

United States Department of Agriculture



Federal Crop Insurance Corporation

FCIC-25015 (11-2024)

SESAME PILOT LOSS ADJUSTMENT STANDARDS HANDBOOK

2025 and Succeeding Crop Years

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

TITLE: SESAME PILOT LOSS ADJUSTMENT	NUMBER: FCIC-25015
STANDARDS HANDBOOK	OPI: Product Administration and Standards Division
EFFECTIVE DATE: 2025 and Succeeding Crop Years	ISSUE DATE: November 25, 2024
SUBJECT:	APPROVED:
Provides loss procedures for administering the Sesame Pilot crop insurance program.	/s/ John W. Underwood for
	Deputy Administrator for Product Management

REASON FOR ISSUANCE

This handbook provides loss procedures for administering the Sesame Pilot crop insurance program. This handbook replaces FCIC-25015, Sesame Pilot Loss Adjustment Standards Handbook, issued November 13, 2023. This handbook is effective for the 2025 and succeeding crop years and is not retroactive to any 2024 or prior crop year determinations.

SUMMARY OF CHANGES

Listed below are the significant content changes to the FCIC-25015, Sesame Pilot Loss Adjustment Standards Handbook. All major changes and additions are highlighted. Three asterisks (***) indicate where major deletions occurred. Minor changes and corrections are not included in this listing.

Reference	Description of Change
Throughout	Updated to latest External Handbook Standards (EHS).
Subparagraph 2D(1)	Added note about ACRSI rounding allowances.
Paragraph 12	Standardized unit language across all LASHs.
Exhibit 1	Added ACRSI.
Exhibit 3, Item 10	Standardized language for acres rounding to coincide with ACRSI rounding rules set
	forth in the GSH and LAM by adding reference to <u>Subparagraph 2D(1)</u> .
<u>Exhibit 4</u>	Multiple items: Standardized language for acre and share rounding to coincide
	with ACRSI rounding rules set forth in the GSH and LAM by adding reference to
	Subparagraph 2D(1).
Exhibit 4, Item 29	Added stage "NE" for acreage with crops that have not emerged due to insufficient
	soil moisture (non-irrigated only). The new code will allow NE acreage to be
	differentiated from other UH acreage for data-mining purposes.
<u>Exhibit 6</u>	Rearranged calculation and table per EHS.

SESAME PILOT LOSS ADJUSTMENT STANDARDS HANDBOOK

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1 General Information

A. Purpose and Objective

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

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

B. Program Duration

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

C. Source of Authority

The Food, Conservation and Energy Act of 2008 requires the Risk Management Agency to develop a pilot program for sesame. 7 U.S.C. 1523(g) requires that FCIC "... shall establish and carry out a pilot program under which a producer of non-dehiscent sesame under contract may elect to obtain multi-peril crop insurance, as determined by the Corporation."

D. 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 or <u>www.usda.gov/oascr</u>. For more information on the RMA Non-Discrimination Statement see the DSSH.

E. Related Handbooks

The following table identifies handbooks that shall be used in conjunction with 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 BP, 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 BP, including the CAT
	Endorsement; the Area Risk Protection Insurance Regulations BP; 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.
Sesame Crop	This handbook provides the official FCIC-approved underwriting procedures
Insurance	and instructions for administering the Sesame Pilot crop insurance program.
Standards	
Handbook	

- (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 sesame loss adjustment and this handbook are in Exhibit 1 and Exhibit 2, herein.

F. CAT Coverage

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

G. Irrigated Practice

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

2 AIP Responsibilities

A. Utilization of Standards

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

B. Form Distribution

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

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

C. Record Retention

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

D. Form Standards

- (1) The entry items and completion instructions in <u>Exhibit 3</u> and <u>Exhibit 4</u> are the minimum requirements for the Sesame Appraisal Worksheet and PW. All entry items are "Substantive" (they are required).
 - Note: To facilitate ACRSI, RMA's systems will allow acreage to be reported, and rounded, to hundredths (0.01); and for shares to be reported, and rounded, to the ten-thousandths (0.0001). Agents and adjusters should adhere to the field size elected by their AIP for shares and acres and round accordingly to field size provided.
- (2) The Privacy Act and Non-Discrimination statements are required statements. These statements are not shown on the example form(s) in <u>Exhibit 3</u> and <u>Exhibit 4</u>. See the DSSH for statement requirements.



2 AIP Responsibilities (Continued)

D. Form Standards (Continued)

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

11Insurability(1)The insured crop and insurable acreage are defined in the Sesame Pilot CP. Refer to the BP, the
Sesame Pilot CP, and the SP for a complete list of insurability requirements.(2)Any acreage of the insured crop damaged before the final planting date, to the extent that
producers in the area would normally not further care for the crop, must be replanted unless
the AIP agrees that it is not practical to replant. Refer to the SP and the LAM for additional
replanting information.(3)The late planting provisions contained in the BP are not applicable to sesame.(4)The prevented planting provisions contained in the BP are not applicable to sesame.

12 Unit Division

Refer to the BP, CP, and SP for unit division.

13 Replanting Payment Procedures

There is no replant payment available for sesame. Refer to Paragraph 11(2) for replanting requirements prior to the final planting date.

14-20 (Reserved)



PART 3: APPRAISALS

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

21 Selecting Representative Samples

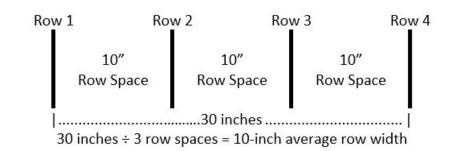
- (1) Determine the minimum number of required samples for a field or subfield by the field size, the average stage of growth, age (size), and general capabilities of the plants to recover, and variability of potential production and plant damage within the field or subfield.
- (2) Split the field into 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.
- (3) Appraise each field or subfield separately.
- (4) Take not less than the minimum number (count) of representative samples required in Exhibit 5 for each field or subfield.
- (5) Sample size by appraisal method:
 - (a) Stand Reduction, Plant Damage, and Capsule Count Methods: One representative sample is equal to 1/1,000 of an acre based on the row width as listed in Exhibit 6.
 - (b) Harvested Production Method: One sample is the calculated area harvested by machine in each representative sample area.

22 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 the average row width contained in <u>Exhibit 6</u> to determine the sample row length required for the Stand Reduction, Plant Damage, and Capsule Count appraisal methods.

23 Stages of Growth

There are four major growth stages: Vegetative, Reproductive, Ripening, and Drying. Growth stage characteristics are described in <u>Exhibit 10</u>. The stages are defined so that the loss adjuster can determine the appropriate appraisal method to use.

- (1) For the purposes of appraisals, the key points in the growth of the sesame plant are the appearance of buds in the pre-reproductive stage and the end of the reproductive stage when flowering ends.
- (2) Sesame produces flowers in the leaf axil (where the upper base of the petiole of the leaf joins the stem). The flowers have five petals that join to form a tubular shape corolla that is about 1 to 1.5 inches long. The flowers start as yellowish green in color and are considered buds until the day of pollination when they turn whitish to purple. One of the petals is longer, and the extra growth is known as a lip. The lip folds over the opening of the flower until the day the flower releases its pollen. The corolla drops at the end of the day, but the ovary (which will form the capsule and seed) stays on the plant. There may be flower abortion when the entire flower falls off the plant, but the dropping of the corolla will still allow the formation of a capsule.
- (3) Each leaf emerges from the stem at a node. In many species there is a distinct distance along the stem between leaves. In most sesame lines, the leaves are opposite with a pair of leaves forming on opposite sides of the stem with a minimal distance between the leaves. The next set of leaves rotates 90 degrees and are again on opposite sides of the stem. Some of the sesame appraisal methods count node pairs. This is synonymous with counting pairs of leaves and later pairs of capsules in leaf axils.
- (4) The first key definition is the start of the pre-reproductive stage when buds are visible without manually opening the growing tip. Technically, the bud can be seen with a hand lens after the 4th to 6th (variety dependent) pair of leaves forms.

23 Stages of Growth (Continued)

- (5) The second key definition is flower termination time which is when 90% of the plants do not have open whitish flowers on the main stem. At this point, many of the plants may still have very small yellowish green buds, but these buds rarely make flowers that will result in capsules and seeds.
- (6) In drought years, a late rain can induce regrowth. Because of the lack of moisture during the drought, the bottom leaves will have dropped letting light into the lower leaf axils. Branches will develop at those points and they will flower and produce capsules. If there are no flowers at the top of the main stem, the field should be considered at flower termination. The capsules on the regrowth make little seed and it is offset by the seed lost during the delay of the field drying down.
- (7) Sesame is an indeterminate species which means that it will continue to flower as long as there is adequate moisture, fertility, and heat. Sesame is a summer crop with the latter stages coming in the fall where there is a drop in temperatures. As a result, sesame appears to be determinate.
- (8) The stage in the field may vary, e.g., low parts of the field will flower longer. If there are significant differences, the fields may have to be divided into sub-fields.



Appraisal Method	Use
Stand Reduction Method	for planted acreage with no stand, poor stand, or damaged
	stand on fields up to flower termination (no GP putting on
	new leaves). Regardless of the time of the insurable event,
	if the data for the appraisal is not determined in the field
	before flower termination in the late bloom stage, the
	Capsule Count method must be used.
Plant Damage Method	between the pre-reproductive stage and flower
	termination in the late bloom stage (beyond the first true
	leaf pair and GPs are putting on new leaves). Regardless of
	the time of the insurable event, if the data for the appraisal
	is not determined in the field before flower termination,
	the Capsule Count method must be used.
Capsule Count Method	after flower termination. It is preferable to wait until the
	whole field has flower termination to avoid creation of
	excessive sub-fields.
Harvested Production Method	after flower termination. Use the amount actually
	harvested from representative areas within a field.

Refer to Paragraph 23 and Exhibit 10 for information on growth stages.

Note: Whenever possible, require the producer to maintain RSAs so the Harvested Production method can be used.

25 Stand Reduction Method

A. Scheduling Appraisals

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. For damaged stands, do not complete appraisals until a minimum of 10 days after the date of damage in order to determine which plants will survive.



25 Stand Reduction Method (Continued)

B. Damaged Plant Characteristics for Stand Reduction Appraisals

The most common stand reducer is hail, but there can also be stand reduction due to heavy rains, diseases, or insects. Sesame may recover from heavy rains and from some insect damage to the cotyledons and leaves. Although there can be good recovery from hail, the amount of damage is dependent on the severity of the hail and the stage of growth. Sesame plants may be very susceptible to hail damage if damage occurs up to and including the first pair of true leaves.

Sesame plants injured in the seedling stage may have either one to all cotyledons and leaves missing, the seedling beaten down, or the stem broken at the soil line. Plants with both cotyledons and the first true leaf pair broken or torn off, broken or badly bruised stems, and those broken off below the cotyledons rarely survive.

After the first true leaf pair stage and prior to flowering, when the crop is leafing, sesame can be very hardy and generally will recover with varying yield loss. If the GP is broken off, the plant will typically produce branches from axillary buds at the nodes. The amount of branching is dependent on sunlight striking the tips of the GP. Broken branches above the first set of leaves on the branch can also form another branch from axillary buds at the base of the leaves. To qualify for stand reduction appraisals, damaged plants must:

- (1) not have any GPs putting on new leaves;
- (2) be injured and bruised to such an extent they are in a non-recoverable condition; or
- (3) be dead.

C. Stand Reduction Appraisal Method Standards

- (1) Select the required number of representative samples using the instructions in <u>Paragraph 21</u>.
- (2) Apply the average row width determined in <u>Paragraph 22</u> to <u>Exhibit 6</u> to determine the sample row length. For each representative sample, count the number of surviving plants in 1/1,000 of an acre.
- (3) Refer to <u>Exhibit 7A</u> to identify the percent surviving from sesame stand reduction for the relevant phenotype.

26 Plant Damage Method

A. Plant Damage Characteristics

There are three main types of plant damage: defoliation, GP damage, and capsule damage. Only the first two of these are considered in the Plant Damage Appraisal Method. They are evaluated after first accounting for any stand reduction associated with the plant damage.

The methodology requires a determination of the stage of development of the crop in order to get the amount of surviving yield in <u>Exhibit 7B</u> and <u>7C</u>. Refer to the Stages of Growth in <u>Paragraph 23</u> and <u>Exhibit 10</u>. During the reproductive stage the tables are broken into columns based on the number of node pairs on dominant plants in a representative population. Dominant plants are all about the same height as the top of the canopy. These do not include the tallest plants which are off-types that rise above the canopy. Minor plants within the canopy normally have fewer nodes.

In order to count, the node pair must have a capsule formed that is at least one-half inch long. Node pairs that have a capsule missing because of flower or capsule abortion are counted.

In a drought, a crop may be in the late bloom stage and not have 15 node pairs. In this case, use the late bloom stage column.

- (1) Defoliation
 - (a) Recovery from hail depends on the amount of injury to leaves which supply the nutrients for seed development and the amount of growing season remaining. If injury occurs late in the season, the plant will not have sufficient time to compensate by forming new leaves. Although the sesame stems and capsules are green, they provide few nutrients for seed fill. A completely defoliated plant during flowering will make little seed although it has many capsules that have reached their maximum length.
 - (b) Defoliation is that proportion of the leaves that has been removed or severely injured.
 - (c) Although sesame leaves vary in size, leaf damage should be assessed based on the number of leaves and the percent damage to each leaf. Sesame leaves develop at each node on the main stem and branches. Most sesame varieties have opposite leaves and thus it is easier to count the number of node pairs and multiply by two to determine the number of leaves prior to injury. Do not count cotyledons as leaves. Cotyledons have a rounded tip whereas true leaves have a point. The cotyledons are at the base of the plant, but at some point (variety and sunlight related) they shed.

A. Plant Damage Characteristics (Continued)

- (d) There is a misconception that the effects of damage caused to leaves formed during the vegetative stage are minimal. The plants are still short at this point, and there will be a substantial leaf mass that will form during the reproductive stage that will hide the amount of damage. In addition, many of these damaged leaves will later self-defoliate. However, there is substantial damage because these lower leaves provide nutrients to the roots and the first buds, and loss of this photosynthesis at this critical stage is not recoverable.
- (e) Loss of leaves includes:
 - (i) A partial loss leaves that have a hole or are torn.
 - (ii) Total losses leaves that are torn off the plant or broken at the petiole and wilting.
- (2) GP Damage
 - (a) A sesame crop is indeterminate and blooms for an extended period as successive nodes and the associated flower buds form capsules up the stems and branches. The main stem of the plant produces the majority of the seed. If hail or some other peril does not damage the GP on the main stem, the loss of leaf surface is less damaging than if the GP is broken. Loss of the GP on a branch has less effect on final yield because one branch does not contribute a significant percentage of seed and rarely are all GPs on one plant broken.
 - (b) Hail injury if severe may break the GP of the main stem or branch, and capsule formation on that stem will cease. Within a few days the plant will react by having a secondary GP begin to form a branch on the main stem or a secondary branch on the branch as long as there is light to the growing tip. Usually there is light at the leaf axils because severe enough hail to break a stem will damage enough leaf surface to allow the light to penetrate to the secondary GPs. When the GP on the main stem is broken, the plants will direct more nutrients to these secondary GPs. Within a few days, there is rapid growth, but there will be a delay in the start of flowering. Although the plants will produce more capsules, there are fewer capsules produced than if the main stem GP had not broken off.

A. Plant Damage Characteristics (Continued)

- (c) There are cases where the GP on the main stem breaks over but stays attached to the stem. Within a few days the tip will react and start growing towards light and will usually start to flower and form capsules. Although there will be seeds in these new capsules, the effect on yield is similar to a completely broken GP because the plant does not direct more nutrients to the secondary GPs.
- (d) In sesame in high populations, some plants will grow faster than adjacent plants and become dominant plants that will have higher seed production. The minor plants are shaded by the dominant plants and will have less or even no seed production. In some hailstorms, the hail will break off the GP on the dominant plants and leave the minor plants intact. While the dominant plants are recovering, the minor plants will grow through the canopy and become the dominant plants. Thus, in counting the number of plants that have lost the GP on the main stem, these minor plants should be counted as intact since they can become almost as productive as non-damaged dominant plants.
- (3) Capsule Damage

Capsule damage prior to the end of flowering is not considered in this method of appraisal in sesame. Since sesame flowers for such an extended time (an average of 40 days), early loss of 100% of the capsules does not equate to 100% loss of production. On the other hand, when a capsule is not lost, but the leaves are lost, it is the equivalent of a loss of a capsule. This loss is accounted for in the loss of leaves. The amount of later capsule loss is important in the ripening stage and is accounted for in the Capsule Count method of appraisal, <u>Paragraph 27</u>.

B. Plant Damage Appraisal Method Standards

- (1) First account for any stand reduction in the manner described in <u>Paragraph 25</u>.
- (2) Defoliation
 - (a) In a representative sample area, determine the percentage of defoliation from a sample of 10 successive plants in the same row of representative plants. This same area will be used for the GP damage assessment.
 - (b) Count the number of leaves on 10 plants by counting the number of node pairs and multiplying by two. The leaves on branches that are broken down should be counted. However, the leaves on plants that are broken down are not included because these were accounted for in the stand reduction counts.

B. Plant Damage Appraisal Method Standards (Continued)

- (c) Count the number of damaged leaves as follows (it may be easier to count the leaves that are not damaged and subtract that number from the total number of leaves):
 - (i) For leaves that are torn off or kinked at the petiole, count 1 damaged leaf.
 - (ii) For leaves that are still on the plant estimate the amount of damage to the nearest half and count as ½ or 1 damaged leaf as follows, greater than 75% damage = 1 damaged leaf, 20 to 75% = .5 damaged leaf, and less than 20% = 0 damaged leaf. Include only the area removed or affected by a hole or tear.
- (d) To determine the percent of leaf loss add the total number of damaged leaves from the 10 plants and divide the result by the number of leaves prior to the leaf damage.
- (3) GP damage
 - (a) Apply the average row width determined in <u>Paragraph 22</u> to <u>Exhibit 6</u> to determine the sample row length. In the representative sample that includes the 10 plants used for determining the amount of defoliation, count the number of plants.
 - (b) While counting the total number of surviving plants, see whether it will be easier to count the surviving plants with an intact GP on the main stem or to count the surviving plants with a damaged GP on the main stem. Count the appropriate number.
 - (c) To determine the percent of surviving plants with the GP intact, divide the number of plants with a GP intact by the total number of plants in the sample.
 - (d) To determine the percent of surviving plants with the GP damaged, subtract the proportion of plants with the GP intact from 1.00.



27 Capsule Count Method

A. Capsule Characteristics

- (1) The amount of seed in a capsule varies due to many factors including variety, environment, plant position, branching style, and capsules per leaf axil.
- (2) Varieties have differing seed sizes and number of seeds per capsule. The lower yield factors are compensated by having more capsules per plant.
- (3) The capsule weight will vary based on population and available moisture and fertility. Higher populations, less moisture, and/or less fertility will have capsules with less seed weight.
- (4) The capsules on the tops of the plant have less seed weight. The highest weights are in the middle of the capsule zone on the main stem.
- (5) The capsules on branches have less weight. However, having more capsules per plant compensates for the lower weight.
- (6) The axillary capsules in a triple capsule line have less seed weight. However, the less weight is compensated by having more capsules per plant. The seed weight in the central capsules is comparable to the seed weight in single capsule lines.
- (7) The nature of commercially viable sesame is to have non-dehiscence. This allows the capsules to hold the majority of the seed until the combine harvests the field and yet release the seed in the combine. One of the keys is to have the capsules open as they dry down. Although it is easy to thresh the seed in a combine or plot thresher, it is very time consuming to shell the seeds out of the capsules manually.

B. Capsule Count Appraisal Method Standards

- (1) Apply the average row width determined in <u>Paragraph 22</u> to <u>Exhibit 6</u> to determine the sample row length. Identify the first and last plants in the sample. Capsules from plants within the sample length are counted even if they extend outside the length of the row. Capsules from plants outside the sample length are not counted even if they bend inside the length of the row.
- (2) Count the number of capsules on the main stem and on the branches.
- (3) Plants that died from disease or plants that were defoliated in the reproductive stage may not make marketable seed. In fields with hail or disease damage, start with the capsules at the top of the plant and open them to find the first capsule that does not have immature seed. Then count that capsule and the capsules below on the main stem. Repeat the procedure when counting the capsules on the branches. Only count the capsules with seed that is filled out. Immature seed is brownish and flat.

28 Harvested Production Method

- (1) The number of RSAs shall be determined in accordance with the LAM.
- (2) The area of each must be measured with a tape, GPS, or wheel.
- (3) The sample areas cannot be harvested until dry enough to produce seed with 6.0% moisture or less.
- (4) The combine must be cleaned prior to the harvest. The production must be weighed by an official USDA weighing station with the results on an official weight ticket with the name of the insured, field ID, and unit number. The moisture should be taken of a representative sample. Samples must be drawn using a USDA-approved method.
- (5) A representative sample of this harvest must be submitted to a laboratory to determine the amount (percentage) of each: dockage, foreign matter, broken, and damaged.
- (6) The net weight shall be computed as follows, with the proportions that are dockage, foreign matter, broken, damaged, or moisture expressed as hundredths:
 - (a) Calculation of weight 1 (WT1) after removal of dockage:

WT1 = gross weight – (gross weight × dockage)

(b) Calculation of weight 2 (WT2) after adjustment for foreign matter, broken, and damaged seed:

WT2 = WT1 - (WT1 × (foreign matter + broken + damaged))

(c) Calculation of net weight at the equivalent of 5.0% moisture content:

Net Weight = WT2 \times (1.00 - moisture %) \div 0.95

29 Deviations and Modifications

- (1) Deviations in appraisal methods require RMA written authorization (as described in the LAM) prior to implementation.
- (2) There are no pre-established modifications contained in this handbook. Refer to the LAM for additional information.

30 General Information for Worksheet Entries and Completion Procedures

- (1) Include the AIP's name in the appraisal worksheet title if not preprinted on the AIP's 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 are required for each unit appraised, and for each field or subfield including fields or subfields which have a differing base (APH) yield or farming practice (applicable to preliminary and final claims). Refer to <u>Paragraph 21</u> for sampling requirements.
- (4) Standard appraisal worksheet items are numbered consecutively in <u>Exhibit 3</u>. An example appraisal worksheet is also provided to illustrate how to complete item entries.
- (5) For zero appraisals, refer to the LAM.

31-40 (Reserved)



PART 4: PRODUCTION WORKSHEET

41 General Information for Worksheet Entries and Completion Procedures

- (1) The PW is a progressive form containing all notices of damage for all preliminary and final inspections, including no indemnity due claims, 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 (refer to 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).
- (4) 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.
- (5) Instructions labeled "Preliminary" apply to preliminary inspections only. Instructions labeled "Final" apply to final inspections only. Instructions not labeled apply to all inspections.
- (6) If the AIP determines the claim is to be denied, refer to the LAM for PW completion instructions.
- (7) Standard PW items are numbered consecutively in <u>Exhibit 4</u>. An example PW is also provided to illustrate how to complete item entries.



EXHIBITS

Exhibit 1 Acronyms and Abbreviations

The following table contains RMA-approved acronyms and abbreviations used in this handbook.

Approved	Term
Acronym/Abbreviation	
ACRSI	Acreage Crop Reporting Streamlining Initiative
AD	Actuarial Documents
AIP	Approved Insurance Provider
АРН	Actual Production History
BP	Basic Provisions
САТ	Catastrophic Risk Protection
СІН	Crop Insurance Handbook, FCIC-18010
CLU	Common Land Unit
СР	Crop Provisions
DAP	Days After Planting
DSSH	Document and Supplemental Standards Handbook, FCIC-24040
FAD	Final Agency Determination
FCIC	Federal Crop Insurance Corporation
FDA	Food and Drug Administration
FM	Foreign Material
FSA	Farm Service Agency
GP	Growing Point
GPS	Global Positioning System
GSH	General Standards Handbook, FCIC-18190
LAM	Loss Adjustment Manual, FCIC-25010
OPI	Office of Primary Interest
PW	Production Worksheet
QA	Quality Adjustment
RMA	Risk Management Agency
RSA	Representative Sample Area
SP	Special Provisions
SRA	Standard Reinsurance Agreement
USDA	United States Department of Agriculture
UUF	Unavoidable Uninsured Fire

Exhibit 2 Definitions

Definitions specific to sesame are provided in the Sesame Pilot CP.



Exhibit 3 Form Standards – Appraisal Worksheet

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, refer to Subparagraph 2D and Paragraph 30.

I	Element/Item Number	Description
1.	Company	Name of AIP if not preprinted on the worksheet (Company Name).
2.	Insured's Name	Name of insured that identifies exactly the person (legal entity) to whom
		the policy is issued.
3.	Policy Number	Insured's assigned policy number.
4.	Unit Number	Unit number from the Summary of Coverage after it is verified to be
		correct.
5.	Date of Damage	First three letters of the month during which most of the insured damage
		(including progressive damage) occurred for each inspection. Include the
		specific date where applicable as in the case of hail damage (e.g., AUG
		11).
6.	Claim Number	Claim number as assigned by the AIP.
7.	Crop Year	Four-digit crop year, as defined in the policy, for which the claim is filed.
8.	Phenotype	Enter the phenotype of the sesame grown in terms of branching habit and
		number of capsules per leaf axil. Refer to Exhibit 9.
9.	Phase/Stage (days after	Determined phase/stage of growth and the number of DAP at the time of
	planting)	the appraisal.
10.	Acres	Number of determined acres, to tenths, in the field or subfield being
		appraised. Refer to Subparagraph 2D(1).
11.	Practice	For non-irrigated, 003. For irrigated, 002.
12.	Sample Number	Make no entry. Sample identification numbers are printed on the
		appraisal form. If more than 6 samples are needed, use additional pages
		and number the samples 7, 8, 9, etc.
13.	Field ID	Field or subfield identification symbol.

For every inspection, complete items 1 through 11 and items 34 through 39.

Stand Reduction Appraisal Method

For additional information refer to Paragraph 25.

Element/Item Number	Description
14. Surviving Stand	Number of live plants remaining in the representative sample (see Exhibit
	<u>6</u> for row width and row length). Any plant with a GP putting on new
	leaves is considered a live plant.
15. % Surviving Yield	Factor for percent of surviving yield from Exhibit 7A.
16 25.	Make no entry. Applicable only to Plant Damage Appraisal Method.
26. APH Yield	Approved APH yield entered in whole pounds from APH form.
27. Total Pounds per Acre	Result of multiplying item 15 by item 26, rounded to pounds.
28 33.	Make no entry. Applicable only to Capsule Count Method.
34. Subtotal	Sum of entries in column 27.
November 2024	ECIC_25015 21

Plant Damage Appraisal Method

For additional information refer to Paragraph 26.

Element/Item Number		Description
14.	Surviving Stand	Number of live plants remaining in the representative sample (see <u>Exhibit</u> <u>6</u> for row width and row length). Any plant with a GP putting on new leaves is considered a live plant.
15.	% Surviving Yield	Factor for percent of surviving yield from Exhibit 7A.
16.	Percent Leaf Loss	Percent of leaf area destroyed in 10 successive plants.
17.	Percent Plants with GP Intact	Percent of plants in the representative sample that have the main stem GP intact (not broken off or dangling), rounded to hundredths.
18.	Factor for Computing Percent Surviving Yield for GP Intact	Use the percent leaf loss (item 16) and the growth stage (item 9) to determine the percent in <u>Exhibit 7B</u> expressed in hundredths.
19.	Percent Surviving Stand with GP Intact	Multiply item 15 (Percent of Surviving Stand Yield) by item 17 (Percent of Plants with GP Intact), rounded to hundredths.
20.	Total Percent Surviving Yield with GP Intact	Multiply item 18 (Factor for Computing Percent Surviving Yield for GP Intact) by item 19 (Percent Surviving Stand with GP Intact), rounded to hundredths.
21.	Percent Plants with GP Damaged	Subtract item 17 (Percent of Plants with GP Intact) from 1.00.
22.	Factor for Computing Percent Surviving Yield for GP Damaged	Use the Percent Leaf Loss (item 16) and the Growth Stage (item 9) to determine the factor in <u>Exhibit 7C</u> .
23.	Percent Surviving Stand with GP Damaged	Multiply item 15 (Percent of Surviving Stand Yield) by item 21 (Percent of Plants with GP Damaged), rounded to hundredths.
24.	Total Percent Surviving Yield with GP Damaged	Multiply item 22 (Factor for Computing Percent Surviving Yield for GP Damaged) by item 23 (Percent Surviving Stand with GP Damaged), rounded to hundredths.
25.	Total Percent Surviving Yield for Leaf and GP Damage	Result of adding item 20 (Total Percent Surviving Yield with GP Intact) and item 24 (Total Percent Surviving Yield with GP Damaged).
26.	APH Yield	Approved APH yield entered in whole pounds from APH form.
27.	Total Pounds per Acre	Result of multiplying item 25 by item 26, rounded to pounds.
28 3	33.	Make no entry. Applicable only to Capsule Count Method.
34.	Subtotal	Sum of entries in column 27.

Capsule Count Appraisal Method

For additional information refer to Paragraph 27.

E	lement/Item Number	Description
14	25.	Make no entry.
26.	APH Yield	Approved APH yield entered in whole pounds from APH form.
27.	Total Pounds per Acre	Make no entry.
28.	Sample Number	Sample identification numbers are on the appraisal form. If more than 6
		samples are needed, use additional pages and number the samples 7, 8, 9,
		etc.
29.	Number of Capsules	The number of capsules in the representative sample. Refer to Paragraph
		<u>27</u> .
30.	Average Seed Weight	The number, in grams, is found in <u>Exhibit 8</u> based on the phenotype of the
	per Capsule	sesame in the field (branching style, and capsules per leaf axil), and
		whether or not the field is irrigated.
31.	Sample Weight in	Multiply item 29 (Number of Capsules) by item 30 (Average Seed Weight
	Grams	per Capsule), rounded to whole number.
32.	Convert Grams to	Divide sample weight in grams by 454, the number of grams in a pound,
	Pounds	rounded to three decimal places.
33.	Total Pounds per Acre	Multiply item 32 by 1,000.
34.	Subtotal	Sum of entries in column 33.

Harvested Production Appraisal Method

For additional information refer to Paragraph 28.

Element/Item Number		Description
14.	Square Feet Harvested	Number of square feet harvested. Refer to the LAM for information on
		RSAs.
15a.	Total Pounds Harvested	Net weight of sample, entered in pounds rounded to hundredths. Refer
		to <u>Paragraph 28</u> for calculation.
15b.	Total Pounds per Acre	Divide item 15a (Total Pounds Harvested) by item 14 (Square Feet
		Harvested), then multiply the result by 43,560 (the number of square feet
		in an acre), rounded to whole pounds.
16 2	25.	Make no entry.
26.	APH Yield	Approved APH yield entered in whole pounds from APH form.
27.	Total Pounds per Acre	Transfer entry from 15b.
28 3	33.	Make no entry. Applicable only to Capsule Count Method.
34.	Subtotal	Sum of entries in column 27.

E	Element/Item Number	Description
35.	Number of Samples	The number of samples used in the appraisal.
36.	Pounds per Acre Appraisal	Result of dividing item 34 by item 35, rounded to whole pounds.
37.	Remarks	 Enter pertinent information about the appraisal, including but not limited to: (1) the number of DAP that the damage occurred; and (2) for production in the mid-bloom stage, indicate the number of node pairs.
		Include any appropriate calculations.

All Appraisal Methods

The following required entries are not illustrated on the following Appraisal Worksheet example.

E	lement/Item Number	Description
38.	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.
39.	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, particularly explaining codes, etc., which may not be readily understood.
	Page Numbers	Page numbers - (Example: Page 1 of 1, Page 1 of 2, Page 2 of 2, etc.).



	ADD	SESAN RAISAL WO	10.00		1. COMPANY N	AME:			2	. INSURED'S N	IAME	3.	POLICY NUMBE	R		4. U	NIT NU	JMBER
			on Method)										XXXXXXXXXX			000	02-000	2 BU
For Illu		Purposes	5. DATE OF DA	MAGE	6. CLAIM NUME	. CLAIM NUMBER 7. CROP YEAR 8. PHENOTYPE 9. PHASE/STAGE (DAYS AFTER PLANTING) 10. AC						10. ACRE	RES 11. PRACTICE		CTICE			
	Only		June		XXXXXX	oxxx	YYYY		7 	SINGLE/SIN	GLE	Vegetativ	e / Seedling (25)	13.0			002
Sample No.	Field ID	Surviving Stand	% Surviving Yield	Percent I Loss	With GP	Factor for Computing % Surviving Yield For GP Intact	% Surviving Stand With GP Intact (15 X 17)	Tota Survi Yield GP Ir (18X	iving With ntact	% Plants With GP Damaged (1.00-17)	Factor for Computing % Surviving Yield For GP Damaged	GP	GP GP GP Leaf And GP Damaged Damaged Damaged Damaged Damaged Damaged Damaged Damage					Total Pounds Per Acre (15X26)
12	13	14	15	16	17	18	19	2	0	21	22	23	24		25	26	5	27
1	в	6	0.05													100	00	50
2	В	12	0.16													100	00	160
3	в	16	0.30													100	00	300
4	в	18	0.37					NO	ENTRY	(REQUIRED						100	00	370
5																		
6																		
SAM NUM 2	10000000	NUMBER CAPSULE 29		T PER (grams)	SAMPLE WEIGHT (grams) (29X30) 31	CONVERT GRAMS TO POUNDS (31/454) 32	TOTAL PC PER A (32X1, 33	CRE 000)						S	TAND RED	UCTION	METH	OD
				·						3	84. SUB-TOTA	۱L				880		
			N	O ENTRY F	REQUIRED					35. NU	JMBER OF SA	MPLES				4		
										36. POUNI	DS PER ACRE	APPRAISAL				220		
37. REN Field B v		ged by drou	ght during the 2	20 days fro	om planting. Field	was appraised	35 days after	plantir	ng.				1					

STAND REDUCTION APPRAISAL METHOD

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

Exhibit 3 Form Standards – Appraisal Worksheet (Continued)

			same . Workshee	т	1. C	OMPANY NAME	: 		2	INSURED'S N	IAME	3.	POLICY NUMB	ER	4. U	NIT NUMBER	
			nage Method			ANY	COMPANY		34	I.M.	INSURED		XXXXXXX	x	000	01-0001 BU	
For Ill	ustratio	n Purposes	5. DATE OF	DAMAGE	6. C	LAIM NUMBER	7. CROP YEAR 8.		8. PH	IENOTYPE		9. PHASE/ST (DAYS AF	TAGE TER PLANTING	ANTING) 10. ACRE		11. PRACTICE	
Only				MM/DD		XXXXXXXXXX	YYYY			SINGLE/SIN	IGLE	REPRODUCT	IVE / MID-BLC (54)	OM 2	0.0	002	
Sample No.	Field ID	Surviving Stand	% Surviving Yield	Percent Leaf Loss	% Plants With GP Intact	Factor for Computing % Surviving Yield For GP Intact	% Surviving Stand With GP Intact (15 X 17)	Total Surviv Yield V GP Int (18 X	/ing Vith tact	% Plants With GP Damaged (1.00-17)	Factor for Computing % Surviving Yield For GP Damaged	% Survivin Stand With GP Damaged (15 X 21)	Yield With GP Damaged	Total % Surviving Yield For Leaf And G Damage (20 + 24)	P APH Yie	Total Pounds P Acre (25X26	
12	13	14	15	16	17	18	19	20		21	22	23	24	25	26	27	
1	А	28	0.71	0.42	0.73	0.93	0.52	0.48	8	0.27	0.85	0.19	0.16	0.64	1000	640	
2	А	10	0.09	0.51	0.31	0.90	0.03	0.03	3	0.69	0.78	0.06	0.05	0.08	1000	80	
3	А	26	0.65	0.21	0.94	1.00	0.61	0.63	1	0.06	1.00	0.04	0.04	0.65	1000	650	
4	А	22	0.51	0.35	0.80	0.95	0.41	0.39	9	0.20	0.89	0.10	0.09	0.48	1000	480	
5		S				-					887	10		10			
6																	
SAM NUM 28	BER	NUMBER O CAPSULES 29	AV/G S	EED T PER (grams)	AMPLE VEIGHT grams) (29X30 31	CONVERT GRAMS TO POUNDS (31/454) 32	TOTAL PC PER A (32X1,0 33	CRE 000)						PLANT D	AMAGE MI	THOD	
									8	3	34. SUB-TOTA	L			1,850		
			N	O ENTRY REQU	IRED					35. NU	JMBER OF SA	MPLES			4		
								-		36. POUNI	DS PER ACRE /	APPRAISED			463		

PLANT DAMAGE APPRAISAL METHOD

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

Exhibit 3 Form Standards – Appraisal Worksheet (Continued)

		SE APPRAISAI	SAME	HEET		1. CO	MPANY NAME:			2. 1	NSURED'S NAM	ИE		3. P	OLICY NUMBER		4	. UNIT NU	JMBE	R
		(Capsule C				ANY COMPANY					I.M. INSURED XXXXX							000	01-000	D1 BU
For Illu		on Purpose	s 5. DATE	OF DAMA	GE	6. CLAIM NUMBER 7. CROP YEAR 8				B. PHE	NOTYPE		9. PHASE (DAYS		/STAGE AFTER PLANTING) 10.			ACRES 11. PRACTIC		RACTICE
	Only MM/DD		XXXXXXXXX		YYYY		BRANCHED/SINGLE		DRYING / LATE DRYDOWN		DRYDOWN (1	(100)		25.0		002				
Sample No.	Field ID	Original Stand Surviving Stand	% Survivi Yield	ng Percen Lo:	t Leaf W	Plants ith GP ntact	Factor for Computing % Surviving Yield For GP Intact	% Surviving Stand With GP Intact (15 X 17)	Total Surviv Yield V GP Int (18 X	ring Vith act	% Plants With GP Damaged (1.00-17)	Factor for Computing % Surviving Yield For Gi Damaged	GI	With p aged	Total % Surviving Yield With GP Damaged (22 X 23)	Total % Surviving Yield For Leaf And GP Damage (20 + 24)		APH Yi	ield	Total Pounds I Acre
12	13	14	15	10	5	17	18	19	20		21	22	23	3	24		25	26		27
1	С												2					120	0	
2	с												1	5				120	0	
3	С																	120	0	
4	с		8								\mathbf{V}		20					120	0	
5																				
6																				
SAM NUM 28	BER	NUMBER O CAPSULES 29	WE CA	G SEED GHT PER PSULE rams) 30	SAM WEIG (grar (29X	HT ns) 30)	CONVERT GRAMS TO POUNDS (31/454) 32	TOTAL PO PER AC (32X1,0 33	RE								CAPS	ULE COUN	IT ME	тнор
1		1,701		185	31	;	0.694	694				34. SUB-T	OTAL					1,88	2	
2		795		.185	14	,	0.324	324					1999-1-679-689					1,00.		
3		1,124		.185	20	3	0.458	458			25	5. NUMBER O	F SAMPLE	S	T	4				
4		1,000		185	18	5	0.407	407				. Homoen o		~		-				
5											36. PC	OUNDS PER A	CRE APPR	AISAL		471				
6 7. REM																				

CAPSULE COUNT APPRAISAL METHOD

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

HARVESTED PRODUCTION APPRAISAL METHOD

ISAL WORKSHEE d Production Me ses 5. DATE OF	e thod) DAMAGE	6 CLAIM	ANY C	COMPANY										<u> </u>	
	10	6 CLAIM		ANY COMPANY				I.M. INSURED				XXXXXXXXX			-0003 BU
	19	6. CLAIM NUMBER 7. CROP YEAR 8. F			PHENOTYPE 9. PHASE/STAG PLANTING)				STAGE (DAYS AFTER			CRES 11	. PRACTICE		
	MMM/DD	XXXXXXXXX YYYY			SINGLE/SINGLE			DRYDO	VN / FUI	LL DRYDOWN (YDOWN (140)		10.0	002	
eet Total lbs	Total pounds per acre (43,560X15a/14)													APH Yield	Total Pounds P Acre (15
15a	15b		1					X						26	27
19.86	120													1000	120
20.67	150													1000	150
30.84	112													1000	112
		2		S.							F	IARVE	STED PR		VETHOD
		X				× C	34	. SUB-TO	ΓAL					382	
							35. NUM	MBER OF S	SAMPLES					3	
							36. POUND	S PER ACF	E APPRAI	SAL				127	
S.	20.67	20.67 150	20.67 150	20.67 150	20.67 150	20.67 150	20.67 150	20.67 150 30.84 112 1 1 1 1 1 1 34 34 35. NUM	20.67 150 30.84 112	20.67 150 30.84 112	20.67 150 30.84 112	20.67 150 30.84 112	20.67 150 30.84 112	20.67 150 30.84 112	20.67 150 1000 30.84 112 1000 Image: Im

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

Exhibit 4 Form Standards – Production Worksheet

Verify and/or make the following entries for each PW element/item number. A completed PW example is at the end of this exhibit. For general form standards and other general information, refer to <u>Subparagraph 2D</u> and <u>Paragraph 41</u>.

	Element/Item Number	Description
1.	Crop/Code #	"Sesame" (0396).
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 CLUs 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.
		If there is no insurable cause of loss 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 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 example in item 6.
		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).
6.	Insured Cause %	Preliminary: Make no entry.
		Final: Whole percent of damage for the insured cause of damage listed in
		item 5. Enter additional "Insured Cause %" in the extra spaces, as needed.
		If additional space is needed, enter the additional determined "Insured
		Cause %" in the Narrative (or on a Special Report). The total of all
		"Insured Cause %" including those entered in the Narrative must equal
		100%.

Exhibit 4 Form Standards – Production Worksheet (Continued)

E	Element/Item Number		Descri	otion									
6.	Insured Cause % (Continued)	If there is no completed, m	isurable cause of loss, a ake no entry.	nd a no indemr	nity due clai	m will be							
		Example:	Example: Entries for items 4-6 and the Narrative, reflecting entries for multiple dates of damage, the corresponding insured causes of damage and insured cause percentages:										
			4. Date(s) of Damage	MAY	JUN 30	JUN 30							
			5. Cause(s) of Damage	Exc. Moist.	Tornado	Hail							
			6. Insured Cause %	55	10	15							
			Narrative: Additional D Damage – Drought; Ins	-		ise of							
7.	Company/Agency	Name of the	ompany and agency serv	vicing the policy	у.								
8.	Name of Insured	Name of the i whom the po	isured that identifies ex cy is issued.	actly the perso	n (legal enti	ty) to							
9.	Claim #	Claim numbe	as assigned by the AIP.										
10.	Policy #	Insured's assi	ned policy number.										
11.	Crop Year	Four-digit cro	year, as defined in the	policy, for whic	ch the claim	is filed.							
		inspection. A completed. A If more space identified as a Report.	mber(s) for all non-loss in non-loss unit is any unit iditional non-loss units are needed for non-loss Non-Loss Units," in the N	for which a PW may be entered s units, enter th	/ has not be d on a single ne unit num	en PW. bers <i>,</i>							
13.	Est. Prod. Per Acre	Final: Estima	/lake no entry. ed yield per acre, in who		all non-loss (units for							
1.4	Deta(a) of Nation of Las		time of final inspection	•									
14.	Date(s) of Notice of Loss	 (1) Date t unit in compl (2) A noti neede notice 	e first or second notice item 2, in the 1st or 2nd te date (MM/DD/YYYY) e of damage or loss for I) requires an additional for a third preliminary ir second set of PWs.	space, as appl for each notice a third prelimir set of PWs. Er	icable. Ente e. hary inspection ter the date	er the on (if e of							

Exhibit 4 Form Standards – Production Worksheet (Continued)

E	lement/Item Number	Description
14.	Date(s) of Notice of Loss (Continued)	(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.
		Final: Transfer the last date (in the 1st or 2nd space from the first or second set of PWs) to the final space on the first page of the first set of PWs if a final inspection should be made as a result of the notice. Always enter the complete date of notice (MM/DD/YYYY) for the final inspection in the final space on the first set of PWs. For a delayed notice of loss or delayed claim, refer to the LAM.
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 crophail, 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) stages or intended use(s) of acreage;
- (5) shares (e.g., 50 percent and 75 percent shares on the same unit); or
- (6) appraisals for damage due to hail or fire if Hail and Fire Exclusion is in effect.

I	Element/Item Number	Description
16.	Field ID	The field or subfield identification symbol from a sketch map or an aerial photo. Refer to the Narrative instructions.
17.	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.
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. Refer to Subparagraph 2D(1). 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 (refer to <u>Subparagraph</u> <u>2D(1)</u>) 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.

E	lement/Item Number	Description
19.	Determined Acres (Continued)	Refer to the LAM for procedures regarding when estimated acres are allowed and documentation requirements. 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. Refer to Subparagraph 2D(1). If shares vary on the same unit, use separate line entries.
21.	Risk	Three-digit code for the correct "Rate" specified on the AD. If a "Rate" or "High Risk Area" is not specified on the AD, 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 written agreement.
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 (or variety) 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.
27.	Cropping Practice	Three-digit code, entered exactly as specified on the AD for the cropping practice (or practice) carried out by the insured. If "No Cropping Practice Specified" or "No Practice Specified" is shown in the AD, enter the appropriate three-digit code from the AD (e.g., 997). If a cropping practice (or practice) is not specified on the AD, make no entry.

E	lement/Item Number	Description									
28.	Organic Practice	Three-digit code, entered exactly as specified on the AD for the organic practice carried out by the insured. If "No Organic Practice Specified" is shown in the AD, enter the appropriate three-digit code from the AD (e.g.,									
		997). If an organic practice is not specified on the AD, make no entry.									
29.	Stage	Final: Stage abbreviation as shown below.									
		StageExplanation"P"Acreage abandoned without consent, put to other use without consent, damaged solely by uninsured causes, or for which the insured failed to provide records of production which are acceptable to the AIP.									
		"H" Harvested.									
		"NE" Acreage with non-emerged seed due to insufficient soil moisture (non-irrigated only).									
		"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.									
		"TH" UUF/Third Party Damage – Harvested production on same acreage.									
		Gleaned Acreage: Refer to the LAM for information on gleaning.									
30.	Use of Acreage	Use the following "Intended Use" abbreviations.									
		UseExplanation"To Millet" Use made of the acreage.									
		"WOC" Other use without consent.									
		"SU" Solely uninsured.									
		"ABA" Abandoned without consent.									
		"H" Harvested.									
		"UH" Unharvested.									

E	lement/Item Number	Description									
30.	Use of Acreage (Continued)	Verify any "Intended Use" entry. If the final use of the acreage was not as indicated, strike out the original line and initial it. Enter all data on a new line showing the correct "Final Use."									
		Gleaned Acreage: Refer to the LAM for information on gleaning.									
31.	Appraised Potential	Per-acre appraisal in whole pounds of potential production for the acreage appraised as shown on the appraisal worksheet. Refer to Part 3, "Appraisals" for additional instructions. If there is no potential on UH acreage enter "0." Refer to the LAM for procedures for documenting zero yield appraisals.									
32a	- 32b.	Make no entry.									
33.	Shell %, Factor, or Value	Make no entry.									
34.	Production Pre QA	Result of multiplying column 31 times column 19 rounded to the nearest whole pound. If no entry in column 31, make no entry.									
35.	Quality Factor	Make no entry, unless:									
		Under section 15(j) of the BP, if due to insured causes, a Federal or State agency has ordered the appraised insured crop or production to be destroyed, enter the factor ".000." 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 instructions). Refer to the LAM for additional information.									
36.	Production Post QA	If there is no entry in column 35, transfer entry from column 34. Otherwise, enter the result of multiplying column 34 times column 35 rounded to whole pounds.									
37.	Uninsured Causes	 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. 									
	nber 2024	 (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. FCIC-25015 3 									

E	lement/Item Number	Description
37.	Uninsured Causes (Continued)	 (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) The late planting provisions of the BP are not applicable for sesame.
		(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.
40.	Quality	Final: Total determined acres (column 19), to the nearest tenth. Check "None," unless:
40.	Quanty	Under section 15(j) of the BP, if due to insured causes, a Federal or State agency has ordered the appraised crop or production to be destroyed, check "Other" and document in the Narrative (or on a Special Report):
		 (1) A description of the qualifying QA condition; and (2) The name of the controlling authority that considers this qualifying
		QA condition to be injurious to human or animal health and why.
41.	Mycotoxins exceed FDA, State, or other health organization maximum limits?	Make no entry.
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 required, 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, "Damage Similar to Other Farms in the Area?"
- (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 uninsured causes are present; or
 - (c) 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 name and address of the charitable organization when gleaned acreage is applicable. Refer to the LAM for more information on gleaning.
- (20) Document any other pertinent information, including any data to support any factors used to calculate the production. If on an attachment, enter "See attachment."
- (21) 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. Refer to the LAM for additional documentation requirements.



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., released for other uses, etc.).
- (2) Columns 49 through 52 are for structure measurement entries (Rectangular, Round, 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.
- 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) If acceptable sales or weight tickets are not available, refer to the LAM.
- (6) 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) Different types (e.g., white sesame versus black sesame).
 - (d) Varying shares (e.g., 50 percent and 75 percent shares on same unit).
 - (e) 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.
- (7) There will generally be no harvested production entries in columns 47 through 66 for preliminary inspections.
- (8) 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.

E	lement/Item Number	Description									
43.	Date Harvest Completed	Used to determine if there is a delayed notice or a delayed claim. Refer to the LAM.									
		Preliminary: Make no entry.									
		 Final: (1) The earlier of the date the entire acreage on the unit was (1) harvested, (2) totally destroyed, (3) put to other use, (4) a combination of harvested, destroyed, or put to other use, or (5) the calendar 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 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, etc. Refer to the LAM.									
44.	Damage Similar to Other Farms in the	Preliminary: Make no entry.									
	Area?	Final: Check "Yes" or "No." Check "Yes" if the amount and cause of damage due to insurable causes is similar to the experience of other farms in the area. If "No" is checked, explain in the Narrative.									
45.	Assignment of Indemnity?	Check "Yes" only if an assignment of indemnity is in effect for the crop year; otherwise, check "No." Refer to the LAM.									
46.	Transfer of Right to Indemnity?	Check "Yes" only if a transfer of right to indemnity is in effect for the unit for the crop year; otherwise, check "No." Refer to the LAM.									
47a.	Share	Record only varying shares on same unit to three decimal places. Refer to Subparagraph 2D(1).									
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).									

E	lement/Item Number	Description
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.
		(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. If round enter "RND." If conical pile, enter "Cone."
51.	Depth	Depth measurement in feet to tenths of space occupied by crop in rectangular or round 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 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 36.2. (One bushel is 2,150.42 cubic inches. One cubic foot is 1,728 cubic inches. Factor – 1,728 / 2,150.42 × 45 = 36.2.)
55.	Gross Prod.	Multiply column 53 times column 54, and enter rounded to whole pounds of field run sesame.
56.	Bu., Ton, Lbs., Cwt.	Circle "Lbs." in column heading. Enter production of net whole pounds of clean dry sesame seed based on laboratory test of a sample from the delivery or the storage structure. Calculate by multiplying gross production in column 55 by the ratio of net weight of the sample (as defined in the harvested production appraisal standards).
		If the insured has multiple processor contracts with varying base contract prices within the same unit, the AIP will value the production to count by using the highest base contract price first and will continue in decreasing order to the lowest base contract price based on the amount of production insured at each base contract price.
57	60b.	Make no entry.
61.	Adjusted Production	Transfer entry from column 56.

E	lement/Item Number	Description
62.	Prod. Not to Count	Enter the 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 (storage structure sesame depth, etc.) and any "Production Not to Count" in the Narrative.
63.	Production Pre-QA	Result of subtracting column 62 from column 61.
64a.	Value	Make no entry.
64b.	Mkt. Price	Enter the base contract price per pound, in dollars and cents.
65.	Quality Factor	Make no entry, unless: Under section 15(j) of the BP, if due to insured causes, a Federal or State
		agency has ordered the appraised insured crop or production to be
		destroyed, enter the factor ".000." 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 instructions). Refer to the LAM for additional information.
66.	Production to Count	If there is no entry in column 65, transfer entry from column 63. Otherwise, enter the result of multiplying column 63 times column 65 rounded to whole pounds.
67.	Total	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 shares, stages, APH yields, price elections, 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.

E	Element/Item Number	Description
68.	Section II Total	Preliminary: Make no entry.
		Final: Total of column 66.
69.	Section I Total	Preliminary: Make no entry.
		Final: Enter figure from Section I, column 38 total.
70.	Unit Total	Preliminary: Make no entry.
		Final: Total of 68 and 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 Section I or II of the PW. Document how allocated
		production was determined and record supporting calculations in the
		Narrative or on a Special Report.
72.	Total APH Prod.	Result of subtracting the total of column 37 (item 42 "Totals") and item 71
		(Allocated Prod.) from item 70 (Unit Total). If no entries in item 37 and
		item 71, transfer the entry in item 70. Make no entry when separate APH
		yields are maintained by type, practice, etc., within the unit.

The following required entries are not illustrated on the following PW example.

E	Element/Item Number	Description
73.	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 PW with the insured (or insured's authorized representative), particularly explaining codes, etc., that may not be readily understood. Final indemnity inspections should be signed on bottom line.
74.	Adjuster's Signature, Code #, and Date	Signature of adjuster, code number, and date signed after the insured (or insured's authorized representative) has signed. For an absentee insured, enter adjuster's code number only. The signature and date will be entered after the absentee has signed and returned the PW. Final indemnity inspections should be signed on bottom line.
75.	Page	Preliminary: Page numbers - "1," "2," etc., at the time of inspection.Final: Page numbers - Example: Page 1 of 1, Page 1 of 2, Page 2 of 2, etc.

1. Cr	p/Code #		2. Uni	it #	3. Loca	ation Descr	ription	7.	Company	,		ANY	COMPAN	Y		8. Name	of Insured						
Sesame						Agency ANY AGENCY						I.M. INSURED											
0396 0001-0001 BU					SE6-140	N-50W									9. Claim				11. Cro	· · · · · · · · · · · · · · · · · · ·			
	te(s) of Da			JG 10		DCT 1		-				_				20 010		000000				YYY	
5. Cause(s) of Damage HAIL Freeze						-			-		_				10. Polic		• et			XXXXX			
6. Insured Cause % 60 40								-		_				14. Date	1-1	L st		2nd	0.000103100.00010000	inal			
12. Additional Units 0002-0002 BU 0003-0003 BU 13. Est. Prod. Per Acre 1,100 1,500										-						Notice of	panion Poli		DD/YYYY	MM/	DD/YYYY	MM/DI)/YYYY
				/		PRODUCT			IENTS							15. Com	ipanion Poli	cy(s)					
	TUARIAL		ACINE		WISED,	FRODUCT		ADJOSTN	LINIS						1	B. POTEN	TIAL VIELD						
					1			-			÷						32a.		5 S			÷	
16.	17.	18.	1	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	32b.	33.	34.	35.	36.	37.	38.
Field ID	Multi- Crop Code	Reported Acres	1000000	rmined	nterest or Share	Risk	Туре	Class	Sub- In Class	tended Use	Irr Practice	Cropping Practice	Organic Practice	Stage	Use of Acreage	Appraised Potential	Moisture % Factor	Shell %, Factor, or Value	Production Pre QA	Quality Factor	Production Post QA	Uninsured Causes	Total to Count
Α	NS		2	0.0	1.000		341					002		UH	UH	463			9,260		9,260		9,260
в	NS	13.0	1	2.5	1.000		341					002		н	н								
с	NS		2	5.0	1.000		341					002		UH	UH	471			11,775		11,775		11,775
		39. TOTA	L 5	7.5	Sclero	ty: TW 🗆 tinia 🗆 E toxins exce	Ergoty 🗆	CoFo 🗆	Other	□ Nor	ne 🗵				Roast 🗆		42	2. TOTALS	21,035		21,035	6 S	21,035
NARR	ATIVE (If r	nore space	e is nee	eded, att	ach a Sp	ecial Repo	ort): Acre	eage deter	mined b	ased on	perman	ent FSA fi	eld measu	rement	s. Field B	12,000 lbs	harvested.						
CECTI	DN II – DE	TEDMAINE			PODUCT			-	-														
	ate Harves			ESTED P		44. Dama	ae cimila	r to other	farms in	the are:	-2		45 Ass	ignmen	t of Indemr	nity			46 Tran	sfer of Pig	ht to Indem	nity?	1
40. 0	ace manye.	MM/DD				HH. Dumo	ge sinnia	Yes	X No		u.		-5. 755	grinten	Yes	No	X			Yes		x	
A. M	ASUREM		7		1	B. GROSS	PRODU		141 16		DJUSTME	NTS TO H	ARVESTED	PRODU		1.0			5.0				
47a	-	49.	50.	51.	52.	53.	54.	55.	56.			58a.	59a. 59b.	60a. 60b.	61		62.	63.		64a. 64b.	65.		66.
Shar Field ID	- Crop	Length or Diameter	Width	Depth	Deduc- tion	Net Cubic Feet	Conver- sion Factor	Gross Prod.	Ctns Bu To (Lbs.) CWT	A Su	iell/ I igar		Moisture % Factor	Test W Facto	Produ	ction Pro	od. Not Count	Production Value Pre-QA		Value Ikt. Price	Quality F	121	oduction o Count
	- NS		1	ACME I Any Tow	ELEVATO n, Any S				12,00	D					12,0	000		12,00	0	0.28			12,000
	-																						
	-																						
2													2				7. TOTAL	12,00	0	6	8. Section I	I Total	12,000
																	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -				59. Section		21,035
			TL			مسام راء		:	. الم مغ				- 1				- 1				70. Uni		33,035
			in	nis torn	n exar	npie do	es not	inustra	ite all i	equi	rea ent	ry iten	is (e.g.,	signa	tures, d	lates, et	c.).			7	1. Allocated	Prod.	1
																				72	2. Total APH	Prod.	33,035

PRODUCTION WORKSHEET

Exhibit 5 Minimum Representative Sample Requirements

Acres in Field or Subfield	Minimum No. 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.



Exhibit 6 Sample Row Length

In all samples, the length is measured at the base of the plants at soil level. Any plant within the length is considered part of the sample even if branches from those plants extend out beyond the sample length. Branches of plants outside the sample area that extend into the sample area will not be counted.

To calculate the sample row length based on row width to equate to 1/1,000 of an acre:

- (1) Divide row width in inches (nearest whole inch) by 12 inches/foot and round to the nearest thousandth.
- (2) Divide 43,560 square feet/acre by the determined row width in item (1) above and round to the nearest whole number.
- (3) Divide the result in item (2) above by 1,000 (for 1/1,000 acre) and round to the nearest tenth.
- Example: Measured row width in the field is 25 inches

25 inches ÷ 12 inches/foot = 2.083 feet

43,560 square feet/acre ÷ 2.083 feet = 20,912

20,912 ÷ 1,000 = 20.9 feet row length

The table below provides a quick reference of row length requirements based on common row widths:

ROW WIDTH	ROW LENGTH
	FOR 1/1,000 ACRE
42 inches	12.4 feet
40 inches	13.1 feet
38 inches	13.8 feet
36 inches	14.5 feet
34 inches	15.4 feet
32 inches	16.3 feet
30 inches	17.4 feet
28 inches	18.7 feet
26 inches	20.1 feet
24 inches	21.8 feet
22 inches	23.8 feet
20 inches	26.1 feet
18 inches	29.0 feet
15 inches	34.8 feet
7.5 inches	2 rows wide by 34.8 feet

Exhibit 7 Percent Surviving Yield

A. Stand Reduction

Use the table below to determine the surviving yield from stand reduction based on phenotype. Use the first row for single stem types (single or triple capsules) and the second row for branched stem types (single or triple capsules). See Exhibit 9 for instructions on determining phenotypes. A stand of 40 plants per 1/1,000 of an acre is considered a full stand and there is 100% surviving yield. For odd numbers of stands round up, e.g., a count of 29 becomes 30.

Surviving stands per 1/1,000 of an acre:	≥ 40	38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2
Single stem	1.00	.95	.91	.87	.82	.77	.71	.65	.58	.51	.44	.37	.30	.23	.16	.09	.07	.05	.03	.02
Branched	1.00	.99	.95	.91	.86	.81	.75	.69	.62	.55	.48	.41	.34	.27	.20	.13	.11	.09	.07	.06

B. Defoliation with GP Intact

Use the table below to determine the surviving yield from defoliation with the main stem GP intact. Round % leaf loss. For the lower two of the four numbers between two row headings, round down. For the higher two, round up.

% leaf loss	Pre-reproductive	Early bloom (0-5 node pairs)	Mid bloom (6- 10 node pairs)	Mid bloom (11- 15 node pairs)	Mid bloom (>15 node pairs)	Late bloom
5	1.00	1.00	1.00	1.00	1.00	1.00
10	1.00	1.00	1.00	1.00	1.00	.97
15	1.00	1.00	1.00	1.00	.97	.94
20	1.00	1.00	1.00	.98	.95	.91
25	1.00	1.00	.98	.96	.92	.88
30	1.00	.99	.97	.94	.90	.85
35	.99	.97	.95	.92	.87	.82
40	.98	.96	.93	.89	.85	.79
45	.97	.95	.92	.87	.82	.76
50	.95	.94	.90	.85	.80	.73
55	.94	.92	.88	.83	.77	.71
60	.93	.91	.87	.81	.74	.68
65	.92	.90	.85	.79	.72	.65
70	.91	.89	.83	.77	.69	.62
75	.90	.87	.81	.75	.67	.59
80	.88	.86	.80	.72	.64	.56
85	.87	.85	.78	.70	.62	.53
90	.86	.84	.76	.68	.59	.50
95	.85	.82	.75	.66	.57	.47
100	.84	.81	.73	.64	.54	.44



C. Defoliation with GP Damaged

Use the table below to determine the surviving yield from defoliation with the main stem GP damaged.

For % leaf loss, round to the nearest % listed (for the lower two of the four numbers between two row headings, round down; for the higher two, round up).

% leaf loss	Pre-reproductive	Early bloom (0-5 node pairs)	Mid bloom (6- 10 node pairs)	Mid bloom (11-15 node pairs)	Mid bloom (>15 node pairs)	Late bloom
5	1.00	1.00	1.00	1.00	1.00	1.00
10	1.00	1.00	1.00	1.00	1.00	.95
15	1.00	1.00	1.00	1.00	.95	.90
20	1.00	1.00	1.00	.96	.91	.85
25	1.00	1.00	.96	.92	.86	.80
30	1.00	.97	.93	.87	.82	.75
35	.98	.94	.89	.83	.77	.70
40	.97	.91	.85	.79	.72	.65
45	.95	.88	.82	.75	.68	.60
50	.94	.85	.78	.70	.63	.55
55	.92	.82	.74	.66	.59	.51
60	.91	.79	.71	.62	.54	.46
65	.89	.75	.67	.58	.49	.41
70	.88	.72	.63	.53	.45	.36
75	.86	.69	.59	.49	.40	.31
80	.85	.66	.56	.45	.35	.26
85	.83	.63	.52	.41	.31	.21
90	.82	.60	.48	.36	.26	.16
95	.80	.57	.45	.32	.22	.11
100	.78	.54	.41	.28	.17	.06



Exhibit 8 Seed Weight Per Capsule

These values in this table are 93% of the total potential seed weight per capsule, taking into account a 7% loss in potential yield due to weather during the drying stage and combine header loss.

Plant Phenotype	Irrigated Weight per Capsule (grams)	Non-Irrigated Weight per Capsule (grams)
Single stem, single capsule	0.192	0.169
Single stem, triple capsule	0.145	0.128
Branched, single capsule	0.185	0.163
Branched, triple capsule	0.122	0.107



Exhibit 9 Sesame Phenotypes

A. Phenotype

A phenotype is any observable characteristic or trait of an organism, such as its morphology, development, biochemical or physiological properties, or behavior. The genotype of an organism is the inherited instructions it carries within its genetic code. Not all organisms with the same genotype look or act the same way because appearance and behavior are modified by environmental and developmental conditions. Similarly, not all organisms that look alike necessarily have the same genotype.

The variations of sesame genotypes/phenotypes are as follows:

- (1) Single stem with single capsule;
- (2) Single stem with triple capsules;
- (3) Branched with single capsule; or
- (4) Branched with triple capsules.

Walking into a field and looking at a limited number of plants at the edge can lead to a misidentification of the phenotype. In low populations, single stem genotypes can put on branches and single capsule genotypes can have a few node pairs with triple capsules. In high populations, branched genotypes can have no branches and triple capsule genotypes can have a few node pairs with triple capsules. In high populations, branched genotypes can have no branches and triple capsule genotypes can have a few node pairs with triple capsule genotypes may not have branches and triple capsule genotypes may have few node pairs with triple capsules.



A. Phenotype (Continued)

Phenotype	Illustration
Single stem form will have a dominant mainstem, although occasional branches may develop in thin stands, in skips or if the mainstem node is damaged. Capsules (single or triple) usually begin forming at node 6.	
Single capsule form showing a capsule at each of a node pair.	
Branched form will develop 4-6 producing stems from basal nodes 2- 6. There may be a single capsule or triple capsules per node.	
Triple capsule form showing only one of the two opposite nodes on a stem. There will be 6 capsules at each node pair.	



Exhibit 9 Sesame Phenotypes (Continued)

B. Branching Characteristics

- (1) The key to identifying whether a line is branched or single stem is the length of the branches versus the point of origin on the plant. In a branched line, the longest branch will grow out of the leaf axil pair below the nodes that formed the first flowers, with shorter branches above each lower node pair. Essentially, the longest branches are above the shorter branches. In single stem lines, the branches will generally form only after the plants shed their lower leaves. Since the lowest leaves are shed first, the branches will form at the base of the plant, and they will be the longest branches with shorter branches on higher node pairs.
- (2) Branching is a dominant genetic character, making it difficult to purify. In every branched line there will be single stem plants, and vice versa. The identification of the branching must be based on looking at many plants in normal populations.
- (3) Branched lines can be subdivided into lines with few branches and many branches. However, this delineation does not affect the appraisal methods, and is not discussed in this document.
- (4) Direct sunlight has a tremendous effect on the amount of branching. In order for a branch to form, light needs to strike the leaf axil. In some single stem lines, there is no branching under all circumstances. However, most single stem and branched lines have the potential of making a branch in every leaf axil in the open. The amount of light that reaches the branches is dependent on population and/or leaf area. Higher populations and lines with larger leaves shade the leaf axils preventing branches from growing and developing flowers and then capsules. In order for a branch to keep growing, it needs light at the growing tip.
- (5) Latitude and row spacing can affect branching. With wider row spacing, more light gets to the lower part of the plant. In northern latitudes, there are longer days in the summer providing more light. Areas like the Caprock of Texas with wide row spacing and higher latitude have the most branching.
- (6) Some lines have the potential to form secondary branches on the branches, and a few have the potential for tertiary branches.
- (7) In a low moisture/fertility field, there may be no branches.



Exhibit 9 Sesame Phenotypes (Continued)

C. Capsules per Leaf Axil Characteristics

- (1) The key to identifying whether a line has single or triple capsules is to look at the middle part of the main stem in a normal population. The single capsule line will have single capsules per leaf axil, and the triple capsule line will have 2 to 3 (rarely 4 to 5) capsules per leaf axil. The average for a triple capsule line across all nodes of a plant is 1.7 capsules per leaf axil.
- (2) As with branching, the formation of capsules depends on light to the leaf axil. The pattern of flowering in a triple capsule line is that the central flower will open first while the axillary flowers open 2-5 days later. As the plant grows, the leaves get larger, and the leaves may shade out the axillary flowers. In a low light situation, the axillary flowers may not develop at all.
- (3) In triple capsule lines, the lowest and highest node pairs normally will have a single capsule per leaf axil in low, normal, and high populations. In single capsule lines, in wide row spacing, high moisture/fertility, and higher latitudes, there may be plants with triple capsules in the middle of the main stem, but these will be the exception rather than the rule.
- (4) In single capsule lines, there are nectaries on each side of the capsule. These are yellow and round. They are rudimentary flowers, but will rarely make a flower. They do produce nectar that is harvested by some insects.
- (5) In a low moisture/fertility field, there may be no axillary capsules. In a few lines, with adequate future moisture, the axillary capsules may form later.



Exhibit 10 Sesame Growth Stage Characteristics

There are four major growth stages: Vegetative, Reproductive, Ripening, and Drying.

The nominal number of days for each stage is provided as a general guideline. The days are expressed in DAP. The nominal number of days for each stage is expressed in weeks. The actual number of days will depend on variety, amount of rainfall, amount of fertility, and temperature variation from normal temperatures.

Phase / Stage	Duration	Narrative
Vegetative	0-40 DAP	The plants primarily develop stems and leaves in order to establish a photosynthetic base to produce seed.
Germination	Weeks: 1	Emerges 3 to 7 DAP depending on soil temperatures and planting depth. Since sesame is a small seeded plant, the initial plants are much smaller than many other crops that are appraised. Sesame self-thins, and thus the number of plants per foot at the emergence stage is higher than the final number of plants at harvest.
		End point: When the seedlings emerge.
Seedling	Weeks: 3	The plants grow slowly as the plants are putting down deep roots to follow the moisture.
		End point: When the third pair of true leaves are the same length as the second pair of true leaves.
Juvenile	Weeks: 1	Dramatic surge in growth period. During this stage, the stem and branches are developing nodes which will contain the flower buds. The leaves increase in size from bottom to top until the 5th or 6th node pair when they will start to decrease in size primarily in leaf blade width and petiole length. The stems are succulent and can be damaged by large hail. End point: When the first yellowish green buds appear.
Pre-reproductive	Weeks: 1	From this point until the late bloom stage, the rate of growth is about the same. Immature buds can be seen without pushing open the new leaves on the GP. These buds are yellowish green and the lip covers the opening at the tip of the flower. This stage indicates that the reproductive stage is imminent.
		End point: When 50% of the plants have at least one whitish open flower.



Phase / Stage	Duration	Narrative
Reproductive	41-80 DAP	The plant continues developing stems and leaves, but the distance between the leaves and the size of the leaves are reduced. The plants make flowers and capsules and start filling the seed.
Early bloom	Weeks: 1	The first flowers usually abort, and the first capsules normally form on the 4th to 6th node pair from the ground. End point: 5 node pairs of capsules.
Mid-bloom	Weeks: 3-4	The plants bloom profusely as the flowers appear on the next higher stem node. In single capsule lines, 1-4 flowers will open on each GP each day, with fewer flowers on the branches. In triple capsule lines, 1-9 flowers will open. About 70-75% of the flowers appear between the 2nd and 3rd week of bloom. Seed capsules grow rapidly, but it takes 25-40 days for the seed to fill and mature with the last capsules maturing faster. End point: Branches and minor plants stop flowering.
Late bloom	Weeks: 1	The number of flowers in the field is reduced, and there are fewer open flowers on the main stem. In a drought, the field can appear to be at this stage, and with no rain will proceed to ripening. However, with adequate rain can revert to the mid bloom stage. End point: Flower termination – 90% of plants do not have open whitish flowers.



Exhibit 10 Sesame Growth Stage Characteristics (Continued)

Phase / Stage	Duration	Narrative
Ripening	81-105 DAP	The reproductive and ripening stages actually overlap in that older capsules at the base are filling while there are still flowers at the top of the plant. The ripening stage ends at physiological maturity when the seeds in the capsules three/fourths of the way up the capsule zone turn from a white color to a darker color (ranging from light buff to black). Early cold weather or an early frost will not damage seed yield after physiological maturity. A hard freeze may damage the seed and cause oil damage. Plants begin to self-defoliate from the base as lower capsules mature.
Drying	106-135 DAP	Seeds mature to the top of the plant and capsules begin to turn brown and open at the tip. Drying patterns differ with most starting in the middle of the capsule zone and going in both directions. As the capsules dry, the stems will dry. Once the seed begins losing moisture, it is less vulnerable to a hard freeze. This is the most difficult stage to determine in a field because there are so many differences. The edges of the field and lower (generally higher moisture) parts of the field dry down slower. Hills where the rainfall does not accumulate dry down faster with increased slope. On the other hand, in a frost or freeze, cold air will settle in lower areas and cause those areas to dry down faster. Higher plant populations will dry down faster than lower plant populations due to thinner stems in the former.
Full maturity	Weeks: 1	All seed finishes filling. Although technically this stage ends when all the seed is mature, pragmatically, it ends when the seeds in the capsules two node pairs from the top are mature. The top capsules contribute little to yield. End point: All seed mature.
Initial dry down	Weeks: 2	Capsules begin to turn brown and open at the tip. End point: First dry capsules.
Late dry down	Weeks: 2	Once the seed begins losing moisture, it is less vulnerable to a hard freeze.
		End point: Full dry down of plants to the point where a combine can recover the seed at less than 6% moisture.