United States Department of Agriculture

Federal Crop Insurance Corporation

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# SOYBEAN LOSS ADJUSTMENT STANDARDS HANDBOOK

## 2016 and Succeeding Crop Years

**UNITED STATES DEPARTMENT OF AGRICULTURE**
**WASHINGTON, D.C. 20250**

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| **TITLE: SOYBEAN LOSS ADJUSTMENT STANDARDS HANDBOOK** | **NUMBER: 25440** |
| **EFFECTIVE DATE: 2016 and Succeeding Crop Years** | **ISSUE DATE: November 30, 2015** |
| **SUBJECT:**<br><br>**Provides the procedures and instructions for administering the Soybean crop insurance program** | **OPI: Product Administration and Standards Division**<br>**APPROVED:**<br><br>**/S:/ Tim B. Witt**<br><br>**Deputy Administrator for Product Management** |

## REASON FOR ISSUANCE

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

1. Revised the handbook to incorporate the most recent FCIC loss adjustment handbook standards format and standard language. Many paragraphs and sections within the handbook were rewritten or relocated to increase clarity and understanding. Throughout the handbook, references were revised to reflect the new handbook format, removal and rearrangement of various sections and tables. Throughout the amended pages, changes were made to correct spelling, punctuation, formatting and to correct subparagraph and section numbering.

2. Reformatted the handbook into Parts, paragraphs, subparagraphs, sections, subsections and exhibits in accordance with the new handbook standards format.

3. Exhibit 3: Revised the acres in item 9 to match the required number of samples shown on the appraisal worksheet. Changed the stages in items 14 and 15. Updated the calculation throughout the form.

## CONTROL CHART

| Soybean Loss Adjustment Standards Handbook | | | | | | |
|---|---|---|---|---|---|---|
| | TP Page(s) | TC Page(s) | Text Page(s) | Exhibits | Date | FCIC Number |
| Remove | Entire Handbook | | | | 02-2015 | FCIC-25440-3 |
| Current Index | 1-2 | 1-2 | 1-20 | 21-83 | 11-2015 | FCIC-25440 |

## FILING INSTRUCTIONS

This handbook replaces the 2015 Soybean Loss Adjustment Standards Handbook, FCIC-25440-3 (02-2015). This handbook is effective for the 2016 and succeeding crop years and is not retroactive to any 2015 or prior crop year determinations.

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# PART 1 GENERAL INFORMATION AND RESPONSIBILITIES

## 1 General Information

### A. Purpose and Objective

The RMA issued loss adjustment standards for this crop are the official standard requirements for adjusting losses in a uniform and timely manner. The RMA issued standards for this crop and crop year are in effect as of the signature date for this crop handbook located at www.rma.usda.gov/handbooks/25000/index.html.

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

### B. Related Handbooks

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

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

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

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

### C. CAT Coverage

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

## 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 AIPs responsibility to maintain records (documents) as stated in the SRA and described in the LAM.

**D. Form Standards**

(1) The entry items in exhibits 3 - 4 are the minimum requirements for the Appraisal Worksheets and the Production Worksheet (PW). All entry items are "Substantive" (they are required).

(2) The Privacy Act and Non-Discrimination statements are required statements that must be printed on the form or provided to the insured as a separate document. These statements are not shown on the example form(s) in exhibits 3 - 4. The current Non-Discrimination Statement and Privacy Act Statement can be found on the RMA website at: http://www.rma.usda.gov/regs/required.html or successor website.

(3) The certification statement required by the current DSSH must be included on the PW directly above the insured's signature block immediately followed by the statement below:

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

(4) Refer to the DSSH for other crop insurance form requirements (such as point size of font, and so forth).

**3-10 (Reserved)**

# PART 2 POLICY INFORMATION

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

## 11 Insurability

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

(1) The crop insured will be all soybeans in the county in which the insured has a share, for which premium rates are provided by the actuarial documents; and

(a) That are planted for harvest as beans;

(b) That are adapted to the area based on days to maturity and is compatible with agronomic and weather conditions in the area;

(c) Unless allowed in the SP or a written agreement, soybeans are not insurable if they are:

(i) interplanted with another crop; or

(ii) planted into an established grass or legume.

(2) Unless otherwise allowed by the SP, soybeans must be mechanically incorporated into the soil in the planting process to be considered insurable. Refer to the LAM. Refer to the SP for any applicable allowed practices such as "Non-Conventional (NC)." The "Non-Conventional" practice applies to soybeans planted in a two-step operation in which the seed is first broadcast onto the surface of the soil by any method and is subsequently incorporated into the soil at the proper depth in a timely manner. Written agreements may be issued to insure soybean acreage seeded by methods not rated on the actuarial documents if specified standards provided for in the written agreement are met.

(3) Any acreage of the insured crop damaged before the final planting date, to the extent that the majority of producers in the area would normally not further care for the crop, must be replanted unless the AIP agrees that it is not practical. Refer to the LAM for replanting provision issues. Refer to Part 3 of this handbook for replanting payment procedures.

(4) In addition to the requirements in the BP, the insured must elect to insure soybeans with either revenue protection or yield protection by the sales closing date.

## 12 Unit Division

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

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

## 13 Soybean Quality Adjustment

(1) The adjuster must refer to the SP if production is eligible for QA as identified in the CP.

(2) Refer to the LAM for information on speculative type contract prices in QA. The QA factor cannot be greater than 1.000 or less than zero (.000).

(3) Soybean production, in accordance with the CP, will be eligible for QA if:

(a) Deficiencies in quality (due to insurable causes of loss), in accordance with the Official United States Standards for Grain, result in soybeans not meeting the grade requirements for U.S. No. 4 or better (grades U.S. Sample Grade) because of kernel damage (excluding heat damage) or having a musty, sour, or commercially objectionable foreign odor (except garlic odor) or which meet the special grade for garlicky soybeans,

(b) The test weight is less than 49 pounds and discount factors are provided in the SP; or

(c) Substances or conditions are present that are identified by the Food and Drug Administration or other public health organizations of the United States as being injurious to human or animal health. "Green Damage" (soybeans which are discolored green in cross section), as described by FGIS, will be considered as a type of kernel damage.

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" on the PW in column 35 for appraised production or column 65 for harvested production, as applicable. Instruct the insured to complete and submit a Certification Form stating the date the crop or production was destroyed and the method of destruction (refer to item 40 and the Narrative in exhibit 4). Also refer to the LAM for additional information. Otherwise, make no entry.

Refer to the LAM for instructions on who can obtain samples for grading and who can make determinations of deficiencies, conditions and substances that would cause the crop to qualify for QA.

(4) When due to insurable cause(s), use of QA for soybeans is handled by determining the appropriate discount factors from the SP, summing them together, if applicable, and subtracting from 1.000 to obtain the applicable QA Factor (percent of production to count). Refer to the SP for chart discount factors, instructions for calculating non-chart discount factors, and other discounts allowed. Also, refer to the LAM for examples and guidance in determining RIV's to determine non-chart discount factors.

(5) Moisture adjustment is applied prior to applying any qualifying adjustment for quality such as test weight, kernel damage, etc. A soybean moisture adjustment chart is located in exhibit 16. Moisture adjustment results in a reduction in production to count of 0.12 percent for each 0.1 percent moisture in excess of 13 percent.

(6) For soybeans for which RIV's apply, and which can be conditioned/reconditioned, refer to the Quality Statement(s) in the SP and the LAM for instructions.

(7) If a local market cannot be found for the soybeans, refer to the LAM.

(8) Refer to the LAM for special instructions regarding mycotoxin-infected grain.

(9) Document QA information as described in the instructions for the Narrative section of the PW (exhibit 4), or on a Special Report.

(10) For additional QA definitions, instructions, qualifications, and testing requirements, refer to the LAM and the Official United States Standards for Grain.

(11) For specialty use type soybeans, QA will be provided as specified in the CP and SP. No additional QA will be made for any specialty type. Specialty trait soybeans will be quality adjusted as commodity soybeans. The DF charts in the SP, or the RIV and LMP for commodity soybeans, as applicable, will be used for QA purposes, without regard to any contract price for the specialty type insured.

**14-20 (Reserved)**

## PART 3 REPLANTING PAYMENT PROCEDURES

### 21 Replanting Payment Procedures

(1) Replanting payments made on acreage replanted by a practice that was uninsurable as an original planting will require the deduction of the replanting payment for such acreage from the original unit liability. If the unit dollar loss (final claim) is less than the original unit liability minus such replanting payment, the actual indemnity dollar amount will not be affected by the replanting payment. The premium will not be reduced.

(2) No replanting payment will be made on acreage on which one replanting payment has already been allowed for the crop year.

(3) Specialty Type Soybeans (Large Seeded Food Grade, Small Seeded Food Grade; All Other Food Grade, Low Linolenic Acid, Low Saturated Fat, or High Protein):

(a) For soybeans insured at the contract price, it will not be considered practical to replant the specialty type soybean unless production from the replanted acreage can be delivered under the terms of the contract or the business enterprise has agreed to accept the production.

(b) When it is practical to replant the specialty type soybean originally planted, the acreage must be replanted to the specialty type originally planted on the acreage.

(c) When it is not practical to replant to the same specialty type soybean originally planted on the acreage, the policyholder may (1) choose to not replant and may receive an indemnity based on a crop appraisal; (2) replant the same specialty type soybean originally planted on the acreage; or plant to another crop, in which case the first/second crop rules apply; or (3) replant to another specialty type soybean or soybean commodity type, provided it is practical to replant such type. The replanted type will be considered a replanted crop. If it is not practical to replant to another specialty type soybean or soybean commodity type and any other type of soybean is planted, the crop planted will be considered a second crop.

If it is practical to replant to a different soybean type and the insured elected to replant to a different specialty type (provided all insurability requirements are met), or a commodity type, a revised acreage report (if previously filed) must be processed prior to processing a replant claim.

(i) Standard rules for acreage report revision apply (refer to the LAM).

(ii) The applicable projected price of the replanted soybean type will be used to determine any replanting payment and to establish the premium and liability for the replanted acreage.

(iii) Acreage that is replanted to a different type may have an increase or decrease in liability from that originally reported.

## 22 Qualifications for Replanting Payment

To qualify for replanting payment, the:

(1) insured crop must be damaged by an insurable cause;

(2) AIP determines that it is practical to replant (refer to the LAM);

(3) acres being replanted must have been initially planted on or after the "Earliest Planting" date established by the SP;

(4) bushel per acre appraisal (or the appraisal plus any appraisals for uninsured causes of loss) must be less than 90 percent of the bushel per acre production guarantee for the acreage the insured intends to replant (Refer to paragraph 35);

(5) acreage replanted must be at least the lesser of 20 acres or 20 percent of the insured planted acreage for the unit as determined on the final planting date or within the late planting period if a late planting period is applicable (Any acreage planted after the end of the late planting period will not be included when determining if the 20 acres or 20 percent qualification is met. Refer to the LAM.); and

(6) AIP has given consent to replant.

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

## 23 Maximum Replanting Payment

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

(1) the product of multiplying the maximum bushels allowed in the policy (3 bushels) by the projected price of the replanted type, times the insured's share in the crop; or

(2) 20 percent of the production guarantee times the applicable projected price of the replanted type times the insured's share.

Calculate the number of bushels per acre allowed for a replanting payment as follows. Show all calculations in the Narrative section of the PW or on a Special Report.

**Example 1:**

30 acres replanted
20% of prod. guar. (37.5 bu. x 20%) x 1.000 (share) = 7.5 bu.
3.0 bu. (maximum bu. allowed in policy) x 1.000 (share) = 3.0 bu.
The lesser of 7.5 bu. or 3.0 bu. is 3.0 bu.
Actual bushels per acre allowed = 3.0 bu.

## 23 Maximum Replanting Payment

Enter the number of bushels per acre allowed (3.0) bu. in Section I - column 31, "Appraised Potential" of the PW.

**Example 2:**

Landlord/tenant (50/50 share)
30 acres replanted.
20% of prod. guar. (37.5 bu. x 20%) = 7.5 bu. x .500 (share) = 3.8 bu.
3.0 bu. (maximum bu. allowed in policy) x .500 (share) = 1.5 bu.
The lesser of 3.8 bu. and 1.5 bu. is 1.5 bu.
Actual bushels per acre allowed = 1.5 bu.

Enter the number of bushels allowed (1.5 bu.) if share has been applied, or the number of bushels allowed (3.0 bu.) if share has yet to be applied in Section I, column 31, "Appraised Potential" of the PW. (Follow individual AIP guidelines). Indicate in the Narrative if the bushels allowed for replanting have/have not been reduced for share on the PW according to AIP guidelines.

## 24 Replanting Payment Inspections

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

**25-30 (Reserved)**

# PART 4 APPRAISALS

## 31 General Information

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

## 32 Selecting Representative Samples

### A. Determine Minimum Samples

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

### B. Splitting Fields

(1) Split the field into subfields when:

(a) Variable damage causes the crop potential to appear to be significantly different within the same field; or

(b) The insured wishes to destroy a portion of a field.

(2) Each field or subfield must be appraised separately.

(3) Take not less than the minimum number (count) of representative samples required in exhibit 5 (Minimum Representative Sample Requirements) for each field or subfield.

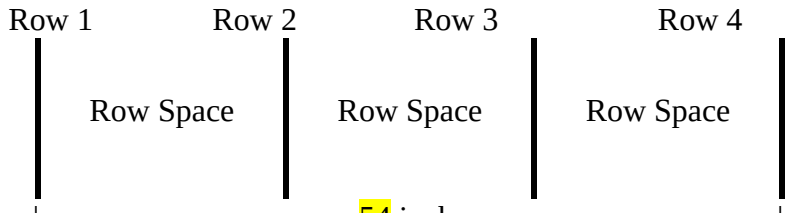
## 33 Measuring Row Width for Sample Selection

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

(1) Use a measuring tape marked in inches or convert a tape marked in tenths, to inches, to measure row width (refer to the LAM for conversion table).

(2) Measure across three or more row spaces, from the center of the first row to the center of the fourth row (or as many rows as needed), and divide the result by the number of row spaces measured across, to determine an average row width to the nearest one-half inch.

**Example:**




54.0 inches ÷ 3 row spaces = 18.0 inch average row width

## 33 Measuring Row Width for Sample Selection

(3) Apply the average row width to exhibit 6 (Row Width Factor) to determine the factor required for the sample row. (The row-width factor is applied only to the Seed Count appraisal method).

(4) Where rows are skipped for tractor and planter tires, refer to the LAM.

(5) For broadcast acreage, use a 3-foot square grid (9 square feet).

## 34 Plant Types and Stages of Growth

(1) These instructions provide plant-type and growth-stage information for use when appraising potential production during various stages of growth.

(2) Soybean Types and Regions of Production. Soybeans fall into two general types, determinate and indeterminate, with several varieties in each type. Determinate soybeans discontinue vegetative growth prior to beginning reproductive stages. Indeterminate soybeans continue vegetative growth while in the reproductive stages. Determinate varieties usually are planted in the southern region and indeterminate varieties are planted in the northern region.

(3) Plant Characteristics:

(a) Indeterminate type (Maturity Group IV and earlier-maturing varieties):

(i) Pods are generally formed on the main stem of the plant.

(ii) The plant is generally less bushy than the determinate varieties.

(iii) The blooming period begins earlier and extends over a longer period of time than the determinate type. Flowering begins at the 4th or 5th node and progresses upward.

(b) Determinate type (Maturity Group V and later-maturing varieties):

(i) Pods are formed on branches as well as on the main stem of the plant.

(ii) Plants branch out considerably more than the indeterminate type and reach almost full height before blooming.

(iii) The blooming period is shorter than the indeterminate type. Regardless of planting dates, the same (determinate type) variety will generally bloom at the same time and with the same duration. Flowering begins at the 8th or 10th node and progresses both up and down.

(4) Growth Stage Determination and Designation:

(a) The growth stage determination is based on at least 50 percent of plants having reached the stage described. The main stem is used for stage determination and branches are ignored. Stage of growth is determined by the examination of 10 consecutive plants with a complete main stem. Fields should be split into sub-fields to reflect distinctly different stages from different parts of the field.

(b) Designation:

(i) Vegetative (V) Stages - From emergence of the plant until first bloom.

(ii) Reproductive (R) Stages - After bloom through plant maturity.

(c) For hail damage the stage of growth at the time of damage can be determined by inspecting the plant to determine the portions (leaves, pods, etc.) exposed at the time of the storm. In the absence of hail, and as verification, the stage can be determined by counting back from the date of adjustment by the time-intervals between stages.

**Note:** Do not attempt to go from reproductive to vegetative stages using time intervals.

(5) Vegetative Stage Identification:

(a) Determination of all vegetative stages requires node identification. Vegetative stages are determined by counting the nodes above the cotyledonary node.

(b) A node is the part of the stem from which leaves develop. When the leaf drops from the plant, the node is marked by a small knob that remains on the stem. Nodes, not leaves, are counted for stage determination.

(c) The cotyledonary node has 2 cotyledons (seed leaves) located directly opposite each other at the bottom of the main stem. The cotyledons are pulled above the soil surface as the seedling develops.

(d) The unifoliate node has 2 unifoliate (single leaflet) leaves located directly opposite each other, immediately above the cotyledonary node. This node is the first node counted in staging the growth of a soybean plant.

(e) All nodes above the unifoliate node have trifoliolate (three leaflet) leaves. The trifoliolate nodes alternate up the main stem with a node on one side of the stem, then above it another node on the opposite side of the stem.

(f) To stage the plant, count the unifoliate node and all nodes above it that have a fully developed trifoliolate leaf present (or missing). A trifoliolate leaf is considered fully developed when it has unrolled to the extent that the leaflet edges are no longer touching other portions of the leaflet.

(g) Refer to exhibit 17 for V-Stage descriptions.

(6) Reproductive Stage Identification:

(a) Reproductive stages are based on flowering, pod development, and plant maturation.

(b) Reproductive stages are subdivided into half stages for adjusting losses. Development for a half stage is midway between that of stages with a whole number. All stages are based on 50 percent of the plants in the sample at or beyond a given phase of development. References to four uppermost nodes include the top node with a fully developed trifoliolate leaf.

(c) The vegetative stage that occurs prior to the R1 (indeterminate) or R1-R2 (determinate) Stage may vary depending on the season, variety, time of planting, etc. Time intervals cannot be used to determine the vegetative stage that occurred immediately prior to R1 (indeterminate) or R1-R2 (determinate). Time intervals for half-stages are one-half the number of days between whole stages.

(d) Refer to exhibit 17 for R-Stage descriptions

## 35 Appraisals Methods

### A. General Information

Refer to exhibit 17 for explanation of growth stages for Soybeans.

These instructions provide information on the following appraisal methods:

| **Appraisal Method…** | **Use…** |
|---|---|
| Stand Reduction Method | for planted acreage with no emerged seed, or on plants through the R6.5 Stage. |
| Plant Damage Method | when there is defoliation (leaf loss) and plants that are cutoff or broken over. Plant damage calculations apply to the percent of the crop remaining (after stand reduction). |
| Seed Count Method | from the R7 stage through full maturity to determine the appraisal after any insured cause of damage. |

(1) A separate worksheet is required for each unit inspected.

(2) See below for sampling and row length requirements.

### B. Stand Reduction Method

(1) V-Stages for determinate soybeans and VC through R3.5 stage for indeterminate soybean stand reduction. Determine the amount of direct damage. Dead, missing, or non-emerged plants are included as direct damage in the VC through R3.5 stages for indeterminate soybeans and the V-stages for determinate soybeans.

If the reduction in stand is solely due to non-emerged seed due to insufficient soil moisture or frost/freeze damage, 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.

(a) Determine the original number of plants, and the remaining number of live plants per acre. The original stand is the normal plant population to be expected based on the insured's seeding rate. Be aware that not all seeds planted will germinate. Use these steps:

(i) Determine row width in inches, unless broadcast.

(ii) Measure a 10 foot row length for the sample row of soybeans, or use 3-foot by 3-foot square grid for broadcast soybeans.

(iii) Determine the original number of plants in the sample (living, dead/non-harvestable, missing, or non-emerged). If possible, when damage from an insurable cause results in missing plants or non-emergence, determine the original plants from an undamaged area of the unit.

(iv) Count the remaining number of live plants in the sample.

(v) Use exhibit 9 (Plants per Acre) to convert the original and remaining plants in the sample to plants per acre.

(b) Use the values in exhibit 10 (Indeterminate Soybean Stand Reduction Loss), or exhibit 12 (Determinate Soybean Stand Reduction Loss) as applicable to determine the percent stand loss.

**Example:** Indeterminate soybeans planted in 30-inch rows – V5 stage.

86 living and dead plants = 150,000 original plants/A. (exhibit 9).
39 live plants = 67,500 remaining plants/A. (exhibit 9).
Percent loss from stand reduction (exhibit 10) = 12.0 percent.

**B. Stand Reduction Method (continued)**

**Example:** Determinate soybeans planted in 30-inch rows – V5 stage.

86 living and dead plants = 150,000 original plants/A. (exhibit 9)**.**
39 live plants = 67,500 remaining plants/A. (exhibit 9).
Percent loss from stand reduction (exhibit 10) = 19.5 percent.

(2) R-Stage Plants Destroyed. For direct damage to R1 through R6.5 stage determinate soybeans, and R4 through R6.5 stage indeterminate soybeans (Part I, column 19 of the appraisal worksheet).

(a) Count 100 consecutive plants (living and missing, non-emerged, dead/non-harvestable).

(b) Determine the number of dead or non-harvestable plants in the 100 plant sample (Refer to the LAM information on Unable to Mechanically Harvest). This is the percentage of dead/non-harvestable plants. Enter this number in Part I, column 19 of the appraisal worksheet.

Include any cutoffs and/or breakovers, from stage R4 through stage R6.5, on a factored basis, based on how many damaged plants are required to equal 1 undamaged plant (e.g., 2-for-1, or 3-for-1, etc.) if stand reduction is the only damage.

**Example:** Entry for 10 dead/non-harvestable plants, plus 10 plants cutoff/broken over factored on a 2-for-1 basis = 15 plants**.**

**C. Plant Damage Method** (Part I - Appraisal Worksheet, columns 22 and 23)

(1) Use the plant damage method for defoliation damage on determinate soybean plants beginning with the V9 stage, through the R6 stage.

For indeterminate soybeans, beginning with the R1 stage, use the plant damage method for plants cut off or broken over in stages R1 through R3.5. Any plants cut off and/or broken over in stages R4 through R6.5 are included in column 19, "R-stage plants destroyed" of the Stand Reduction Method (on a factored basis).

Use the following procedure to record individual plant-count entries in the Field Notes (plant damage is applied to the percent of the crop remaining):

**C. Plant Damage Method** (Part I - Appraisal Worksheet, items 22 and 23) **(continued)**

(a) Determine the number of original nodes (above the cotyledonary node) on the date of damage for a representative 20-plant sample. (The number of original nodes will be the number of nodes per plant for the stage times 20 (e.g. V9 stage, 9 nodes times 20 = 180 original nodes).

(b) Determine the number of nodes cutoff and/or broken over on each plant in the 20-plant sample and enter in item 34 of the "Field Notes" section.

An individual plant may have nodes broken over as well as nodes cut off above the break. In such cases, both are recorded.

(c) Total the number of nodes cutoff and/or broken over. Divide the total by the total number of nodes on the date of damage to arrive at the percent of nodes destroyed.

(d) Refer to exhibit 13 (Cutoff/Breakover) to determine the percent of damage.

(e) For R stages and determinate V stages V9 - VN, determine the percent defoliation on each plant. Obtain the average, and apply to the appropriate defoliation table (exhibit 14 (Indeterminate Soybean Defoliation Percent of Damage) or exhibit 15 (Determinate Soybean Defoliation Percent of Damage)) to arrive at the percent damage for the sample. Enter the percent damage in item 35 of the appraisal worksheet. On cutoffs or breakovers, count only trifoliolate leaflets below cutoff or breakover point on the stem in determining defoliation.

(f) To obtain the appraisal, multiply the percent potential (100 - percent damage) by the APH yield.

(2) Refer to exhibit 18 for illustrations of defoliation (Fig. 1), a cutoff with defoliation (Fig. 2), and a breakover with defoliation (Fig. 3).

**D. Seed Count Method (Part II, items 43 through 55 of appraisal worksheet).**

When this method is used, neither the stand reduction nor the plant damage method is used. In this method, seeds per square foot are determined and converted to bushels per acre by using the proper row width factor and seed size factor.

(1) Determine the average row width as stated in paragraph 33 above and apply this number to exhibit 6 (Row Width Factor).

**D. Seed Count Method (Part II, items 43 through 55 of appraisal worksheet) (continued)**

(2) Count the number of live plants in the 10-foot sample row. Divide this number by "10" to determine the average plants per foot. (Do not count any plants which contain no seeds).

(3) Select five representative plants from the 10-foot sample row. Count the number of seeds on the selected plants. If there are less than five plants in the sample row, count and average the number of seeds per plant from all plants in the sample. (Do not count any plants which contain no seeds).

(4) Repeat steps (2) and (3) above for each sample taken.

(5) Total the number of plants per foot from each sample and divide by the number of samples taken to determine the average number of plants per foot.

(6) Total the number of seeds for each sample and divide by the total number of plants sampled to determine the average number of seeds per plant. (Do not count any plants for samples which contain no seeds).

(7) Determine the seed size factor by selecting 100 mature seeds from the sample plants and placing them in a graduated cylinder only (No syringes, etc.). Determine the number of cubic centimeters (cc's) occupied by the seeds. Apply this number to exhibit 8 (Seed (Bean) Size Factor). If unable to obtain 100 mature seeds in the sample due to immaturity or swelling from excess moisture, use the factor of ".092" unless otherwise authorized.

(8) Multiply:
- (a) the row width factor, times;
- (b) the seed size factor, times;
- (c) the average number of plants per foot, times;
- (d) the average number of seeds per plant.

The result, rounded to tenths, is the appraisal in bushels per acre.

**E. <u>Interpolation Tables</u>**

A separate booklet of interpolation tables should not be used since the soybean interpolation tables have been incorporated into the following tables found in the exhibits.

(1) Plants Per Acre Chart (exhibit 9). Number of Plants in 10 feet of row (or in a 3-foot x 3-foot grid for broadcast soybeans) -

(2) Soybean Stand Reduction Loss (exhibit 10 and 11 for indeterminate beans; exhibit 12 for determinate beans).

## 35 Appraisals Methods (Continued)

### E. Interpolation Tables (continued)

(3) Indeterminate Soybean Defoliation Percent of Damage (exhibit 14). The percent of damage is considered "0" for live plants with less than 5 percent defoliation.

(4) Determinate Soybean Defoliation Percent of Damage (exhibit 15). The percent of damage is considered "0" for live plants with less than 5 percent defoliation.

(5) Cutoff/Breakover (exhibit 13) (either plant type).

## 36 Deviations and Modifications

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

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

## 37 General Information for Appraisal Worksheet Entries and Completion Procedures

(1) Include the AIP name in the appraisal worksheet title if not preprinted on the AIP's worksheet, 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 which has a differing base (APH) yield or farming practice (applicable to replant, preliminary, and final claims). Refer to paragraph 35 "Appraisal Methods" for sampling requirements.

(4) For every inspection, complete items 1 through 12 and items 56 through 59. Complete Part I and II as instructed below. The following appraisal worksheet shows the required entries for the V and R stages, with and without plant damage.

(5) V-Stages for Determinate Soybeans and VC through R3.5 Stage for Indeterminate Soybean Appraisals:

(a) If stand reduction is the only damage, complete Part I (except for columns 19, 21, 22 and 23 and the field notes) and items 30, 31, and 32.

(b) If plant damage (cutoffs and/or breakovers) has occurred, complete items 13 through 18, items 20 through 29, and the field notes. If stand reduction has occurred, appraise plant damage on the remaining stand (refer to columns 21, 22 and 23). Defoliation is applied for determinate soybeans only in the stages V9 – VN.

(6) R1 through R6 Stage Determinate Soybeans, and R4 through R6.5 Stage Indeterminate Soybean Appraisals:

(a) If stand reduction is the only damage, complete Part I (except columns 16, 17, 18, 21, 22, 23, and the field notes). Cutoffs or breakovers from the R1 through R6 stage for determinate soybeans, and R4 through R6.5 stage for indeterminate soybeans are factored and are to be included in column 19.

(b) If plant damage (cutoffs or breakovers through R3.5, and/or defoliation (refer to exhibit 14 (Indeterminate Soybean Defoliation Percent of Damage) or exhibit 15 (Determinate Soybean Defoliation Percent of Damage)) through R6.5 for indeterminate soybeans or R6 for determinate soybeans) has occurred, complete Part I (except columns 16, 17 and 18). Appraise plant damage on the remaining stand if stand reduction has occurred (refer to columns 21, 22 and 23). Do not include cutoffs or breakovers in Part I, column 19 on a factored basis.

(7) R7 through Full Maturity Appraisals, use Part II, the Seed Count Method.

(8) Standard appraisal worksheet items are numbered consecutively in exhibit 3. An example appraisal worksheet is also provided to illustrate how to complete entries.

(9) For all zero appraisals, refer to the LAM.

**38-50 (Reserved)**

## PART 5 PRODUCTION WORKSHEET

### 51 General Information for Production Worksheet Entries and Completion Procedures

(1) The PW is a progressive form containing all notices of damage for all preliminary, replant, and final inspections on a unit.

(2) If a PW has been prepared on a prior inspection, verify each entry and enter additional information as needed. If a change or correction is necessary, strike out all entries on the line and re-enter correct entries on a new line. The adjuster and insured should initial any line deletions.

(3) Refer to the LAM for instructions regarding the following:

(a) Acreage report errors.

(b) Delayed notices and delayed claims.

(c) Corrected claims or fire losses (double coverage) and cases involving uninsured causes of loss, unusual situations, controversial claims, concealment, or misrepresentation.

(d) Claims involving a Certification Form (when all the acreage on the unit has been appraised to be put to another use, when acreage is being appraised for a replanting payment and all acreage on the unit has been initially planted, or other reasons described in the LAM).

(e) "No Indemnity Due" claims (which must be verified by an appraisal or notification from the insured that the production exceeded the guarantee).

(f) Late planting.

(4) Refer to the Prevented Planting Handbook for information on prevented planting.

(5) The adjuster is responsible for determining if any of the insured's requirements under the notice and claim provisions of the policy have not been met. If any have not, the adjuster should contact the AIP.

(6) Instructions labeled "PRELIMINARY" apply to preliminary inspections only. Instructions labeled "REPLANT" apply to replant inspections only. Instructions labeled "FINAL" apply to final inspections only. Instructions not labeled apply to ALL inspections.

(7) The AIP may complete a separate PW for each type planted in the unit.

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

**52-60 (Reserved)**

**Exhibit 1**

## Acronyms and Abbreviations

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

| Approved Acronym/Abbreviation | Term |
|---|---|
| AIP | Approved Insurance Provider |
| APH | Actual Production History |
| BP | Basic Provisions |
| CAT | Catastrophic Risk Protection |
| CIH | Crop Insurance Handbook |
| CP | Crop Provisions |
| DF | Discount Factor |
| DSSH | Document and Supplemental Standards Handbook |
| FCIC | Federal Crop Insurance Corporation |
| FGIS | Federal Grain Inspection Service |
| FSA | Farm Service Agency |
| GSH | General Standards Handbook |
| GPS | Global Positioning System |
| LAM | Loss Adjustment Manual |
| LMP | Local Market Price |
| PW | Production Worksheet |
| QA | Quality Adjustment |
| QAF | Quality Adjustment Factor |
| RIV | Reduction in Value |
| RMA | Risk Management Agency |
| SP | Special Provisions |

**Definitions**

Harvest - Combining, threshing, or picking the insured crop for grain, or cutting for hay, silage, or fodder.

## 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, see subparagraph 2D and paragraph 36.

| | Element/Item Number | Standard |
|---|---|---|
| | **Part I - Stand Reduction and Plant Damage** | |
| 1. | Insured's Name | Name of the insured that identifies exactly the person (legal entity) to whom the policy is issued. |
| 2. | Policy Number | Insured's assigned policy number. |
| 3. | Crop Year | Four-digit crop year, as defined in the policy, for which the claim is filed. |
| 4. | Unit Number | Unit number from the Summary of Coverage after it is verified to be correct. |
| 5. | Field ID | Field or subfield identification symbol. |
| 6. | Practice | Three-digit code number entered exactly as specified on the actuarial documents, for the practice carried out by the insured. If "No Practice Specified," enter appropriate 3-digit code number from the actuarial documents. |
| 7. | Company | Name of AIP, if not preprinted on the worksheet (Company Name). |
| 8. | Date of Damage | First three letters of the month during which most of the insured damage (including progressive damage) occurred. Include the specific date where applicable, as in the case of hail damage (e.g., Aug. 11). |
| 9. | Acres | Number of determined acres, to tenths, in field or subfield being appraised. |
| 10. | Variety | Variety name of soybeans being appraised, if known, followed by "D" if determinate type, or "I" if indeterminate. |
| 11. | Row Width | Row width to the nearest inch. If broadcast, enter "B." Refer to paragraph 33 for row width determination information. |
| 12. | Claim Number | Claim number as assigned by the AIP. |
| | **DIRECT DAMAGE** | |
| 13. | Sample No. | If more than five samples are needed, (refer to exhibit 5 (Minimum Sample Requirements)) use additional pages, and number the samples 6, 7, 8, etc. |
| 14. | DOD | Stage of growth on date of damage. (Refer to paragraph 34.) |
| 15. | DOA | Stage of growth on date of appraisal. |
| 16. | Original (1000): (V-Stage Appraisals Only) | Original stand (living and dead, missing, or non-emerged). Enter to the nearest 500 as a decimal rounded to tenths (e.g. enter 110,000 as 110.0). Refer to exhibit 9 (Plants Per Acre) and entry in item 31. |
| 17. | Remaining: (V-Stage Appraisals Only) | Remaining stand (live plants). Refer to exhibit 9 (Plants Per Acre) and entry in item 32. Enter to the nearest 500 as a decimal to tenths (e.g. enter 12,500 as 12.5). |

**Form Standards – Appraisal Worksheet (Continued)**

| | Element/Item Number | Standard |
|---|---|---|
| 18. | Stand Reduction | **(Percent of Loss –** V-Stages for Determinate Soybeans and VC through R3.5 Stage for Indeterminate Soybean appraisals only**):** Stand reduction percent of loss to tenths from the appropriate table in exhibit 12 (Soybean Stand Reduction Loss). |
| 19. | R-Stage Plants Destroyed | For stand reduction in the R stages (R1 through R6.5 Stage Determinate Soybeans, and R4 through R6.5 Stage Indeterminate Soybean), enter the number (percent) of dead or non-harvestable plants in a 100 plant (living and missing/dead/non-harvestable) sample. Include cutoffs and/or breakovers from the R4 through R6.5 stages on a factored basis only if stand reduction is the only damage. Refer to paragraph 35B(2). For indeterminate soybeans in the R1 through R3.5 stage, make no entry. |
| 20. | Total Direct Damage | Total direct damage to tenths from columns 18 or 19, as appropriate. |
| 21. | Crop (Remaining) | Enter the result of subtracting column 20 from 100 percent. If there is no direct damage, enter 100. If there is no plant damage (item 42) leave blank. |
| | | **PLANT DAMAGE** |
| 22. | Gross | If there is plant damage to the sample, complete the field notes and enter the item 42 entry for the same sample. If there is no plant damage, leave blank. |
| 23. | Net | Column 21 times column 22 (rounded to the nearest tenth percent), if there is an entry in column 22. If there is no entry in column 22, leave blank. |
| 24. | Total % Damage | Enter the total direct and plant damage (column 20 plus column 23, to the nearest tenth percent). |
| 25. | Total | Total of column 24 entries to nearest tenth percent. If more than five samples, enter only the accumulated total on the last page. |
| | | **COMPUTATIONS** |
| 26. | Sample Average Damage | Sample average damage to nearest tenth percent (item 25, total number of samples from all pages). |
| 27. | % Potential | Percent potential to nearest tenth percent (subtract item 26 entry from 100 percent). |
| 28. | APH Yield | Enter the approved APH yield to nearest whole bushel from the APH form. |
| 29. | Appraisal Bu/A | Appraisal to nearest tenth bushel (item 27 times item 28). |

| SOYBEAN FIELD NOTES | | |
|---|---|---|
| Complete the field notes on a representative sample of 20 consecutive plants from the sample area used for stand reduction if stand reduction has occurred. If not, select a representative 20-plant sample. | | |
| | **Element/Item Number** | **Standard** |
| 30. | Sample Number | Match the sample with the same numbered sample used in item 13. If more than five samples are needed, use additional pages, and number the samples "6", "7", "8", etc. |
| 31. | Total | (V-Stages for Determinate Soybeans and VC through R3.5 Stage for Indeterminate Soybean only) Total plants (living, dead, missing, and non-emerged) counted in 10 feet of row. For broadcast soybeans, count the number of plants in a 3'x3' sample area. |
| 32. | Remaining | (V-Stages for Determinate Soybeans and VC through R3.5 Stage for Indeterminate Soybean only) Remaining live plants in 10 feet of row. For broadcast soybeans, count the number of plants in a 3 ft. x 3 ft. sample area. |
| 33. | Total Nodes | Total number of nodes on the 20-plant sample, determined by multiplying the nodes per plant for the stage at date of damage times 20. |
| 34. | Nodes Cutoff/Broken Over | For V stages through R3.5, total number of nodes cutoff and/or broken over on each plant in the sample, entered under appropriate plant number. |
| 35. | % Defoliation | Percent defoliation on each plant in the sample. (Refer to Fig. 1 on the chart in exhibit 18.<br><br>Defoliation is counted only in the V9 through R6.5 stages for determinate beans, and the R1 through R6.5 stages for indeterminate beans. |
| 36. | Total (Cutoff and/or Broken Over) | Total number of nodes cut off and/or broken over (add item 34 entries together for all 20 plants). |
| 37. | Total (Defoliation) | Total defoliation on the 20 plant sample (add item 35 entries together for all 20 plants). |
| 38. | % of Nodes (Cutoff/Broken Over) | Percent of nodes cut off (item 36 divided by item 33 rounded to nearest whole percent). |
| 39. | Average Defoliation Percent | Average defoliation (item 37 divided by 20 (number of plants sampled), rounded to the nearest whole percent). |
| 40. | % Damage (Cutoff/Broken Over) | Percent cutoff/broken over damage (nearest tenth percent) from the exhibit 13 (Cutoff/Breakover). |
| 41. | % Damage (Defoliation) | Percent defoliation damage (to the nearest tenth percent) from exhibit 14 (Indeterminate Soybean Defoliation Percent of Damage) or exhibit 15 (Determinate Soybean Defoliation Percent of Damage), as appropriate. |
| 42. | Total (Percent Plant Damage) | Total percent plant damage (item 40 + item 41), to tenths. Carry this entry to column 22 ("Gross"). |

| **Part II - Seed Count Method (Use at R7 through full maturity)** | | |
|---|---|---|
| | **Element/Item Number** | **Standard** |
| 43. | Sample Number | Sample number. If more than ten samples are needed use additional pages and number the samples "11", "12", "13", etc. |
| 44. | Plants Per 10 Feet | Number of plants per ten-foot row length sample. If broadcast soybeans, count the number of plants in a 3' X 3' sample area. If there were no remaining or harvestable plants in the representative sample area or plants with pods containing no seeds, enter "0". |
| 45. | Plants Per Foot | Item 44 divided by 10 (feet) for each sample, to the nearest tenth. (The row-width factor of "2.22" for broadcast soybeans allows us to divide item 44 by 10 (feet) for broadcast as well as row-cropped soybeans.) |
| 46. | Total Seeds (5 Rep. Plants) | Total seeds shelled from five representative soybean plants in each sample (item 44) OR from ALL plants in the sample if there are only five plants, or less. If there were no remaining or harvestable soybean plants in the representative sample area, or the pods on the 5 plants contained no seeds, enter "0". |
| 47. | Total (item 45) | Total of all item 45 sample entries (if more than ten samples, enter on last page only). |
| 48. | Total (item 46) | Total of item 46 sample entries (if more than ten samples, enter on last page only). |
| 49. | Number of Samples | Total number of samples from all pages. Include any "0" samples in this count. |
| 50. | Total (Representative) Plants | Total of the representative plants from all samples (maximum of five plants per sample). If there are five plants or less in a sample, count ALL of those plants. Do not count any plants for samples with "0" entered in item 46. |
| 51. | Row Width Factor | Row width factor from exhibit 6 (Row Width Factor) for the row width in item 11 ("Row Width"). |
| 52. | Seed Size Factor | Seed (bean) size factor from exhibit 8 (Seed (Bean) size Factor). Refer to paragraph 35D(7). |
| 53. | Average Plants/Foot | Result of item 47 divided by item 49 (rounded to tenths). |
| 54. | Average Seeds/Plant | Result of item 48 divided by item 50 (rounded to tenths). |
| 55. | Appraisal (Bu/A) | Result of item 51 times item 52 times item 53 times item 54. Round to tenths only at the end result. |
| 56. | Remarks | Remarks pertinent to the appraisal, sampling, conditions in general (e.g. - very hot and dry), etc. |

**Form Standards – Appraisal Worksheet (Continued)**

| **The following required entries are not illustrated on the Appraisal Worksheet example below**. | | |
|---|---|---|
| | **Element/Item Number** | **Standard** |
| 57. | Adjuster's Signature, Code No., and Date | Signature of the adjuster, code number, and date signed after the insured (or insured's authorized representative) has signed. If the appraisal is performed prior to the 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 section of the PW. |
| 58. | Insured's Signature and Date | Insured's (or insured's authorized representative's) signature and date. BEFORE obtaining signature, review all entries on the appraisal worksheet with the insured (or insured's authorized representative), particularly explaining codes, etc., which may not be readily understood. |
| 59. | Page | Page numbers - (Example: Page 1 of 1, Page 1 of 2, Page 2 of 2, etc.). |

## Form Standards – Appraisal Worksheet (Continued)

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

FOR ILLUSTRATION PURPOSES ONLY

### Soybean Appraisal Worksheet

PART I – STAND REDUCTION AND PLANT DAMAGE METHOD

| 1 Insured | 2 Policy Number | 3 Crop Year | 4 Unit No. | 5 Field ID | 6 Practice |
|---|---|---|---|---|---|
| I. M. INSURED | XXXXXXXX | YYYY | 0001-0001 BU | A | 003 |

| 7 Company | 8 Date of Damage | 9 Acres | 10 Variety | 11 Row Width | 12 Claim Number |
|---|---|---|---|---|---|
| ANY COMPANY | AUG | 10.0 | WELLS - I | 30" | XXXXX |

| DIRECT DAMAGE | | | | | | | | | PLANT DAMAGE | | | COMPUTATIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 Sample No. | STAGE OF GROWTH 14 DOD | STAGE OF GROWTH 15 DOA | V-STAGE 16 Original (1000) | V-STAGE 17 Remaining (1000) | 18 V-Stage Stand Reduction % Loss | 19 R-Stage Plants Destroyed | 20 Total Direct Damage | 21 % Crop Remaining | 22 Gross (Item 42) | 23 Net (21 x 22) | 24 Total Damage (20 + 23) | 26 Sample Average Damage |
| 1 | V4 | V5 | 120.0 | 25.0 | 46.0 | | 46.0 | | | | 46.0 | 50.0 |
| 2 | V4 | V5 | 125.0 | 22.5 | 50.0 | | 50.0 | | | | 50.0 | 27 % Potential 50.0 x 28 APH Yield 43 = |
| 3 | V4 | V5 | 120.0 | 20.0 | 54.0 | | 54.0 | | | | 54.0 | |
| | | | | | | | | | | | 25 Total 150.0 | 29 Appraisal (BU/A) 21.5 |

SOYBEAN FIELD NOTES

| SAMPLE NUMBER | PLANTS PER 10 FEET | | PLANT NUMBER | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | TOTAL | % OF NODES | % DAMAGE | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 1 | 31 Total 69 | 32Remaining 14 | 34 Nodes Cut Off/ Broken Over | | | | | | | | | | | | | | | | | | | | | 36 | 38 | 40 + | |
| 33 Total Nodes | | | 35 % Defoliation | | | | | | | | | | | | | | | | | | | | | 37 | 39 | 41 + | 42 = |
| 30 2 | 31 Total 71 | 32Remaining 13 | 34 Nodes Cut Off/ Broken Over | | | | | | | | | | | | | | | | | | | | | 36 | 38 | 40 + | |
| 33 Total Nodes | | | 35 % Defoliation | | | | | | | | | | | | | | | | | | | | | 37 | 39 | 41 + | 42 = |
| 30 3 | 31 Total 68 | 32Remaining 11 | 34 Nodes Cut Off/ Broken Over | | | | | | | | | | | | | | | | | | | | | 36 | 38 | 40 + | |
| 33 Total Nodes | | | 35 % Defoliation | | | | | | | | | | | | | | | | | | | | | 37 | 39 | 41 + | 42 = |

56 Remarks



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

## Form Standards – Appraisal Worksheet (Continued)

FOR ILLUSTRATION PURPOSES ONLY

### SOYBEAN APPRAISAL WORKSHEET

PART I – STAND REDUCTION AND PLANT DAMAGE METHOD

| 1 Insured | 2 Policy Number | 3 Crop Year | 4 Unit No. | 5 Field ID | 6 Practice |
|---|---|---|---|---|---|
| I. M. INSURED | XXXXXXXX | YYYY | 0002-0002 BU | A | 002 |

| 7 Company | 8 Date of Damage | 9 Acres | 10 Variety | 11 Row Width | 12 Claim Number |
|---|---|---|---|---|---|
| ANY COMPANY | JUN 10 | 9.2 | WELLS - I | 30" | XXXXX |

| | DIRECT DAMAGE | | | | | | | | PLANT DAMAGE | | | COMPUTATIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 Sample No. | STAGE OF GROWTH 14 DOD | STAGE OF GROWTH 15 DOA | V-STAGE 16 Original (1000) | V-STAGE 17 Remaining (1000) | 18 V-Stage Stand Reduction % Loss | 19 R-Stage Plants Destroyed | 20 Total Direct Damage | 21 % Crop Remaining | 22 Gross (Item 42) | 23 Net (21 x 22) | 24 Total Damage (20 + 23) | 26 Sample Average Damage |
| 1 | V4 | V5 | 120.0 | 25.0 | 46.0 | | 46.0 | 54.0 | 14.6 | 7.9 | 53.9 | 57.9 |
| 2 | V4 | V5 | 125.0 | 22.5 | 50.0 | | 50.0 | 50.0 | 17.0 | 8.5 | 58.5 | 27 % Potential 42.1 |
| 3 | V4 | V5 | 120.0 | 20.0 | 54.0 | | 54.0 | 46.0 | 15.6 | 7.2 | 61.2 | 28 APH Yield x 43 |
| | | | | | | | | | | | 25 Total 173.6 | 29 Appraisal (BU/A) = 18.1 |

SOYBEAN FIELD NOTES

| SAMPLE NUMBER | PLANTS PER 10 FEET | | PLANT NUMBER | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | TOTAL | % OF NODES | % DAMAGE | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 1 | 31 Total 69 | 32Remaining 14 | 34 Nodes Cut Off/ Broken Over | 4 | 1 | 4 | 2 | 0 | 3 | 4 | 1 | 2 | 3 | 3 | 0 | 1 | 4 | 0 | 1 | 3 | 4 | 1 | 3 | 36 44 | 38 55 | 40 14.6 + | |
| 33 Total Nodes 80 | | | 35 % Defoliation | | | | | | | | | | | | | | | | | | | | | 37 | 39 | 41 | 42 = 14.6 |
| 30 2 | 31 Total 71 | 32Remaining 13 | 34 Nodes Cut Off/ Broken Over | 3 | 4 | 1 | 4 | 1 | 1 | 2 | 4 | 4 | 3 | 3 | 2 | 2 | 4 | 0 | 3 | 3 | 2 | 2 | 3 | 36 51 | 38 64 | 40 17.0 + | |
| 33 Total Nodes 80 | | | 35 % Defoliation | | | | | | | | | | | | | | | | | | | | | 37 | 39 | 41 | 42 = 17.0 |
| 30 3 | 31 Total 68 | 32Remaining 11 | 34 Nodes Cut Off/ Broken Over | 1 | 4 | 2 | 3 | 4 | 1 | 4 | 3 | 2 | 3 | 4 | 0 | 2 | 2 | 0 | 1 | 3 | 1 | 4 | 3 | 36 47 | 38 59 | 40 15.6 + | |
| 33 Total Nodes 80 | | | 35 % Defoliation | | | | | | | | | | | | | | | | | | | | | 37 | 39 | 41 | 42 = 15.6 |

56 Remarks



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

## Form Standards – Appraisal Worksheet (Continued)

FOR ILLUSTRATION PURPOSES ONLY

### Soybean Appraisal Worksheet

PART I – STAND REDUCTION AND PLANT DAMAGE METHOD

| 1 Insured | 2 Policy Number | 3 Crop Year | 4 Unit No. | 5 Field ID | 6 Practice |
|---|---|---|---|---|---|
| I. M. INSURED | XXXXXXXX | YYYY | 0003-0003 BU | A | 003 |

| 7 Company | 8 Date of Damage | 9 Acres | 10 Variety | 11 Row Width | 12 Claim Number |
|---|---|---|---|---|---|
| ANY COMPANY | AUG 11 | 10.0 | WELLS - D | 30" | XXXXX |

| | DIRECT DAMAGE | | | | | | | | PLANT DAMAGE | | | COMPUTATIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 Sample No. | STAGE OF GROWTH 14 DOD | STAGE OF GROWTH 15 DOA | V-STAGE 16 Original (1000) | V-STAGE 17 Remaining (1000) | 18 V-Stage Stand Reduction % Loss | 19 R-Stage Plants Destroyed | 20 Total Direct Damage | 21 % Crop Remaining | 22 Gross (Item 42) | 23 Net (21 x 22) | 24 Total Damage (20 + 23) | 26 Sample Average Damage: 39.7 |
| 1 | R3 | R5 | | | | 29.0 | 29.0 | 71.0 | 14.8 | 10.5 | 39.5 | 27 % Potential: 60.3 |
| 2 | R3 | R5 | | | | 34.0 | 34.0 | 66.0 | 8.4 | 5.5 | 39.5 | 28 APH Yield: 43 |
| 3 | R3 | R5 | | | | 34.5 | 34.5 | 65.5 | 8.5 | 5.6 | 40.1 | |
| | | | | | | | | | | | 25 Total: 119.1 | 29 Appraisal (BU/A): 25.9 |

SOYBEAN FIELD NOTES

| SAMPLE NUMBER | PLANTS PER 10 FEET | | PLANT NUMBER | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | TOTAL | % OF NODES | % DAMAGE | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | 31 Total | 32Remaining | 34 Nodes Cut Off/ Broken Over | 4 | 1 | 4 | 2 | 0 | 3 | 4 | 1 | 2 | 3 | 3 | 0 | 1 | 4 | 0 | 1 | 3 | 4 | 1 | 3 | 36: 44 | 38: 16 | 40: 7.4 + | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 Total Nodes: 280 | | | 35 % Defoliation | 40 | 40 | 50 | 50 | 35 | 45 | 40 | 30 | 35 | 50 | 60 | 40 | 35 | 40 | 35 | 45 | 50 | 35 | 30 | 35 | 37: 820 | 39: 41 | 41: 7.4 | 42: = 14.8 |
| 30 | 31 Total | 32Remaining | 34 Nodes Cut Off/ Broken Over | 3 | 4 | 1 | 4 | 1 | 1 | 2 | 4 | 4 | 3 | 3 | 2 | 2 | 4 | 0 | 3 | 3 | 2 | 2 | 3 | 36: 51 | 38: 18 | 40: 8.4 + | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 Total Nodes: 280 | | | 35 % Defoliation | 10 | 15 | 15 | 10 | 10 | 20 | 15 | 15 | 10 | 0 | 0 | 10 | 10 | 0 | 15 | 15 | 10 | 0 | 10 | 10 | 37: 200 | 39: 10 | 41: 0 | 42: = 8.4 |
| 30 | 31 Total | 32Remaining | 34 Nodes Cut Off/ Broken Over | 1 | 4 | 2 | 3 | 4 | 1 | 4 | 3 | 2 | 3 | 4 | 0 | 2 | 2 | 0 | 1 | 3 | 1 | 4 | 3 | 36: 47 | 38: 17 | 40: 7.9 + | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 Total Nodes: 280 | | | 35 % Defoliation | 20 | 30 | 30 | 20 | 20 | 20 | 30 | 30 | 20 | 10 | 10 | 20 | 20 | 10 | 25 | 25 | 15 | 15 | 20 | 20 | 37: 410 | 39: 21 | 41: 0.6 | 42: = 3.5 |

56 Remarks



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

## Form Standards – Appraisal Worksheet (Continued)

| PART II - SEED COUNT METHOD TO BE USED AFTER R-7 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 Insured: I. M. INSURED | | | | 2 Policy Number: XXXXXXXX | | | 3 Crop Year: YYYY | | | 4 Unit No.: 0004-0004 BU | | 5 Field ID: A | | 6 Practice: 003 | |
| 7 Company: ANY COMPANY | | | | 8 Date of Damage: AUG | | | 9 Acres: 10.0 | | | 10 Variety: WELLS - D | | 11 Row Width: 30" | | 12 Claim Number: XXXXXX | |
| 43 SAMPLE NUMBER | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | 51 Row Width Factor: .80 | x |
| 44 Plants Per 10 Feet | 17 | 0 | 15 | 0 | 19 | 16 | | | | | | | | 52 Seed Size Factor: .064 | x |
| 45 Plants Per Foot | 1.7 | 0 | 1.5 | 0 | 1.9 | 1.6 | | | | | 47 Total: 6.7 | ÷ | 49: 6 | = 53 Average Plants/Foot: 1.1 | x |
| 46 Total Seeds (5 Rep. Plants) | 320 | 0 | 125 | 0 | 175 | 145 | | | | | 48 Total: 765 | ÷ | 50: 20 | = 54 Average Seeds/Plants: 38.3 | = |
| | | | | | | | | | | | | | | 55 Appraisal(BU/A): 2.2 | |

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

**Form Standards - Production Worksheet**

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

| Element/Item Number | Standard |
|---|---|
| 1. Crop/Code # | "Soybeans" (0081) |
| 2. Unit # | Unit number from the Summary of Coverage after it is verified to be correct. |
| 3. Location Description | Land location that identifies the legal description, if available, and the location of the unit (e.g., section, township, and range; FSA Farm Numbers; FSA Common Land Units (CLU) and tract numbers; GPS identifications; or Grid identifications) as applicable for the crop. |
| 4. Date(s) of Damage | First three letters of the month(s) during which the determined insured damage occurred for the inspection and cause(s) of loss listed in item 5 below. If no entry in item 5 below make no entry. For progressive damage, enter the month that identifies when the majority of the insured damage occurred. Include the specific date where applicable as in the case of hail damage (e.g., Aug 11). Enter additional dates of damage in the extra spaces, as needed. If more space is needed, document the additional dates of damage in the Narrative (or on a Special Report). Refer to the illustration in item 6 below. If there is no insurable 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 illustration in item 6 below.<br><br>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.<br><br>**REPLANT AND FINAL:** Whole percent of damage for the insured cause of damage listed in item 5 above. Enter additional "Insured Cause %" in the extra spaces, as needed. If additional space is needed, enter the additional determined "Insured Cause %" in the Narrative (or on a Special Report). The total of all "Insured Cause %" including those entered in the Narrative must equal 100%.<br><br>If there is no insurable cause of loss, and a no indemnity due claim will be completed, make no entry. |

<table>
<tr><th>Element/Item Number</th><th>Standard</th></tr>
<tr><td>6. Insured Cause % (continued)</td><td>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 percents:<br><br>
<table>
<tr><td>4. Date(s) of Damage</td><td>MAY</td><td>JUN 30</td><td>AUG</td></tr>
<tr><td>5. Cause(s) of Damage</td><td>Excess Moisture</td><td>Hail</td><td>Drought</td></tr>
<tr><td>6. Insured Cause %</td><td>40</td><td>20</td><td>30</td></tr>
<tr><td colspan="4">Narrative: Additional date of damage – SEP 5; Cause of Damage – Freeze; Insured cause percent – 10%</td></tr>
</table></td></tr>
<tr><td>7. Company/Agency</td><td>Name of company and agency servicing the contract.</td></tr>
<tr><td>8. Name of Insured</td><td>Name of the insured that identifies exactly the person (legal entity) to whom the policy is issued.</td></tr>
<tr><td>9. Claim #</td><td>Claim number as assigned by the AIP.</td></tr>
<tr><td>10. Policy #</td><td>Insured’s assigned policy number.</td></tr>
<tr><td>11. Crop Year</td><td>Four-digit crop year, as defined in the policy, for which the claim is filed.</td></tr>
<tr><td>12. Additional Units</td><td>PRELIMINARY AND REPLANT: MAKE NO ENTRY.<br><br>FINAL: Unit number(s) for all non-loss units for the crop at the time of final inspection. A non-loss unit is any unit for which a PW has not been completed. Additional non-loss units may be entered on a single PW.<br><br>If more spaces are needed for non-loss units, enter the unit numbers, identified as “Non-Loss Units,” in the Narrative or on an attached Special Report.</td></tr>
<tr><td>13. Est. Prod. Per Acre</td><td>PRELIMINARY AND REPLANT: MAKE NO ENTRY.<br><br>FINAL: Estimated yield per acre, in whole bushels, of all non-loss units for the crop at the time of final inspection.</td></tr>
<tr><td>14. Date(s) Notice of Loss</td><td>PRELIMINARY:<br><br>a. Date the first or second notice of damage or loss was given for the unit in item 2, in the 1st or 2nd space, as applicable. Enter the complete date (MM/DD/YYYY) for each notice.<br><br>b. A notice of damage or loss for a third preliminary inspection (if needed) requires an additional set of PWs. Enter the date of notice for a third preliminary inspection in the 1st space of item 14 on the second set of PWs.<br><br>c. Reserve the “Final” space on the first page of the first set of PWs for the date of notice for the final inspection.</td></tr>
</table>

| Element/Item Number | Standard |
|---|---|
| 14. Date(s) Notice of Loss (continued) | **PRELIMINARY:**<br><br>d. If the inspection is initiated by the AIP, enter "Company Insp." instead of the date.<br><br>e. If the notice does not require an inspection, document as directed in the Narrative instructions.<br><br>**REPLANT AND FINAL:** Transfer the last date (in the 1st or 2nd space from the first or second set of PWs) to the final space on the first page of the first set of PWs if a final inspection should be made as a result of the notice. Always enter the complete date of notice (MM/DD/YYYY) for the final inspection in the final space on the first set of PWs. For a delayed notice of loss or delayed claim, refer to the LAM. |
| 15. Companion Policy(s) | a. If no other person has a share in the unit (insured has 100 percent share), make no entry.<br><br>b. In all cases where the insured has less than a 100 percent share of a loss-affected unit, ask the insured if the OTHER person sharing in the unit has a multiple-peril crop insurance contract (i.e., not crop-hail, fire, etc.). If the other person does not, enter "NONE."<br><br>(1) If the other person has a multiple-peril crop insurance contract and it can be determined that the same AIP services it, enter the contract number. Handle these companion policies according to AIP instructions.<br><br>(2) If the other person has a multiple-peril crop insurance contract and a different AIP or agent services it, enter the name of the AIP and/or agent (and contract number) if known.<br><br>(3) If unable to verify the existence of a companion contract, enter "Unknown" and contact the AIP for further instructions.<br><br>c. Refer to the LAM for further information regarding companion contracts. |

## Section I – Determined Acreage Appraised, Production and Adjustments

Make separate line entries for varying:

(1) Rate classes, types, classes, sub-classes, intended uses, irrigated practices, cropping practices, or organic practices, as applicable;

(2) APH yields;

(3) Appraisals;

(4) Adjustments to appraised mature production (moisture and/or QA factors);

(5) Stages or intended use(s) of acreage;

(6) Shares (e.g., 50 percent and 75 percent shares on the same unit); or

(7) Appraisals for damage due to hail or fire if Hail and Fire Exclusion is in effect.

| Element/Item Number | Standard |
|---|---|
| 16. Field ID | The field identification symbol from a sketch map or an aerial photo. Refer to the Narrative.<br><br>Where acreage is partly replanted, omit the field ID symbol for the fields that have not been replanted and that have been consolidated into a single line entry. |
| 17. Multi-Crop Code | **REPLANT:** MAKE NO ENTRY.<br><br>**PRELIMINARY AND FINAL:** The applicable two-digit code for first crop and second crop. Refer to the LAM for instructions regarding entry of first crop and second crop codes. |
| 18. Reported Acres | In the event of over-reported acres, handle in accordance with the individual AIP's instructions. In the event of under-reported acres, enter the reported acres to tenths for the field or sub field. If there are no under-reported acres, make no entry. |
| 19. Determined Acres | Refer to the LAM for definition of acceptable determined acres used herein. Enter the determined acres to tenths for the field or subfield for which consent is given for other use and/or:<br><br>a. Put to other use without consent;<br>b. Abandoned;<br>c. Damaged by uninsured causes; or<br>d. For which the insured failed to provide acceptable records of production. |

**Form Standards - Production Worksheet (Continued)**

| Element/Item Number | Standard |
|---|---|
| 19. Determined Acres (continued) | Refer to the LAM for procedures regarding when estimated acres are allowed and documentation requirements.<br><br>**REPLANT:** Determine the total acres, to tenths, of replanted acreage (do not estimate). Make a separate line entry for any part of a field NOT replanted.<br><br>a. Determine the planted acreage of any fields not replanted. Consolidate it into a single line entry unless the usual reasons for separate line entries apply. Record the field identities (from a map or aerial photo) in the Narrative.<br><br>b. Account for all planted acreage in the unit.<br><br>**PRELIMINARY AND FINAL:** Determined acres to tenths.<br><br>Acreage breakdowns within a unit or field may be estimated (refer to the LAM) if a determination is impractical.<br><br>Account for all planted acreage in the unit. |
| 20. Interest or Share | Insured's interest in the crop to three decimal places as determined at the time of inspection. If shares vary on the same unit, use separate line entries. |
| 21. Risk | Three-digit code for the correct "Rate" as specified on the actuarial document maps. If a "Rate" or "High-Risk Area" is not specified on the actuarial document maps, make no entry. Verify with the Summary of Coverage and if the "Rate" is found to be incorrect, revise according to the AIP's instructions. Refer to the LAM.<br><br>Unrated land is uninsurable without a written agreement. |
| 22. Type | Three-digit code number, entered exactly as specified on the actuarial documents for the type grown by the insured. If "No Type Specified" is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If a type is not specified on the actuarial documents, make no entry. |
| 23. Class | Three-digit code number, entered exactly as specified on the actuarial documents for the class grown by the insured. If "No Class Specified" is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If a class is not specified on the actuarial documents, make no entry. |
| 24. Sub-Class | Three-digit code number, entered exactly as specified on the actuarial documents for the sub-class grown by the insured. If "No Sub-Class Specified," is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If a sub-class is not specified on the actuarial documents, make no entry. |

| Element/Item Number | Standard |
|---|---|
| 25. Intended Use | Three-digit code number, entered exactly as specified on the actuarial documents for the intended use of the crop grown by the insured. If "No Intended Use Specified" is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If an intended use is not specified on the actuarial documents, make no entry. |
| 26. Irr. Practice | Three-digit code number, entered exactly as specified on the actuarial documents for the irrigated practice carried out by the insured. If "No Irrigated Practice Specified" is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If an irrigated practice is not specified on the actuarial documents, make no entry. |
| 27. Cropping Practice | Three-digit code number, entered exactly as specified on the actuarial documents for the cropping practice (or practice) carried out by the insured. If "No Cropping Practice" or "No Practice Specified" is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If a cropping practice is not specified on the actuarial documents, make no entry. |
| 28. Organic Practice | Three-digit code number, entered exactly as specified on the actuarial documents for the organic practice carried out by the insured. If "No Organic Practice Specified" is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If an organic practice is not specified on the actuarial documents, make no entry. |
| 29. Stage | **PRELIMINARY:** MAKE NO ENTRY.<br><br>**REPLANT:** Replant stage abbreviation as shown below.<br><br>**STAGE** — **EXPLANATION**<br>"R"..... Acreage replanted and qualifying for replanting payment.<br>"NR"..... Acreage not replanted or not qualifying for a replanting payment. Enter "NR" if the combined potential production appraisal and uninsured cause appraisal totals 90 percent or more of the guarantee for replanting claims.<br><br>**FINAL:** Stage abbreviation as shown below.<br><br>**STAGE** — **EXPLANATION**<br>"P"..... Acreage abandoned without consent, put to other use without consent, damaged solely by uninsured causes, or for which the insured failed to provide acceptable records of production to the AIP.<br>"H"..... Harvested.<br>"UH"..... Unharvested or put to other use with consent. |

| Element/Item Number | Standard |
|---|---|
| 29. Stage (Continued) | **PREVENTED PLANTING:** Refer to the Prevented Planting Handbook for proper codes for any eligible prevented planting acreage.<br><br>**GLEANED ACREAGE:** Refer to the LAM for information on gleaning. |
| 30. Use of Acreage | Use of acreage. Use the following "Intended Use" abbreviations.<br><br>**USE** — **EXPLANATION**<br>"Replant"…… Acreage replanted and qualifying for replanting payment<br>"Not Replanted"…….. Acreage not replanted or not qualifying for a replanting payment<br>"To Millet"……..… Use made of the acreage<br>"WOC"…… Other use without consent<br>"SU"…… Solely uninsured<br>"ABA"…… Abandoned without consent<br>"H"……..… Harvested<br>"UH"……... Unharvested<br><br>Verify any "Intended Use" entry. If 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." Refer to the LAM regarding "WOC" and short rated acreage.<br><br>**PREVENTED PLANTING:** Refer to the Prevented Planting Handbook for proper codes for any eligible prevented planting acreage.<br><br>**GLEANED ACREAGE:** Refer to the LAM for information on gleaning. |
| 31. Appraised Potential | **REPLANT:** Enter the bushels per acre allowed for replanting to the nearest tenth as determined from the replant calculation documented in the Narrative. (Refer to Part 3, for qualifications and computations.)<br><br>**PRELIMINARY AND FINAL:** Per-acre appraisal in bushels, to tenths, of potential production for the acreage appraised as shown on the appraisal worksheet. Refer to paragraph 35, "Appraisal Methods" for additional instructions. |
| 32a. Moisture % | **REPLANT:** MAKE NO ENTRY.<br><br>**PRELIMINARY AND FINAL:** Moisture percent to nearest tenth only if in excess of the percentage stated in the applicable CP. Moisture adjustment is applied prior to applying any qualifying adjustment for quality. |

| Element/Item Number | Standard |
|---|---|
| 32b. Factor | **REPLANT:** MAKE NO ENTRY.<br><br>**PRELIMINARY AND FINAL:** Moisture factor - For appraised mature grain production in excess of amount allowed in the applicable CP, obtain factor from exhibits 16 for the applicable crop. |
| 33. Shell %, Factor, or Value | MAKE NO ENTRY. |
| 34. Production Pre QA | **REPLANT:** Enter the result of multiplying column 31 times column 19 rounded to the nearest tenth. If no entry in column 31, make no entry.<br><br>**PRELIMINARY AND FINAL:** Result of multiplying column 31 times column 19, times column 32b, if applicable, rounded to tenths. If no entry in column 31, make no entry. |
| 35. Quality Factor | **REPLANT:** MAKE NO ENTRY.<br><br>**PRELIMINARY AND FINAL:** For mature unharvested production which due to insurable causes qualifies for QA as provided in the Coarse Grains CP, enter the QAF as a three place decimal calculated in accordance with the Quality Statement(s) in the SP (e.g., 1.000 - .750 discount factor = .250 QAF)**.** If the QAF is zero, enter ".000." Document all calculations in the Narrative of the PW (or on a Special Report). Include a copy of all supporting documentation in the insured's claim file. For additional QA definitions, instructions, documentation, qualifications, and testing requirements, refer to the LAM and the Official United States Standards for Grain. Also refer to the QA instructions in the Narrative, herein.<br><br>Refer to paragraph 13(3) if, due to insured causes, a Federal or State agency has ordered the appraised crop or production to be destroyed.<br><br>If appraised mature production is determined by the AIP to have zero market value, enter ".000." Refer to the SP and the LAM. |
| 36. Production Post QA | **REPLANT:** Transfer the entry in item 34.<br><br>**PRELIMINARY AND FINAL:** Result of multiplying column 34 times column 35, rounded to tenths. If no entry in column 35, transfer entry from column 34. |
| 37. Uninsured Cause | **REPLANT:** MAKE NO ENTRY.<br><br>**PRELIMINARY AND FINAL:** Result of per acre appraisal for uninsured causes (taken from appraisal worksheet or other documentation) multiplied by column 19, rounded to tenths. Refer to the LAM for information on how to determine uninsured cause appraisals. If no uninsured causes, make no entry. |

**Form Standards - Production Worksheet (Continued)**

| Element/Item Number | Standard |
|---|---|
| 37. Uninsured Cause (continued) | a. Hail and Fire exclusion NOT in effect.<br><br>(1) enter the result of multiplying column 19 entry by not less than the insured's production guarantee per acre for yield protection or for revenue protection not less than the amount of production that when multiplied by the harvest price equals the revenue protection guarantee, in bushels, to tenths, 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.<br>(2) On preliminary inspections, advise the insured to keep the harvested production from any acreage damaged solely by uninsured causes separate from other production. Refer to the LAM for information on how to determine uninsured cause appraisals.<br>(3) For acreage that is damaged partly by uninsured causes, enter the result of multiplying the appraised uninsured loss of production per acre in bushels to tenths, by column 19 entry for any such acreage<br><br>b. When there is late-planted acreage, the applicable production guarantee for such acreage is the production guarantee per-acre that has been reduced for late-planted acreage, multiplied by column 19 entry.<br><br>c. Refer to the LAM when a Hail and Fire Exclusion is in effect and damage is from hail or fire.<br><br>d. Enter the result of adding uninsured cause appraisals to hail and fire exclusion appraisals.<br><br>e. For fire losses, if the insured also has other fire insurance (double coverage), refer to the LAM. |
| 38. Total to Count | Result of adding item 36 and item 37. |
| 39. Total | **PRELIMINARY:** MAKE NO ENTRY.<br><br>**REPLANT AND FINAL:** Total determined acres (column 19), to tenths. |

<table>
<tr><th>Element/Item Number</th><th>Standard</th></tr>
<tr><td>40. Quality</td><td>

**REPLANT:** MAKE NO ENTRY.

**PRELIMINARY AND FINAL:** Check the applicable qualifying QA condition(s) affecting the unit's production (refer to table below). Check all qualifying conditions that apply to the unit's appraised and harvested production (refer to the CP and SP).

<table>
<tr><th>Qualifying QA Condition:</th></tr>
<tr><td>Test Weight (TW)</td></tr>
<tr><td>Kernel Damage (KD) and Total Defects</td></tr>
<tr><td>Garlicky (Grade)</td></tr>
<tr><td>Aflatoxin</td></tr>
<tr><td>Vomitoxin</td></tr>
<tr><td>Fumonisin</td></tr>
<tr><td>Dark Roast (for Sunflowers only)</td></tr>
<tr><td>Sclerotinia (for Sunflowers only)</td></tr>
<tr><td>Ergoty (Grade)</td></tr>
<tr><td>COFO (commercially objectionable foreign odor) (includes Musty and Sour Odor)</td></tr>
<tr><td>Other</td></tr>
<tr><td>None</td></tr>
</table>

a. For all qualifying QA conditions checked, in the Narrative (or on a Special Report):

(1) Document the level for each qualifying QA condition as indicated by approved test results, and the name and location of each testing facility that verifies the presence of the qualifying QA condition and the date of the test(s); or

(2) Enter "See documentation included in the claim file" (e.g., include copy of the test facility certificate, grade certificate, summary or settlement sheet, etc., that documents the QA condition).

b. If "Other" is checked, in addition to the above documentation requirements, document in the Narrative (or on a Special Report):

(1) A description of the qualifying QA condition;
(2) The name of the controlling authority that considers this qualifying QA condition to be injurious to human or animal health and why.
(3) Refer to paragraph 13(3) if, due to insured causes, a Federal or State agency has ordered the appraised crop or production to be destroyed.

c. Check "None" if none of the production qualifies for QA.

</td></tr>
</table>

| Element/Item Number | Standard |
|---|---|
| 41. Mycotoxins exceed FDA, State, or other health organization maximum limits. Check "Yes:" | **REPLANT:** MAKE NO ENTRY.<br><br>**PRELIMINARY AND FINAL:** Check "Yes" if any mycotoxins listed in item 40 (including any identified as "Other") exceed the FDA, state, or other health organization maximum limits, otherwise leave blank. Document in the Narrative (or on a Special Report), the disposition of the production that was:<br><br>a. Sold, document the name and address of the buyer; or<br><br>b. Not sold, document the date(s) of the disposition, how the production was used, or how it was destroyed.<br><br>Refer to the LAM and the SP for additional information on mycotoxins. |
| 42. Totals | Total of entries in columns 34, 36, 37 and 38. If a column has no entries, make no entry. |

## NARRATIVE INSTRUCTIONS

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

| | |
|---|---|
| a. | If no acreage is released on the unit, enter "No acreage released," adjuster's initials, and date. |
| b. | If notice of damage was given and no inspection is 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. |
| c. | Explain any uninsured causes, unusual, or controversial cases. |
| d. | If there is an appraisal in Section I, column 37 for uninsured causes due to a hail/fire exclusion, show the original hail/fire liability per acre and the hail/fire indemnity per acre. |
| e. | Document the actual appraisal date if an appraisal was performed prior to the adjuster's signature date on the appraisal worksheet, and the date of the appraisal is not recorded on the appraisal worksheet. |
| f. | State that there is "No other fire insurance" when fire damages or destroys the insured crop and it is determined that the insured has no other fire insurance. Also refer to the LAM. |
| g. | Explain any errors found on the Summary of Coverage. |
| h. | Explain any commingled production. Refer to the LAM. |
| i. | Explain any entry for "Production Not to Count" in Section II, column 62 and/or any production not included in Section II, column 56 or column 49 - 52 entries (e.g., harvested production from uninsured acreage that can be identified separately from the insured acreage in the unit). |
| j. | Explain a "No" checked in item 44. |

| | |
|---|---|
| k. | Attach a sketch map or aerial photo to identify the total unit:<br><br>(1) If consent is or has been given to put part of the unit to another use or to replant;<br>(2) If acreage has been replanted to a practice uninsurable as an original practice;<br>(3) If uninsured causes are present; or<br>(4) For unusual or controversial cases.<br><br>Indicate on the aerial photo or sketch map, the disposition of acreage destroyed or put to other use with or without consent. |
| l. | Explain any difference between date of inspection and signature dates. For an absentee insured, enter the date of the inspection and the date of mailing the PW for signature. |
| m. | When any other adjuster or supervisor accompanied the adjuster on the inspection, enter the code number of the other adjuster or supervisor and the date of inspection. |
| n. | Explain the reason for a "No Indemnity Due" claim. "No Indemnity Due" claims are to be distributed in accordance with the AIP's instructions. |
| o. | Explain any delayed notices or delayed claims as instructed in the LAM. |
| p. | Document any authorized estimated acres, as instructed in the LAM, shown in Section I, column 19. |
| q. | Document the method and calculation used to determine acres for the unit. Refer to the LAM. |
| r. | Specify the type of insects or disease when the insured cause of damage or loss is listed as insects or disease. Explain why control measures did not work. |
| s. | Document the bushel per acre appraisal (plus appraisal for uninsured causes of loss, if applicable) for replanted acreage, and the calculations to show that the qualifications for a replanting payment have been met. Refer to Part 3, paragraph 22. |
| t. | If any acreage to be replanted in the unit does not qualify for a replanting payment, enter Field No., "NOT QUAL FOR RP PAYMENT," date of inspection, adjuster's initials, and reason not qualified. |
| u. | For replant claims, indicate if the bushels allowed for replanting have/have not been reduced for share on the PW according to individual AIP guidelines. |
| v. | For production that qualifies for QA (supporting documentation should be included in the insured's claim file):<br><br>(1) Explain any ".000" QA factor entered in Section I, column 35 and Section II, column 65.<br>(2) Explain any deficiencies, substances, or conditions that are allowed for QA, as well as any which were not allowed.<br>(3) If mycotoxins are present, document the level based on laboratory test results.<br>(4) If a Federal or State destruction order has been issued, attach to the PW a copy of the Federal or State destruction order and the insured's completed Certification Form.<br>(5) Document the DFs or the RIV's and LMP, as applicable, used in establishing the QA factor for mature appraised or harvested production.<br>(6) Refer to the LAM for documentation requirements when any excess transportation costs or conditioning costs are included in the QA factor.<br>(7) Document all calculations used in determining QA factors.<br>(8) Refer to the LAM for additional documentation requirements. |

| | |
|---|---|
| w. | Document field or subfield ID's, date, and method of destruction of mycotoxin-infested soybeans if it has no market value. For further documentation instructions, refer to the LAM. |
| x. | Document the name and address of the charitable organization when gleaned acreage is applicable. Refer to the LAM for more information on gleaning. |
| y. | Document the type of soybeans being appraised, if not indicated on the appraisal worksheet or on a Special Report. |
| z. | Document any other pertinent information, including any data to support any factors used to calculate the production. |

## SECTION II – DETERMINED HARVESTED PRODUCTION

(1) Account for all harvested production (for all entities sharing in the crop) except production appraised before harvest and shown in Section I because the quantity cannot be determined later (e.g., high moisture grain going into air-tight storage, released for other uses, etc.).

(2) Columns 49 through 52 are for structure measurement entries (Rectangular, Round, Square, Conical Pile, etc.). If structures are a combination of shapes, break into a series of average measurements, if possible. Enter "Odd Shape" if production is stored in an odd-shaped structure. Document measurements on a Special Report or other worksheet used for this purpose.

(3) If farm-stored production has been weighed prior to storage and acceptable weight tickets are available showing gross weights, enter "Weighed and Stored on Farm" in columns 49 through 52. Refer to the LAM for acceptable weight tickets.

(4) For production commercially stored, sold, etc., make entries in columns 49 through 52 as follows:

(a) Name and address of storage facility or buyer.
(b) "Seed," "Fed," etc.

(5) There will be no "harvested production" entries for replanting payments.

(6) If acceptable sales or weight tickets are not available, refer to the LAM.

(7) If additional lines are necessary, the data may be entered on a continuation sheet. Use separate lines for:

(a) Separate storage structures.

(b) Varying names and addresses of buyers of sold production.

(c) Varying determinations of production (varying moisture, foreign material (FM), test weight, value, etc.). Average percent of FM or moisture can be entered when the elevator has calculated the average on the summary sheet, and the determined average is acceptable to the adjuster. Separate line entries are not otherwise required. Refer to the LAM for instructions.

(d) Varying shares; e.g., 50 percent and 75 percent shares on same unit.

(e) 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.

(f) Varying types: e.g., a specialty soybean type and commodity type soybean in the same unit. If there are multiple types planted within the same unit, the AIP may complete a separate PW for each type in the unit.

(8) There will generally be no harvested production entries in columns 47 through 66 for preliminary inspections.

(9) If there is harvested production from more than one insured practice (or type) and a separate approved APH yield has been established for each, the harvested production also must be entered on separate lines in columns 47 through 66 by type or practice. If production has been commingled, refer to the LAM.

(10) For mycotoxin damage, refer to the LAM for special instructions.

| Element/Item Number | Standard |
|---|---|
| 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.<br><br>**REPLANT AND FINAL:**<br><br>a. The earlier of the date the ENTIRE acreage on the unit was (1) harvested, (2) totally destroyed, (3) replanted, (4) put to other use, (5) a combination of harvested, destroyed, or put to other use, or (6) the calendar date for the end of the insurance period.<br>b. If at the time of final inspection (if prior to the end of the insurance period), there is any unharvested insured acreage remaining on the unit that the insured does not intend to harvest; enter "**Incomplete**."<br>c. If at the time of final inspection (if prior to the end of the insurance period), none of the insured acreage on the unit has been harvested, and the insured does not intend to harvest such acreage, enter "**No Harvest**."<br>d. If the case involves a Certification Form, enter the date from the Certification Form when the entire unit is put to another use, replanting is complete for the unit, etc. Refer to the LAM. |
| 44. Damage similar to other farms in the area? | **PRELIMINARY:** MAKE NO ENTRY.<br><br>**REPLANT AND FINAL:** Check "Yes" or "No." Check "Yes" if the amount and cause of damage due to insurable causes is similar to the experience of other farms in the area. If "No" is checked, explain in the Narrative. |

**Form Standards - Production Worksheet (Continued)**

| Element/Item Number | Standard |
|---|---|
| 45. Assignment of Indemnity | Check "Yes" only if an assignment of indemnity is in effect for the crop year; otherwise, check "No." Refer to the LAM. |
| 46. Transfer of Right to Indemnity | Check "Yes" only if a transfer of right to indemnity is in effect for the unit for the crop year; otherwise, check "No." Refer to the LAM. |
| 47a. Share | Record only varying shares on same unit to three decimal places. |
| 47b. Field ID | a. If only one practice and/or type of harvested production is listed in Section I, make no entry.<br><br>b. If more than one practice and/or type of harvested production is listed in Section I, and a separate approved APH yield exists, indicate for each practice/type the corresponding Field ID (from Section I, column 16). |
| 48. Multi-Crop Code | The applicable two-digit code for first crop and second crop. Refer to the LAM for instructions regarding entry of first crop and second crop codes. |
| 49. Length or Diameter | Internal measurement in feet to tenths of structural space occupied by crop.<br><br>a. Length if rectangular or square.<br><br>b. Diameter if round or conical pile. Refer to the LAM to convert circumference to diameter if internal diameter measurement is not possible. |
| 50. Width | Internal width measurement in feet to tenths of space occupied by crop in structure if rectangular or square. If round, enter "RND." If conical pile, enter "Cone." |
| 51. Depth | Depth measurement in feet to tenths of space occupied by crop in rectangular, round, or square structure. If conical pile, enter the height of the cone. If there is production in the storage structure from other units or sources, refer to the LAM. |
| 52. Deductions | Cubic feet, to tenths, of crop space displaced by chutes, vents, studs, crossties, etc. Refer to the LAM for computation instructions. |
| 53. Net Cubic Feet | Net cubic feet of crop in the storage structure. Refer to the LAM for computation instructions. |
| 54. Conversion Factor | Enter Conversion Factor as ".8" (only if structure measurements are entered). |
| 55. Gross Prod. | Multiply column 53 times column 54, rounded to tenths of a bushel. The results of this calculation represent the amount of gross bushels in the bin. |

**Form Standards - Production Worksheet (Continued)**

| Element/Item Number | Standard |
|---|---|
| 56. Bu., Ton, Lbs., Cwt. | Circle "Bu." in column heading. Production in bushels, to tenths, before deductions for grain moisture and foreign material for production:<br><br>a. Weighed and stored on the farm.<br><br>b. Sold and/or stored in commercial storage - Obtain gross production for the unit from the summary and/or settlement sheets. (Individual load slips only will not suffice unless the storage facility or buyer will not provide summary and/or settlement sheets to the insured, and this is documented in the Narrative.)<br><br>c. Stored in odd-shaped structures. The adjuster must compute the amount of gross production. (Refer to the LAM for cubic footage and production computations). A copy of all production calculations must be left in the file folder.<br><br>d. For mycotoxin-infected grain, enter all production even if it has no market value. |
| 57. Shell/Sugar Factor | MAKE NO ENTRY. |
| 58a. FM % | Make entry to nearest tenth. Refer to the LAM for entry instructions.<br><br>Refer to the LAM for FGIS definitions of "FM" and "Dockage." |
| 58b. Factor | Enter the three-place factor determined by subtracting the percent of FM from 1.000, or subtract the entry in 58a from 100 and divide by 100. Example: For 4 percent, enter ".960." |
| 59a. Moisture % | Enter moisture percent to tenths. Moisture adjustment is applied prior to applying any qualifying adjustment for quality. Make no entry for flax. |
| 59b. Factor | If grain moisture is more than the allowable limit, enter the four-place moisture factor from the applicable table in exhibit 16. |
| 60a. Test Wt. | Enter test weight (only when storage structure measurements are entered) in whole pounds (or pounds to tenths if so instructed by the AIP). Refer to the LAM for instructions on determining test weight. |
| 60b. Factor | Combination Test Weight and Pack Factor - Enter the Factor from the appropriate table in exhibit 7 for the square footage of floor space in the storage structure. Refer to the LAM for instructions on calculating floor space of a structure.<br><br>If the AIP instructs test weights to be entered to the nearest tenth, use the nearest ½ pound test weight value on the combination test weight and pack factor chart. |

**Form Standards - Production Worksheet (Continued)**

| Element/Item Number | Standard |
|---|---|
| 60b. Factor (continued) | For test weights not shown on the chart, multiply the actual test weight by the last available combination test weight and pack factor for the appropriate bin size and divide the result by the last available test weight shown on the chart.<br><br>Example For Test Weight Not Shown On The Chart:<br><br>Soybeans with a test weight of 66.0 pounds stored in a less than 255 Sq. Ft. bin 66.0 (actual test weight) x 1.087 (last available factor) ÷ 65.0 (last available test weight) = 1.104 |
| 61. Adjusted Production | Result of multiplying columns 55 or 56 times 58b times 59b times 60b. Round to nearest tenth. |
| 62. Prod. Not to Count | Net production not to count, in bushels to tenths, 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).<br><br>This entry must never exceed production shown on the same line. Explain the total bin contents (bin grain depth, etc.) and any "production not to count" in the Narrative.<br><br>Make no entry if only the depth for production to count has been entered in column "51," and the depth for production not to count has been entered in the Narrative section. Refer to example in the LAM. |
| 63. Production Pre-QA | Result of subtracting column 62 from column 61. |
| 64a. Value | When applicable, enter the RIV. RIV must be limited to amounts that are usual, customary, and reasonable. (Refer to the SP and the LAM for further instructions.)<br><br>Make no entry when the discount factor is obtained from the charts in the SP. |
| 64b. MKT Price | If an entry is in column 64a, enter the Local Market Price for U.S. Grade No. 1 of the crop (refer to the CP). Refer to the LAM for further instructions.<br><br>Make no entry when the discount factor is obtained from the charts in the SP. |

| Element/Item Number | Standard |
|---|---|
| 65. Quality Factor | For production eligible for QA, enter the 3-digit QA factor determined by subtracting the result of column 64a divided by column 64b from 1.000, or 1.000 minus the discount factor(s) obtained from the SP. |
| 66. Production to Count | Enter result from multiplying column 63 times column 65, in bushels rounded to tenths. |
| 67. Total of Column 63 | Total of column 63. If no entry in column 63, make no entry. |
| For items 68 – 72. When separate line entries are made for varying share, stages, APH yields, 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. | |
| 68. Section II Total: | **PRELIMINARY AND REPLANT:** MAKE NO ENTRY.<br><br>**FINAL:** Total of column 66, to tenths. |
| 69. Section I Total | **PRELIMINARY AND REPLANT:** MAKE NO ENTRY.<br><br>**FINAL:** Enter figure from Section I, column 38 total. |
| 70. Unit Total | **PRELIMINARY AND REPLANT:** MAKE NO ENTRY**.**<br><br>**FINAL:** Total of column 68 and column 69, to tenths. |
| 71. Allocated Prod | Refer to the LAM for instructions for determining allocated production. Enter the total production, rounded to tenths, allocated to this unit that is included in Sections I or II of the PW. Document how allocated production was determined and record supporting calculations in the Narrative or on a Special Report. |
| 72. Total APH Prod. | Result to tenths, 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 PW example below**. | |
| 73. Insured's Signature and Date | Insured's (or insured's authorized representative's) signature and date. Before obtaining the signature, review all entries on the PW with the insured (or insured's authorized representative), particularly explaining codes, etc., that may not be readily understood.<br><br>Final indemnity inspections and final replanting payment inspections should be signed on bottom line. |
| 74. Adjuster's Signature, Code #, and Date | Signature of adjuster, code number, and date signed after the insured (or insured's authorized representative) has signed. For an absentee insured, enter adjuster's code number only. The signature and date will be entered after the absentee has signed and returned the PW.<br><br>Final indemnity inspections and final replanting payment inspections should be signed on bottom line. |

**Form Standards - Production Worksheet (Continued)**

| Element/Item Number | Standard |
|---|---|
| 75. Page | **PRELIMINARY:** Page numbers – "1," "2," etc., at the time of inspection.<br><br>**REPLANT AND FINAL:** Page numbers - (Example: Page 1 of 1, Page 1 of 2, Page 2 of 2, etc.). |

## Form Standards - Production Worksheet (Continued)

### PRODUCTION WORKSHEET

| 1. Crop/Code # | 2. Unit # | 3. Location Description | 7. Company | ANY COMPANY | 8. Name of Insured | |
|---|---|---|---|---|---|---|
| SOYBEANS 0081 | 0002-0002 BU | SW1-96N-3W | Agency | ANY AGENCY | I.M. INSURED | |
| 4. Date(s) of Damage | JUN 10 | AUG | | | 9. Claim # XXXXXXXX | 11. Crop Year YYYY |
| 5. Cause(s) of Damage | HAIL | DROUGHT | | | 10. Policy # XXXXXXXXX | |
| 6. Insured Cause % | 40 | 60 | | | 14. Date(s) Notice of Loss: 1st MM/DD/YYYY; 2nd | Final MM/DD/YYYY |
| 12. Additional Units | 0001-0001 BU | | | | 15. Companion Policy(s) | |
| 13. Est. Prod. Per Acre | 40 | | | | | |

**SECTION I – DETERMINED ACREAGE APPRAISED, PRODUCTION AND ADJUSTMENTS**

**A. ACTUARIAL** | **B. POTENTIAL YIELD**

| 16. Field ID | 17. Multi-Crop Code | 18. Reported Acres | 19. Determined Acres | 20. Interest or Share | 21. Risk | 22. Type | 23. Class | 24. Sub-Class | 25. Intended Use | 26. Irr Practice | 27. Cropping Practice | 28. Organic Practice | 29. Stage | 30. Use of Acreage | 31. Appraised Potential | 32a. Moisture % / 32b. Factor | 33. Shell %, Factor, or Value | 34. Production Pre QA | 35. Quality Factor | 36. Production Post QA | 37. Uninsured Causes | 38. Total to Count |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | NS | | 9.2 | 1.000 | | 997 | | | | | 002 | | UH | PLOWED | 18.1 | | | 166.5 | | 166.5 | | 166.5 |
| B | NS | | 18.0 | 1.000 | | 997 | | | | | 002 | | P | WOC | | | | | | | 504.0 | 504.0 |
| C | NS | | 56.0 | 1.000 | | 997 | | | | | 002 | | H | H | | | | | | | | |
| | | 39. TOTAL | 83.2 | | | | | | | | | | | | | | 42. TOTALS | 166.5 | | 166.5 | 504.0 | 670.5 |

40. Quality: TW ☒ KD ☒ Aflatoxin ☐ Vomitoxin ☐ Fumonisin ☐ Garlicky ☐ Dark Roast ☐ Sclerotinia ☐ Ergoty ☐ CoFo ☐ Other ☐ None ☐

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

NARRATIVE (If more space is needed, attach a Special Report) **SOYBEANS at Acme Elevator weighed 45# per bushel and had 19.9% kernel damage. Field B - Put to other use without consent. Guarantee per acre is 28.0 bu. per acre. Fields B & C determined from FSA permanent Field measurements. Field A wheel measured. Refer to attached Special Report for measurements and calculations. Refer to attached FGIS Grade Certificate. Test Wt. = 45# (DF = .013) + 19.9%** damaged kernels **(DF = .132 + U.S. Sample Grade (DF = .030) = .175. 1.000 - .175 = .825 QAF.**

**SECTION II – DETERMINED HARVESTED PRODUCTION**

| 43. Date Harvest Completed | 44. Damage similar to other farms in the area? | 45. Assignment of Indemnity | 46. Transfer of Right to Indemnity? |
|---|---|---|---|
| MM/DD/YYYY | Yes X No | Yes No X | Yes No X |

**A. MEASUREMENTS** | **B. GROSS PRODUCTION** | **C. ADJUSTMENTS TO HARVESTED PRODUCTION**

| 47a. Share / 47b. Field ID | 48. Multi-Crop Code | 49. Length or Diameter | 50. Width | 51. Depth | 52. Deduction | 53. Net Cubic Feet | 54. Conversion Factor | 55. Gross Prod. | 56. Bu., Ton Lbs. CWT | 57. Shell/ Sugar Factor | 58a. FM% / 58b. Factor | 59a. Moisture % / 59b. Factor | 60a. Test WT / 60b. Factor | 61. Adjusted Production | 62. Prod. Not to Count | 63. Production Pre-QA | 64a. Value / 64b. Mkt. Price | 65. Quality Factor | 66. Production to Count |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NS | ACME ELEVATOR ANYTOWN, ANY STATE | | | | | | | 530.1 | | 1.0 / .990 | | | 524.8 | | 524.8 | | .825 | 433.0 |
| | NS | 14.0 | RND | 10.0 | | 1539.4 | .8 | 1231.5 | | | | 16.7 / .9556 | 52 / .903 | 1062.7 | | 1062.7 | | | 1062.7 |

| | | | |
|---|---|---|---|
| 67. TOTAL | 1587.5 | 68. Section II Total | 1495.7 |
| | | 69. Section I Total | 670.5 |
| | | 70. Unit Total | 2166.2 |
| | | 71. Allocated Prod. | |
| | | 72. Total APH Prod. | 1662.2 |

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

## Form Standards - Production Worksheet (Continued)

**PRODUCTION WORKSHEET**

| | | | | | |
|---|---|---|---|---|---|
| 1. Crop/Code # | SOYBEANS 0081 | 2. Unit # | 0002-0002 BU | 3. Location Description | SW1-96N-3W |
| 7. Company | ANY COMPANY | 8. Name of Insured | I.M. INSURED | | |
| Agency | ANY AGEMCY | 9. Claim # | XXXXXXXX | 11. Crop Year | YYYY |
| 4. Date(s) of Damage | JUN 10 | AUG | | | |
| 5. Cause(s) of Damage | HAIL | DROUGHT | | 10. Policy # | XXXXXXXXXX |
| 6. Insured Cause % | 40 | 60 | | 14. Date(s) Notice of Loss | 1st MM/DD/YYYY; 2nd; Final MM/DD/YYYY |
| 12. Additional Units | 0001-0001 BU | | | 15. Companion Policy(s) | |
| 13. Est. Prod. Per Acre | 40 | | | | |

**SECTION I – DETERMINED ACREAGE APPRAISED, PRODUCTION AND ADJUSTMENTS**

**A. ACTUARIAL** | **B. POTENTIAL YIELD**

| 16. Field ID | 17. Multi-Crop Code | 18. Reported Acres | 19. Determined Acres | 20. Interest or Share | 21. Risk | 22. Type | 23. Class | 24. Sub-Class | 25. Intended Use | 26. Irr Practice | 27. Cropping Practice | 28. Organic Practice | 29. Stage | 30. Use of Acreage | 31. Appraised Potential | 32a. Moisture % / 32b. Factor | 33. Shell %, Factor, or Value | 34. Production Pre QA | 35. Quality Factor | 36. Production Post QA | 37. Uninsured Causes | 38. Total to Count |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | | | 30.0 | 1.000 | | 997 | | | | | 002 | | R | REPLANTED | 3.0 | | | 90.0 | | 90.0 | | 90.0 |
| | | | 40.0 | 1.000 | | 997 | | | | | 002 | | NR | NOT REPLANTED | | | | | | | | |
| | | 39. TOTAL | 70.0 | | | | | | | | | | | | | | 42. TOTALS | 90.0 | | 90.0 | | 90.0 |

40. Quality: TW ☒ KD ☒ Aflatoxin ☐ Vomitoxin ☐ Fumonisin ☐ Garlicky ☐ Dark Roast ☐
Sclerotinia ☐ Ergoty ☐ CoFo ☐ Other ☐ None ☐
41. Mycotoxins exceed FDA, State or other health organization maximum limits? Yes ☐

NARRATIVE (If more space is needed, attach a Special Report) 37.5bu/acre guarantee X 20% = 7.5 bu./acre (3.0 bu. maximum allowed). Appraised potential less than 90% of the production guarantee (50.0 X 90% = 45.0 bu./acre -- appraised potential = 21.5 bu./acre). Total acreage from FSA permanent field measurement. Field A wheel measured. See attached Special Report for measurement and calculations.

**SECTION I – DETERMINED ACREAGE APPRAISED, PRODUCTION AND ADJUSTMENTS**

**A. ACTUARIAL** | **B. POTENTIAL YIELD**

| 16. Field ID | 17. Multi-Crop Code | 18. Reported Acres | 19. Determined Acres | 20. Interest or Share | 21. Risk | 22. Type | 23. Class | 24. Sub-Class | 25. Intended Use | 26. Irr Practice | 27. Cropping Practice | 28. Organic Practice | 29. Stage | 30. Use of Acreage | 31. Appraised Potential | 32a. Moisture % / 32b. Factor | 33. Shell %, Factor, or Value | 34. Production Pre QA | 35. Quality Factor | 36. Production Post QA | 37. Uninsured Causes | 38. Total to Count |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | | | 30.0 | .500 | | 997 | | | | | 002 | | R | REPLANTED | 1.5 | | | 45.0 | | 45.0 | | 45.0 |
| | | | 40.0 | .500 | | 997 | | | | | 002 | | NR | NOT REPLANTED | | | | | | | | |
| | | 39. TOTAL | 70.0 | | | | | | | | | | | | | | 42. TOTALS | 45.0 | | 45.0 | | 45.0 |

40. Quality: TW ☒ KD ☒ Aflatoxin ☐ Vomitoxin ☐ Fumonisin ☐ Garlicky ☐ Dark Roast ☐
Sclerotinia ☐ Ergoty ☐ CoFo ☐ Other ☐ None ☐
41. Mycotoxins exceed FDA, State or other health organization maximum limits? Yes ☐

NARRATIVE (If more space is needed, attach a Special Report) 37.5bu/acre guarantee X 20% X .500 = 3.8 bu./acre (3.0 bu. maximum allowed X .500 = 1.5 bu.). Appraised potential less than 90% of the production guarantee (50.0 X 90% = 45.0 bu./acre -- appraised potential = 21.5 bu./acre). Total acreage from FSA permanent field measurement. Field A wheel measured. See attached Special Report for measurement and calculations.

**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. | |

**Row Width Factor**

| Row Width | Factor | Row Width | Factor | Row Width | Factor |
|---|---|---|---|---|---|
| 6” | 4.00 | 22” | 1.09 | 38” | 0.63 |
| 8” | 3.00 | 24” | 1.00 | 40” | 0.60 |
| 10” | 2.40 | 26” | 0.92 | 42” | 0.57 |
| 12” | 2.00 | 28” | 0.86 | 44” | 0.55 |
| 14” | 1.71 | 30” | 0.80 | 46” | 0.52 |
| 16” | 1.50 | 32” | 0.75 | 48” | 0.50 |
| 18” | 1.33 | 34” | 0.71 | B* | 2.22 |
| 20” | 1.20 | 36” | 0.67 | | |

“B*” - Broadcast

For row widths other than those shown in exhibit 6**,** determine the appropriate factor by dividing 24 by the row width (nearest one-half inch). Round the factor to two decimal places.

**Example:** 7 1/2 inches (or 7.5”) 24 ÷ 7.5 = 3.20 Factor

15 inches 24 ÷ 15 = 1.60 Factor

## Combined Test Weight and Pack Factor

| Test Weight | Less Than 255 Sq. Ft. - | 255 Sq. Ft. to 461 Sq. Ft. - | 462 Sq. Ft. to 767 Sq. Ft. - | 768 Sq. Ft. to 1384 Sq. Ft. | 1385 Sq. Ft. to 2289 Sq. Ft. | 2290 or Over Sq. Ft. - |
|---|---|---|---|---|---|---|
| 40.0 | 0.719 | 0.727 | 0.739 | 0.745 | 0.757 | 0.774 |
| 40.5 | 0.727 | 0.735 | 0.747 | 0.753 | 0.765 | 0.782 |
| 41.0 | 0.735 | 0.743 | 0.755 | 0.761 | 0.773 | 0.790 |
| 41.5 | 0.743 | 0.751 | 0.763 | 0.769 | 0.781 | 0.798 |
| 42.0 | 0.750 | 0.759 | 0.771 | 0.777 | 0.789 | 0.806 |
| 42.5 | 0.758 | 0.767 | 0.780 | 0.785 | 0.797 | 0.814 |
| 43.0 | 0.766 | 0.775 | 0.788 | 0.793 | 0.805 | 0.822 |
| 43.5 | 0.774 | 0.783 | 0.796 | 0.801 | 0.813 | 0.830 |
| 44.0 | 0.782 | 0.791 | 0.804 | 0.809 | 0.821 | 0.838 |
| 44.5 | 0.790 | 0.798 | 0.812 | 0.817 | 0.829 | 0.846 |
| 45.0 | 0.797 | 0.806 | 0.820 | 0.825 | 0.837 | 0.854 |
| 45.5 | 0.805 | 0.814 | 0.828 | 0.833 | 0.845 | 0.862 |
| 46.0 | 0.813 | 0.822 | 0.836 | 0.841 | 0.853 | 0.870 |
| 46.5 | 0.820 | 0.830 | 0.844 | 0.849 | 0.861 | 0.878 |
| 47.0 | 0.828 | 0.837 | 0.851 | 0.857 | 0.869 | 0.886 |
| 47.5 | 0.836 | 0.845 | 0.859 | 0.865 | 0.877 | 0.894 |
| 48.0 | 0.843 | 0.853 | 0.867 | 0.873 | 0.885 | 0.902 |
| 48.5 | 0.851 | 0.860 | 0.875 | 0.881 | 0.893 | 0.910 |
| 49.0 | 0.858 | 0.868 | 0.883 | 0.889 | 0.901 | 0.918 |
| 49.5 | 0.866 | 0.876 | 0.891 | 0.897 | 0.909 | 0.926 |
| 50.0 | 0.873 | 0.883 | 0.898 | 0.905 | 0.917 | 0.934 |
| 50.5 | 0.881 | 0.891 | 0.906 | 0.913 | 0.925 | 0.942 |
| 51.0 | 0.888 | 0.898 | 0.914 | 0.921 | 0.933 | 0.951 |
| 51.5 | 0.896 | 0.906 | 0.921 | 0.928 | 0.940 | 0.957 |
| 52.0 | 0.903 | 0.913 | 0.929 | 0.936 | 0.948 | 0.966 |
| 52.5 | 0.910 | 0.921 | 0.937 | 0.943 | 0.955 | 0.973 |
| 53.0 | 0.918 | 0.928 | 0.944 | 0.951 | 0.963 | 0.981 |
| 53.5 | 0.925 | 0.936 | 0.952 | 0.959 | 0.971 | 0.990 |
| 54.0 | 0.932 | 0.943 | 0.959 | 0.966 | 0.978 | 0.997 |
| 54.5 | 0.940 | 0.951 | 0.967 | 0.974 | 0.986 | 1.005 |
| 55.0 | 0.947 | 0.958 | 0.974 | 0.982 | 0.994 | 1.013 |
| 55.5 | 0.954 | 0.965 | 0.982 | 0.989 | 1.001 | 1.020 |
| 56.0 | 0.961 | 0.973 | 0.989 | 0.997 | 1.010 | 1.029 |
| 56.5 | 0.969 | 0.980 | 0.997 | 1.004 | 1.016 | 1.035 |
| 57.0 | 0.976 | 0.987 | 1.004 | 1.012 | 1.025 | 1.044 |
| 57.5 | 0.983 | 0.994 | 1.012 | 1.019 | 1.032 | 1.051 |
| 58.0 | 0.990 | 1.001 | 1.019 | 1.027 | 1.040 | 1.060 |
| 58.5 | 0.997 | 1.009 | 1.026 | 1.034 | 1.047 | 1.067 |
| 59.0 | 1.004 | 1.016 | 1.033 | 1.041 | 1.054 | 1.074 |
| 59.5 | 1.011 | 1.023 | 1.041 | 1.049 | 1.062 | 1.083 |
| 60.0 | 1.018 | 1.030 | 1.048 | 1.056 | 1.069 | 1.090 |
| 60.5 | 1.025 | 1.037 | 1.055 | 1.063 | 1.076 | 1.097 |
| 61.0 | 1.032 | 1.044 | 1.062 | 1.071 | 1.084 | 1.105 |
| 61.5 | 1.039 | 1.051 | 1.070 | 1.078 | 1.091 | 1.112 |
| 62.0 | 1.046 | 1.058 | 1.077 | 1.085 | 1.098 | 1.119 |
| 62.5 | 1.053 | 1.065 | 1.084 | 1.092 | 1.105 | 1.126 |

**Combined Test Weight and Pack Factor (Continued)**

| Test Weight | Less Than 255 Sq. Ft. - | 255 Sq. Ft. to 461 Sq. Ft. - | 462 Sq. Ft. to 767 Sq. Ft. - | 768 Sq. Ft. to 1384 Sq. Ft. | 1385 Sq. Ft. to 2289 Sq. Ft. | 2290 or Over Sq. Ft. - |
|---|---|---|---|---|---|---|
| 63.0 | 1.059 | 1.072 | 1.091 | 1.099 | 1.112 | 1.133 |
| 63.5 | 1.066 | 1.079 | 1.098 | 1.106 | 1.119 | 1.140 |
| 64.0 | 1.073 | 1.086 | 1.105 | 1.113 | 1.126 | 1.147 |
| 64.5 | 1.080 | 1.093 | 1.112 | 1.120 | 1.133 | 1.154 |
| 65.0 | 1.087 | 1.100 | 1.119 | 1.127 | 1.140 | 1.161 |

If the actual test weight is not shown on the chart, refer to exhibit 4, item 60b for instructions.

**Exhibit 8**

**Seed (Bean) Size Factor**

| CC's Per 100 Seeds | Factor | CC's Per 100 Seeds | Factor | CC's Per 100 Seeds | Factor |
|---|---|---|---|---|---|
| 5 | 0.017 | 21 | 0.071 | 36 | 0.122 |
| 6 | 0.020 | 22 | 0.075 | 37 | 0.126 |
| 7 | 0.024 | 23 | 0.078 | 38 | 0.129 |
| 8 | 0.027 | 24 | 0.081 | 39 | 0.132 |
| 9 | 0.031 | 25 | 0.085 | 40 | 0.136 |
| 10 | 0.034 | 26 | 0.088 | 41 | 0.139 |
| 11 | 0.037 | 27 | 0.092 | 42 | 0.143 |
| 12 | 0.041 | 28 | 0.095 | 43 | 0.146 |
| 13 | 0.044 | 29 | 0.098 | 44 | 0.149 |
| 14 | 0.047 | 30 | 0.102 | 45 | 0.153 |
| 15 | 0.051 | 31 | 0.105 | 46 | 0.156 |
| 16 | 0.054 | 32 | 0.109 | 47 | 0.160 |
| 17 | 0.058 | 33 | 0.112 | 48 | 0.163 |
| 18 | 0.061 | 34 | 0.115 | 49 | 0.166 |
| 19 | 0.064 | 35 | 0.119 | 50 | 0.170 |
| 20 | 0.068 | | | | |

If unable to obtain l00 mature beans in sample due to immaturity or swelling from excess moisture, use factor .092 unless otherwise authorized.

## Plants Per Acre

**Instructions:** Count the number of plants in a representative 10 feet of row (3-foot square grid for broadcast). Find the number in the appropriate row width column. If the number of counted plants is not shown on the table, use the next higher shown number. Then go to the far left column to find the number of plants per acre.

| Plants Per Acre | Row Width (inches) | | | | | | | | | | | | | | | | | | | Broadcast |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 40 | 38 | 36 | 34 | 32 | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 7 | 6 | (3' x 3') |
| **180,000** | 138 | 131 | 124 | 117 | 110 | 103 | 96 | 90 | 83 | 76 | 69 | 62 | 55 | 48 | 41 | 34 | 28 | 24 | 21 | 37 |
| **175,000** | 134 | 127 | 121 | 114 | 107 | 100 | 94 | 87 | 80 | 74 | 67 | 60 | 54 | 47 | 40 | 33 | 27 | 23 | 20 | 36 |
| **170,000** | 130 | 124 | 117 | 111 | 104 | 98 | 91 | 85 | 78 | 72 | 65 | 59 | 52 | 46 | 39 | | 26 | | | 35 |
| **165,000** | 126 | 120 | 114 | 107 | 101 | 95 | 88 | 82 | 76 | 69 | 63 | 57 | 51 | 44 | 38 | 32 | 25 | 22 | 19 | 34 |
| **160,000** | 122 | 116 | 110 | 104 | 98 | 92 | 86 | 80 | 73 | 67 | 61 | 55 | 49 | 43 | 37 | 31 | 24 | 21 | 18 | 33 |
| **155,000** | 119 | 113 | 107 | 101 | 95 | 89 | 83 | 77 | 71 | 65 | 59 | 53 | 47 | 42 | 36 | 30 | | | | 32 |
| **150,000** | 115 | 109 | 103 | 98 | 92 | 86 | 80 | 75 | 69 | 63 | 57 | 52 | 46 | 40 | 34 | 29 | 23 | 20 | 17 | 31 |
| **145,000** | 111 | 105 | 100 | 94 | 89 | 83 | 78 | 72 | 67 | 61 | 55 | 50 | 44 | 39 | 33 | 28 | 22 | 19 | | 30 |
| **140,000** | 107 | 102 | 96 | 91 | 86 | 80 | 75 | 70 | 64 | 59 | 54 | 48 | 43 | 37 | 32 | 27 | 21 | | 16 | 29 |
| **135,000** | 103 | 98 | 93 | 88 | 83 | 77 | 72 | 67 | 62 | 57 | 52 | 46 | 41 | 36 | 31 | 26 | | 18 | 15 | 28 |
| **130,000** | 99 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 | 45 | 40 | 35 | 30 | 25 | 20 | 17 | | 27 |
| **125,000** | 96 | 91 | 86 | 81 | 77 | 72 | 67 | 62 | 57 | 53 | 48 | 43 | 38 | 33 | 29 | 24 | 19 | | 14 | 26 |
| **122,500** | 94 | 89 | 84 | 80 | 75 | 70 | 66 | 61 | 56 | 52 | 47 | 42 | 37 | | 28 | 23 | | 16 | | |
| **120,000** | 92 | 87 | 83 | 78 | 73 | 69 | 64 | 60 | 55 | 51 | 46 | 41 | | 32 | | 23 | 18 | | | 25 |
| **117,500** | 90 | 85 | 81 | 76 | 72 | 67 | 63 | 58 | 54 | 49 | 45 | 40 | 36 | 31 | 27 | 22 | | | 13 | |
| **115,000** | 88 | 84 | 79 | 75 | 70 | 66 | 62 | 57 | 53 | 48 | 44 | | 35 | | 26 | | | 15 | | 24 |
| **112,500** | 86 | 81 | 77 | 73 | 69 | 64 | 60 | 56 | 51 | 47 | 43 | 39 | 34 | 30 | | 21 | 17 | | | |
| **110,000** | 84 | 80 | 76 | 72 | 67 | 63 | 59 | 55 | | 46 | 42 | 38 | | 29 | 25 | | | | | 23 |
| | **Number of Plants in Ten Feet of Row** | | | | | | | | | | | | | | | | | | | |

**Plants Per Acre (Continued)**

| Plants Per Acre | Row Width (inches) | | | | | | | | | | | | | | | | | | Broadcast |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 40 | 38 | 36 | 34 | 32 | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 7 | 6 | (3' x 3') |
| **107,500** | 82 | 78 | 74 | 70 | 66 | 62 | 58 | 53 | 49 | 45 | 41 | 37 | 33 | | | | 16 | 14 | 12 | |
| **105,000** | 80 | 76 | 72 | 68 | 64 | 60 | 56 | 52 | 48 | 44 | 40 | 36 | 32 | 28 | 24 | 20 | | | | 22 |
| **102,500** | 78 | 75 | 71 | 67 | 63 | 59 | 55 | 51 | 47 | 43 | 39 | 35 | 31 | 27 | | | | | | |
| **100,000** | 77 | 73 | 69 | 65 | 61 | 57 | 54 | 50 | 46 | 42 | 38 | 34 | | | 23 | 19 | 15 | 13 | 11 | 21 |
| **97,500** | 75 | 71 | 67 | 63 | 60 | 56 | 52 | 48 | 45 | 41 | 37 | | 30 | 26 | 22 | | | | | |
| **95,000** | 73 | 69 | 65 | 62 | 58 | 55 | 51 | 47 | 44 | 40 | 36 | 33 | 29 | 25 | | 18 | | | | 20 |
| **92,500** | 71 | 67 | 64 | 60 | 57 | 53 | 50 | 46 | 42 | 39 | 35 | 32 | 28 | | 21 | | 14 | 12 | | |
| **90,000** | 69 | 65 | 62 | 59 | 55 | 52 | 48 | 45 | 41 | 38 | 34 | 31 | | 24 | | 17 | | | 10 | 18 |
| **87,500** | 67 | 64 | 60 | 57 | 54 | 50 | 47 | 44 | 40 | 37 | 33 | 30 | 27 | 23 | 20 | | 13 | | | |
| **85,000** | 65 | 62 | 59 | 55 | 52 | 49 | 46 | 42 | 39 | 36 | | 29 | 26 | | | 16 | | 11 | | 17 |
| **82,500** | 63 | 60 | 57 | 54 | 51 | 47 | 44 | 41 | 38 | 35 | 32 | 28 | 25 | 22 | 19 | | | | 9 | |
| **80,000** | 61 | 58 | 55 | 52 | 49 | 46 | 43 | 40 | 37 | 34 | 31 | | 24 | 21 | 18 | 15 | 12 | | | 16 |
| **77,500** | 59 | 56 | 53 | 50 | 47 | 44 | 42 | 39 | 36 | 33 | 30 | 27 | | | | | | 10 | | |
| **75,000** | 57 | 55 | 52 | 49 | 46 | 43 | 40 | 37 | 34 | 32 | 29 | 26 | 23 | 20 | 17 | 14 | 11 | | | 15 |
| **72,500** | 55 | 53 | 50 | 47 | 44 | 42 | 39 | 36 | 33 | 31 | 28 | 25 | 22 | 19 | | | | | 8 | |
| **70,000** | 54 | 51 | 48 | 46 | 43 | 40 | 37 | 35 | 32 | 29 | 27 | 24 | 21 | | 16 | 13 | | 9 | | 14 |
| **67,500** | 52 | 49 | 46 | 44 | 41 | 39 | 36 | 34 | 31 | 28 | 26 | 23 | | 18 | 15 | | 10 | | | |
| **65,000** | 50 | 47 | 45 | 42 | 40 | 37 | 35 | 32 | 30 | 27 | 25 | 22 | 20 | 17 | | 12 | | | 7 | 13 |
| **62,500** | 48 | 45 | 43 | 41 | 38 | 36 | 33 | 31 | 29 | 26 | 24 | | 19 | | 14 | | | 8 | | |
| **60,000** | 46 | 44 | 41 | 39 | 37 | 34 | 32 | 30 | 28 | 25 | 23 | 21 | 18 | 16 | | 11 | 9 | | | 12 |
| | **Number of Plants in Ten Feet of Row** | | | | | | | | | | | | | | | | | | | |

**Plants Per Acre (Continued)**

| Plants Per Acre | Row Width (inches) | | | | | | | | | | | | | | | | | | | Broadcast |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 40 | 38 | 36 | 34 | 32 | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 7 | 6 | (3' x 3') |
| **57,500** | 44 | 42 | 40 | 37 | 35 | 33 | 31 | 29 | 26 | 24 | 22 | 20 | | 15 | 13 | | | | | |
| **55,000** | 42 | 40 | 38 | 36 | 34 | 32 | 29 | 27 | 25 | 23 | 21 | 19 | 17 | | | | 8 | 7 | 6 | 11 |
| **52,500** | 40 | 38 | 36 | 34 | 32 | 30 | 28 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | | | | |
| **50,000** | 38 | 36 | 34 | 33 | 31 | 29 | 27 | 25 | 23 | 21 | 19 | 17 | 15 | 13 | 11 | | | | | 10 |
| **47,500** | 36 | 35 | 33 | 31 | 29 | 27 | 25 | 24 | 22 | 20 | 18 | 16 | | | | 9 | 7 | 6 | 5 | |
| **45,000** | 34 | 33 | 31 | 29 | 28 | 26 | 24 | 22 | 21 | 19 | 17 | 15 | 14 | 12 | 10 | | | | | 9 |
| **42,500** | 33 | 31 | 29 | 28 | 26 | 24 | 23 | 21 | 20 | 18 | 16 | | 13 | 11 | | 8 | | | | |
| **40,000** | 31 | 29 | 28 | 26 | 24 | 23 | 21 | 20 | 18 | 17 | 15 | 14 | 12 | | 9 | | 6 | 5 | | 8 |
| **37,500** | 29 | 27 | 26 | 24 | 23 | 22 | 20 | 19 | 17 | 16 | 14 | 13 | 11 | 10 | | 7 | | | 4 | |
| **35,000** | 27 | 25 | 24 | 23 | 21 | 20 | 19 | 17 | 16 | 15 | 13 | 12 | | 9 | 8 | | 5 | | | 7 |
| **32,500** | 25 | 24 | 22 | 21 | 20 | 19 | 17 | 16 | 15 | 14 | 12 | 11 | 10 | | 7 | 6 | | 4 | | |
| **30,000** | 23 | 22 | 21 | 20 | 18 | 17 | 16 | 15 | 14 | 13 | 11 | 10 | 9 | 8 | | | | | 3 | 6 |
| **27,500** | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | | 9 | 8 | 7 | 6 | 5 | 4 | | | |
| **25,000** | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 11 | 10 | | | | | | | 3 | | 5 |
| **22,500** | 17 | 16 | 15 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | | | |
| **20,000** | 15 | 15 | 14 | 13 | 12 | 11 | 11 | 10 | 9 | 8 | 8 | 7 | 6 | 5 | | | | | 2 | 4 |
| **17,500** | 13 | 13 | 12 | 11 | 11 | 10 | 9 | 9 | 8 | 7 | 7 | 6 | 5 | | 4 | 3 | | 2 | | |
| **15,000** | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 7 | 7 | 6 | 6 | 5 | | 4 | 3 | | 2 | | | 3 |
| **12,500** | 10 | 9 | 9 | 8 | 8 | 7 | 7 | 6 | 6 | 5 | 5 | 4 | 4 | 3 | | 2 | | | 1 | |
| **10,000** | 8 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 5 | 4 | 4 | 3 | 3 | | 2 | | | 1 | | 2 |
| | **Number of Plants in Ten Feet of Row** | | | | | | | | | | | | | | | | | | | |

**Plants Per Acre (Continued)**

If the number of counted plants in ten feet of row is greater than the top number in the appropriate row width column, divide the number of plants by 2, and proceed as above. Multiply the plants per acre found in the left column by 2 to arrive at the actual number of plants per acre. (Refer to **Example 1** below.) If the number of counted plants in ten feet of row is fewer than the lowest number in the appropriate row width column, multiply the number of plants by 2, and proceed as above. Divide the plants per acre found in the left column by 2 to arrive at the actual number of plants per acre. (Refer to **Example 2** below.) If the plant population is above 125,000, round to the nearest 5,000. If the population is below 125,000, round to the nearest 2,500. (Refer to examples below.)

**Example 1:**
Row Width = 30 inches
110 Original Plants in 10 feet of Row
110 ÷ 2 = 55
55 Original Plants = 95,000 plants per acre
95,000 plants per acre x 2 = 190,000

**Example 2:**
Row Width = 30 inches
4 Original Plants in 10 feet of Row
4 x 2 = 8
8 Original Plants = 15,000 plants per acre
15,000 plants per acre ÷ 2 = 7,500

If the planted row width is not listed on the table, divide the row width, in inches, by 12 (inches). Multiply this result by 10 (feet) to arrive at the square feet in the sample. Count the number of plants in the sample and divide by the square feet to arrive at plants per square foot. Multiply plants per square foot by 43,560 sq. ft. per acre to arrive at plants per acre. If the plant population is above 125,000, round to the nearest 5,000. If the population is below 125,000, round to the nearest 2,500. (Refer to examples below.)

**Example 1:**
Row Width = 15 inches
42 Original Plants in 10 feet of row
(15 in. ÷ 12 in.) x 10 feet = 12.5 sq. ft.
42 ÷ 12.5 = 3.36
3.36 x 43,560 = 146,362 (round to 145,000)

**Example 2:**
Row Width = 7 ½ inches
15 Original Plants in 10 feet of row
(7.5 in. ÷ 12 in.) x 10 feet = 6.25 sq. ft.
15 ÷ 6.25 = 2.40
2.40 x 43,560 = 104,544 (round to 105,000)

## Indeterminate Soybean Stand Reduction Loss - VC – R1 Stages

| Original Stand Plants/Acr | Remaining Plants Per Acre ( 000's omitted) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 180 | 175 | 170 | 165 | 160 | 155 | 150 | 145 | 140 | 135 | 130 | 125 | 122.5 | 120 | 117.5 | 115 | 112.5 | 110 | 107.5 |
| 180.000 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 |
| 175.000 | | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| 170.000 | | | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| 165.000 | | | | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| 160.000 | | | | | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| 155.000 | | | | | | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| 150.000 | | | | | | | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 |
| 145.000 | | | | | | | | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 |
| 140.000 | | | | | | | | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 |
| 135.000 | | | | | | | | | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 130.000 | | | | | | | | | | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| 125.000 | | | | | | | | | | | | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 |
| 122.500 | | | | | | | | | | | | | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 120.000 | | | | | | | | | | | | | | 0 | 0 | 0 | 1 | 1 | 1 |
| 117.500 | | | | | | | | | | | | | | | 0 | 0 | 0 | 1 | 1 |
| 115.000 | | | | | | | | | | | | | | | | 0 | 0 | 1 | 1 |
| 112.500 | | | | | | | | | | | | | | | | | 0 | 0 | 1 |
| 110.000 | | | | | | | | | | | | | | | | | | 0 | 0 |
| 107.500 | | | | | | | | | | | | | | | | | | | 0 |

| Original Stand Plants/Acre | Remaining Plants Per Acre ( 000's omitted) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 105 | 102.5 | 100 | 97.5 | 95 | 92.5 | 90 | 87.5 | 85 | 82.5 | 80 | 77.5 | 75 | 72.5 | 70 | 67.5 | 65 | 62.5 | 60 |
| 180.000 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 175.000 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 170.000 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 165.000 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 160.000 | 4 | 4 | 4 | 5 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 155.000 | 3 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 15 | 16 |
| 150.000 | 3 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 14 | 16 |
| 145.000 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 140.000 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 135.000 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 130.000 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 10 | 11 | 13 | 14 | 15 |
| 125.000 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 6 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 15 |
| 122.500 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 120.000 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 117.500 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 115.000 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 13 | 14 |
| 112.500 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 11 | 12 | 14 |
| 110.000 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 107.500 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 105.000 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 12 | 13 |
| 102.500 | | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 13 |
| 100.000 | | | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 97.500 | | | | 0 | 0 | 1 | 1 | 2 | 3 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 9 | 11 | 12 |
| 95.000 | | | | | 0 | 0 | 1 | 2 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 92.500 | | | | | | 0 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 9 | 10 | 11 |
| 90.000 | | | | | | | 0 | 1 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 11 |
| 87.500 | | | | | | | | 0 | 1 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 8 | 9 | 10 |
| 85.000 | | | | | | | | | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 82.500 | | | | | | | | | | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 |
| 80.000 | | | | | | | | | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Percent Loss From Stand Reduction | | | | | | | | | | | | | | | | | | |

## Indeterminate Soybean Stand Reduction Loss VC – R1 Stages (Continued)

| Original Stand Plants/Acre | Remaining Plants Per Acre ( 000's omitted) | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 57.5 | 55 | 52.5 | 50 | 47.5 | 45 | 42.5 | 40 | 37.5 | 35 | 32.5 | 30 | 27.5 | 25 | 22.5 | 20 | 17.5 | 15 | 12.5 | 10 | 7.5 | 5 | 2.5 | 0 |
| **180,000** | 18 | 19 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 35 | 38 | 40 | 44 | 47 | 51 | 55 | 59 | 64 | 69 | 74 | 80 | 86 | 93 | 100 |
| **175,000** | 17 | 19 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 35 | 37 | 40 | 44 | 47 | 51 | 55 | 59 | 64 | 69 | 74 | 80 | 86 | 93 | 100 |
| **170,000** | 17 | 19 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 35 | 37 | 40 | 44 | 47 | 51 | 55 | 59 | 64 | 69 | 74 | 80 | 86 | 93 | 100 |
| **165,000** | 17 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 37 | 40 | 43 | 47 | 51 | 55 | 59 | 64 | 69 | 74 | 80 | 86 | 93 | 100 |
| **160,000** | 17 | 19 | 20 | 22 | 23 | 25 | 27 | 30 | 32 | 35 | 37 | 40 | 43 | 47 | 51 | 55 | 59 | 64 | 69 | 74 | 80 | 86 | 93 | 100 |
| **155,000** | 17 | 18 | 20 | 22 | 23 | 25 | 27 | 30 | 32 | 34 | 37 | 40 | 43 | 47 | 51 | 55 | 59 | 63 | 68 | 74 | 80 | 86 | 93 | 100 |
| **150,000** | 17 | 18 | 20 | 22 | 23 | 25 | 27 | 29 | 32 | 34 | 37 | 40 | 43 | 47 | 50 | 54 | 59 | 63 | 68 | 74 | 80 | 86 | 93 | 100 |
| **145,000** | 17 | 18 | 20 | 21 | 23 | 25 | 27 | 29 | 32 | 34 | 37 | 40 | 43 | 47 | 50 | 54 | 59 | 63 | 68 | 74 | 80 | 86 | 93 | 100 |
| **140,000** | 17 | 18 | 20 | 21 | 23 | 25 | 27 | 29 | 32 | 34 | 37 | 40 | 43 | 47 | 50 | 54 | 59 | 63 | 68 | 74 | 80 | 86 | 93 | 100 |
| **135,000** | 16 | 18 | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 34 | 37 | 40 | 43 | 46 | 50 | 54 | 58 | 63 | 68 | 74 | 80 | 86 | 93 | 100 |
| **130,000** | 16 | 18 | 19 | 21 | 23 | 24 | 27 | 29 | 31 | 34 | 37 | 40 | 43 | 46 | 50 | 54 | 58 | 63 | 68 | 74 | 79 | 86 | 93 | 100 |
| **125,000** | 16 | 17 | 19 | 21 | 22 | 24 | 26 | 29 | 31 | 33 | 36 | 39 | 43 | 46 | 50 | 54 | 58 | 63 | 68 | 74 | 79 | 86 | 93 | 100 |
| **122,500** | 16 | 17 | 19 | 20 | 22 | 24 | 26 | 28 | 31 | 33 | 36 | 39 | 42 | 46 | 50 | 54 | 58 | 63 | 68 | 73 | 79 | 86 | 93 | 100 |
| **120,000** | 16 | 17 | 19 | 20 | 22 | 24 | 26 | 28 | 31 | 33 | 36 | 39 | 42 | 46 | 50 | 54 | 58 | 63 | 68 | 73 | 79 | 86 | 93 | 100 |
| **117,500** | 15 | 17 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 33 | 36 | 39 | 42 | 46 | 49 | 54 | 58 | 63 | 68 | 73 | 79 | 86 | 93 | 100 |
| **115,000** | 15 | 17 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 33 | 36 | 39 | 42 | 46 | 49 | 53 | 58 | 63 | 68 | 73 | 79 | 86 | 93 | 100 |
| **112,500** | 15 | 16 | 18 | 20 | 21 | 23 | 25 | 28 | 30 | 33 | 36 | 39 | 42 | 45 | 49 | 53 | 58 | 63 | 68 | 73 | 79 | 86 | 93 | 100 |
| **110,000** | 15 | 16 | 18 | 19 | 21 | 23 | 25 | 28 | 30 | 33 | 35 | 38 | 42 | 45 | 49 | 53 | 58 | 62 | 68 | 73 | 79 | 86 | 93 | 100 |
| **107,500** | 14 | 16 | 17 | 19 | 21 | 23 | 25 | 27 | 30 | 32 | 35 | 38 | 42 | 45 | 49 | 53 | 58 | 62 | 67 | 73 | 79 | 86 | 92 | 100 |
| **105,000** | 14 | 16 | 17 | 19 | 21 | 23 | 25 | 27 | 30 | 32 | 35 | 38 | 41 | 45 | 49 | 53 | 57 | 62 | 67 | 73 | 79 | 85 | 92 | 100 |
| **102,500** | 14 | 15 | 17 | 19 | 20 | 22 | 25 | 27 | 29 | 32 | 35 | 38 | 41 | 45 | 49 | 53 | 57 | 62 | 67 | 73 | 79 | 85 | 92 | 100 |
| **100,000** | 14 | 15 | 17 | 18 | 20 | 22 | 24 | 27 | 29 | 32 | 35 | 38 | 41 | 45 | 48 | 53 | 57 | 62 | 67 | 73 | 79 | 85 | 92 | 100 |
| **97,500** | 13 | 15 | 16 | 18 | 20 | 22 | 24 | 26 | 29 | 31 | 34 | 37 | 41 | 44 | 48 | 52 | 57 | 62 | 67 | 73 | 79 | 85 | 92 | 100 |
| **95,000** | 13 | 14 | 16 | 18 | 19 | 21 | 24 | 26 | 28 | 31 | 34 | 37 | 40 | 44 | 48 | 52 | 57 | 62 | 67 | 73 | 79 | 85 | 92 | 100 |
| **92,500** | 12 | 14 | 15 | 17 | 19 | 21 | 23 | 26 | 28 | 31 | 34 | 37 | 40 | 44 | 48 | 52 | 56 | 61 | 67 | 72 | 79 | 85 | 92 | 100 |
| **90,000** | 12 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 28 | 30 | 33 | 36 | 40 | 43 | 47 | 52 | 56 | 61 | 67 | 72 | 78 | 85 | 92 | 100 |
| **87,500** | 11 | 13 | 15 | 16 | 18 | 20 | 22 | 25 | 27 | 30 | 33 | 36 | 39 | 43 | 47 | 51 | 56 | 61 | 66 | 72 | 78 | 85 | 92 | 100 |
| **85,000** | 11 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 27 | 30 | 33 | 36 | 39 | 43 | 47 | 51 | 56 | 61 | 66 | 72 | 78 | 85 | 92 | 100 |
| **82,500** | 10 | 12 | 13 | 15 | 17 | 19 | 21 | 24 | 26 | 29 | 32 | 35 | 39 | 42 | 46 | 51 | 55 | 60 | 66 | 72 | 78 | 85 | 92 | 100 |
| **80,000** | 10 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 26 | 29 | 32 | 35 | 38 | 42 | 46 | 50 | 55 | 60 | 66 | 72 | 78 | 85 | 92 | 100 |
| | **Percent Loss from Stand Reduction** | | | | | | | | | | | | | | | | | | | | | | | |

## Indeterminate Soybean Stand Reduction Loss VC – R1 Stages (Continued)

| Original Stand Plants/Acre | Remaining Plants Per Acre ( 000's omitted) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 77.5 | 75 | 72.5 | 70 | 67.5 | 65 | 62.5 | 60 | 57.5 | 55 | 52.5 | 50 | 47.5 | 45 | 42.5 | 40 | 37.5 | 35 | 32.5 | 30 | 27.5 | 25 | 22.5 | 20 | 17.5 | 15 | 12.5 | 10 | 7.5 | 5 | 2.5 | 0 |
| **77,500** | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 12 | 14 | 16 | 18 | 20 | 23 | 25 | 28 | 31 | 34 | 38 | 42 | 46 | 50 | 55 | 60 | 65 | 71 | 78 | 85 | 92 | 100 |
| **75,000** | | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 10 | 11 | 13 | 15 | 17 | 19 | 22 | 25 | 27 | 30 | 34 | 37 | 41 | 45 | 50 | 54 | 60 | 65 | 71 | 78 | 84 | 92 | 100 |
| **72,500** | | | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 11 | 12 | 14 | 16 | 19 | 21 | 24 | 27 | 30 | 33 | 37 | 41 | 45 | 49 | 54 | 59 | 65 | 71 | 77 | 84 | 92 | 100 |
| **70,000** | | | | 0 | 1 | 2 | 4 | 5 | 6 | 8 | 10 | 11 | 13 | 16 | 18 | 20 | 23 | 26 | 29 | 32 | 36 | 40 | 44 | 49 | 54 | 59 | 64 | 71 | 77 | 84 | 92 | 100 |
| **67,500** | | | | | 0 | 1 | 2 | 4 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 20 | 22 | 25 | 28 | 32 | 35 | 39 | 44 | 48 | 53 | 58 | 64 | 70 | 77 | 84 | 92 | 100 |
| **65,000** | | | | | | 0 | 1 | 3 | 4 | 6 | 8 | 9 | 11 | 14 | 16 | 19 | 21 | 24 | 27 | 31 | 35 | 39 | 43 | 47 | 52 | 58 | 64 | 70 | 77 | 84 | 92 | 100 |
| **62,500** | | | | | | | 0 | 1 | 3 | 5 | 6 | 8 | 10 | 13 | 15 | 17 | 20 | 23 | 26 | 30 | 34 | 38 | 42 | 47 | 52 | 57 | 63 | 69 | 76 | 84 | 91 | 100 |
| **60,000** | | | | | | | | 0 | 2 | 3 | 5 | 7 | 9 | 11 | 14 | 16 | 19 | 22 | 25 | 29 | 33 | 37 | 41 | 46 | 51 | 57 | 63 | 69 | 76 | 83 | 91 | 100 |
| **57,500** | | | | | | | | | 0 | 2 | 4 | 5 | 8 | 10 | 12 | 15 | 18 | 21 | 24 | 28 | 32 | 36 | 40 | 45 | 50 | 56 | 62 | 68 | 76 | 83 | 91 | 100 |
| **55,000** | | | | | | | | | | 0 | 2 | 4 | 6 | 8 | 11 | 14 | 16 | 20 | 23 | 27 | 31 | 35 | 39 | 44 | 49 | 55 | 61 | 68 | 75 | 83 | 91 | 100 |
| **52,500** | | | | | | | | | | | 0 | 2 | 4 | 7 | 9 | 12 | 15 | 18 | 21 | 25 | 29 | 34 | 38 | 43 | 49 | 54 | 61 | 67 | 75 | 82 | 91 | 100 |
| **50,000** | | | | | | | | | | | | 0 | 2 | 5 | 7 | 10 | 13 | 16 | 20 | 24 | 28 | 32 | 37 | 42 | 47 | 53 | 60 | 67 | 74 | 82 | 91 | 100 |
| **47,500** | | | | | | | | | | | | | 0 | 2 | 5 | 8 | 11 | 14 | 18 | 22 | 26 | 31 | 35 | 41 | 46 | 52 | 59 | 66 | 73 | 82 | 90 | 100 |
| **45,000** | | | | | | | | | | | | | | 0 | 3 | 6 | 9 | 12 | 16 | 20 | 24 | 29 | 34 | 39 | 45 | 51 | 58 | 65 | 73 | 81 | 90 | 100 |
| **42,500** | | | | | | | | | | | | | | | 0 | 3 | 6 | 10 | 14 | 18 | 22 | 27 | 32 | 37 | 43 | 50 | 57 | 64 | 72 | 81 | 90 | 100 |
| **40,000** | | | | | | | | | | | | | | | | 0 | 3 | 7 | 11 | 15 | 20 | 25 | 30 | 35 | 42 | 48 | 55 | 63 | 71 | 80 | 90 | 100 |
| **37,500** | | | | | | | | | | | | | | | | | 0 | 4 | 8 | 12 | 17 | 22 | 27 | 33 | 40 | 46 | 54 | 62 | 70 | 79 | 89 | 100 |
| **35,000** | | | | | | | | | | | | | | | | | | 0 | 4 | 9 | 14 | 19 | 25 | 31 | 37 | 44 | 52 | 60 | 69 | 79 | 89 | 100 |
| **32500** | | | | | | | | | | | | | | | | | | | 0 | 5 | 10 | 15 | 21 | 28 | 34 | 42 | 50 | 58 | 68 | 78 | 88 | 100 |
| **30,000** | | | | | | | | | | | | | | | | | | | | 0 | 5 | 11 | 17 | 24 | 31 | 39 | 47 | 56 | 66 | 77 | 88 | 100 |
| **27,500** | | | | | | | | | | | | | | | | | | | | | 0 | 6 | 13 | 20 | 27 | 36 | 44 | 54 | 64 | 75 | 87 | 100 |
| **25,000** | | | | | | | | | | | | | | | | | | | | | | 0 | 7 | 14 | 23 | 31 | 41 | 51 | 62 | 74 | 86 | 100 |
| **22,500** | | | | | | | | | | | | | | | | | | | | | | | 0 | 8 | 17 | 26 | 36 | 47 | 59 | 72 | 85 | 100 |
| **20,000** | | | | | | | | | | | | | | | | | | | | | | | | 0 | 9 | 20 | 31 | 43 | 55 | 69 | 84 | 100 |
| **17,500** | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 11 | 23 | 37 | 51 | 66 | 82 | 100 |
| **15,000** | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 14 | 28 | 44 | 62 | 80 | 100 |
| | **Percent Loss from Stand Reduction** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## Indeterminate Soybean Stand Reduction Loss R2 – R3.5 Stages (Continued)

| Original Stand Plants/Acre | Remaining Plants Per Acre ( 000's omitted) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 180 | 175 | 170 | 165 | 160 | 155 | 150 | 145 | 140 | 135 | 130 | 125 | 122.5 | 120 | 117.5 | 115 | 112.5 | 110 | 107.5 |
| 180,000 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 11 | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 175,000 | | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 10 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 170,000 | | | 0 | 1 | 2 | 3 | 5 | 6 | 8 | 9 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 165,000 | | | | 0 | 1 | 2 | 4 | 5 | 7 | 8 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 160,000 | | | | | 0 | 1 | 3 | 4 | 5 | 7 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 155,000 | | | | | | 0 | 1 | 3 | 4 | 6 | 7 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 150,000 | | | | | | | 0 | 1 | 3 | 5 | 6 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 145,000 | | | | | | | | 0 | 2 | 3 | 5 | 7 | 8 | 8 | 9 | 10 | 11 | 13 | 14 |
| 140,000 | | | | | | | | | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 135,000 | | | | | | | | | | 0 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 130,000 | | | | | | | | | | | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 125,000 | | | | | | | | | | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 122,500 | | | | | | | | | | | | | 0 | 1 | 2 | 3 | 4 | 5 | 7 |
| 120,000 | | | | | | | | | | | | | | 0 | 1 | 2 | 3 | 4 | 6 |
| 117,500 | | | | | | | | | | | | | | | 0 | 1 | 2 | 3 | 5 |
| 115,000 | | | | | | | | | | | | | | | | 0 | 1 | 2 | 4 |
| 112,500 | | | | | | | | | | | | | | | | | 0 | 1 | 2 |
| 110,000 | | | | | | | | | | | | | | | | | | 0 | 1 |
| 107,500 | | | | | | | | | | | | | | | | | | | 0 |
| | Percent Loss from Stand Reduction | | | | | | | | | | | | | | | | | | |

| Original Stand Plants/Acre | Remaining Plants Per Acre ( 000's omitted) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 105 | 102.5 | 100 | 97.5 | 95 | 92.5 | 90 | 87.5 | 85 | 82.5 | 80 | 77.5 | 75 | 72.5 | 70 | 67.5 | 65 | 62.5 | 60 |
| 180,000 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 31 | 32 | 33 | 35 | 36 | 37 | 39 | 40 | 42 | 44 | 45 |
| 175,000 | 21 | 22 | 23 | 24 | 25 | 26 | 28 | 29 | 30 | 31 | 33 | 34 | 35 | 37 | 38 | 40 | 41 | 43 | 45 |
| 170,000 | 20 | 21 | 22 | 23 | 24 | 26 | 27 | 28 | 29 | 31 | 32 | 33 | 35 | 36 | 38 | 39 | 41 | 42 | 44 |
| 165,000 | 19 | 20 | 21 | 22 | 24 | 25 | 26 | 27 | 29 | 30 | 31 | 33 | 34 | 36 | 37 | 39 | 40 | 42 | 43 |
| 160,000 | 18 | 19 | 20 | 21 | 23 | 24 | 25 | 26 | 28 | 29 | 30 | 32 | 33 | 35 | 36 | 38 | 39 | 41 | 43 |
| 155,000 | 17 | 18 | 19 | 20 | 22 | 23 | 24 | 25 | 27 | 28 | 30 | 31 | 32 | 34 | 35 | 37 | 39 | 40 | 42 |
| 150,000 | 16 | 17 | 18 | 19 | 21 | 22 | 23 | 24 | 26 | 27 | 29 | 30 | 31 | 33 | 35 | 36 | 38 | 40 | 41 |
| 145,000 | 15 | 16 | 17 | 18 | 19 | 21 | 22 | 23 | 25 | 26 | 28 | 29 | 31 | 32 | 34 | 35 | 37 | 39 | 40 |
| 140,000 | 13 | 15 | 16 | 17 | 18 | 19 | 21 | 22 | 24 | 25 | 26 | 28 | 29 | 31 | 33 | 34 | 36 | 38 | 40 |
| 135,000 | 12 | 13 | 14 | 16 | 17 | 18 | 19 | 21 | 22 | 24 | 25 | 27 | 28 | 30 | 32 | 33 | 35 | 37 | 39 |
| 130,000 | 10 | 12 | 13 | 14 | 15 | 17 | 18 | 19 | 21 | 22 | 24 | 25 | 27 | 29 | 30 | 32 | 34 | 36 | 37 |
| 125,000 | 9 | 10 | 11 | 12 | 14 | 15 | 16 | 18 | 19 | 21 | 22 | 24 | 26 | 27 | 29 | 31 | 33 | 34 | 36 |
| 122,500 | 8 | 9 | 10 | 12 | 13 | 14 | 16 | 17 | 19 | 20 | 22 | 23 | 25 | 27 | 28 | 30 | 32 | 34 | 36 |
| 120,000 | 7 | 8 | 9 | 11 | 12 | 13 | 15 | 16 | 18 | 19 | 21 | 22 | 24 | 26 | 28 | 29 | 31 | 33 | 35 |
| 117,500 | 6 | 7 | 8 | 10 | 11 | 12 | 14 | 15 | 17 | 18 | 20 | 22 | 23 | 25 | 27 | 29 | 30 | 32 | 34 |
| 115,000 | 5 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 16 | 17 | 19 | 21 | 22 | 24 | 26 | 28 | 30 | 32 | 34 |
| 112,500 | 4 | 5 | 6 | 8 | 9 | 10 | 12 | 13 | 15 | 17 | 18 | 20 | 22 | 23 | 25 | 27 | 29 | 31 | 33 |
| 110,000 | 3 | 4 | 5 | 7 | 8 | 9 | 11 | 12 | 14 | 16 | 17 | 19 | 21 | 22 | 24 | 26 | 28 | 30 | 32 |
| 107,500 | 1 | 3 | 4 | 5 | 7 | 8 | 10 | 11 | 13 | 14 | 16 | 18 | 20 | 21 | 23 | 25 | 27 | 29 | 31 |
| 105,000 | 0 | 1 | 3 | 4 | 6 | 7 | 9 | 10 | 12 | 13 | 15 | 17 | 19 | 20 | 22 | 24 | 26 | 28 | 30 |
| 102,500 | | 0 | 1 | 3 | 4 | 6 | 7 | 9 | 11 | 12 | 14 | 16 | 17 | 19 | 21 | 23 | 25 | 27 | 29 |
| 100,000 | | | 0 | 1 | 3 | 4 | 6 | 8 | 9 | 11 | 13 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 |
| 97,500 | | | | 0 | 2 | 3 | 5 | 6 | 8 | 10 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 |
| 95,000 | | | | | 0 | 2 | 3 | 5 | 7 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 |
| 92,500 | | | | | | 0 | 2 | 3 | 5 | 7 | 9 | 10 | 12 | 14 | 16 | 18 | 21 | 23 | 25 |
| 90,000 | | | | | | | 0 | 2 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 24 |
| 87,500 | | | | | | | | 0 | 2 | 4 | 5 | 7 | 9 | 11 | 13 | 16 | 18 | 20 | 22 |
| 85,000 | | | | | | | | | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 19 | 21 |
| 82,500 | | | | | | | | | | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 15 | 17 | 19 |
| 80,000 | | | | | | | | | | | 0 | 2 | 4 | 6 | 8 | 11 | 13 | 15 | 18 |
| | Percent Loss from Stand Reduction | | | | | | | | | | | | | | | | | | |

## Indeterminate Soybean Stand Reduction Loss R2 – R3.5 Stages (Continued)

| Original Stand Plants/Acre | Remaining Plants Per Acre ( 000's omitted) | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 57.5 | 55 | 52.5 | 50 | 47.5 | 45 | 42.5 | 40 | 37.5 | 35 | 32.5 | 30 | 27.5 | 25 | 22.5 | 20 | 17.5 | 15 | 12.5 | 10 | 7.5 | 5 | 2.5 | 0 |
| **180,000** | 47 | 49 | 50 | 52 | 54 | 56 | 58 | 60 | 62 | 64 | 66 | 68 | 71 | 73 | 75 | 78 | 80 | 83 | 86 | 88 | 91 | 94 | 97 | 100 |
| **175,000** | 46 | 48 | 50 | 52 | 54 | 55 | 57 | 59 | 62 | 64 | 66 | 68 | 70 | 73 | 75 | 78 | 80 | 83 | 85 | 88 | 91 | 94 | 97 | 100 |
| **170,000** | 46 | 48 | 49 | 51 | 53 | 55 | 57 | 59 | 61 | 63 | 65 | 68 | 70 | 72 | 75 | 77 | 80 | 83 | 85 | 88 | 91 | 94 | 97 | 100 |
| **165,000** | 45 | 47 | 49 | 51 | 53 | 55 | 57 | 59 | 61 | 63 | 65 | 67 | 70 | 72 | 75 | 77 | 80 | 82 | 85 | 88 | 91 | 94 | 97 | 100 |
| **160,000** | 45 | 46 | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 | 65 | 67 | 69 | 72 | 74 | 77 | 80 | 82 | 85 | 88 | 91 | 94 | 97 | 100 |
| **155,000** | 44 | 46 | 48 | 49 | 51 | 53 | 55 | 58 | 60 | 62 | 64 | 67 | 69 | 71 | 74 | 77 | 79 | 82 | 85 | 88 | 91 | 94 | 97 | 100 |
| **150,000** | 43 | 45 | 47 | 49 | 51 | 53 | 55 | 57 | 59 | 61 | 64 | 66 | 69 | 71 | 74 | 76 | 79 | 82 | 85 | 88 | 91 | 94 | 97 | 100 |
| **145,000** | 42 | 44 | 46 | 48 | 50 | 52 | 54 | 56 | 59 | 61 | 63 | 66 | 68 | 71 | 73 | 76 | 79 | 81 | 84 | 87 | 90 | 94 | 97 | 100 |
| **140,000** | 41 | 43 | 45 | 47 | 49 | 51 | 53 | 56 | 58 | 60 | 63 | 65 | 68 | 70 | 73 | 76 | 78 | 81 | 84 | 87 | 90 | 93 | 97 | 100 |
| **135,000** | 40 | 42 | 44 | 46 | 48 | 51 | 53 | 55 | 57 | 60 | 62 | 65 | 67 | 70 | 72 | 75 | 78 | 81 | 84 | 87 | 90 | 93 | 97 | 100 |
| **130,000** | 39 | 41 | 43 | 45 | 47 | 50 | 52 | 54 | 56 | 59 | 61 | 64 | 66 | 69 | 72 | 75 | 78 | 81 | 84 | 87 | 90 | 93 | 97 | 100 |
| **125,000** | 38 | 40 | 42 | 44 | 46 | 49 | 51 | 53 | 56 | 58 | 61 | 63 | 66 | 69 | 71 | 74 | 77 | 80 | 83 | 86 | 90 | 93 | 96 | 100 |
| **122,500** | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 53 | 55 | 58 | 60 | 63 | 66 | 68 | 71 | 74 | 77 | 80 | 83 | 86 | 90 | 93 | 96 | 100 |
| **120,000** | 37 | 39 | 41 | 43 | 45 | 48 | 50 | 52 | 55 | 57 | 60 | 62 | 65 | 68 | 71 | 74 | 77 | 80 | 83 | 86 | 89 | 93 | 96 | 100 |
| **117,500** | 36 | 38 | 40 | 43 | 45 | 47 | 49 | 52 | 54 | 57 | 59 | 62 | 65 | 68 | 70 | 73 | 76 | 80 | 83 | 86 | 89 | 93 | 96 | 100 |
| **115,000** | 36 | 38 | 40 | 42 | 44 | 46 | 49 | 51 | 54 | 56 | 59 | 62 | 64 | 67 | 70 | 73 | 76 | 79 | 83 | 86 | 89 | 93 | 96 | 100 |
| **112,500** | 35 | 37 | 39 | 41 | 44 | 46 | 48 | 51 | 53 | 56 | 58 | 61 | 64 | 67 | 70 | 73 | 76 | 79 | 82 | 86 | 89 | 93 | 96 | 100 |
| **110,000** | 34 | 36 | 38 | 41 | 43 | 45 | 48 | 50 | 53 | 55 | 58 | 61 | 64 | 66 | 69 | 72 | 76 | 79 | 82 | 86 | 89 | 93 | 96 | 100 |
| **107,500** | 33 | 35 | 38 | 40 | 42 | 45 | 47 | 49 | 52 | 55 | 57 | 60 | 63 | 66 | 69 | 72 | 75 | 79 | 82 | 85 | 89 | 92 | 96 | 100 |
| **105,000** | 32 | 34 | 37 | 39 | 41 | 44 | 46 | 49 | 51 | 54 | 57 | 60 | 63 | 66 | 69 | 72 | 75 | 78 | 82 | 85 | 89 | 92 | 96 | 100 |
| **102,500** | 31 | 34 | 36 | 38 | 41 | 43 | 46 | 48 | 51 | 54 | 56 | 59 | 62 | 65 | 68 | 71 | 75 | 78 | 81 | 85 | 89 | 92 | 96 | 100 |
| **100,000** | 30 | 33 | 35 | 37 | 40 | 42 | 45 | 47 | 50 | 53 | 56 | 59 | 62 | 65 | 68 | 71 | 74 | 78 | 81 | 85 | 88 | 92 | 96 | 100 |
| **97,500** | 29 | 32 | 34 | 36 | 39 | 41 | 44 | 47 | 49 | 52 | 55 | 58 | 61 | 64 | 67 | 71 | 74 | 77 | 81 | 85 | 88 | 92 | 96 | 100 |
| **95,000** | 28 | 31 | 33 | 35 | 38 | 40 | 43 | 46 | 49 | 51 | 54 | 57 | 60 | 64 | 67 | 70 | 74 | 77 | 81 | 84 | 88 | 92 | 96 | 100 |
| **92,500** | 27 | 30 | 32 | 34 | 37 | 40 | 42 | 45 | 48 | 51 | 54 | 57 | 60 | 63 | 66 | 70 | 73 | 77 | 80 | 84 | 88 | 92 | 96 | 100 |
| **90,000** | 26 | 28 | 31 | 33 | 36 | 39 | 41 | 44 | 47 | 50 | 53 | 56 | 59 | 62 | 66 | 69 | 73 | 76 | 80 | 84 | 88 | 92 | 96 | 100 |
| **87,500** | 25 | 27 | 30 | 32 | 35 | 37 | 40 | 43 | 46 | 49 | 52 | 55 | 58 | 62 | 65 | 69 | 72 | 76 | 80 | 83 | 87 | 92 | 96 | 100 |
| **85,000** | 23 | 26 | 28 | 31 | 34 | 36 | 39 | 42 | 45 | 48 | 51 | 54 | 58 | 61 | 64 | 68 | 72 | 75 | 79 | 83 | 87 | 91 | 96 | 100 |
| **82,500** | 22 | 24 | 27 | 30 | 32 | 35 | 38 | 41 | 44 | 47 | 50 | 54 | 57 | 60 | 64 | 67 | 71 | 75 | 79 | 83 | 87 | 91 | 96 | 100 |
| **80,000** | 20 | 23 | 26 | 28 | 31 | 34 | 37 | 40 | 43 | 46 | 49 | 53 | 56 | 60 | 63 | 67 | 71 | 74 | 78 | 83 | 87 | 91 | 95 | 100 |
| | **Percent Loss from Stand Reduction** | | | | | | | | | | | | | | | | | | | | | | | |

## Indeterminate Soybean Stand Reduction Loss R2 – R3.5 Stages (Continued)

| Original Stand Plants/Acre | Remaining Plants Per Acre ( 000's omitted) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 77.5 | 75 | 72.5 | 70 | 67.5 | 65 | 62.5 | 60 | 57.5 | 55 | 52.5 | 50 | 47.5 | 45 | 42.5 | 40 | 37.5 | 35 | 32.5 | 30 | 27.5 | 25 | 22.5 | 20 | 17.5 | 15 | 12.5 | 10 | 7.5 | 5 | 2.5 | 0 |
| 77,500 | 0 | 2 | 4 | 7 | 9 | 11 | 14 | 16 | 19 | 21 | 24 | 27 | 30 | 32 | 35 | 39 | 42 | 45 | 48 | 52 | 55 | 59 | 62 | 66 | 70 | 74 | 78 | 82 | 86 | 91 | 95 | 100 |
| 75,000 | | 0 | 2 | 5 | 7 | 9 | 12 | 14 | 17 | 20 | 22 | 25 | 28 | 31 | 34 | 37 | 40 | 44 | 47 | 51 | 54 | 58 | 62 | 65 | 69 | 73 | 78 | 82 | 86 | 91 | 95 | 100 |
| 72,500 | | | 0 | 2 | 5 | 7 | 10 | 12 | 15 | 18 | 21 | 23 | 26 | 29 | 33 | 36 | 39 | 42 | 46 | 49 | 53 | 57 | 61 | 65 | 69 | 73 | 77 | 81 | 86 | 90 | 95 | 100 |
| 70,000 | | | | 0 | 2 | 5 | 8 | 10 | 13 | 16 | 19 | 22 | 25 | 28 | 31 | 34 | 38 | 41 | 45 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 81 | 86 | 90 | 95 | 100 |
| 67,500 | | | | | 0 | 3 | 5 | 8 | 11 | 14 | 17 | 20 | 23 | 26 | 29 | 33 | 36 | 40 | 43 | 47 | 51 | 55 | 59 | 63 | 67 | 71 | 76 | 80 | 85 | 90 | 95 | 100 |
| 65,000 | | | | | | 0 | 3 | 6 | 8 | 11 | 14 | 17 | 21 | 24 | 27 | 31 | 34 | 38 | 42 | 45 | 49 | 53 | 58 | 62 | 66 | 71 | 75 | 80 | 85 | 90 | 95 | 100 |
| 62,500 | | | | | | | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 22 | 25 | 29 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 61 | 65 | 70 | 75 | 79 | 84 | 89 | 95 | 100 |
| 60,000 | | | | | | | | 0 | 3 | 6 | 9 | 13 | 16 | 20 | 23 | 27 | 30 | 34 | 38 | 42 | 46 | 51 | 55 | 60 | 64 | 69 | 74 | 79 | 84 | 89 | 94 | 100 |
| 57,500 | | | | | | | | | 0 | 3 | 7 | 10 | 13 | 17 | 21 | 24 | 28 | 32 | 36 | 40 | 45 | 49 | 54 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 94 | 100 |
| 55,000 | | | | | | | | | | 0 | 3 | 7 | 11 | 14 | 18 | 22 | 26 | 30 | 34 | 38 | 43 | 47 | 52 | 57 | 62 | 67 | 72 | 77 | 83 | 88 | 94 | 100 |
| 52,500 | | | | | | | | | | | 0 | 4 | 7 | 11 | 15 | 19 | 23 | 28 | 32 | 36 | 41 | 46 | 50 | 55 | 60 | 66 | 71 | 77 | 82 | 88 | 94 | 100 |
| 50,000 | | | | | | | | | | | | 0 | 4 | 8 | 12 | 16 | 20 | 25 | 29 | 34 | 39 | 44 | 49 | 54 | 59 | 64 | 70 | 76 | 82 | 88 | 94 | 100 |
| 47,500 | | | | | | | | | | | | | 0 | 4 | 8 | 13 | 17 | 22 | 26 | 31 | 36 | 41 | 47 | 52 | 57 | 63 | 69 | 75 | 81 | 87 | 93 | 100 |
| 45,000 | | | | | | | | | | | | | | 0 | 4 | 9 | 14 | 18 | 23 | 28 | 33 | 39 | 44 | 50 | 55 | 61 | 67 | 74 | 80 | 86 | 93 | 100 |
| 42,500 | | | | | | | | | | | | | | | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 36 | 42 | 47 | 53 | 60 | 66 | 72 | 79 | 86 | 93 | 100 |
| 40,000 | | | | | | | | | | | | | | | | 0 | 5 | 10 | 16 | 21 | 27 | 33 | 39 | 45 | 51 | 58 | 64 | 71 | 78 | 85 | 92 | 100 |
| 37,500 | | | | | | | | | | | | | | | | | 0 | 6 | 11 | 17 | 23 | 29 | 35 | 42 | 48 | 55 | 62 | 69 | 77 | 84 | 92 | 100 |
| 35,000 | | | | | | | | | | | | | | | | | | 0 | 6 | 12 | 18 | 25 | 32 | 38 | 45 | 53 | 60 | 68 | 75 | 83 | 92 | 100 |
| 32500 | | | | | | | | | | | | | | | | | | | 0 | 7 | 13 | 20 | 27 | 35 | 42 | 50 | 58 | 66 | 74 | 82 | 91 | 100 |
| 30,000 | | | | | | | | | | | | | | | | | | | | 0 | 7 | 15 | 22 | 30 | 38 | 46 | 55 | 63 | 72 | 81 | 90 | 100 |
| 27,500 | | | | | | | | | | | | | | | | | | | | | 0 | 8 | 16 | 25 | 33 | 42 | 51 | 60 | 70 | 80 | 90 | 100 |
| 25,000 | | | | | | | | | | | | | | | | | | | | | | 0 | 9 | 18 | 27 | 37 | 47 | 57 | 67 | 78 | 89 | 100 |
| 22,500 | | | | | | | | | | | | | | | | | | | | | | | 0 | 10 | 20 | 31 | 42 | 53 | 64 | 76 | 88 | 100 |
| 20,000 | | | | | | | | | | | | | | | | | | | | | | | | 0 | 11 | 23 | 35 | 47 | 60 | 73 | 86 | 100 |
| 17,500 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 13 | 27 | 41 | 55 | 70 | 85 | 100 |
| 15,000 | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 16 | 32 | 48 | 65 | 82 | 100 |
| | **Percent Loss from Stand Reduction** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## Determinate Soybean Stand Reduction Loss

| Original Stand Plants/Acre | Remaining Plants Per Acre ( 000's omitted) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 180 | 175 | 170 | 165 | 160 | 155 | 150 | 145 | 140 | 135 | 130 | 125 | 122.5 | 120 | 117.5 | 115 | 112.5 | 110 | 107.5 |
| 180,000 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| 175,000 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| 170,000 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| 165,000 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| 160,000 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| 155,000 | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| 150,000 | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| 145,000 | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| 140,000 | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| 135,000 | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| 130,000 | | | | | | | | | | | 0.0 | 0.0 | 0.0 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| 125,000 | | | | | | | | | | | | 0.0 | 0.0 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| 122,500 | | | | | | | | | | | | | 0.0 | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 |
| 120,000 | | | | | | | | | | | | | | 0.0 | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 |
| 117,500 | | | | | | | | | | | | | | | 0.0 | 0.5 | 1.0 | 1.5 | 2.0 |
| 115,000 | | | | | | | | | | | | | | | | 0.0 | 0.5 | 1.0 | 1.5 |
| 112,500 | | | | | | | | | | | | | | | | | 0.0 | 0.5 | 1.0 |
| 110,000 | | | | | | | | | | | | | | | | | | 0.0 | 0.5 |
| 107,500 | | | | | | | | | | | | | | | | | | | 0.0 |

| Original Stand Plants/Acre | Remaining Plants Per Acre ( 000's omitted) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 105 | 102.5 | 100 | 97.5 | 95 | 92.5 | 90 | 87.5 | 85 | 82.5 | 80 | 77.5 | 75 | 72.5 | 70 | 67.5 | 65 | 62.5 | 60 |
| 180,000 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 |
| 175,000 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 |
| 170,000 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 |
| 165,000 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 |
| 160,000 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 |
| 155,000 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 |
| 150,000 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 |
| 145,000 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 |
| 140,000 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 |
| 135,000 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 |
| 130,000 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 |
| 125,000 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 |
| 122,500 | 3.5 | 4.5 | 5.5 | 6.5 | 7.5 | 8.5 | 9.5 | 10.5 | 11.5 | 12.5 | 13.5 | 14.5 | 15.5 | 16.5 | 17.5 | 19.0 | 20.5 | 22.0 | 23.5 |
| 120,000 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.5 | 20.0 | 21.5 | 23.0 |
| 117,500 | 2.5 | 3.5 | 4.5 | 5.5 | 6.5 | 7.5 | 8.5 | 9.5 | 10.5 | 11.5 | 12.5 | 13.5 | 14.5 | 15.5 | 16.5 | 18.0 | 19.5 | 21.0 | 22.5 |
| 115,000 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.5 | 19.0 | 20.5 | 22.0 |
| 112,500 | 1.5 | 2.5 | 3.5 | 4.5 | 5.5 | 6.5 | 7.5 | 8.5 | 9.5 | 10.5 | 11.5 | 12.5 | 13.5 | 14.5 | 15.5 | 17.0 | 18.5 | 20.0 | 21.5 |
| 110,000 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.5 | 18.0 | 19.5 | 21.0 |
| 107,500 | 0.5 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.5 | 17.0 | 18.5 | 20.0 |
| 105,000 | 0.0 | 0.5 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.5 | 16.0 | 17.5 | 19.0 |
| 102,500 | | 0.0 | 0.5 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.5 | 15.0 | 16.5 | 18.0 |
| 100,000 | | | 0.0 | 0.5 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.5 | 14.0 | 15.5 | 17.0 |
| 97,500 | | | | 0.0 | 0.5 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.5 | 13.0 | 14.5 | 16.0 |
| 95,000 | | | | | 0.0 | 0.5 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.5 | 12.0 | 13.5 | 15.0 |
| 92,500 | | | | | | 0.0 | 0.5 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.5 | 11.0 | 12.5 | 14.0 |
| 90,000 | | | | | | | 0.0 | 0.5 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.5 | 10.0 | 11.5 | 13.0 |
| 87,500 | | | | | | | | 0.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.5 | 11.0 | 12.5 |
| 85,000 | | | | | | | | | 0.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.5 | 9.0 | 10.5 | 12.0 |
| 82,500 | | | | | | | | | | 0.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.5 | 8.0 | 9.5 | 11.0 |
| 80,000 | | | | | | | | | | | 0.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.5 | 7.0 | 9.0 | 10.0 |
| | Percent Loss from Stand Reduction | | | | | | | | | | | | | | | | | | |

## Determinate Soybean Stand Reduction Loss (Continued)

| Original Stand Plants/Acre | Remaining Plants Per Acre ( 000's omitted) | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 57.5 | 55 | 52.5 | 50 | 47.5 | 45 | 42.5 | 40 | 37.5 | 35 | 32.5 | 30 | 27.5 | 25 | 22.5 | 20 | 17.5 | 15 | 12.5 | 10 | 7.5 | 5 | 2.5 | 0 |
| **180,000** | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.5 | 49.0 | 51.5 | 54.0 | 56.5 | 59.0 | 62.0 | 65.0 | 73.8 | 82.5 | 91.3 | 100.0 |
| **175,000** | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.5 | 49.0 | 51.5 | 54.0 | 56.5 | 59.0 | 62.0 | 65.0 | 73.8 | 82.5 | 91.3 | 100.0 |
| **170,000** | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.5 | 49.0 | 51.5 | 54.0 | 56.5 | 59.0 | 62.0 | 65.0 | 73.8 | 82.5 | 91.3 | 100.0 |
| **165,000** | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.5 | 49.0 | 51.5 | 54.0 | 56.5 | 59.0 | 62.0 | 65.0 | 73.8 | 82.5 | 91.3 | 100.0 |
| **160,000** | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.5 | 49.0 | 51.5 | 54.0 | 56.5 | 59.0 | 62.0 | 65.0 | 73.8 | 82.5 | 91.3 | 100.0 |
| **155,000** | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.5 | 49.0 | 51.5 | 54.0 | 56.5 | 59.0 | 62.0 | 65.0 | 73.8 | 82.5 | 91.3 | 100.0 |
| **150,000** | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.5 | 49.0 | 51.5 | 54.0 | 56.5 | 59.0 | 62.0 | 65.0 | 73.8 | 82.5 | 91.3 | 100.0 |
| **145,000** | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.5 | 49.0 | 51.5 | 54.0 | 56.5 | 59.0 | 62.0 | 65.0 | 73.8 | 82.5 | 91.3 | 100.0 |
| **140,000** | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.5 | 49.0 | 51.5 | 54.0 | 56.5 | 59.0 | 62.0 | 65.0 | 73.8 | 82.5 | 91.3 | 100.0 |
| **135,000** | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.5 | 49.0 | 51.5 | 54.0 | 56.5 | 59.0 | 62.0 | 65.0 | 73.8 | 82.5 | 91.3 | 100.0 |
| **130,000** | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.5 | 49.0 | 51.5 | 54.0 | 56.5 | 59.0 | 62.0 | 65.0 | 73.8 | 82.5 | 91.3 | 100.0 |
| **125,000** | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.0 | 38.0 | 40.0 | 42.0 | 44.0 | 46.5 | 49.0 | 51.5 | 54.0 | 56.5 | 59.0 | 62.0 | 65.0 | 73.8 | 82.5 | 91.3 | 100.0 |
| **122,500** | 25.0 | 26.5 | 28.0 | 29.5 | 31.0 | 32.5 | 34.0 | 35.5 | 37.5 | 39.5 | 41.5 | 43.5 | 46.0 | 48.5 | 51.0 | 53.5 | 56.0 | 58.5 | 61.5 | 64.5 | 73.4 | 82.3 | 91.1 | 100.0 |
| **120,000** | 24.5 | 26.0 | 27.5 | 29.0 | 30.5 | 32.0 | 33.5 | 35.0 | 37.0 | 39.0 | 41.0 | 43.0 | 45.5 | 48.0 | 50.5 | 53.0 | 55.5 | 58.0 | 61.0 | 63.5 | 72.6 | 81.8 | 90.9 | 100.0 |
| **117,500** | 24.0 | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.5 | 38.5 | 40.5 | 42.5 | 45.0 | 47.5 | 50.0 | 52.5 | 55.0 | 57.5 | 60.5 | 63.5 | 72.6 | 81.8 | 90.9 | 100.0 |
| **115,000** | 23.5 | 25.0 | 26.5 | 28.0 | 29.5 | 31.0 | 32.5 | 34.0 | 36.0 | 38.0 | 40.0 | 42.0 | 44.5 | 47.0 | 49.5 | 52.0 | 54.5 | 57.0 | 60.0 | 63.0 | 72.3 | 81.5 | 90.8 | 100.0 |
| **112,500** | 23.0 | 24.5 | 26.0 | 27.5 | 29.0 | 30.5 | 32.0 | 33.5 | 35.5 | 37.5 | 39.5 | 41.5 | 44.0 | 46.5 | 49.0 | 51.5 | 54.0 | 56.5 | 59.5 | 62.5 | 71.9 | 81.3 | 90.6 | 100.0 |
| **110,000** | 22.5 | 24.0 | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 35.0 | 37.0 | 39.0 | 41.0 | 43.5 | 46.0 | 48.5 | 51.0 | 53.5 | 56.0 | 59.0 | 62.0 | 71.5 | 81.0 | 90.5 | 100.0 |
| **107,500** | 21.5 | 23.0 | 24.5 | 26.0 | 28.0 | 29.0 | 30.5 | 32.0 | 34.0 | 36.0 | 38.0 | 40.0 | 42.5 | 45.0 | 47.5 | 50.0 | 52.5 | 55.0 | 58.5 | 61.5 | 71.1 | 80.8 | 90.4 | 100.0 |
| **105,000** | 20.5 | 22.0 | 23.5 | 25.0 | 26.5 | 28.0 | 29.5 | 31.0 | 33.0 | 35.0 | 37.0 | 39.0 | 41.5 | 44.0 | 46.5 | 49.0 | 51.5 | 54.0 | 57.5 | 61.0 | 70.8 | 80.5 | 90.3 | 100.0 |
| **102,500** | 19.5 | 21.0 | 22.5 | 24.0 | 25.5 | 27.0 | 28.5 | 30.0 | 32.0 | 34.0 | 36.0 | 38.0 | 40.5 | 43.0 | 45.5 | 48.0 | 50.5 | 53.0 | 56.5 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 |
| **100,000** | 18.5 | 20.0 | 21.5 | 23.0 | 24.5 | 26.0 | 27.5 | 29.0 | 31.0 | 33.0 | 35.0 | 37.0 | 39.5 | 42.0 | 44.5 | 47.0 | 49.5 | 52.0 | 55.5 | 59.0 | 69.3 | 79.5 | 89.8 | 100.0 |
| **97,500** | 17.5 | 19.0 | 20.5 | 22.0 | 23.5 | 25.0 | 26.5 | 28.0 | 30.0 | 32.0 | 34.0 | 36.0 | 38.5 | 41.0 | 43.5 | 46.0 | 48.5 | 51.0 | 54.5 | 58.0 | 68.5 | 79.0 | 89.5 | 100.0 |
| **95,000** | 16.5 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 | 25.5 | 27.0 | 29.0 | 31.0 | 33.0 | 35.0 | 37.5 | 40.0 | 42.5 | 45.0 | 47.5 | 50.0 | 53.5 | 57.0 | 67.8 | 78.5 | 89.3 | 100.0 |
| **92,500** | 15.5 | 17.0 | 18.5 | 20.0 | 21.5 | 23.0 | 24.5 | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 | 36.5 | 39.0 | 41.5 | 44.0 | 46.5 | 49.0 | 52.5 | 56.0 | 67.0 | 78.0 | 89.0 | 100.0 |
| **90,000** | 14.5 | 16.0 | 17.5 | 19.0 | 20.5 | 22.0 | 23.5 | 25.0 | 27.0 | 29.0 | 31.0 | 33.0 | 35.5 | 38.0 | 40.5 | 43.0 | 45.5 | 48.0 | 51.5 | 55.0 | 66.3 | 77.5 | 88.8 | 100.0 |
| **87,500** | 14.0 | 15.5 | 17.0 | 18.5 | 20.0 | 21.5 | 23.0 | 24.5 | 26.5 | 28.5 | 30.5 | 32.5 | 35.0 | 37.5 | 40.0 | 42.5 | 45.0 | 47.5 | 51.0 | 54.5 | 65.9 | 77.3 | 88.6 | 100.0 |
| **85,000** | 13.5 | 15.0 | 16.5 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 | 26.0 | 28.0 | 30.0 | 32.0 | 34.5 | 37.0 | 39.5 | 42.0 | 44.5 | 47.0 | 50.5 | 54.0 | 65.5 | 77.0 | 88.5 | 100.0 |
| **82,500** | 12.0 | 14.0 | 15.5 | 17.0 | 18.5 | 20.0 | 21.5 | 23.0 | 25.0 | 27.0 | 29.0 | 31.0 | 33.5 | 36.0 | 38.5 | 41.0 | 43.5 | 46.0 | 49.5 | 53.0 | 64.8 | 76.5 | 88.3 | 100.0 |
| **80,000** | 11.5 | 13.0 | 14.5 | 16.0 | 17.5 | 19.0 | 20.5 | 22.0 | 24.0 | 26.0 | 28.0 | 30.0 | 32.5 | 35.0 | 37.5 | 40.0 | 42.5 | 45.0 | 48.5 | 52.0 | 64.0 | 76.0 | 88.0 | 100.0 |
| | **Percent Loss from Stand Reduction** | | | | | | | | | | | | | | | | | | | | | | | |

## Determinate Soybean Stand Reduction Loss (Continued)

| Original Stand Plants/Acre | Remaining Plants Per Acre ( 000's omitted) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **77.5** | **75** | **72.5** | **70** | **67.5** | **65** | **62.5** | **60** | **57.5** | **55** | **52.5** | **50** | **47.5** | **45** | **42.5** | **40** | **37.5** | **35** | **32.5** | **30** | **27.5** | **25** | **22.5** | **20** | **17.5** | **15** | **12.5** | **10** | **7.5** | **5** | **2.5** | **0** |
| **77,500** | 0.0 | 1.0 | 2.0 | 3.0 | 4.5 | 6.0 | 7.5 | 9.0 | 10.5 | 12.0 | 13.5 | 15.0 | 16.5 | 18.0 | 19.5 | 21.0 | 23.0 | 25.0 | 27.0 | 29.0 | 31.5 | 34.0 | 36.5 | 39.0 | 41.5 | 44.0 | 47.5 | 51.0 | 63.3 | 75.5 | 87.8 | 100.0 |
| **75,000** | | 0.0 | 1.0 | 2.0 | 3.5 | 5.0 | 6.5 | 8.0 | 9.5 | 11.0 | 12.5 | 14.0 | 15.5 | 17.0 | 18.5 | 20.0 | 22.0 | 24.0 | 26.0 | 28.0 | 30.5 | 33.0 | 35.5 | 38.0 | 40.5 | 43.0 | 46.5 | 50.0 | 62.5 | 75.0 | 87.5 | 100.0 |
| **72,500** | | | 0.0 | 1.0 | 2.5 | 4.0 | 5.5 | 7.0 | 8.5 | 10.0 | 11.5 | 13.0 | 14.5 | 16.0 | 17.5 | 19.0 | 20.8 | 22.5 | 24.5 | 26.5 | 29.0 | 31.5 | 34.0 | 36.5 | 39.3 | 42.0 | 45.5 | 49.0 | 61.8 | 74.5 | 87.3 | 100.0 |
| **70,000** | | | | 0.0 | 1.5 | 3.0 | 4.5 | 6.0 | 7.5 | 9.0 | 10.5 | 12.0 | 13.5 | 15.0 | 16.5 | 18.0 | 19.5 | 21.0 | 23.0 | 25.0 | 27.5 | 30.0 | 32.5 | 35.0 | 38.0 | 41.0 | 44.5 | 48.0 | 61.0 | 74.0 | 87.0 | 100.0 |
| **67,500** | | | | | 0.0 | 1.5 | 3.0 | 4.5 | 6.0 | 7.5 | 9.0 | 10.5 | 12.0 | 13.5 | 15.3 | 17.0 | 18.5 | 20.0 | 22.0 | 24.0 | 26.3 | 28.5 | 31.0 | 33.5 | 36.8 | 40.0 | 43.5 | 47.0 | 60.3 | 73.5 | 86.8 | 100.0 |
| **65,000** | | | | | | 0.0 | 1.5 | 3.0 | 4.5 | 6.0 | 7.5 | 9.0 | 10.5 | 12.0 | 14.0 | 16.0 | 17.5 | 19.0 | 21.0 | 23.0 | 25.0 | 27.0 | 29.5 | 32.0 | 35.5 | 39.0 | 42.5 | 46.0 | 59.5 | 73.0 | 86.5 | 100.0 |
| **62,500** | | | | | | | 0.0 | 1.5 | 3.0 | 4.5 | 6.3 | 8.0 | 9.5 | 11.0 | 12.8 | 14.5 | 16.0 | 17.5 | 19.5 | 21.5 | 23.8 | 26.0 | 28.5 | 31.0 | 34.5 | 38.0 | 41.8 | 45.5 | 59.1 | 72.8 | 86.4 | 100.0 |
| **60,000** | | | | | | | | 0.0 | 1.5 | 3.0 | 5.0 | 7.0 | 8.5 | 10.0 | 11.5 | 13.0 | 14.5 | 16.0 | 18.0 | 20.0 | 22.5 | 25.0 | 27.5 | 30.0 | 33.5 | 37.0 | 41.0 | 45.0 | 58.8 | 72.5 | 86.3 | 100.0 |
| **57,500** | | | | | | | | | 0.0 | 1.5 | 3.3 | 5.0 | 6.5 | 8.0 | 9.8 | 11.5 | 13.0 | 14.5 | 16.5 | 18.5 | 21.0 | 23.5 | 26.0 | 28.5 | 32.0 | 35.5 | 39.8 | 44.0 | 58.0 | 72.0 | 86.0 | 100.0 |
| **55,000** | | | | | | | | | | 0.0 | 1.5 | 3.0 | 4.5 | 6.0 | 8.0 | 10.0 | 11.5 | 13.0 | 15.0 | 17.0 | 19.5 | 22.0 | 24.5 | 27.0 | 30.5 | 34.0 | 38.5 | 43.0 | 57.3 | 71.5 | 85.8 | 100.0 |
| **52,500** | | | | | | | | | | | 0.0 | 1.5 | 3.3 | 5.0 | 7.0 | 9.0 | 10.8 | 12.5 | 14.5 | 16.5 | 18.8 | 21.0 | 23.5 | 26.0 | 29.5 | 33.0 | 37.5 | 42.0 | 56.5 | 71.0 | 85.5 | 100.0 |
| **50,000** | | | | | | | | | | | | 0.0 | 2.0 | 4.0 | 6.0 | 8.0 | 10.0 | 12.0 | 14.0 | 16.0 | 18.0 | 20.0 | 22.5 | 25.0 | 28.5 | 32.0 | 36.5 | 41.0 | 55.8 | 70.5 | 85.3 | 100.0 |
| **47,500** | | | | | | | | | | | | | 0.0 | 2.0 | 4.0 | 6.0 | 8.0 | 10.0 | 12.3 | 14.5 | 16.8 | 19.0 | 21.8 | 24.5 | 28.0 | 31.5 | 36.0 | 40.5 | 55.4 | 70.3 | 85.1 | 100.0 |
| **45,000** | | | | | | | | | | | | | | 0.0 | 2.0 | 4.0 | 6.0 | 8.0 | 10.5 | 13.0 | 15.5 | 18.0 | 21.0 | 24.0 | 27.5 | 31.0 | 35.5 | 40.0 | 55.0 | 70.0 | 85.0 | 100.0 |
| **42,500** | | | | | | | | | | | | | | | 0.0 | 2.0 | 4.3 | 6.5 | 9.3 | 12.0 | 14.8 | 17.5 | 20.5 | 23.5 | 27.0 | 30.5 | 35.0 | 39.5 | 54.6 | 69.8 | 84.9 | 100.0 |
| **40,000** | | | | | | | | | | | | | | | | 0.0 | 2.5 | 5.0 | 8.0 | 11.0 | 14.0 | 17.0 | 20.0 | 23.0 | 26.5 | 30.0 | 34.5 | 39.0 | 54.3 | 69.5 | 84.8 | 100.0 |
| **37,500** | | | | | | | | | | | | | | | | | 0.0 | 3.5 | 6.8 | 10.0 | 13.3 | 16.5 | 19.5 | 22.5 | 26.0 | 29.5 | 34.0 | 38.5 | 53.9 | 69.3 | 84.6 | 100.0 |
| **35,000** | | | | | | | | | | | | | | | | | | 0.0 | 5.5 | 9.0 | 12.5 | 16.0 | 19.0 | 22.0 | 25.5 | 29.0 | 33.5 | 38.0 | 53.5 | 69.0 | 84.5 | 100.0 |
| **32500** | | | | | | | | | | | | | | | | | | | 0.0 | 8.0 | 11.7 | 15.5 | 18.5 | 21.5 | 25.0 | 28.5 | 33.0 | 37.5 | 53.1 | 68.8 | 84.4 | 100.0 |
| **30,000** | | | | | | | | | | | | | | | | | | | | 0.0 | 11.0 | 15.0 | 18.0 | 21.0 | 24.5 | 28.0 | 32.5 | 37.0 | 52.8 | 68.5 | 84.3 | 100.0 |
| **27,500** | | | | | | | | | | | | | | | | | | | | | 0.0 | 14.5 | 17.5 | 20.5 | 24.0 | 27.5 | 32.0 | 36.5 | 52.4 | 68.3 | 84.1 | 100.0 |
| **25,000** | | | | | | | | | | | | | | | | | | | | | | 0.0 | 17.0 | 20.0 | 23.5 | 27.0 | 31.5 | 36.0 | 52.0 | 68.0 | 84.0 | 100.0 |
| **22,500** | | | | | | | | | | | | | | | | | | | | | | | 0.0 | 19.5 | 23.0 | 26.5 | 31.0 | 35.5 | 51.6 | 67.8 | 83.9 | 100.0 |
| **20,000** | | | | | | | | | | | | | | | | | | | | | | | | 0.0 | 22.5 | 26.0 | 30.5 | 35.0 | 51.3 | 67.5 | 83.8 | 100.0 |
| **17,500** | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 | 25.5 | 30.0 | 34.5 | 50.9 | 67.3 | 83.6 | 100.0 |
| **15,000** | | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 | 29.5 | 34.0 | 50.5 | 67.0 | 83.5 | 100.0 |
| | **Percent Loss from Stand Reduction** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## Cutoff/Breakover

| Stage of Growth | Percentage of Nodes Cut Off | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** | **22** | **23** | **24** | **25** |
| V1-V2 | 0.2 | 0.4 | 0.6 | 0.8 | 1.0 | 1.2 | 1.4 | 1.6 | 1.8 | 2.0 | 2.2 | 2.4 | 2.6 | 2.8 | 2.9 | 3.1 | 3.3 | 3.4 | 3.6 | 3.7 | 3.9 | 4.0 | 4.1 | 4.3 | 4.4 |
| V3 | 0.4 | 0.8 | 1.3 | 1.7 | 2.1 | 2.5 | 2.9 | 3.3 | 3.7 | 4.1 | 4.4 | 4.8 | 5.2 | 5.5 | 5.9 | 6.2 | 6.5 | 6.8 | 7.1 | 7.4 | 7.7 | 8.0 | 8.3 | 8.5 | 8.8 |
| V4 | 0.4 | 0.8 | 1.3 | 1.7 | 2.1 | 2.5 | 2.9 | 3.3 | 3.7 | 4.1 | 4.4 | 4.8 | 5.2 | 5.5 | 5.9 | 6.2 | 6.5 | 6.8 | 7.1 | 7.4 | 7.7 | 8.0 | 8.3 | 8.5 | 8.8 |
| V5 | 0.4 | 0.9 | 1.3 | 1.7 | 2.2 | 2.6 | 3.0 | 3.4 | 3.9 | 4.3 | 4.7 | 5.1 | 5.5 | 5.9 | 6.3 | 6.6 | 7.0 | 7.4 | 7.7 | 8.1 | 8.4 | 8.8 | 9.1 | 9.4 | 9.7 |
| V6-R1 | 0.4 | 0.9 | 1.3 | 1.8 | 2.2 | 2.7 | 3.1 | 3.6 | 4.0 | 4.5 | 4.9 | 5.4 | 5.8 | 6.2 | 6.7 | 7.1 | 7.5 | 7.9 | 8.3 | 8.7 | 9.1 | 9.5 | 9.9 | 10.3 | 10.7 |
| R2-R2.5 | 0.5 | 0.9 | 1.4 | 1.8 | 2.3 | 2.7 | 3.2 | 3.6 | 4.1 | 4.5 | 5.0 | 5.4 | 5.9 | 6.3 | 6.8 | 7.3 | 7.7 | 8.2 | 8.6 | 9.1 | 9.6 | 10.0 | 10.5 | 10.9 | 11.4 |
| R3-R3.5 | 0.5 | 0.9 | 1.4 | 1.8 | 2.3 | 2.7 | 3.2 | 3.6 | 4.1 | 4.6 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.4 | 7.9 | 8.4 | 9.0 | 9.5 | 10.0 | 10.5 | 11.0 | 11.6 | 12.1 |

| Stage of Growth | Percentage of Nodes Cut Off | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **26** | **27** | **28** | **29** | **30** | **31** | **32** | **33** | **34** | **35** | **36** | **37** | **38** | **39** | **40** | **41** | **42** | **43** | **44** | **45** | **46** | **47** | **48** | **49** | **50** |
| V1-V2 | 4.5 | 4.6 | 4.7 | 4.8 | 4.9 | 5.0 | 5.1 | 5.2 | 5.3 | 5.4 | 5.5 | 5.6 | 5.7 | 5.7 | 5.8 | 5.9 | 6.0 | 6.1 | 6.2 | 6.3 | 6.4 | 6.5 | 6.6 | 6.7 | 6.8 |
| V3 | 9.0 | 9.2 | 9.4 | 9.6 | 9.8 | 10.0 | 10.2 | 10.4 | 10.6 | 10.8 | 11.0 | 11.1 | 11.3 | 11.5 | 11.7 | 11.9 | 12.0 | 12.2 | 12.4 | 12.6 | 12.8 | 13.0 | 13.2 | 13.3 | 13.5 |
| V4 | 9.0 | 9.2 | 9.4 | 9.6 | 9.8 | 10.0 | 10.2 | 10.4 | 10.6 | 10.8 | 11.0 | 11.1 | 11.3 | 11.5 | 11.7 | 11.9 | 12.0 | 12.2 | 12.4 | 12.6 | 12.8 | 13.0 | 13.2 | 13.3 | 13.5 |
| V5 | 10.0 | 10.3 | 10.6 | 10.9 | 11.1 | 11.4 | 11.6 | 11.9 | 12.1 | 12.4 | 12.6 | 12.9 | 13.1 | 13.3 | 13.5 | 13.7 | 13.9 | 14.1 | 14.4 | 14.6 | 14.8 | 15.0 | 15.2 | 15.4 | 15.6 |
| V6-R1 | 11.1 | 11.4 | 11.8 | 12.1 | 12.4 | 12.8 | 13.1 | 13.4 | 13.7 | 14.0 | 14.3 | 14.6 | 14.8 | 15.1 | 15.4 | 15.6 | 15.8 | 16.1 | 16.3 | 16.5 | 16.8 | 17.0 | 17.2 | 17.4 | 17.6 |
| R2-R2.5 | 11.9 | 12.3 | 12.8 | 13.3 | 13.7 | 14.2 | 14.7 | 15.1 | 15.6 | 16.1 | 16.5 | 17.0 | 17.5 | 18.0 | 18.4 | 18.9 | 19.4 | 19.9 | 20.4 | 20.9 | 21.4 | 21.9 | 22.4 | 23.0 | 23.5 |
| R3-R3.5 | 12.7 | 13.3 | 13.8 | 14.4 | 15.0 | 15.6 | 16.2 | 16.9 | 17.5 | 18.1 | 18.8 | 19.5 | 20.1 | 20.8 | 21.5 | 22.3 | 23.0 | 23.7 | 24.5 | 25.3 | 26.1 | 26.9 | 27.7 | 28.5 | 29.4 |

Except for losses occurring near harvest, claims shall not be finalized until at least 7 to 10 days following the hail storm.

## Cutoff/Breakover (Continued)

| Stage of Growth | Percentage of Nodes Cut Off | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **51** | **52** | **53** | **54** | **55** | **56** | **57** | **58** | **59** | **60** | **61** | **62** | **63** | **64** | **65** | **66** | **67** | **68** | **69** | **70** | **71** | **72** | **73** | **74** | **75** |
| V1-V2 | 6.9 | 7.0 | 7.1 | 7.2 | 7.3 | 7.4 | 7.5 | 7.7 | 7.8 | 7.9 | 8.1 | 8.2 | 8.4 | 8.5 | 8.7 | 8.8 | 9.0 | 9.2 | 9.3 | 9.5 | 9.7 | 9.9 | 10.1 | 10.3 | 10.6 |
| V3 | 13.8 | 14.0 | 14.2 | 14.4 | 14.6 | 14.9 | 15.1 | 15.3 | 15.6 | 15.9 | 16.1 | 16.4 | 16.7 | 17.0 | 17.3 | 17.6 | 18.0 | 18.3 | 18.7 | 19.0 | 19.4 | 19.8 | 20.2 | 20.7 | 21.1 |
| V4 | 13.8 | 14.0 | 14.2 | 14.4 | 14.6 | 14.9 | 15.1 | 15.3 | 15.6 | 15.9 | 16.1 | 16.4 | 16.7 | 17.0 | 17.3 | 17.6 | 18.0 | 18.3 | 18.7 | 19.3 | 19.9 | 20.6 | 21.3 | 22.0 | 22.9 |
| V5 | 15.8 | 16.0 | 16.3 | 16.5 | 16.7 | 17.0 | 17.2 | 17.5 | 17.8 | 18.1 | 18.4 | 18.7 | 19.0 | 19.4 | 19.8 | 20.2 | 20.6 | 21.1 | 21.6 | 22.2 | 22.9 | 23.6 | 24.4 | 25.2 | 26.1 |
| V6-R1 | 17.9 | 18.1 | 18.3 | 18.6 | 18.8 | 19.1 | 19.3 | 19.6 | 19.9 | 20.3 | 20.6 | 21.0 | 21.4 | 21.8 | 22.2 | 22.7 | 23.3 | 23.8 | 24.5 | 25.1 | 25.8 | 26.6 | 27.5 | 28.4 | 29.4 |
| R2-R2.5 | 24.1 | 24.6 | 25.2 | 25.8 | 26.3 | 27.0 | 27.6 | 28.2 | 28.9 | 29.5 | 30.2 | 31.0 | 31.7 | 32.5 | 33.3 | 34.1 | 34.9 | 35.8 | 36.7 | 37.7 | 38.7 | 39.7 | 40.8 | 41.9 | 43.1 |
| R3-R3.5 | 30.2 | 31.1 | 32.0 | 32.9 | 33.9 | 34.8 | 35.8 | 36.8 | 37.8 | 38.8 | 39.9 | 41.0 | 42.0 | 43.1 | 44.3 | 45.4 | 46.6 | 47.8 | 49.0 | 50.3 | 51.5 | 52.8 | 54.1 | 55.4 | 56.8 |

| Stage of Growth | Percentage of Nodes Cut Off | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **76** | **77** | **78** | **79** | **80** | **81** | **82** | **83** | **84** | **85** | **86** | **87** | **88** | **89** | **90** | **91** | **92** | **93** | **94** | **95** | **96** | **97** | **98** | **99** | **100** |
| V1-V2 | 10.8 | 11.0 | 11.3 | 11.5 | 11.8 | 12.0 | 12.3 | 12.6 | 12.9 | 13.2 | 13.5 | 13.9 | 14.2 | 14.5 | 14.9 | 15.3 | 15.6 | 16.0 | 16.4 | 16.8 | 17.3 | 17.7 | 18.2 | 18.6 | 19.1 |
| V3 | 21.6 | 22.0 | 22.5 | 23.0 | 23.5 | 24.1 | 24.6 | 25.2 | 25.8 | 26.4 | 27.1 | 27.7 | 28.4 | 29.1 | 29.8 | 30.5 | 31.3 | 32.1 | 32.9 | 33.7 | 34.5 | 35.4 | 36.3 | 37.2 | 38.2 |
| V4 | 23.7 | 24.7 | 25.6 | 26.7 | 27.8 | 28.9 | 30.2 | 31.5 | 32.8 | 34.3 | 35.8 | 37.4 | 39.1 | 40.9 | 42.8 | 44.7 | 46.8 | 48.9 | 51.2 | 53.6 | 56.0 | 58.6 | 61.3 | 64.1 | 67.0 |
| V5 | 27.1 | 28.1 | 29.2 | 30.4 | 31.7 | 33.0 | 34.4 | 36.0 | 37.6 | 39.3 | 41.1 | 43.1 | 45.1 | 47.3 | 49.6 | 52.0 | 54.6 | 57.3 | 60.2 | 63.2 | 66.4 | 69.7 | 73.3 | 77.0 | 80.9 |
| V6-R1 | 30.4 | 31.6 | 32.8 | 34.1 | 35.5 | 37.1 | 38.7 | 40.4 | 42.3 | 44.3 | 46.4 | 48.7 | 51.1 | 53.7 | 56.4 | 59.4 | 62.4 | 65.7 | 69.2 | 72.9 | 76.8 | 80.9 | 85.2 | 89.8 | 94.7 |
| R2-R2.5 | 44.3 | 45.6 | 46.9 | 48.3 | 49.7 | 51.3 | 52.8 | 54.5 | 56.2 | 58.0 | 59.9 | 61.9 | 63.9 | 66.1 | 68.4 | 70.7 | 73.2 | 75.7 | 78.4 | 81.2 | 84.1 | 87.2 | 90.3 | 93.6 | 97.1 |
| R3-R3.5 | 58.2 | 59.6 | 61.0 | 62.5 | 64.0 | 65.5 | 67.0 | 68.6 | 70.1 | 71.8 | 73.4 | 75.1 | 76.8 | 78.5 | 80.3 | 82.1 | 83.9 | 85.7 | 87.6 | 89.5 | 91.4 | 93.4 | 95.4 | 97.4 | 100 |

Except for losses occurring near harvest, claims shall not be finalized until at least 7 to 10 days following the hail storm.

## Indeterminate Soybean Defoliation Percent of Damage

| Stages | Percent of Defoliation | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **0** | **5** | **10** | **15** | **20** | **25** | **30** | **35** | **40** | **45** | **50** | **55** | **60** | **65** | **70** | **75** | **80** | **85** | **90** | **95** | **100** |
| **Vc-Vn** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **R1** | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 6 | 7 | 8 | 10 | 12 |
| **R2** | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 12 | 14 | 16 | 19 | 23 |
| **R2.5** | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 13 | 15 | 17 | 20 | 23 | 28 |
| **R3** | 0 | 1 | 2 | 3 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 11 | 12 | 14 | 16 | 18 | 21 | 24 | 28 | 33 |
| **R3.5** | 0 | 2 | 3 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 10 | 11 | 13 | 15 | 18 | 21 | 24 | 27 | 31 | 37 | 45 |
| **R4** | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 16 | 19 | 22 | 26 | 30 | 34 | 39 | 46 | 56 |
| **R4.5** | 0 | 2 | 4 | 5 | 6 | 8 | 9 | 10 | 11 | 13 | 15 | 17 | 20 | 23 | 27 | 31 | 37 | 42 | 49 | 56 | 65 |
| **R5** | 0 | 2 | 4 | 6 | 7 | 9 | 10 | 11 | 13 | 15 | 17 | 20 | 23 | 27 | 31 | 36 | 43 | 50 | 58 | 66 | 75 |
| **R5.5** | 0 | 2 | 4 | 6 | 7 | 9 | 10 | 11 | 13 | 15 | 17 | 20 | 23 | 27 | 31 | 36 | 43 | 50 | 58 | 66 | 75 |
| **R6** | 0 | 1 | 1 | 3 | 6 | 8 | 9 | 10 | 11 | 13 | 14 | 16 | 18 | 20 | 23 | 27 | 31 | 36 | 41 | 47 | 53 |
| **R6.5** | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 3 | 4 | 5 | 5 | 6 | 8 | 11 | 13 | 16 | 18 | 20 | 23 |

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

Locate the defoliation percents directly below and above the actual defoliation percentage taken from item 39 on the appraisal worksheet. Subtract the lower number from the actual percent and divide by 5. Multiply this result by the difference between the percent damage of the lower and higher defoliation percentages. Add this amount to the percent damage of the lower number, in percent rounded to tenths.

**EXAMPLE:** Stage is R5. Actual percent defoliation is 73 percent (item 39). 70 and 75 (percents directly below and above) 73 - 70 = 3
3 ÷ 5 = .6 36 - 31 = 5 5 x .6 = 3 3 + 31 = 34 34.0 percent will be the percent damage from defoliation entered in item 41 on the appraisal worksheet.

**Determinate Soybean Defoliation Percent of Damage**

| Stages | Percent of Defoliation | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **0** | **5** | **10** | **15** | **20** | **25** | **30** | **35** | **40** | **45** | **50** | **55** | **60** | **65** | **70** | **75** | **80** | **85** | **90** | **95** | **100** |
| **V9-V12** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 8 | 8 | 9 | 9 | 10 |
| **V13-Vn** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 8 | 9 | 9 | 10 | 11 | 12 | 14 | 16 | 19 | 22 | 25 |
| **R1-2** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 8 | 11 | 12 | 13 | 14 | 15 | 17 | 20 | 26 | 32 | 36 | 40 |
| **R2.5** | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 6 | 8 | 11 | 12 | 13 | 15 | 16 | 18 | 22 | 30 | 36 | 40 | 45 |
| **R3** | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 6 | 7 | 9 | 12 | 13 | 14 | 16 | 17 | 20 | 25 | 35 | 40 | 45 | 50 |
| **R3.5** | 0 | 0 | 0 | 0 | 3 | 5 | 6 | 7 | 8 | 10 | 12 | 13 | 15 | 17 | 18 | 21 | 28 | 36 | 41 | 47 | 63 |
| **R4** | 0 | 0 | 0 | 3 | 5 | 6 | 7 | 8 | 9 | 11 | 12 | 14 | 16 | 18 | 19 | 22 | 30 | 37 | 43 | 49 | 76 |
| **R4.5** | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 13 | 15 | 17 | 19 | 22 | 24 | 34 | 40 | 46 | 58 | 80 |
| **R5** | 0 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 11 | 13 | 15 | 16 | 18 | 20 | 23 | 26 | 35 | 44 | 50 | 66 | 84 |
| **R5.5** | 0 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 11 | 13 | 15 | 16 | 18 | 20 | 23 | 26 | 35 | 44 | 50 | 66 | 84 |
| **R6** | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 11 | 12 | 13 | 15 | 17 | 19 | 25 | 32 | 36 | 49 | 62 |

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

Locate the defoliation percents directly below and above the actual defoliation percent taken from item 39 on the appraisal worksheet. Subtract the lower number from the actual percent and divide by 5. Multiply this result by the difference between the percent damage of the lower and higher defoliation percentages. Add this amount to the percent damage of the lower number, in percent to tenths.

**EXAMPLE:** Stage is R3. Actual percent defoliation is 41 percent (item 39). 40 and 45 (percents directly below and above). 41 - 40 = 1
1 ÷ 5 = .2 9 - 7 = 2 2 x .2 = .4 .4 + 7 = 7.4 7.4 percent will be the percent damage from defoliation entered in item 41 on the appraisal worksheet.

If the growth stage is R6.5, defer the appraisal until the R7 stage and appraise using the Seed-Count method.

## Soybean Moisture Adjustment Factors

| Whole Percent Moisture | Tenths of Percent Moisture | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **.0** | **.1** | **.2** | **.3** | **.4** | **.5** | **.6** | **.7** | **.8** | **.9** |
| **13** | 1.0000 | .9988 | .9976 | .9964 | .9952 | .9940 | .9928 | .9916 | .9904 | .9892 |
| **14** | .9880 | .9868 | .9856 | .9844 | .9832 | .9820 | .9808 | .9796 | .9784 | .9772 |
| **15** | .9760 | .9748 | .9736 | .9724 | .9712 | .9700 | .9688 | .9676 | .9664 | .9652 |
| **16** | .9640 | .9628 | .9616 | .9604 | .9592 | .9580 | .9568 | .9556 | .9544 | .9532 |
| **17** | .9520 | .9508 | .9496 | .9484 | .9472 | .9460 | .9448 | .9436 | .9424 | .9412 |
| **18** | .9400 | .9388 | .9376 | .9364 | .9352 | .9340 | .9328 | .9316 | .9304 | .9292 |
| **19** | .9280 | .9268 | .9256 | .9244 | .9232 | .9220 | .9208 | .9196 | .9184 | .9172 |
| **20** | .9160 | .9148 | .9136 | .9124 | .9112 | .9100 | .9088 | .9076 | .9064 | .9052 |
| **21** | .9040 | .9028 | .9016 | .9004 | .8992 | .8980 | .8968 | .8956 | .8944 | .8932 |
| **22** | .8920 | .8908 | .8896 | .8884 | .8872 | .8860 | .8848 | .8836 | .8824 | .8812 |
| **23** | .8800 | .8788 | .8776 | .8764 | .8752 | .8740 | .8728 | .8716 | .8704 | .8692 |
| **24** | .8680 | .8668 | .8656 | .8644 | .8632 | .8620 | .8608 | .8596 | .8584 | .8572 |
| **25** | .8560 | .8548 | .8536 | .8524 | .8512 | .8500 | .8488 | .8476 | .8464 | .8452 |
| **26** | .8440 | .8428 | .8416 | .8404 | .8392 | .8380 | .8368 | .8356 | .8344 | .8332 |
| **27** | .8320 | .8308 | .8296 | .8284 | .8272 | .8260 | .8248 | .8236 | .8224 | .8212 |
| **28** | .8200 | .8188 | .8176 | .8164 | .8152 | .8140 | .8128 | .8116 | .8104 | .8092 |
| **29** | .8080 | .8068 | .8056 | .8044 | .8032 | .8020 | .8008 | .7996 | .7984 | .7972 |
| **30** | .7960 | .7948 | .7936 | .7924 | .7912 | .7900 | .7888 | .7876 | .7864 | .7852 |
| **31** | .7840 | .7828 | .7816 | .7804 | .7792 | .7780 | .7768 | .7756 | .7744 | .7732 |
| **32** | .7720 | .7708 | .7696 | .7684 | .7672 | .7660 | .7648 | .7636 | .7624 | .7612 |
| **33** | .7600 | .7588 | .7576 | .7564 | .7552 | .7540 | .7528 | .7516 | .7504 | .7492 |
| **34** | .7480 | .7468 | .7456 | .7444 | .7432 | .7420 | .7408 | .7396 | .7384 | .7372 |
| **35** | .7360 | .7348 | .7336 | .7324 | .7312 | .7300 | .7288 | .7276 | .7264 | .7252 |
| **36** | .7240 | .7228 | .7216 | .7204 | .7192 | .7180 | .7168 | .7156 | .7144 | .7132 |
| **37** | .7120 | .7108 | .7096 | .7084 | .7072 | .7060 | .7048 | .7036 | .7024 | .7012 |
| **38** | .7000 | .6988 | .6976 | .6964 | .6952 | .6940 | .6928 | .6916 | .6904 | .6892 |
| **39** | .6880 | .6868 | .6856 | .6844 | .6832 | .6820 | .6808 | .6796 | .6784 | .6772 |
| **40** | .6760 | .6748 | .6736 | .6724 | .6712 | .6700 | .6688 | .6676 | .6664 | .6652 |

**Soybean Growth Stages**

**V-Stage Descriptions**

| Stage | Description | Time Interval In Days From Last Stage |
|---|---|---|
| Emergence (VE and VC) - V1 | From Emergence To Stage V1 | |
| V1 | Fully developed leaves at unifoliate node. | 10 |
| V2 | Fully developed trifoliolate leaf at second node above cotyledonary node. | 5 |
| V3 | Fully developed trifoliolate leaf at third node above cotyledonary node. | 5 |
| V4 | Fully developed trifoliolate leaf at fourth node above cotyledonary node. | 5 |
| V5 | Fully developed trifoliolate leaf at fifth node above cotyledonary node. | 5 |
| V6 | Fully developed trifoliolate leaf at sixth node above cotyledonary node. | 3 |
| V7 | Fully developed trifoliolate leaf at seventh node above cotyledonary node. | 3 |
| V8 | Fully developed trifoliolate leaf at eighth node above cotyledonary node. | 3 |
| V9 | Fully developed trifoliolate leaf at ninth node above cotyledonary node. | 3 |
| V10 | Fully developed trifoliolate leaf at tenth node above cotyledonary node. | 3 |
| VN | Node greater than tenth node above the cotyledon node that has a fully developed trifoliolate leaf (e.g., V11, V12, etc.). | 3 |
| Adjust all losses at the stage of growth on the date of damage. | | |

**Leaves, Nodes, and Plants In Various V Stages.**

Fig. 1

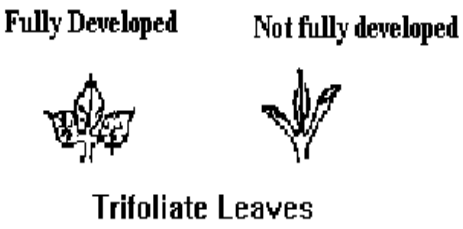
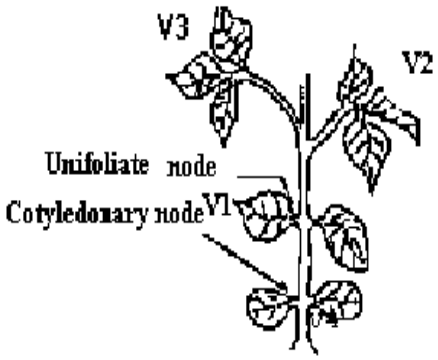



Fig. 2



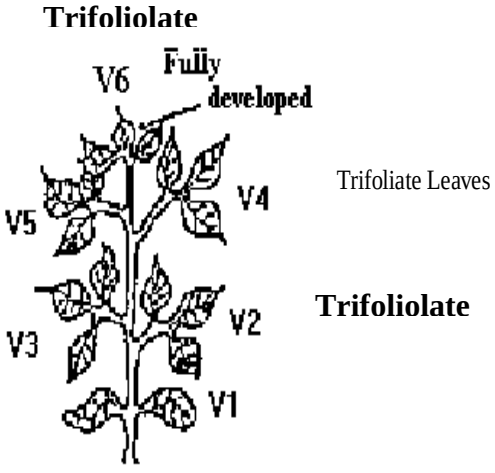




Fig. 3

Trifoliate Leaves

Trifoliolate

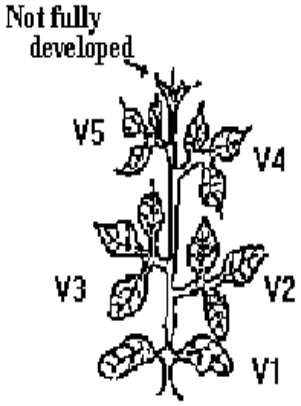



Fig. 4

**Soybean Growth Stages (Continued)**

**R-Stage Descriptions**

| Stage | Description | Time Interval In Days From Last Stage |
|---|---|---|
| **Indeterminate** | | |
| R1 | One open flower at any node on the main stem. | |
| R2 | Open flower at one of the two uppermost nodes on the main stem with a fully developed leaf. | 3 |
| **Determinate** | | |
| R1 - R2 | Flower at one of the four uppermost nodes. | 3 |
| **Both Determinate and Indeterminate** | | |
| R3 | Pod just visible at one of the four uppermost nodes. | 7 |
| R4 | Pod 3/4 inch long at one of the four uppermost nodes. | 9 |
| R5 | Seeds beginning to develop at one of the four uppermost nodes. A seed is considered "beginning to develop" when it is 1/8 inch in length. | 9 |
| R6 | Pod containing green seeds that fill the pod cavity at one of the four uppermost nodes. | 15 |
| R6.5 | When all the normal pods on the four uppermost nodes of the main stem have their pod cavities completely filled, suture-to-suture, with seed. | 9 |
| **Beginning of Seed Count Method** | | |
| R7 | One normal pod on the main stem that has reached its mature pod color. 50 percent or more of the leaves are yellow at this stage. Physiological maturity. | 9 |
| R8 | 95 percent of pods are brown. | 9 |
| Adjust all losses at the stage of growth on the date of damage, except that the Seed Count Method is used if in R7 or beyond at Date of Adjustment. | | |

**Pods and Plants In Various R Stages.**

**R1 (Indeterminate)**
**R1-R2 (Determinate)**

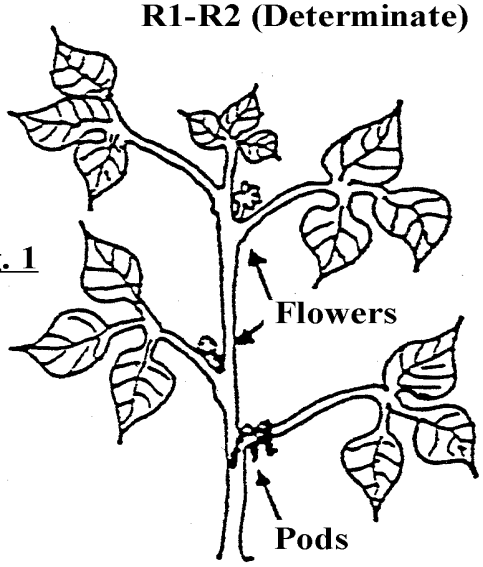



**Fig. 1**

**R3**

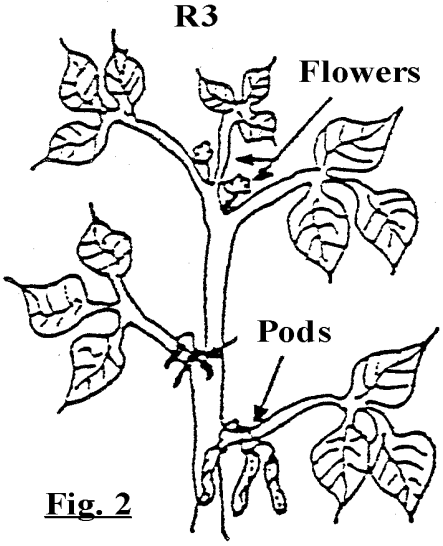



**Fig. 2**

**Fig. 3**

**R4 Pod**

**3/4”**

**Fig. 4**

**R5 Pod**

**(1/8” seeds)**

**Fig. 5**

**R6 Pod**

**(Seeds fill cavity)**

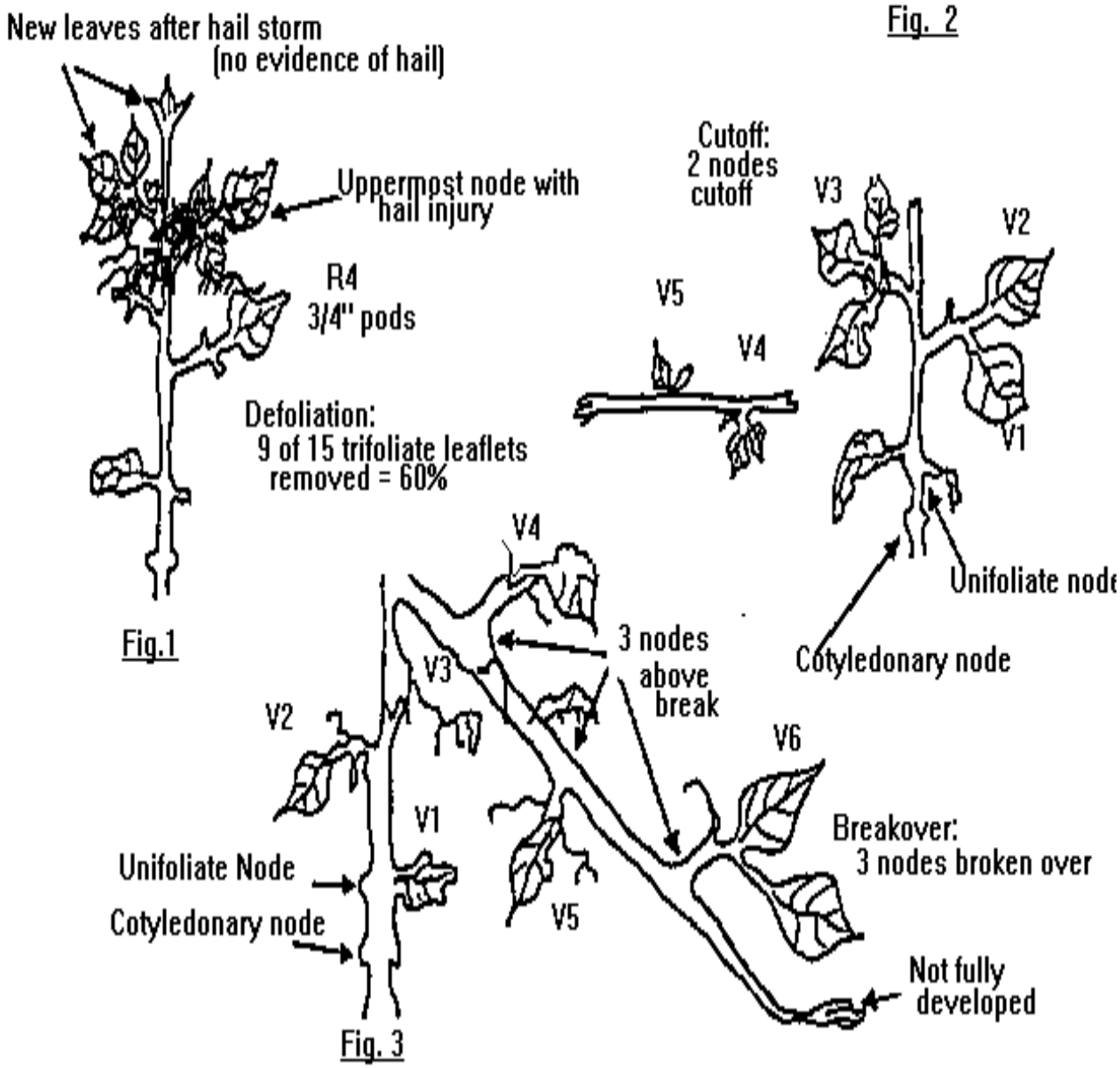
**Defoliation, Cutoff, and Breakover Illustrations**

Shown below are defoliation (Fig. 1), a cutoff with defoliation (Fig. 2), and a breakover with defoliation (Fig. 3).

(a) Defoliation: R4 represents the stage at the date of damage (DOD).

(b) Cutoff: V5 represents the stage at the DOD.

(c) Break Over: V6 represents the stage at the DOD.


New leaves after hail storm
(no evidence of hail)
Uppermost node with hail injury
R4
3/4" pods
Defoliation:
9 of 15 trifoliate leaflets removed = 60%
Fig.1
Cutoff:
2 nodes cutoff
V3
V2
V5
V4
V1
Unifoliate node
Cotyledonary node
Fig. 2
V4
3 nodes above break
V3
V2
V6
V1
Unifoliate Node
Cotyledonary node
V5
Breakover:
3 nodes broken over
Not fully developed
Fig. 3