to Paragraph 34).	
	Time of Damage		
20.	Total Appraisals for all	Repeat entry from item 18.	
	Samples		
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 Calculations	Remarks pertinent to the appraisal, sampling, and conditions in general	
		(e.g., very hot and dry), etc.	

The following required 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.
24.	and Date	Before obtaining insured's signature, review all entries on the appraisal
	and Date	
		worksheet with the insured, (or insured's authorized representative)
		particularly explaining codes, etc., which may not be readily understood.
25.	Adjuster's Signature,	Signature of adjuster, code number, and date signed after the insured (or
	Code No., and Date	insured's authorized representative) has signed. If the appraisal is
		performed prior to signature date, document the date of appraisal in the
		Remarks/Narrative 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, Page 2 of 2, etc.)

FOR ILLUSTRATION PURPOSES ONLY STAND REDUCTION			ANY COMPANY		1. II	NSURED'S NA	2. POLICY NUMBER			
						I.M. INSURED				XXXXXXX
			3. UNIT NO.	CLAIM NUMBER		4. CROP				5. CROP YEAR YYYY
A	PPRAISAL WO	RKSHEET	0001-0001BU	XXXXXXX		POF		PCORN		
(Corn and Grain Sorghum, HYBRID SEED CORN, HYBRID SORGHUM SEED POPCORN)			6. FSA FARM NO.	7. FIELD NO.	NO.	OF ACRES	8. ROW WIDTH		9. BASE YIEL	IELD
			106			80.0	30	30"		2000
OMPUTA		EU BUBCUBNI	200							
	NORMAL PLANT POPULATION 1/100 ACRE		HYBRID SORGHUM SEED AND GRAIN SORGHUM ONLY							
SAMPLE NO. 10	11	NO. OF SURVIVING PLANTS 1/100 ACRE 12	PERCENT OF STAND 13	ROUND COL. 1: NEAREST 5 PERCENT 14	5	PERCEN POTENT 15		BASE YIELD 16		APPRAISAL FOR SAMPLE (COL. 15 X 16) 17
1	220	36			33	37	I X	x 2000		= 740
2	220	32				34	X	0 020000		= 680
3	220	23				27	$\frac{1}{x}$	2	000	= 540
4	220	42			33	41	X	x 2000		= 820
5	220	51				47	x	2	000	940 =
6		(c) (c)				()	X			 =
7			0	~ I"			X			=
8	After 10 th l	eaf stage, percent pot	ential is in direct prop	ortion to percent s	tand: C	col. 12 ÷ Col. 1	1 X			=
9			10				X			=
10			1		33		X X			=
11							X			_
12			1				l X			=
O STACE	OF GROWTH AT T	INE OF DANAGE	20. TOTAL APPRAIS	ALS FOR ALL TO-	NO.	OF SAMPLES	1.	oo anno	18. TOTAL	3720
s. STAGE	OF GROWINAL II	INC OF DAMAGE	SAMPLES	ALS FUR ALL 21	. NU. (JF BAMPLES	1	ZZ. APPR	MIDAL PEK	ACKETTIELD
	8 th Lea	f	3720	÷		5	=		744	LBS.

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

Exhibit 4 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.

El	ement/Item Number	Description					
	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 Leaves	Make no entry.					
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 Plants	Normal plant population (original stand) – determine by counting the					
	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 Acre	accurately counted, complete item 13 and enter result of subtracting					
		remaining stand (item 13) from normal number of plants (item 11).					
13.	Remaining Stand No.	Determine the number of remaining plants or enter the result of					
	Plants 1/100 Acre	subtracting number of plants totally destroyed (item 12) from normal					
		number of plants (item 11).					
14.	% Damage from Stand	Determine and enter percent of damage (to whole percent).					
	Reduction ***	(4) From 7th the cook 40th leaf alone on "Unit Classed Book alice Land"					
		(1) From 7 th through 10 th leaf stages, use "Hail Stand Reduction Loss"					
		(Exhibit 12) based on entries in item 11 (normal number of plants)					
		and item 13 (remaining stand number of plants). Interpolate to					
		nearest whole percent.					

Exhibit 4 Form Standards – Appraisal Worksheet for Hail Damage (Continued)

Ele	ement/Item Number	Description					
14.	% Damage from Stand	(2) From the beginning of the 11 th leaf stage to the 17 th leaf stage, use					
	Reduction ***	"Hail Stand Reduction Loss" (Exhibit 13) based on entries in item 11					
		(normal number of plants) and item 13 (remaining stand number of					
		plants). Interpolate to nearest whole percent.					
		(3) From the beginning of the 18 th leaf stage to the milk stage, stand					
		reduction and yield are on a one-to-one ratio.					
		Example: 80 percent stand = 80 percent potential.					
15.	% Cripples (Corn Only)	Determine entry as follows (refer to sample on worksheet for calculations					
15.	70 Crippies (Corri Orily)	and Subparagraph 35 C (3) (b) for definition):					
		and <u>suspandings e (s) (s)</u> for definition).					
		(1) Count the number of cripples in 100 remaining live plants.					
		(2) Individually evaluate the ears on the crippled plants to determine the					
		gross damage from cripples.					
		(3) Multiply this gross percent times the remaining crop (100 - percent					
		damage from stand reduction table (item 14)) to obtain the net					
16.	% Ear Damage (Corn)	percent of damage. Round to nearest tenth. (1) If no ear damage – make no entry.					
10.	70 Lai Damage (Com)	(1) If no car damage make no chary.					
		(2) If ear damage:					
		(a) Select all ears from 10 consecutive representative plants.					
		(b) Determine the total number of kernels on all ears.					
		(c) 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.					
		(d) Delegation of condenses by a little to the					
		(d) 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.					
17.	Total Direct Damage	Sum of items 14, 15, and 16.					
18.	Potential Remaining	Result of subtracting entry in total direct damage (item 17) from 100.					
19.	% Leaf Area Destroyed	Determine and enter percent of leaf area destroyed.					
20.	% Damage for Leaf	Percent of damage for leaf destruction based on Exhibit 14, percent leaf					
	Destruction	area destroyed (items 19) and stage of plant growth at time of damage					
		(item 27), to nearest tenth percent.					

Exhibit 4 Form Standards – Appraisal Worksheet for Hail Damage (Continued)

Ele	ement/Item Number	Description
21.	Net Indirect Damage	Result (rounded to tenths) of multiplying potential remaining (item 18) by
		percent damage for leaf destruction (item 20).
22.	% Damage from Hail	Sum of total direct damage (item 17) and net indirect damage (item 21), to
		tenths.
23.	% Potential	Result (to tenths) of subtracting percent damage from hail (item 22) from
	Production Remaining	100 (to nearest tenth).
24.	Base Yield	Repeat the approved yield entry from item 9 (Base Yield).
25.	Appraisal For Sample	Result (rounded to whole pounds) of multiplying percent potential
		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 Growth	Stage of growth at time of damage.
	at Time of Damage	
28.	Total All Samples	Transfer entry from item 26.
29.	No. Samples	Total number of samples.
30.	Per Acre Appraisal Bu.	Result of dividing total all samples (item 28) by number of samples (item
		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 Signature and Date	Insured's (or insured's authorized representative's) 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, Code No. and Date	Signature of adjuster, code number, and date signed after the insured (or insured's authorized representative) has signed. If the appraisal is performed prior to signature date, document the date of appraisal in the Remarks/Narrative 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, Page 2 of 2, etc.)

			Co	mpan	y: A	Any Company						m No.	: XX	XXXXX	XΣ	
(FOR ILLUSTRATION PURPOSES ONLY) 1. INSURED'S NAI						RED'S NAME 2. POLICY NO.						HT NUMB	4. CROP			
HAIL DAMAGE						INSURED)		XXXXXXXX				01BU	POPCORN		
Α	APPRAISAL WORKSHEET 5. CROP YEAR					6. FSA I	FARM NO.	7. FIELD	7. FIELD NO. 8. ULTI			LTIMATE NO. OF LEAVES			9. BASE YIELD	
(0	orn and G	arain Son	ghum)	,	YYYY		106		Α					20	00	
COMPUT	TATIONS															
		0	· · ·								8					
SAMPLE NO.	NORMALNO. OF PLANTS 1/100 ACRE	NO. PLNTS TOTALLY DESTROYED 1/100 ACRE	REMAINING STAND NO. PLANTS	% DAMAAGE FROM STAND REDUCTION (CHART)	SCRIPLE (CORN ONLY)	% EAR DAMAGE (CORN) SCHEAD DAMAGE (GRAIN SORGHUM)	TOTAL DIRECT DAMAGE (14 = 15 = 16)	POTENTIAL REMAINING (100-17)	% LEAF AREA DESTROYED	% DAMAGE FOR LEAF DESTRUCTION (CHART)	NET INDRRECT 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				1	,											
7			_4		line.											
8																
9				1	p											
													6. TOTAL	29	30	
27. STAGE	OF PLANT 6	ROWTH AT	TIME OF DAM	MAGE		28. TOTAL	. ALL SAMPL	ES	29. NO. S	AMPLES		30. PER	ACRE APPRA	USAL		
7 TH leaf							2930	+		5	=	!	586			
31. REN																
Net percent cripple damage Percent						Percent		Perce	Percent Net Percent							
Sample Percent Damage				Damage		Rema			ipple							
Numbe 1			from cri; L6.8	pples x	plant 37	=	da 6.2	amage								
2	30		.67			20.1	x	39	=	7.8						
3	28		.67			18.8	х	39	=	7.3						
4 5	10 25		.67 .67			6.7 16.8	x	27 35	=	1.8 5.9						
-																

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

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.

El	lement/Item Number	Description
	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 Code	Circle "PEC" for ear popcorn.
8 1	9.	Make no entry.

PART II – MATURITY LINE WEIGHT METHOD (from milk stage until kernels are fully mature and moisture drops 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).							
25.	Total Weight All Sample Plots	Total of sample weights from all sample plots for that stage (to tenths).							
26.	Yield Factor	Use appropriate factor for fraction of an acre used.							

PART II – MATURITY LINE WEIGHT METHOD (from milk stage until kernels are fully mature and moisture drops below 40) (Continued).

El	ement/Item Number	Description
27.	Appraisal Per Stage	Result of multiplying Total Weight All Sample Plots (item 25) by 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 B (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 required entries are not illustrated on the Appraisal Worksheet example below.

31.	Insured's Signature, and Date	Insured's (or insured's authorized representative's) signature and date. Before obtaining the insured's signature, review all entries on the 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, Code No., and Date	Signature of adjuster, code number, and date signed after the insured (or insured's authorized representative) has signed. If the appraisal is 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.)

COMPANY		CLAIM NU		1. INS	URED'S NA			2. POLICY		000	3.	UNIT NO.	22011				7. CIRCLE APPRAISAL CODE and enter in Col. 10 Part 1		
Any Co	npany	XXXX	xx		I. IVI.	Insured			XXXX	LXXX		0002-000	J26U			GRAIN SOR			
4. CRO	P	5. CROP	YR.	6. FSA FAR	M NO.						YIELD	FACTOR				POPCORN-	POPCORN – (PEC) CORN SLAGE – CS		
PO	PCORN	Y	YYY	1	.00			OPCORN			co				ORGHUM	GRAIN SOR	GHUM, SILAGE – GSS		
							mple size sele imple size se					ed was 1/100 acre ed was 1/1000 acre.3			ed was 1/100 a ed was 1/1000				
					PART I - I	MATURE EA	AR CORN -	POPCORN	- HYBRID S	EED (CORN,	GRAIN SOR	SHUM) – GRAIN S	DRGHUM AND	SILAGE W	EIGHT METH	IOD			
	ACRES	KIND	FRACTION	\top						TOTAL W	EIGHT	NO. DF	AVG. SAME	LE	Т				
FIELD	IN	OF	OF				EACH BLO				SAMPLE	SAMPLE	WEIGHT P		YIELD	PER ACRE YIELD	I	TURE CORN	
ID 8	FIELD 9	APPR 10.	ACRE 11		POU	NDS PER SA	12	T TO TENT	HS	'	LOTS 13	PLOTS 14	FIELD 15	'	ACTOR 16	(CIRCLE ONE)	IRCLE ONE) POPCO 17 GRAIN 5		
								\top						dla.		BUSHELS		T/FACTOR	
				-	-		+	+	+	-		÷	/	×	-	TONS	18. MOISTURE	19. SHELLING	
												+		4		POUNDS		T/FACTOR	
										'). <u> </u>		18. MOISTURE	19. SHELLING	
										ī		1 4	,		_	BUSHELS	_		
												7		4				T/FACTOR	
				-	+	_	+	+-	+-	-	_	6.)		ж	-	BUSHELS TONS	18. MOISTURE	19. SHELLING	
													7			POUNDS			
		FRAC-	1						Plot to Tent		ilk stage unt	til kernels are fully TOTAL WEIG			ops below 4 D FACTOR	0%)	REPRESENTATIVE SAN	APLES .	
FIELD		TION OF						24				_ 1.7	SAMPL	E		26	APPRAISAL	(Popc	
ID 20	STAGE 22	ACRE 23	Plot 1	Plat 2	Plot 3	Plat 4	Plat 5	Plot 6	Plot 7	Plot 8	Plot 9	PLOTS 25		Corn	Popcorn	PER STAGE 27	1. 1/100 acre if po	otential appears to	
	1/4	1/100	6.1	6.1 3.3	3.3	0.0	0.0		1			12.7		1.148	40.0		be 500 lbs./acro		
С			+	-	-	+	-	-	1		_	_	- х					1/1000 acre if potential appears to be in excess of 500 lbs./acre.	
		1/1000		_		-	-	4			1		-	11.48	400.0	+	DEBOFFFNIAT	INC CANADI CC	
Acreage in Field to	1/2	1/100	7.1	6.5	4.4	5.2	6.3					29.5	'	1.057	42.0	= 1239		REPRESENTATIVE SAMPLES (Corn, Grain Sorghum)	
tenths 21	/2	1/1000										- I	^	10.57	420.0	1	1. 1/100 acre if no	otential appears to	
		1/100	6.9	4.1	3.2	0.0	0.0					14.2		1.009	45.0	+	be 20 bushels/a	acre or less.	
20.0	3/4		+			-	0.0	-	-	-	 		- х		_	- 639	 1/1000 acre if potential appear be in excess of 20 bushels/acre 		
		1/1000	3.5	0.0		0.0			_					10.09	450.0	+			
	Doughy	1/100	3.5	0.0	0.0	0.0	0.0		+	<u> </u>	 	3.5	×	1.052	47.0	= 165			
	Duagny	1/1000										Ī		10.52	470.0	+			
		1/100									<u> </u>	'	'	1.187	59.0	'			
													х				TOTAL NO. REP. SAMPLE PLOTS	ACRE APPRAISAL	
	Extended	1/1000										-		11.87	590.0		29	30	
												<u> </u>				-			
The fo	ur etaes	e eka	n abass	oro f	or iller	ctrotic	n n::==	0505 -	ndu Mi	rmall:	nonce	en is in and	v +w+-			28 TOTAL APPR. ALL	I	I	
The To	ur stage	2 2110W	ii above	are t	or mu	stratio	ıı purp	oses o	my. N	nmany	, popco	rn is in onl	y two sta	iges.		STAGES	5	510	
																2551			

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

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 Number	Description
	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 Code	Circle "PEC" for ear popcorn.

Part I – Weight Method

Use 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 Plots	Number of sample plots.
15.	Avg. Sample Weight	Result, rounded to tenths, of dividing total weight of all samples (item 13)
	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.

Exhibit 6 Form Standards – Appraisal Worksheet for Weight (Continued)

El	ement/Item Number	Description					
19.	Shelling	Shelling percentage factor (to whole percent).					
		To determine shelling percentage for ear popcorn:					
		(1) Husk 5 lbs. of ear popcorn.					
		(2) Shell all ears and weigh grain.					
		(3) Apply weight to Exhibit 16, column (3) to get shelling percent.					
		(4) 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 Signature,	Insured's (or insured's authorized representative's) signature and date.
	and Date	Before obtaining the 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.
32.	Adjuster's Signature,	Signature of adjuster, code number, and date signed after the insured (or
	Code No., and Date	insured's authorized representative) has signed. If the appraisal is
		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 ILL	USTRATION	PURPOSES	ONLY)	,	WEIGHT	METHOD	APPRAIS	AL											
COMPAN				NUMBER XXXXX		1		RED'S NA	ME		DLICY NO.	3		UNIT NO				7. CIRCLE APPRA and enter in Col. GRAIN SORGHUM — EAR CORN — EC POPCORN — (PEC) CORN SILAGE — CS GRAIN SORGHUM, S	10 Part 1 GS
4. CROI	P. PCORN	5. CROP Y	YYY		106	1000 if	ample size se sample size	OPCORN elected was selected was	1/1000 a	cre 14.3 if sa	mple size select mple size select	ted was 1/100	acre 0 acre.3	13.4 if sar	mple size sele	GRAIN SORG	cre acre		
					PART I – I	MATURE EA	R CORN -	POPCORN	– HYBRII	D SEED (CORN	, GRAIN SOR	GHUM) – GF	RAIN SO	ORGHUM A	ND SILAGE	WEIGHT METH	OD		
FIELD ID 8	ACRES IN FIELD 9	KIND OF APPR 10.	FRACTION OF ACRE 11	4.3	POUI	RECORD IN NDS PER SA	MPLE PLOT	T TO TENTH		AL	VEIGHT L SAMPLE PLOTS 13	NO. C SAMP PLOT 14	LE	AVG. SA WEIGH FIEL 15	T PER .D	YIELD FACTOR 16	PER ACRE YIELD (CIRCLE ONE) 17	FOR MATE POPCOS GRAIN SO PERCENT	RN AND DRGHUM /FACTOR
В	10.0	PEC	1/100	4.3	0.2		5.5	3.0		- <u>-</u>	24.5	÷ 5	4	= 4.9	9 x	100 =	TONS (POUNDS)	18. MOISTURE 20.5	19. SHELLING 80
										- <u>=</u> 	-		7		x	=	BUSHELS	PERCENT 18. MOISTURE	19. SHELLING
										DD (For ear co	n until kerne						_	L	
FIELD ID 20	STAGE 22	FRAC- TION OF ACRE 23	Plot 1	Plot 2	Plot 3	ech Block th	24 Plot 5	Plot 6	Plot to 1	Plot 8	Plot 9		SAMPLI PLOTS 25		Corr	26 Popcorn	APPRAISAL PER STAGE 27	REPRESENTATIVE SAM (Popco	orn)
	1/4	1/100	11012	11012	11003	11004	1.023	1.02.0	, ,,,,,	10.0					1.14	<u> </u>	-	500 lbs./acre or less. 2. 1/1000 acre if pot	
	1/4	1/1000						. 1							11.4	3 400.0	<u>-</u> 	be in excess of 500	
Acreage in Field to tenths	1/2	1/100					_							x	1.05		=	REPRESENTATIV (Corn, Grain)	
21		1/1000										<u> </u>			10.5	7 420.0		1/100 acre if potes	ntial appears to be
	3/4	1/100							·			·		×	1.00	45.0	=	20 bushels/acre or less.	
		1/1000						1				-			10.0	450.0	1	 1/1000 acre if pot be in excess of 20 	
	Doughy	1/100										' <u> </u>		x	1.05	+	=		
	Doughy	1/1000										Ī—			10.5	+	+		
	Extended	1/1000										=			1.18		=	TOTAL NO. REP. SAMPLE PLOTS 29	ACRE APPRAISAL 30
REMARKS:	This form example does not illustrate all required entry items (e.g., signatures, dates, etc.). 28 TOTAL APPR. ALL STAGES +						÷ :	=											

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.

E	lement/Item Number	Description
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).

El	ement/Item Number		Descript	tion			
6.	Insured Cause %	Preliminary: Make no entry.					
		Replant and Final: Whole damage listed in item 5 a extra spaces, as needed. determined "Insured Cau The total of all "Insured C must equal 100%.	bove. Enter ad If additional sp se %" in the Na	ditional "Insur ace is needed rrative (or on	red Cause %" in the , enter the additional a Special Report).		
		If there is no insurable CC completed, make no entr		emnity due cl	aim will be		
		Example entries for items multiple dates of damage insured cause percent:			_		
		4. Date(s) of Damage	MAY	JUNE	AUG		
		5. Causes of Damage	Excess Moisture	Hail	Drought		
		6. Insured Cause(s) %	40	20	30		
		Narrative: Additional dat Insured cause percent – 1	-	Sep 5; Cause o	of Damage – Freeze;		
7.	Company/Agency	Name of company and ag	ency servicing	the <mark>policy</mark> .			
8.	Name of Insured	Name of the insured that whom the policy is issued		tly the person	(legal entity) to		
9.	Claim #	Claim number as assigned	by the AIP.				
10.	Policy #	Insured's assigned policy					
11.	Crop Year	Four-digit crop year, as de	efined in the po	olicy, for which	n the claim is filed.		
12.	Additional Units	Preliminary and Replant:	Make no entr	у.			
		Final: Unit number(s) for inspection. A non-loss un completed. Additional no	it is any unit fo	r which a PW	has not been		
		If more spaces are neede identified as "Non-Loss U Report.					

El	ement/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 Loss	Preliminary:
	()	
		(1) Date the first or second notice of damage or loss was given for the unit in item 2, in the 1 st or 2 nd space, as applicable. Enter the complete date (MM/DD/YYYY) for each notice.
		(2) 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 1 st space of item 14 on the second set of PWs.
		(3) Reserve the "Final" space on the first page of the first set of PWs for the date of notice for the final inspection.
		(4) If the inspection is initiated by the AIP, enter "Company Insp." instead of the date.
		(5) If the notice does not require an inspection, document as directed in the Narrative instructions.
		Replant and Final: Transfer the last date (in the 1 st or 2 nd 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.

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

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.

El	ement/Item Number	Description
16.	Field 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.	Multi-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.	Reported 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.	Determined 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:
		(1) put to other use without consent;
		(2) abandoned;
		(3) damaged by uninsured causes; or
		(4) 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.
		(1) 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.
		(2) Account for all planted acreage in the unit.

Е	lement/Item Number	Description
19.	Determined Acres	Preliminary and Final: Determined acres to tenths.
	(Continued)	Acreage breakdowns within a unit or field may be estimated (refer to the
		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 entered exactly as specified on the AD for the type grown by the insured. If "No Type Specified" is shown in the AD, enter the appropriate three-digit code from the AD (e.g., 997). If a type is not specified on the AD, make no entry.
23.	Class	Three-digit code, entered exactly as specified on the AD for the class grown by the insured. If "No Class Specified" is shown in the AD, enter the appropriate three-digit code from the AD (e.g., 997). If a class is not specified on the AD, make no entry.
24.	Sub-Class	Three-digit code, entered exactly as specified on the AD for the sub-class grown by the insured. If "No Sub-Class Specified," is shown in the AD, enter the appropriate three-digit code from the AD (e.g., 997). If a sub-class is not specified on the AD, make no entry.
25.	Intended Use	Three-digit code, entered exactly as specified on the AD for the intended use of the crop grown by the insured. If "No Intended Use Specified" is shown in the AD, enter the appropriate three-digit code from the AD (e.g., 997). If an intended use is not specified on the AD, make no entry.
26.	Irr. Practice	Three-digit code, entered exactly as specified on the AD for the irrigated practice carried out by the insured. If "No Irrigated Practice Specified" is shown in the AD, enter the appropriate three-digit code from the AD (e.g., 997). If an irrigated practice is not specified on the AD, make no entry.

_	Exhibit 7			
	27.	lemen Cro		
	28.	Org		
	29.	Stag		

El	ement/Item Number		Description
27.	Cropping Practice	practice (or practice) ca Specified" or "No Pract	red exactly as specified on the AD for the cropping arried out by the insured. If "No Cropping Practice tice Specified" is shown in the AD, enter the code from the AD (e.g., 997). If a cropping practice AD, make no entry.
28.	Organic Practice	practice carried out by shown in the AD, enter	red exactly as specified on the AD for the organic the insured. If "No Organic Practice Specified" is the appropriate three-digit code from the AD (e.g., ctice is not specified on the AD, make no entry.
29.	Stage	Preliminary: Make no	entry.
		Replant: Replant stage	e abbreviation as shown below.
		Stage	Explanation
		"R"	Acreage replanted and qualifying for replanting payment.
		"NR"	Acreage not replanted.
		"RN"	Acreage replanted and not qualified for a replanting payment.
		Final: Stage abbreviati	on as shown below.
		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.
		"H"	Harvested.
		"UH"	Unharvested or put to other use with consent.
		"TZ"	UUF/Third Party Damage – Zero production on same acreage.
		"TA"	UUF/Third Party Damage – Appraised production on same acreage.

El	ement/Item Number	Description
29.	Stage (Continued)	"TH"UUF/Third Party Damage – Harvested production on same acreage.
		Prevented Planting: Refer to the PPSH for proper codes for any eligible prevented planting acreage.
		Gleaned Acreage: Refer to the LAM for information on gleaning.
30.	Use of Acreage	Use of acreage. Use the following "Intended Use" abbreviations.
		Use Explanation
		"Replant" Acreage replanted.
		"Not Replanted" Acreage not replanted.
		"To soybeans, etc." Other use made of the acreage.
		"WOC" Other use without consent.
		"SU"Solely uninsured.
		"ABA" Abandoned without consent.
		"H" Harvested.
		"UH" Unharvested.
		Prevented Planting: Refer to the PPSH for proper codes for any eligible prevented planting acreage.
		Gleaned Acreage: Refer to the LAM for information on gleaning.
31.	Appraised Potential	Replant: Enter the pounds per acre allowed for replanting as 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.

Factor Shell %, Factor, or Value	Preliminary and Final: Moisture factor – For appraised mature grain production in excess of 15.0 percent, obtain factor from Exhibit 17. Replant: Make no entry. Preliminary and Final: If a Weight Method appraisal is made, enter the shelling percentage factor rounded to a two-place decimal (Refer to Exhibit 16). 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
	production in excess of 15.0 percent, obtain factor from Exhibit 17. Replant: Make no entry. Preliminary and Final: If a Weight Method appraisal is made, enter the shelling percentage factor rounded to a two-place decimal (Refer to Exhibit 16). Popcorn production is measured in pounds, therefore, the 0.4 volume to bushel factor is not used when using the Weight Method appraisal. It
	production in excess of 15.0 percent, obtain factor from Exhibit 17. Replant: Make no entry. Preliminary and Final: If a Weight Method appraisal is made, enter the shelling percentage factor rounded to a two-place decimal (Refer to Exhibit 16). Popcorn production is measured in pounds, therefore, the 0.4 volume to bushel factor is not used when using the Weight Method appraisal. It
	Preliminary and Final: If a Weight Method appraisal is made, enter the shelling percentage factor rounded to a two-place decimal (Refer to Exhibit 16). Popcorn production is measured in pounds, therefore, the 0.4 volume to bushel factor is not used when using the Weight Method appraisal. It
	Preliminary and Final: If a Weight Method appraisal is made, enter the shelling percentage factor rounded to a two-place decimal (Refer to Exhibit 16). Popcorn production is measured in pounds, therefore, the 0.4 volume to bushel factor is not used when using the Weight Method appraisal. It
Value	shelling percentage factor rounded to a two-place decimal (Refer to Exhibit 16). Popcorn production is measured in pounds, therefore, the 0.4 volume to bushel factor is not used when using the Weight Method appraisal. It
	shelling percentage factor rounded to a two-place decimal (Refer to Exhibit 16). Popcorn production is measured in pounds, therefore, the 0.4 volume to bushel factor is not used when using the Weight Method appraisal. It
	16). Popcorn production is measured in pounds, therefore, the 0.4 volume to bushel factor is not used when using the Weight Method appraisal. It
	to bushel factor is not used when using the Weight Method appraisal. It
	actual shelling percentage as specified in (Exhibit 16, column (4)).
Production Pre QA	Replant: Enter the result of multiplying column 31 times column 19
	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
Ovelity Feeten	pounds. If no entry in column 31, make no entry.
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 rounded to three decimal places.
Production Post QA	Replant: Transfer the entry in item 34.
	Bushing and Final, Booult of multiplying column 24 times column 25
	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.
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.
	(1) Hail and Fire Exclusion not in effect.
	(a) 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.
	Quality Factor Production Post QA

Element/Item Number	Description
37. Uninsured Cause (Continued)	(b) 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.
	(c) 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.
	(2) 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.
	(3) Refer to the LAM when a Hail and Fire Exclusion is in effect and damage is from hail or fire.
	(4) Enter the result of adding uninsured cause appraisals to hail and fire exclusion appraisals.
	(5) 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.
	Replant and Final: Total determined acres (column 19), to tenths.

Element/Item Number	Description										
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 Conditions:										
	Test Weight (TW)										
	Kernel Damage (KD) and Total Defects										
	Garlicky (Grade)										
	Aflatoxin										
	Vomitoxin										
	Fumonisin										
	Dark Roast (for Sunflowers only)										
	Sclerotinia (for Sunflowers only)										
	Ergoty (Grade)										
	COFO (commercially objectionable foreign odor) (includes Musty and Sour Odor)										
	Other										
	None										
	(1) For all qualifying QA conditions checked, in the Narrative (or on a Special Report):										
	(a) 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										
	(b) 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).										

Exhibit 7 Form Standards – Production Worksheet (Continued)

El	ement/Item Number	Description
40.	Quality (Continued)	 (2) If "Other" is checked, in addition to the above documentation requirements, document in the Narrative (or on a Special Report): (a) A description of the qualifying QA condition; and (b) If applicable, the name of the controlling authority that considers this qualifying QA condition to be injurious to human or animal health and why. (3) Check "None" if none of the production qualifies for QA.
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: (1) sold, document the name and address of the buyer; or (2) 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.

- 1 If no acreage is released on the unit, enter "No acreage released," adjuster's initials, and date.
- 2. 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.
- 3. Explain any uninsured causes, unusual, or controversial cases.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. Explain any errors found on the Summary of Coverage.
- 8. Explain any commingled production. Refer to the LAM.
- 9. 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).
- 10. Explain a "No" checked in item 44.
- 11. Attach a sketch map or aerial photo to identify the total unit:
 - (a) if consent is or has been given to put part of the unit to another use or to replant;
 - (b) if acreage has been replanted to a practice uninsurable as an original practice;
 - (c) if uninsured causes are present; or
 - (d) 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.

Narrative Instructions (Continued)

- 12. 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.
- 13. 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.
- 14. Explain the reason for a "No Indemnity Due" claim. "No Indemnity Due" claims are to be distributed in accordance with the AIP's instructions.
- 15. Explain any delayed notices or delayed claims as instructed in the LAM.
- 16. Document any authorized estimated acres, as instructed in the LAM, shown in Section I, column 19.
- 17. Document the method and calculation used to determine acres for the unit. Refer to the LAM.
- 18. 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.
- 19. 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.
- 20. 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.
- 21. 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.
- 22. For production that qualifies for QA (supporting documentation should be included in the insured's claim file):
 - (a) Explain any ".000" QA factor entered in Section I, column 35 and Section II, column 65.
 - (b) Explain any deficiencies, substances, or conditions that are allowed for QA, as well as any which were not allowed.
 - (c) If mycotoxins are present, document the level based on laboratory test results.
 - (d) 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.
 - (e) Document the DFs or the RIVs and Local Market Price, as applicable, used in establishing the QA factor for mature appraised or harvested production.

Narrative Instructions (Continued)

- (f) Refer to the LAM for documentation requirements when any excess transportation costs or conditioning costs are included in the QA factor.
- (g) Document all calculations used in determining QA factors.
- (h) Refer to the LAM for additional documentation requirements.
- 23. 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.
- 24. Document the name and address of the charitable organization when gleaned acreage is applicable. Refer to the LAM for more information on gleaning.
- 25. 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.

Exhibit 7 Form Standards – Production Worksheet (Continued)

El	ement/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	(1) The earlier of the date the entire acreage on the unit was (1)										
	to the LAM.)	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.										
		the calcinal date for the end of the insurance period.										
		(2) 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."										
		(3) 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."										
		(4) 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.										
44.	Damage similar to	Preliminary: Make no entry.										
	other farms in the											
	area?	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	Check "Yes" only if an assignment of indemnity is in effect for the crop year;										
٦٥.	Indemnity	otherwise, check "No." Refer to the LAM.										
46.	Transfer of Right to	Check "Yes" only if a transfer of right to indemnity is in effect for the unit										
	Indemnity	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	(1) If only one practice and/or type of harvested production is listed in										
		Section I, make no entry.										
		(2) 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).										

Ele	ement/Item Number	Description
47b.	Field ID	(1) If only one practice and/or type of harvested production is listed in Section I, make no entry.
		(2) 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.
		(1) Length if rectangular or square.
		(2) 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.
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 Popcorn0.8
		Ground Shelled Popcorn0.7
		Ground Ear Popcorn0.6*
		Ear Popcorn0.4
		*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.

Exhibit 7 Form Standards – Production Worksheet (Continued)

E	lement/Item Number	Description
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:
		(1) 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.
		(2) Sold and/or stored in commercial storage – Obtain gross 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.)
		(3) 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.
		(4) For mycotoxin-infected popcorn, enter all production even if it has no market value.
57.	Shell/Sugar Factor	Shelling percentage for Ear popcorn production recorded in:
		(1) Gross weight from settlement sheets, or other weight records acceptable to the AIP, (column 56), enter shelling percentage from Exhibit 16 , 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."

El	ement/Item Number	Description
57.	Shell/Sugar Factor	(2) 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 16 , column (3), corrects the calculated production to reflect the shelling-percent deviation from the standard.
		(3) Volume/structure measurements (items B-E), enter the shelling factor from Exhibit 16, 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 17).
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.
60b.	Factor	For shelled popcorn, use the Combination Test Weight/Pack Factor – enter the factor from the appropriate table (Exhibit 18) 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) \times 1.135 (last available factor) \div 64 (last available test weight) = 1.153 factor.

Ele	ement/Item Number	Description
61.	Adjusted Production	The result of multiplying column $56 \times 57 \times 58b \times 59b$. (Round to nearest whole pound.)
		For farm stored shelled popcorn, the result of multiplying column $56 \times 57 \times 58b \times 59b \times 60b$. (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.
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 items 68 - 72. When separate line entries are made for varying share, stages, APH yields, projected price or harvest price, types, etc., within the unit, and totals need to be kept separate for calculating indemnities, make no entry and follow the AIP's instructions; otherwise, make the following entries.

El	ement/Item Number	Description
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 Continuit column 20 total
70.	Unit Total	Final: Enter figure from Section I, column 38 total. Preliminary and Replant: Make no entry.
70.	Offic Total	Fremminary and Replant. Wake 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.
73.	Insured's Signature	Insured's (or insured's authorized representative's) signature and date.
	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.
		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,	Signature of adjuster, code number, and date signed after the insured (or
	Code #, and Date	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
75	Dogo	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.)

NS

39. TOTAL

60.0

150.0

1.000

										PROD	UCTIO	N WOR	KSHE	ET										
 Cr 	op/Code	≘#	2. Unit#	3. Lo	cation De	escription	17	. Compa	iny		ANY	COMPAN	ΙY		8. Name	8. Name of Insured								
	POPC	ORN	0001-0001BU	J [Agency	,		A٨	IY AGENCY	1		I.M. INSURED									
	004	13			5W1-	96N-3W									9. Claim #	9. Claim# 11.					l1. Crop Year			
4. Da	ite(s) of	Damage	JUL												XXXXXXXXX YYYY									
5. Ca	use(s) o	f Damage	DROUGHT											10. Policy#										
6. In:	sured Ca	ause %	100												14. Date(s) 1	st		2nd	Fi	nal			
12. A	ddition	al Units	0002-0002BU	J											Notice of	Loss	MM/DI)/YYYY			MM/DD/	YYYY		
13. E	st. Prod	. Per Acre	2000												15. Comp	anion Poli	cy(s)							
SECT	ION I –	N I – DETERMINED ACREAGE APPRAISED, PRODUCTION AND ADJUSTMENTS																						
А. А	CTUAR	Agency ANY AGENCY SW1-96N-3W SW1-96N																						
16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.		- 33.	34.	35.	36.	37.	38.		
Field ID	Multi- Crop Code			or	Risk	Туре	Class	1				1 - 1	Stage		11	hk-	Factor, or	1		l	1 1	Total to Count		
А	NS		80.0	1.000		997					003		UH	PASTURED	744		-	59,520		59,520		59,520		
В	NS		10.0	1.000		997					003		UH	SILAGE	490		.80	3,661		3,661		3,661		

NARRATIVE (If more space is needed, attach a Special Report) Acres were determined using permanent field measurements.

Sclerotinia □ Ergoty □ CoFo □ Other □ None ⊠

40. Quality: TW □ KD □ Aflatoxin □ Vomitoxin □ Fumonisin □ Garlicky □ Dark Roast □

41. Mycotoxins exceed FDA, State or other health organization maximum limits. Yes

977

												p. T							
SECTIO	N II – I	DETERN	IINED F	IARVE	STED PR	ODUCTIO	N		7 1	- Y								•	
43. Dat	e Harve	st Comp	leted			44. Dama	ge similar	to other fa	rms in the	area?		45. As	signment of	f Indemnity		46.	Transfer of Righ	t to Indemnity?	
MM/DD/YYYY Yes X No									x No					Yes	No x		Yes	No x	7
A. MEASUREMENTS B. GROSS PRODUCTION										C. ADJUSTMENTS TO HARVESTED PRODUCTION									
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 Field ID	Crop	Length or Diameter	Width	Depth	Deduc- tion	Net Cubic Feet	Conver- sion Factor	Gross Prod.	Bu., Ton Ubs CWT	Shell/ Sugar Factor	FM% Factor	Moisture% Factor	Test WT Factor	Adjusted Production	Prod. Not to Count	Production Pre-QA	Value Mkt. Price	Quality Factor	Production to Count
	NS	AI	ACME E	LEVATOR					10,500	.80		15.5 .9940		8,350		8,350			8,350
	NS	10.0	10.0	9.0		900.0	.4	360.0	23,040	1.00		16.0 .9880	64	22,764		22,764			22,764
															67. TOTAL	31,114	68	. Section II Total	31,114
															'			9. Section Total	63,181
																		70. Unit Total	94.295

42. TOTALS

63,181

63,181

71. Allocated Prod.
 72. Total APH Prod.

63,181

94,295

										PROD	UCTION	WORKS	SHEET									
1. Cr	op/Code	≘#	2. Unit#	3. Loc	ation Desc	ription		7. Compa	any		ANY	COMPAN	Y		8. Name o	of Insured						
1. Crop/Code # POPCORN 0043 4. Date(s) of Damage 5. Cause(s) of Damage 6. Insured Cause % 12. Additional Units 13. Est. Prod. Per Acre SECTION I – DETERMINED A. ACTUARIAL 16. 17. 18. Field ID Code Reported Code Acres A		0001-0001BU	J				Agency	/		ANY	AGENCY			I.M. INSURED								
	004	13			SW1-96	5N-3W					_				9. Claim#				11. Cro	p Year		
4. Da	te(s) of	Damage	MAY 10													XXX	XXXXX			Y	YYY	
5. Ca	use(s) o	f Damage	FREEZE												Policy	#			XXXXXXXXXX			
												,			2nd	F	inal					
12. A							_							DD/YYYY			MM/DD/YYYY					
										15. Comp	anion Poli	cy(s)										
			ACREAGE API	PRAISED,	PRODUCT	ION AN	D ADJUS	TMENTS														
A. AC	TUARIA	\L													B. POTEN)					
16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	1	33.	34.	35.	36.	37.	38.
	Crop		Determined Acres	Interest or Share	Risk	Туре	Class	Sub- Class	Intended Use	Irr Practice		_	Stage			%	Shell %, Factor, or Value	Production Pre QA	Quality Factor	Production Post QA	Uninsured Causes	Total to Count
Α			25.0	1.000		997					003		R	REPLANTED	140			3500		3500		3500
В			25.0	1.000		997					003		NR									
		39. TOTAI	50.0	Sclero	ity: TW 🗆 otinia 🗆 otoxins ex	Ergoty [CoFo	□ Othe	er 🗆 Nor	ne 🗆		1.0		Roast 🗆		42	. TOTALS	3500		3500		3500

NARRATIVE (If more space is needed, attach a Special Report) The example above shows allowance when the actual cost is less than the maximum allowance. The insured's actual cost to replant was \$14.00 per acre with a price election of \$0.10 \$14.00 ÷\$0.10 = 140 lbs. x 25 acres replanted = 3,500 lbs. Acreage was determined using wheel measurements. Maximum allowed = \$15.00 (150 lbs. x \$0.10) See attached Special Report for wheel measurements.

*****		rements.									- 1				/							
SECT	ION I – E	DETERMINED	ACREAGE AP	PRAISED,	PRODU	CTION AN	D ADJUST	MENTS	. 1	1	· ·											
A. A	CTUARIA	AL.						- 4			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	Type	Class	Sub- Class	Intended Use	Irr Practice		Organic Practice	Stage	Use of Acreage	Appraised Potential	20	Shell %, Factor, or Value	Pre OA	Quality Factor	Production Post QA	Uninsured Causes	Total to Count
А			25.0	.500		997		1			003		R	REPLANTED	70			1750		1750		1750
В			25.0	.500		997					003		NR	NOT REPLANTED								
40. Quality: TW KD Aflatoxin Vomitoxin Fumonisin Garlicky 39. TOTAL 50.0 Sclerotinia Ergoty CoFo Other None 41. Mycotoxins exceed FDA, State or other health organization maximum limits? Y													Roast 🗆		42	. TOTALS	1750		1750		1750	

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.

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

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:

Example:

43,560 sq. ft./acre
$$\div$$
 25"
100 ft. $\frac{25"}{100 \text{ ft.}}$ $\frac{43,560 \text{ sq. ft.} \div 2.083}{100 \text{ ft.}} = \frac{20,912.146}{100 \text{ ft.}} = 209.121 \text{ ft. or } 209.1 \text{ ft. row length}$

Exhibit 10 Popcorn Stand Reduction – Percent of Potential Remaining for Emergence Through 10th leaf stage

Use from emergence through 10^{th} leaf stage. Interpolate as necessary and round to the nearest whole percent. (DO NOT USE AFTER 10^{TH} LEAF STAGE.)

			5		0										RE	MAI	NIN	G PLA	NTS	IN S	AMP	LE (1	/100) AC	RE	ι									,						
		390 38	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		
	400	100 10	99	98	98	97	97	97	96	95	94	92	91	89	87	86	84	82	80	78	76	74	72	69	67	64	61	58	55	52	48	43	37	31	24	19	14	10	5	400	
	390	100 10	100	99	98	97	97	97	96	95	94	93	91	89	87	86	84	82	80	78	76	74	72	69	67	65	62	59	56	53	49	44	38	32	25	20	15	10	5	390	
	380	10	100	99	99	98	98	97	96	95	94	93	91	89	87	86	84	82	80	78	76	74	72	69	67	65	62	59	56	53	49	44	39	33	26	21	16	10	5	380	
	370		100	100	99	99	98	97	96	95	94	93	92	90	88	86	84	82	80	78	76	74	72	69	67	65	62	59	56	53	49	44	39	34	27	22	16	11	5	370	
	360			100	100	99	99	98	97	96	94	93	93	91	89	87	85	83	81	78	76	74	72	69	67	65	62	59	56	53	50	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	55	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	55	51	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	61	57	53	48	44	39	33	27	21	15	9	310	
	300									100	99	98	97	96	95	94	93	91	89	88	86	83	80	77	75	72	69	66	63	59	55	50	45	40	34	29	23	17	11	300	
О	290										100	99	98	97	96	95	94	92	90	89	87	85	82	79	77	74	71	68	65	61	57	52	47	42	36	31	25	19	11	290	0
R	280											100	99	98	97	95	94	93	91	90	88	86	84	81	79	76	73	70	66	63	59	54	49	43	37	33	27	21	12	280	R
- 1	270												100	99	97	96	95	94	93	91	90	88	86	84	82	79	76	72	69	65	60	55	50	45	39	34	28	22	13	270	ı
G	260													100	99	97	96	95	94	93	91	90	88	86	84	81	78	75	71	67	62	57	52	47	41	36	30	23	14	260	G
- 1	250														100	99	98	97	96	94	93	92	90	88	86	83	80	77	73	69	64	59	54	49	43	37	30	23	15	250	ı
N	240															100	99	98	97	96	95	94	91	90	88	85	82	78	74	71	66	60	55	50	44	38	31	24	15	240	N
Α	230																100	99	98	97	96	95	92	91	89	86	83	79	75	71	67	61	56	51	45	38	31	24		230	Α
L	220																	100	99	98	97	96	93	92	90	87	84	80	76		67	62	57	52	46	40	33	25	16	220	L
	210																		100	99	98	96	94	93	91	88	84	80	76	73	68	63	58	53	47	41	34	25	16	210	
S	200		╛																	100	99	97	95	94	92	89	85	81	77	73	69	64	59	54	48	42			-	200	S
Т	190			MPL																	100	98	96	95	93	90	86	83	79	75	70	65	60	55	49	43	36	27	17	190	T
Α	180		_ To	inte				rema		· ·				_	al pla	nts						100	98	96	94	91	88	85	81	77	72	67	62	57	51	45	36	27	17	180	Α
N	170		_				_	inal p liffere					,										100	98	96	93	90	87	83	79	74	69	64	59	53	46	37	27	-	170	N
D	160				35	15.9		.9 x 7					10 4t); .										100	98	95	92	89	85	81	76	71	66	61	55	46	38	28	18	160	D
	150					31		6.3 =					37)												100	97	95	92	88	84	-	74	69	64	58	47	38	-	18	150	
	140									- (,													100	97	94	90	86	$\overline{}$	77	72	67	61	48	39	29	19	140	
	130		EXA	MPL	E: (F	or Re	mair	ning	Plant	ts of	0 – 1	0)															100		94	90	85	80	75	70	64	49	39	29		130	
	120		To	o inte	rpol	ate fo	or 6 r	rema	ining	plar	its an	d 24	0 ori	ginal	plar	ıts:												100	97	93	88	83	78	73	67	50	40	30	21	120	
	110		_				_	ginal		-																			100	97	92	88	83	78	72	51	40	30	-	110	
	100		_			6 is .	6 of 0	differ				0 ar	id 10	;																100	96	92	88	83	77	52	41	31	23	100	
	90							.6 x	15 (15-0) = 9																				100	96	92	87	81	53	41	31	24	90	
	80																															100	96	91	85	54	42	32	25	80	
	70																																100		91	55	42	-	26	70	
	60							_																										100		56	43	33	27	60	
	50							_																											100	57	43	33	28	50	
		390 38	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		

REMAINING PLANTS IN SAMPLE (1/100 ACRE)

Popcorn Stand Reduction – Percent of Potential Remaining for 11th Through 17th Leaf Growth Stages

REMAINING PLANTS IN SAMPLE (1/100th) ACRE	REMAINING	PLANTS IN SAN	/PLE (1/100th) ACRE
---	-----------	---------------	---------------------

	-					250		220		240	200															ACR		420	400	440	400			70			40			40	1	
Г	-	\rightarrow	_		360	_	_	_	-	_	_	_		_							$\overline{}$			_		$\overline{}$		$\overline{}$		-	-	_	_		60	50		30	20	10	\vdash	
H	400	\rightarrow	97	96	_	92		89	88	86	-	_	82	80	78		74	72	70		66	64	61	_	56	-	51	48	45	42	39	36	$\overline{}$	29	25	21	17	13	9	5	400	
	390 1	$\overline{}$	99	97	96	94		91	89	88	86	85	83	81			76	74	72	69	67	65	63	60	57		52	49	46	43	40	37		29	26	22	18	14	9	_	390	
	380	_	100	98		95		92	91	89	88	86	84	82		79	77	75	73	71	68	66	64	61	59		53	50	47	44	41	37	34		26	22	18	14	9	_	380	
	370	_		100	_	97	95	94	92	91	_	87	85	84	82	80	78	76	74	72	70	67	65	62	60		54	51	48	45	42	38		31	27	23	19	14	10		370	
	360	_			100			95	94	92	90	89	87	85	83	81	79	77	75	73	71	68	66	64	61		55	52	49	46	43		35		28	23		15	10	_	360	
_ F	350	\dashv				100		97	95	93	92	90	88	86			81	79	77	74	72	70	67	65	62			53	50	47	44	40			28	24	20	15	10	_	350	
	340						100	98	97	95	93	91	90	88			82	80	78	76	73	71	69	66	63	61					45	41			29	25		15	10		340	
	330	_						100	_	97	95	93	91			86	84	81	79	77	75	72	70	67	65	62	59	56	53	49	46	42			30	25		16		_	330	
	320	_							100		96	95	93	91			85	83	81	79	76	74	71	69	66	63	60	57	54		47	43			31	26		16		_	320	
	310									100		96	94	93			87	84	82	80	78	75	73	70	67		62	58	55	52	48	44	40			27	22		11		310	
	300	_									100	_	96	94		90	88	86	84	82	79	77	74	72	69		63	60	56	53	49	45	41		32	28			12	_	300	
	290	_										100	_	96			90	88	86	83	81	79	76	73	70		64	61	58	54	50	47	42		33	28			12	_	290	0
	280	\dashv											100			94	92		87	85	83	80	78	75	72		66		59	56	52	48			34	29		18	13	_	280	R
- F	270	_												100		96	94	91	89	87	84	82	79	77	74		68	64	61		53	49			35	30		19	13	_	270	ı
	260	_													100		96	93	91	89	86	84	81	78	76		69	66	63		55	51	46		37	31	26	20	14	_	260	G
	250	_																95	93	91	88	86		80	77		71	68	64		56	52	48		38	32	27	20	14	_	250	
	240																100		95	93	90	88	$\overline{}$	82	79	76		70	66			54	49		39	33		21	15	_	240	
	230	_																100		95	92		87		81		75	72	68		60		51		40	35			15	_	230	
	220	_																	100		95	92	89	86	84		77	74	70	66			53		42	36	30	23	16	8	220	L
	210	\dashv																		100						83		76	72	68	64	59	54	49	44	37		24	17	9	210	_
	200	\dashv																			100		94	91	88	85			74	70	66	61	56		45				17		200	s
	190	\dashv																				100	$\overline{}$	94	91		84	81		73	68	64	59	53	47	41			18	_	190	T
	180	_																					100	_	94	90		83	79	75	71	66	61	55	49	43	35		19	_	180	A
_	170	_																						100			90	86	82		73	69	63		51	45	37	29	20		170	N D
1	160	_																							100		93	89		81	76	71	66		54	47	39	31	21			U
_ H	150	_																								100		92	88		79	74			56	49	41	32	23		150	
	140	\dashv																									100	96	92	87	83				59	52	44	34	24	_	140	
- H	130	_																										100		91		81			63	55			26	_	130	
	120	_																											100		90		79			58	49		28		120	
	110	_																												100		89			70	62	53		30		110	
- 1	100	_																													100		88		74				32		100	
	90	_																															94						35	_	90	
	80																																100		85	76	66		39		80	
ļ	70	_																																100		83	72	59	44		70	
	60	_																																	100				49		60	
L	50	_																																	$\overline{}$	100	$\overline{}$	_	56	_	50	
	3	90	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		

REMAINING PLANTS IN SAMPLE (1/100th) ACRE

														RI	MA	ININ	IG P	LAN	TS IN	N SA	MPI	LE (1	/100) A(CRE															
	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	_
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	33	36	39	42	45	48	52	57	63	69	76	81	86	90	95 40	0
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	33	35	38	41	44	47	51	56	62	68	75	80	85	90	95 39	0
380		0	0	1	1	2	2	3	4	5	6	7	9	11	13	14	16	18	20	22	24	26	28	31	33	35	38	41	44	47	51	56	61	67	74	79	84	90	95 38	0
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	0
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	0
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	0
340						0	0	1	1	2	3	4	5	6	8	10	12	15	17	19	21	24		28		33		39	42	45	49	53	58	64	70	76	82	88	94 34	0
330							0	0	1	2	3	4	5	6	8	9	11	14	16	18	20	22	25	27	30	32	_	38	41	45	49	53	58	63	69	75	81	88	94 33	0
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	0
310								<u> </u>	0	1	2	3	4	5	6	7	8	10	12	14	16	19	21	24	27	30	33	36	39	43	47	52	56	61	67	73	79	85	91 31	.0
300										0	1	2	3	4	5	6	7	9	11	12	14	17	20	23	_	28		34	37	41	45	50	55	60	66	71	77	83	89 30	0
290								<u> </u>			0	1	2	3	4	5	6	8	10	11	13	15	18	21	23	26	29	32	35	39	43	48	53	58	64	69	75	81	89 29	0
R 280												0	1	2	3	5	6	7	9	10	12	14	16	19	21	24		30	34	37	41	46	51	57	63	67	73	79	88 28	0 1
270								<u> </u>					0	1	3	4	5	6	7	9	10	12	14	16	18	21	24	28	31	35	40	45	50	55	61	66	72	78	87 27	0
3 260														0	1	3	4	5	6	7	9	10	12	14	16	19		25	29	33	38	43	48	53	59	64	70	77	86 26	0
250															0	1	2	3	4	6	7	8	10	12	14	17	20	23	27	31	36	41	46	51	57	63	70	77	85 25	0
N 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 24	0 1
A 230																	0	1	2	3	4	5	8	9	11	14	17	21	25	29	33	39	44	49	55	62	69	76	85 23	0 /
220																		0	1	2	3	4	7	8	10	13	16	20	24	28	33	38	43	48	54	60	67	75	84 22	0
210								<u> </u>											0	1	2	4	6	7	9	12	16	20	24	27	32	37	42	47	53	59	66	75	84 21	.0
200																				0	1	3	5	6	8	11	15	19	23	27	31	36	41	46	52	58	65	74	83 20	0 :
190																					0	2	4	5	7	10	14	17	21	25	30	35	40	45	51	57	64	73	83 19	0
180]	EXA	MPI	LE: T	To in	terp	olat	e fo	r 89 i	rem	ainir	ng pl	ants	and	240)					0	2	4	6	9	12	15	19	23	28	33	38	43	49	55	64	73	83 18	0 /
N 170								ori	gina	l pla	nts												0	2	4	7	10	13	17	21	26	31	36	41	47	54	63	73	82 17	0
160					(2	236 0	origi	nal p	olant	s ro	unde	ed to	240	0):										0	2	5	8	11	15	19	24	29	34	39	45	54	62	72	82 16	0
150					89 i	s .9	of d	iffer	ence	bet	wee	n 90	and	80;											0	3	5	8	12	16	21	26	31	36	42	53	62	72	82 15	0
140							-	9 x 6	(40	- 34)	= 5.	.4														0	3	6	10	14	18	23	28	33	39	52	61	71	81 14	0
130					4	0 m	inus	5.4	= 34	.6 (r	oun	ded :	to 3	5)													0	3	6	10	15	20	25	30	36	51	61	71	81 13	0
120																												0	3	7	12	17	22	27	33	50	60	70	79 12	0
110										inin																			0	3	8	12	17	22	28	49	60	70	77 11	0
100] ⊤	o in	terp					_					_	nal p	lant	s:													0	4	8	12	17	23	48	59	69	77 10	0
90			To interpolate for 6 remaining plants and 240 original plants: (236 original plants rounded to 240)																											0	4	8	13	19	47	59	69	76 90	0	
80			6 is .6 of difference between 0 and 10;																												0	4	9	15	46	58	68	75 80	0	
70			.6 x 15 (100 – 85) = 9																													0	4	9	45	58	68	74 70	0	
60																																		0	5		$\overline{}$		73 60	_
50																																					$\overline{}$		72 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	

REMAINING PLANTS IN SAMPLE (1/100) ACRE

Use from 7th through 10th leaf stage. Interpolate as necessary and round to the nearest whole percent. (Do not use after 10th leaf stage.)

0	(
0	١
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0	(
0	
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0	1
0	

																						AMP																			
		390	380	370	360	350	340	330	320	310	300	290	280	270	260									170							100		80	70	60	50	40	30	20	10	
	400	1	3	4	6	8	9	11	12	14	15	17	18	20	22	24	26	28	30	32	34	36	39	41	44	46	49	52	55	58	61	64	68	71	75	79	83	87	91	95	400
	390	0	1	3	4	6	7	9	11	12	14	15	17	19	21	23	24	26	28	31	33	35	37	40	43	45	48	51	54	57	60	63	67	71	74	78	82	86	91	95	390
	380		0	2	3	5	6	8	9	11	12	14	16	18	19	21	23	25	27	29	32	34	36	39	41	44	47	50	53	56	59	63	66	70	74	78	82	86	91	95	380
	370			0	2	3	5	6	8	9	11	13	15	16	18	20	22	24	26	28	30	33	35	38	40	43	46	49	52	55		62	65	69	73	77	81	86	90	95	370
	360				0	2	3	5	6	8	10	11	13	15	17	19	21	23	25	27	29	32	34	36	39	42	45	48	51	54	57	61	65	68	72	77	81	85	90	95	360
	350					0	2	3	5	7	8	10	12	14	15	17	19		23	26	28	30	33	35	38	41	44	47	50	53	56	60	64	68	72	76	80	85	90	95	350
	340						0	2	3	5	7	9	10	12	14	16	18	20	22	24	27	29	31	34	37	39	42	45	49	52	55	59	63	67	71	75	80	85	90		340
	330							0	2	3	5	7	9	11	13	14	16	19	21	23	25	28	30	33	35	38	41	44	47	51	54	58	62	66	70	75	79	84	89	94	330
	320								0	2	4	5	7	9	11	13	15	17	19	21	24	26	29	31	34	37	40	43	46	50	53	57	61	65	69	74	79	84	89	94	320
	310									0	2	4	6	7	9	11	13	16	18	20	22	25	27	30	33	35	38	42	45	48	52	56	60	64	69	73	78	83	89	94	310
	300										0	2	4	6	8	10	12	14	16	18	21	23	26	28	31		37	40	44	47		55	59	63	68	72	77	83	88		300
0	290											0	2	4	6	8	10	12	14	17	19	21	24	27	30		36	39	42		50	53	58	62	67	72	77	82	88		290
R	280												0	2	4	6	8	10	13	15	17	20	22	25	28	31	34	37	41	44		52	56	61	66	71	76	82	87	94	280
- 1	270													0	2	4	6	9	11	13	16	18	21	23	26	29	32		39	43	47	51	55		65	70	75	81	87		270
G	260														0	2	4	7	9	11	14	16	19	22		27	31	34	37		45	49	54		63	69	74	80	86	_	260
- 1	250															0	2	5	7	9	12	14	17	20	23	26	29	32		40	44	48	52		62	68	73	80	86		250
N	240																0	2	5	7	10	12	15	18	21	24	27		34		42	46	51		61	67	72	79	85		240
Α	230																	0	2	5	8	10	13	16	19	22	25	28	32	36	40	44	49	54	60	65		78	85		230
L	220																		0	3	5	8	11	14	16	20	23	26			38	43	47	53	58	64	70	77	84	$\overline{}$	220
	210																			0	3	5	8	11	14	17	21	24		32	36	41	46	51	56	63	69	76	83		210
S	200																				0	3	6	9	12	15	18	22		30	34	39	44	49	55	61	68	75	83		200
T A	190																					0	3	6	9	12	16	19	23	27	32	36	41	47	53	59	66	74	82		190
N	180												_										0	3	6	10	13	17	21		29	34	39	45	51	57	-	72	81		180
D	170							$oxed{oxed}$																0	3	7	10	14		22		31	37	42	49	55	-	71	80	$\overline{}$	170
_	160																								0	4	7	11		19	24	29	34	40	46	53	61	69	79		160
	150							┞	_				_													0	4	8	12	16	21	26	31		44	51	59	68	77		150
	140							_	$oxed{}$	_		_			_							Ш		$oxed{oxed}$			0	4	8	13	17	22	28		41	48		66	76		140
	130							_	\vdash			_										Ш		$oxed{oxed}$		\Box		0	4	9	14	19	24		37	45	54	63	74		130
	120							_				_		_															0	5	10	15	21		34	42		61	72		120
	110																					Ш								0	5	11	16	23	30	38	\rightarrow	58	70	$\overline{}$	110
	100							┞	_			_	_	_																	0	6	12	18	26	34		55	68		100
	90							Ь	_			<u> </u>	_	_																		0	6	13	21	29	-	51	65	81	90
	80																																0	7	15	24	-	46	61	79	80
	70							_				_		_																				0	8	17	28	41	56		70
	60	0 10 21 34 51 72 60																																							
	50											_																								0	-	26	$\overline{}$	$\overline{}$	50
	Į	390	380	370	360	350	340	330	320	310	300	290	280	270	260												140	130	120	110	100	90	80	70	60	50	40	30	20	10	
																REI	MAIN	IING	PLA	NTS	IN SA	AMP	LE (1	/100)th) A	CRE															

Hail Stand Reduction for 11th Through 17th Leaf Growth Stages

	Percent	Leaf Area	Destroyed
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								rei	Cent L	eal Ale	a Destr	oyeu							
Stage of Growth	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
								ı	Percen	t Produ	ction L	ost							
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 18^{th} 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 16.6 % will be the percent damage for leaf destruction entered in item 20 on the appraisal worksheet.

TOTAL ACTUAL LEAVES TO BE PRODUCED (ULTIMATE NO. OF LEAVES)

A -41	43	43	ı	15				1				22	24	25
Actual	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Leaves														
at Date														
of Loss						_	_	_						
	1		T	ı	T		DIFIED ST	1	T	T		ı		T
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

Exhibit 16 Shelling Percentage Factors – Ear Popcorn

(1)	(2)	(3)	(4)
Wt. of Ear Popcorn Sample: (lbs.)	Wt. of Shelled Popcorn Sample: (lbs.)	EAR POPCORN 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

TENTHS OF PERCENT - MOISTURE

WHOLE PERCENT	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
MOISTURE										
15	1.0000	.9988	.9976	.9964	.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	.8188	.8176	.8164	.8152	.8140	.8128	.8116	.8104	.8092
31	.8080	.8068	.8056	.8044	.8032	.8020	.8008	.7996	.7984	.7972
32	.7960	.7948	.7936	.7924	.7912	.7900	.7888	.7876	.7864	.7852
33	.7840	.7828	.7816	.7804	.7792	.7780	.7768	.7756	.7744	.7732.
34	.7720	.7708	.7696	.7684	.7672	.7660	.7648	.7636	7624	7612
35	.7600	.7588	.7576	.7564	.7552	.7540	.7528	.7516	.7504	.7492
36	.7480	.7468	.7456	.7444	.7432	.7420	.7408	.7396	.7384	.7372
37	.7360	.7348	.7336	.7324	.7312	.7300	.7288	.7276	.7264	.7252
38	.7240	.7228	.7216	.7204	.7192	.7180	.7168	.7156	.7144	.7132
39	.7120	.7108	.7096	.7084	.7072	.7060	.7048	.7036	.7024	.7012
40	.7000	.6988	.6976	.6964	.6952	.6940	.6928	.6916	.6904	.6892

Test	Less Than	255 Sq. Ft. to	462 Sq. Ft. to	768 Sq. Ft. to	1385 Sq. Ft. to	2290 or Over
Weight	255 Sq. Ft.	461 Sq. Ft.	767 Sq. Ft.	1384 Sq. Ft.	2289 Sq. Ft.	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

Exhibit 18 Popcorn – Combined Test Weight and Pack Factors (Continued)

Test	Less Than	255 Sq. Ft. to	462 Sq. Ft. to	768 Sq. Ft. to	1385 Sq. Ft. to	2290 or
Weight	255 Sq. Ft.	461 Sq. Ft.	767 Sq. Ft.	1384 Sq. Ft.	2289 Sq. Ft.	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

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.

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

All stage are based on so 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 no Removal of husks will show the silk t last leaves of the plant are in the pro extended. Elongation of upper node	94+				

Exhibit 19 Popcorn Stage Characteristics (Continued)

NAME OF STAGE	AVERAGE TIME INTERVAL (THIS STAGE TO NEXT)	CHARACTERISTICS	PERCENT OF LEAF AREA 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 20, Figures A, B, and C for descriptive pictures of the popcorn plant.

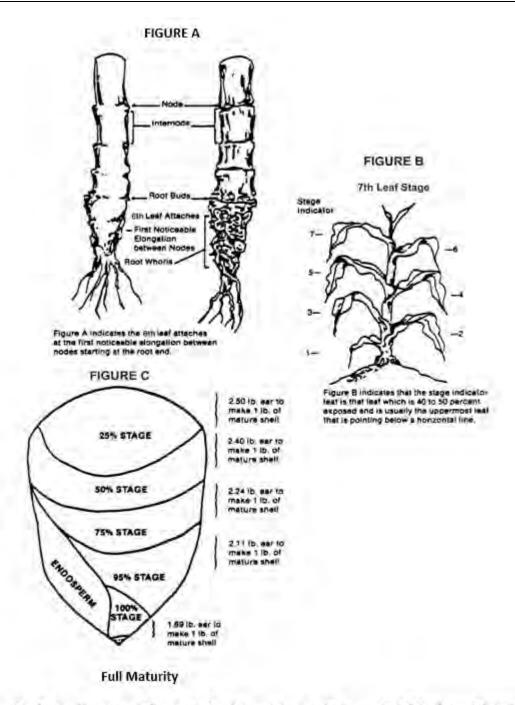


Figure C indicates the stages of maturity by determining in which quarter of the kernel that the line separating the solids and the milk is located.