

United States  
Department of  
Agriculture



Federal Crop  
Insurance  
Corporation



Product  
Development  
Division

# SOYBEAN LOSS ADJUSTMENT STANDARDS HANDBOOK

FCIC-25440 (11-2003)  
FCIC-25440-1 (11-2004)

**2005** and Succeeding Crop Years



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

<b>FEDERAL CROP INSURANCE HANDBOOK</b>	<b>Number: 25440 (11-2003)</b> <b>25440-1 (11-2004)</b>
<b>SUBJECT:</b>  <b>SOYBEAN LOSS ADJUSTMENT STANDARDS HANDBOOK 2005 AND SUCCEEDING CROP YEARS</b>	<b>OPI: Product Development Division</b>
	<b>APPROVED:</b> <span style="float: right;"><b>DATE:</b></span>
	<i>/S:/ Rodger Matthews</i> <span style="float: right;"><i>11/24/04</i></span>  Deputy Administrator, Research and Development

**THIS HANDBOOK CONTAINS THE OFFICIAL FCIC-APPROVED LOSS ADJUSTMENT STANDARDS FOR THIS CROP FOR THE 2005 AND SUCCEEDING CROP YEARS. IN THE ABSENCE OF INDUSTRY-DEVELOPED, FCIC-APPROVED PROCEDURE FOR THIS CROP FOR 2005 AND SUCCEEDING CROP YEARS, ALL REINSURED COMPANIES WILL UTILIZE THESE STANDARDS FOR BOTH LOSS ADJUSTMENT AND LOSS TRAINING.**

**SUMMARY OF CHANGES/CONTROL CHART**

The following list contains significant changes to this handbook, as determined by us. It may not represent all changes made. All changes made to this handbook are applicable regardless of whether or not listed

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

Changes for Crop Year 2005 (FCIC-25440-1) issued **NOVEMBER 2004:**

- A. Removed title "NOTE" throughout the handbook and revised format accordingly.
- B. Page TC 2: Updated entry for **TABLE C** to "COMBINED TEST WEIGHT AND PACK FACTOR."
- C. Page 31, Subsection 9 B Section I, item A<sub>2</sub>: Added "**REFER TO THE LAM FOR INSTRUCTIONS REGARDING ENTRY OF FIRST CROP AND SECOND CROP CODES.**"
- D. Page 40, Subsection 9 B Section II, item A<sub>2</sub>: Added "**REFER TO THE LAM FOR INSTRUCTIONS REGARDING ENTRY OF FIRST CROP AND SECOND CROP CODES.**"
- E. Page 41, Subsection 9 B Section II, item M<sub>2</sub>: Revised entry to refer to the combination test weight factor.

## SOYBEAN LOSS ADJUSTMENT STANDARDS HANDBOOK

### SUMMARY OF CHANGES/CONTROL CHART (Continued)

- F. Page 44, Subsection 9 B Section II, Production Worksheet Example: Updated example to reflect combined test weight/pack factor.
- G. Page 48, section 10 – Reference Material: Added **TABLE C**.
- H. Page 49, section 10 – Reference Material: **TABLE E** – Revised “Instructions” to clarify that 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..
- I. Page 52, section 10 – Reference Material: **TABLE E** – Revised “Instructions” to clarify that 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 500.

Control Chart For: Soybean Loss Adjustment Standards Handbook						
	SC Page(s)	TC Page(s)	Text Page(s)	Reference Material	Date	Directive Number
Remove	1-2	1-2	31-32 39-44	47-52	11-2003 11-2003 11-2003	FCIC-25440 FCIC-25440 FCIC-25440
Insert	1-2	1-2	31-32 39-44	47-52	11-2004 11-2004 11-2004	FCIC-25440-1 FCIC-25440-1 FCIC-25440-1
Current Index	1-2	1-2	1-30 31-32 33-38 39-44 45-46	47-52 53-60	11-2004 11-2003 11-2004 11-2003 11-2004 11-2003 11-2004 11-2003	FCIC-25440-1 FCIC-25440 FCIC-25440-1 FCIC-25440 FCIC-25440-1 FCIC-25440 FCIC-25440-1 FCIC-25440

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- (1) If the other person has a multiple-peril crop insurance contract and it can be determined that the SAME insurance provider services it, enter the contract number. Handle these companion policies according to insurance provider instructions.
- (2) If the OTHER person has a multiple-peril crop insurance contract and a DIFFERENT insurance provider or agent services it, enter the name of the insurance provider and/or agent (and contract number) if known.
- (3) If unable to verify the existence of a companion contract, enter “Unknown” and contact the insurance provider for further instructions.

\*\*\*

- (4) Refer to the LAM for further information regarding companion contracts.

## SECTION I - ACREAGE APPRAISED, PRODUCTION AND ADJUSTMENTS

Make separate line entries for varying:

- (1) Rate classes, types, or farming practices;
- (2) APH yields;
- (3) Appraisals;
- (4) Adjustments to appraised mature production (moisture and/or quality adjustment 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.

Verify or make the following entries:

### Item

### No.      Information Required

- A.      **Field ID:** The field identification symbol from a sketch map or an aerial photo. Refer to the narrative. In the margin (or in a separate column), enter the date of inspection for the last line entry of each inspection.

\*\*\*

**REFER TO THE LAM FOR INSTRUCTIONS REGARDING ENTRY OF FIRST CROP AND SECOND CROP CODES.**

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.

- B.      **Preliminary Acres:**

**PRELIMINARY:** The number of acres, to tenths, (include “E” if estimated), for which consent for other use has been given. Determine actual acreage, to tenths, when the boundaries of the appraised acreage may not be determined later.

**REPLANT AND FINAL:** MAKE NO ENTRY.

C. **Final Acres:** Refer to the LAM for definition of acceptable determined acres used herein.

Determined acres to tenths (include “E” if estimated) for which consent is given for other use and/or:

- a. Put to other use without consent.
- b. Abandoned.
- c. Damaged by uninsured causes.
- d. For which the insured failed to provide acceptable records of production.

**REPLANT:** Determine the total acres, to tenths, of replanted acreage (DO NOT ESTIMATE). Make a separate line entry for any PART of a field or subfield NOT replanted.

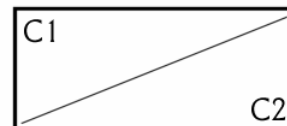
- a. Determine the planted acreage of any fields or subfields NOT replanted. Consolidate it into a single line entry UNLESS the usual reasons for separate line entries apply. Record the field or subfields identities (from a map or aerial photo) in the narrative.
- b. ACCOUNT FOR ALL PLANTED ACREAGE IN THE UNIT.

**FINAL:** Determined acres to tenths.

Acreage breakdowns WITHIN a unit may be estimated (enter “E” in front of the acres) if a determination is impractical AND if authorization was received from the insurance provider. Document authorization in the Narrative.

ACCOUNT FOR ALL ACREAGE IN THE UNIT. In the event of over-reported acres, handle in accordance with individual insurance provider instructions. In the event of under-reported acres, draw a diagonal line in Column “C” as shown.

- C<sub>1</sub> Enter the ACTUAL acres for the field or subfield.
- C<sub>2</sub> Enter the REPORTED acres for the field or subfield.



D. **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.

E. **Risk:** Three-digit code for the correct “Rate Class” specified on the actuarial documents. If a “Rate Class” or “High Risk Area” is not specified on the actuarial documents, make no entry. Verify with the Summary of Coverage and if the Rate Class is found to be incorrect, revise according to the insurance provider’s instructions. Refer to the LAM.

\*\*\*

Unrated land is uninsurable without a written agreement.

F. **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.

G. **Type/Class/Variety:** Three-digit code number entered exactly as specified on the actuarial documents, for the type grown by the insured. If “No Type Specified,” enter appropriate 3-digit code number from the actuarial documents.



- (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** “A” through “S” by type or practice. If production has been commingled, refer to the LAM.

**Verify or make the following entries:**

**Item  
No.**

**Information Required**

18. **Date Harvest Completed: (Used to determine if there is a delayed notice or a delayed claim. Refer to the LAM.)**

**PRELIMINARY: MAKE NO ENTRY.**

**REPLANT AND FINAL:**

- a. The earlier of the date the ENTIRE acreage on the unit was (1) harvested, (2) totally destroyed, (3) put to other use, (4) a combination of harvested, destroyed, or put to other use, or (5) the calendar date for the end of the insurance period.
- b. If at the time of final inspection (if prior to the end of the insurance period), there is any unharvested insured acreage remaining on the unit that the insured does not intend to harvest, enter “**Incomplete.**”
- c. If at the time of final inspection (if prior to the end of the insurance period), **none** of the insured acreage on the unit has been harvested, and the insured does not intend to harvest such acreage, enter “**No Harvest.**”
- d. If the case involves a Certification Form, enter the date from the Certification Form when the entire unit is put to another use, replanting is complete for the unit, etc. Refer to the LAM.

19. **Similar Damage:**

**PRELIMINARY: MAKE NO ENTRY.**

**REPLANT AND FINAL:** Check “Yes” or “No.” Check “Yes” if 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.

20. **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.

21. **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.

- A<sub>1</sub>. **Share:** RECORD ONLY VARYING SHARES on SAME unit to three decimal places.

A<sub>2</sub>. **Field ID:**

- a. If only one practice and/or type of harvested production is listed in Section I, MAKE NO ENTRY.
- b. If more than one practice and/or type of harvested production is listed in Section I, and a separate approved APH yield exists, indicate for each practice/type the corresponding Field ID (from Section I, column "A.")

\*\*\*

c. **REFER TO THE LAM FOR INSTRUCTIONS REGARDING ENTRY OF FIRST CROP AND SECOND CROP CODES.**

- B. **Length or Diameter:** Internal measurement in feet to tenths of structural space occupied by crop.
  - a. Length if rectangular or square.
  - b. Diameter if round or conical pile. Refer to the LAM to convert circumference to diameter if internal diameter measurement is not possible.
- C. **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."
- D. **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.
- E. **Deduction:** Cubic feet, to tenths, of crop space displaced by chutes, vents, studs, crossies, etc. Refer to the LAM for computation instructions.
- F. **Net Cubic Feet:** Net cubic feet of crop in the storage structure. Refer to the LAM for computation instructions.
- G. **Conversion Factor:** Enter Conversion Factor as .8 (only if structure measurements are entered).
- H. **Gross Prod.:** Multiply Column "F" times column "G," rounded to tenths of a bushel.
- I. **Bu., Ton, Lbs., Cwt.:** Circle "Bu." in column heading. Production in bushels, to tenths, before deductions for grain moisture and foreign material for production:
  - a. Weighed and stored on the farm.
  - 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.)
  - c. Stored in odd-shaped structures. The adjuster must compute the amount of gross production. (Refer to the LAM for cubic footage and production computations). A copy of ALL production calculations must be left in the file folder.

\*\*\* d. For mycotoxin-infected soybeans, enter ALL production even if it has no market value.

J. **Shell/Sugar Factor:** MAKE NO ENTRY

K<sub>1</sub>. **FM %:** Make entry to nearest tenth. Refer to the LAM for instructions.

\*\*\* Refer to the LAM for FGIS definitions of “FM” and “Dockage.”

K<sub>2</sub>. **Factor:** Enter the three-place factor determined by subtracting the percent of FM from 1.000, or subtract the entry in K<sub>1</sub> from 100 and divide by 100. **EXAMPLE:** For 4 percent, enter “.960.”

L<sub>1</sub>. **Moisture %:** Enter moisture percent to tenths. Moisture adjustment is applied prior to applying any qualifying adjustment for quality.

L<sub>2</sub>. **Factor:** If grain moisture is more than **13.0 percent**, enter the four-place moisture factor from the soybean moisture adjustment factor table (**TABLE J**).

M<sub>1</sub>. **Test Wt.:** Enter test weight (ONLY when storage structure measurements are entered) in whole pounds (or pounds to tenths IF so instructed by the insurance provider). Refer to the LAM for instructions on determining test weight.

M<sub>2</sub>. **Factor:** Combination Test Weight and Pack Factor - Enter the factor from the appropriate table (**TABLE C**) for the square footage of floor space in the storage structure. Refer to the LAM for instructions on calculating floor space of a structure. For test weights not shown on the chart, multiply the actual test weight by the last available combination test weight pack factor for the appropriate bin size and divide the result by the last available test weight shown on the chart.

**EXAMPLE FOR TEST WEIGHT NOT SHOWN ON THE CHART:**

Soybeans with a test weight of 66 pounds stored in a less than 255 Sq. Ft. bin  
 $66 \text{ (actual test weight)} \times 1.103 \text{ (last available factor)} \div 65 \text{ (last available test weight)} = 1.120$

If the Insurance Provider instructions are to enter test weight to the nearest tenth, use the nearest test weight value on the combination test weight/pack factor chart.

N. **Adjusted Production:** Result of multiplying (“H” or “I”) x “K<sub>2</sub>” x “L<sub>2</sub>” x “M<sub>2</sub>.” (Round to nearest tenth).

O. **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).

THIS ENTRY MUST NEVER EXCEED PRODUCTION SHOWN ON THE SAME LINE. EXPLAIN THE TOTAL BIN CONTENTS (bin grain depth, etc.) AND ANY “PRODUCTION NOT TO COUNT” IN THE NARRATIVE.

\*\*\*

Make no entry if only the depth for production to count has been entered in column D, and the depth for production not to count has been entered in the "Narrative" section. Refer to the example in the LAM.

P. **Production:** Result of subtracting the entry in Column "O" from Column "N," to tenths.

Q<sub>1</sub>. **Value:** When applicable, enter the Reduction in Value (RIV). RIV must be limited to amounts that are usual, customary, and reasonable. (Refer to the Special Provisions and the LAM for further instructions.)

\*\*\*

DO NOT make an entry when the quality adjustment factor can be obtained from the charts in the Special Provisions.

Q<sub>2</sub>. **MKT. Price:** If an entry is in item "Q<sub>1</sub>," enter the Local Market Price for U.S. Grade No. 1 Soybeans (refer to the crop provisions). Refer to the LAM for further instructions.

\*\*\*

DO NOT make an entry when the quality adjustment factor can be obtained from the charts in the Special Provisions.

R. **Quality Factor:** For production eligible for quality adjustment, enter the 3-digit quality adjustment factor determined by subtracting the result of "Q<sub>1</sub>" divided by "Q<sub>2</sub>" from 1.000, or **1.000 minus the discount factor(s) obtained from the Special Provisions.**

S. **Production to Count:** Enter result from multiplying Column "P" times Column "R" in bushels to tenths.

FOR ITEMS 22 - 24. WHEN SEPARATE LINE ENTRIES ARE MADE FOR VARYING SHARES, STAGES, APH YIELDS, PRICE ELECTIONS, TYPES, ETC., WITHIN THE UNIT, AND TOTALS NEED TO BE KEPT SEPARATE FOR CALCULATING INDEMNITIES, MAKE NO ENTRY AND FOLLOW THE INSURANCE PROVIDER'S INSTRUCTIONS; OTHERWISE, MAKE THE FOLLOWING ENTRIES.

22. **Section II Total:**

**PRELIMINARY AND REPLANT:** MAKE NO ENTRY.

**FINAL:** Total of Column "S," to tenths.

23. **Section I Total:**

**PRELIMINARY AND REPLANT:** MAKE NO ENTRY.

**FINAL:** Enter figure from Section I, Column "O" total.

24. **Unit Total:**

**PRELIMINARY AND REPLANT:** MAKE NO ENTRY.

**FINAL:** Total of 22 and 23, to tenths.

25. **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 Production Worksheet.

\*\*\*

Final indemnity inspections and final replanting payment inspections should be signed on bottom line.

26. **Insured's Signature and Date:** Insured's (or insured's authorized representative's) signature and date. **BEFORE** obtaining insured's signature, **REVIEW ALL ENTRIES** on the Production Worksheet **WITH THE INSURED**, particularly explaining codes, etc., that may not be readily understood.

\*\*\*

Final indemnity inspections and final replanting payment inspections should be signed on bottom line.

27. **Page Numbers:**

**PRELIMINARY:** Page numbers - "1," "2," etc., at the time of inspection.

**REPLANT AND FINAL:** Page numbers - (Example: Page 1 of 1, Page 1 of 2, Page 2 of 2, etc.).

1 Crop/Code # <b>SOYBEANS - 0081</b>	2 Unit # <b>00200</b>	3 Legal Description	<b>PRODUCTION WORKSHEET (FOR ILLUSTRATION PURPOSES ONLY)</b>						8 Name of Insured <b>I. M. INSURED</b>			
4 Date of Damage <b>JUN 10</b>	5 Cause of Damage <b>HAIL</b>	6 Primary Cause % <b>100</b>	7 Company <b>ANY COMPANY</b>						9 Claim # <b>XXXXXXXX</b>	11 Crop Year <b>YYYY</b>		
12 Additional Units <b>00300</b>	13 Est. Prod Per Acre <b>40</b>		Agency <b>ANY AGENCY</b>						10 Policy #			
							14 Date(s) Notice of Loss	1 <sup>st</sup> <b>MM/DD/YYYY</b>	2 <sup>nd</sup>	Final <b>MM/DD/YYYY</b>		
											15 Companion Policy(s)	

**SECTION I - ACREAGE APPRAISED, PRODUCTION AND ADJUSTMENTS**

ACTUARIAL									POTENTIAL YIELD						STAGE GUARANTEE	
A	B	C	D	E	F	G	H	I	J	K <sub>1</sub> K <sub>2</sub>	L	M	N	O	P	Q
Field ID	Prelim Acres	Final Acres	Interest or Share	Risk	Practice	Type Class Variety	Stage	Intended or Final Use	Appraised Potential	Moisture % Factor	Shell and/or Quality Factor	+Uninsured Cause	Adjusted Potential	Total to Count (C x N)	Per Acre	Total (C x P)
<b>M/D</b> A NS	7.5 E	10.0	1.000		002	997	UH	TO GR. SORG	25.0				25.0	250.0	28.0	280.0
<b>M/D</b> B NS		10.0	1.000		002	997	P	WOC				28.0	28.0	280.0	28.0	280.0
<b>M/D</b> C NS		60.2	1.000		002	997	H	H							28.0	1685.6
16 TOTAL		<b>80.2</b>											17 TOTALS	<b>530.0</b>	<b>2245.6</b>	

**NARRATIVE (If more space is needed, attach a Special Report)** Soybeans at Acme Elevator weighed 44# per bushel and had 9.9% kernel damage. Field B- Put to other use without consent. Fields C determined from FSA permanent field measurements. Field A & B - wheel measured. Refer to attached Special Report for measurements and calculations. Refer to attached FGIS Grade Certificate. Test Wt. = 44#(DF = .015) + 9.9% Kernel Damage (DF = .051) + Sample Grade Discount Factor (.163) = .229  
1.000 - .229 = .771 Quality Adjustment Factor.

**SECTION II - HARVESTED PRODUCTION**

18 Date Harvest Completed MM/DD/YYYY				19 Damage Similar to Other Farms in the Area? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				20 Assesment of Indemnity? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				21 Transfer of Right To Indemnity? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						
MEASUREMENTS				GROSS PRODUCTION				ADJUSTMENTS TO HARVESTED PRODUCTION										
A <sub>1</sub> A <sub>2</sub>	B	C	D	E	F	G	H	I	J	K <sub>1</sub> K <sub>2</sub>	L <sub>1</sub> L <sub>2</sub>	M <sub>1</sub> M <sub>2</sub>	N	O	P	Q <sub>1</sub> Q <sub>2</sub>	R	S
Share	Length or Diameter	Width	Depth	Deduction	Net Cubic Feet	Conve r-sion Factor	Gross Prod. (F x G)	Bu. Ton Lbs. Cwt.	Shell/ Sugar Factor	FM% Factor	Moisture% Factor	Test Wt. Factor	Adjusted Production HorIxJxK <sub>2</sub> xL <sub>2</sub> xM <sub>2</sub>	Prod. Not To Count	Production(N - O)	Value Mkt. Price	Quality Factor	Production To Count (P X R)
<b>ACME ELEVATOR ANYTOWN, ANY STATE</b>								<b>530.1</b>		<b>1.0</b>			<b>524.8</b>		<b>524.8</b>		<b>.771</b>	<b>404.6</b>
	<b>14.0</b>	<b>RND</b>	<b>10.0</b>		<b>1539.4</b>	<b>.8</b>	<b>1231.5</b>			<b>16.7</b>	<b>52</b>	<b>.916</b>	<b>1078.0</b>		<b>1078.0</b>			<b>1078.0</b>

I certify the information provided above, to the best of my knowledge, to be true and complete and that it will be used to determine my loss, if any, to my insured crops. I understand that this Production Worksheet and supporting papers are subject to audit and approval by the company. I understand that this crop insurance is subsidized and reinsured by the Federal Crop Insurance Corporation, an agency of the United States. I understand that any false or inaccurate information may result in the sanctions outlined in my policy and administrative, civil, and criminal sanctions under 18 U.S.C. §§ 1006 and 1014, 7 U.S.C. § 1506, 31 U.S.C. §§ 3729 and other federal statues

22 Section II Total	<b>1482.6</b>
23 Section I Total	<b>530.0</b>
24 Unit Total	<b>2012.6</b>

25 Adjuster's Signature			Code #	Date	26 Insured's Signature			Date
1 <sup>st</sup> Inspection		<b>I. M. ADJUSTER</b>	<b>XXXXX</b>	<b>MM/DD/YYYY</b>	1 <sup>st</sup> Inspection		<b>I. M. INSURED</b>	<b>MM/DD/YYYY</b>
2 <sup>nd</sup> Inspection					2 <sup>nd</sup> Inspection			
Final Inspection		<b>I. M. ADJUSTER</b>	<b>XXXXX</b>	<b>MM/DD/YYYY</b>	Final Inspection		<b>I. M. INSURED</b>	<b>MM/DD/YYYY</b>
								27 Page <b>1</b> of <b>1</b>

## 10. REFERENCE MATERIAL

**TABLE A - MINIMUM REPRESENTATIVE SAMPLE REQUIREMENTS**

ACRES IN FIELD	MINIMUM NO. OF SAMPLES
0.1 - 10.0	3
10.1 - 40.0	4
Add one additional sample for each additional 40.0 acres (or fraction thereof) in the field or subfield.	

**TABLE B - 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 **TABLE B**, 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")       $24 \div 7.5 = 3.20$  Factor

15 inches       $24 \div 15 = 1.60$  Factor

**TABLE C - COMBINED TEST WEIGHT AND PACK FACTOR**

<b>Test Wts.</b>	<b>Less Than 255 Sq. Ft. -</b>	<b>255 Sq. Ft. to 461 Sq. Ft. -</b>	<b>462 Sq. Ft. to 767 Sq. Ft. -</b>	<b>768 Sq. Ft. to 1384 Sq. Ft. -</b>	<b>1385 Sq. Ft. to 2289 Sq. Ft. -</b>	<b>2290 or Over Sq. Ft. -</b>
40.0	0.726	0.730	0.739	0.745	0.757	0.774
40.5	0.734	0.738	0.747	0.753	0.765	0.782
41.0	0.742	0.746	0.755	0.761	0.773	0.790
41.5	0.750	0.754	0.763	0.769	0.781	0.798
42.0	0.758	0.762	0.771	0.777	0.789	0.806
42.5	0.766	0.770	0.779	0.785	0.797	0.814
43.0	0.774	0.778	0.787	0.793	0.805	0.822
43.5	0.782	0.786	0.795	0.801	0.813	0.830
44.0	0.790	0.794	0.803	0.809	0.821	0.838
44.5	0.798	0.802	0.811	0.817	0.829	0.846
45.0	0.806	0.810	0.819	0.825	0.837	0.854
45.5	0.814	0.818	0.827	0.833	0.845	0.862
46.0	0.822	0.826	0.835	0.841	0.853	0.870
46.5	0.830	0.834	0.843	0.849	0.861	0.878
47.0	0.838	0.842	0.851	0.857	0.869	0.886
47.5	0.846	0.850	0.859	0.865	0.877	0.894
48.0	0.854	0.858	0.867	0.873	0.885	0.902
48.5	0.862	0.866	0.875	0.881	0.893	0.910
49.0	0.870	0.874	0.883	0.889	0.901	0.918
49.5	0.878	0.882	0.891	0.897	0.909	0.926
50.0	0.886	0.890	0.899	0.905	0.917	0.934
50.5	0.893	0.898	0.906	0.913	0.925	0.942
51.0	0.901	0.906	0.914	0.921	0.933	0.951
51.5	0.909	0.913	0.922	0.928	0.940	0.957
52.0	0.916	0.920	0.929	0.936	0.948	0.966
52.5	0.924	0.928	0.937	0.943	0.955	0.973
53.0	0.931	0.936	0.945	0.951	0.963	0.981
53.5	0.938	0.943	0.952	0.959	0.971	0.990
54.0	0.946	0.950	0.959	0.966	0.978	0.997
54.5	0.953	0.958	0.967	0.974	0.986	1.005
55.0	0.961	0.965	0.974	0.982	0.994	1.013
55.5	0.968	0.973	0.982	0.989	1.001	1.020
56.0	0.975	0.980	0.989	0.997	1.010	1.029
56.5	0.983	0.987	0.996	1.004	1.016	1.035
57.0	0.990	0.995	1.004	1.012	1.025	1.044
57.5	0.997	1.002	1.011	1.019	1.032	1.051
58.0	1.004	1.009	1.019	1.027	1.040	1.060
58.5	1.012	1.016	1.026	1.034	1.047	1.067
59.0	1.019	1.024	1.033	1.041	1.054	1.074
59.5	1.026	1.031	1.041	1.049	1.062	1.083
60.0	1.033	1.038	1.048	1.056	1.069	1.090
60.5	1.040	1.045	1.055	1.063	1.076	1.097



**TABLE C - COMBINED TEST WEIGHT AND PACK FACTOR (Continued)**

<b>Test Wts.</b>	<b>Less Than 255 Sq. Ft. -</b>	<b>255 Sq. Ft. to 461 Sq. Ft. -</b>	<b>462 Sq. Ft. to 767 Sq. Ft. -</b>	<b>768 Sq. Ft. to 1384 Sq. Ft. -</b>	<b>1385 Sq. Ft. to 2289 Sq. Ft. -</b>	<b>2290 or Over Sq. Ft. -</b>
61.0	1.047	1.052	1.063	1.071	1.084	1.105
61.5	1.054	1.059	1.070	1.078	1.091	1.112
62.0	1.061	1.066	1.077	1.085	1.098	1.119
62.5	1.068	1.074	1.084	1.092	1.105	1.126
63.0	1.075	1.082	1.091	1.099	1.112	1.133
63.5	1.082	1.090	1.098	1.106	1.119	1.140
64.0	1.089	1.098	1.105	1.113	1.126	1.147
64.5	1.096	1.106	1.112	1.120	1.133	1.154
65.0	1.103	1.114	1.119	1.127	1.140	1.161

If the actual test weight is not shown on the chart, refer to subsection 9 B Section II, item M<sub>2</sub> for instructions.

**TABLE D - SEED (BEAN) SIZE FACTOR**

<b>CC=S PER 100 SEEDS</b>	<b>FACTOR</b>	<b>CC'S PER 100 SEEDS</b>	<b>FACTOR</b>	<b>CC'S PER 100 SEEDS</b>	<b>FACTOR</b>
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				

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**TABLE E - PLANTS PER ACRE (Page 1 of 4)**

**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 (3' x 3')	
	40	38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	7		6
180,000	138	131	124	117	110	103	96	90	83	76	69	62	55	48				24		37
175,000	134	127	121	114	107	100	94	87	80	74	67	60		47	40				20	36
170,000	130	124	117	111	104	98	91	85	78	72	65		52		39		25			35
165,000	126	120	114	107	101	95	88	82	76	69	63	57		44	38			22	19	34
160,000	122	116	110	104	98	92	86	80	73	67	61	55	49	43	37					33
155,000	119	113	107	101	95	89	83	77	71	65	59	53								32
150,000	115	109	103	98	92	86	80	75	69	63	57	52	46	40			23	20		31
145,000	111	105	100	94	89	83	78	72	67	61		50		39						30
140,000	107	102	96	91	86	80	75	70	64	59	54	48	43		32	27			16	29
135,000	103	98	93	88	83	77	72	67	62	57	52		41	36	31	26		18		28
130,000	99	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20			27
125,000	96	91	86	81	77	72	67	62	57	53	48	43	38	33	29	24	19	17		26
122,500	94	89	85	80	75	71	66	61	56	52	47	42							14	
120,000	92	87	83	78	73	69	64	60	55	51	46	41	37	32	28	23		16		25
117,500	90	86	81	77	72	68	63	59	54	50	45		36		27		18			
115,000	88	84	79	75	70	66	62	57	53	48	44	40	35	31	26	22				24
112,500	86	82	78	74	69	65	61	56	52	47	43	39		30				15	13	
110,000	84	80	76	72	67	63	59	55	51	46	42	38	34	29	25	21	17			23
<b>Number of Plants in Ten Feet of Row</b>																				

**TABLE E - PLANTS PER ACRE (Page 2 of 4)**

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	(3'3')
107,500	82	78	74	70	66	62	58	54	50	45	41	37	33							
105,000	80	76	72	68	64	60	56	52	48	44	40	36	32	28	24	20	16	14	12	22
102,500	79	75	71	67	63	59	55	51	47	43	39	35								
100,000	77	73	69	65	61	57	54	50	46	42	38	34	31	27	23	19				21
97,500	75	71	67	64	60	56	53	49	45	41	37		30	26			15	13	11	
95,000	73	69	65	62	58	55	51	47	44	40	36	33	29	25	22	18				20
92,500	71	67	64	61	57	54	50	46	43	39	35	32								
90,000	69	65	62	59	55	52	48	45	41	38	34	31	28	24	21	17	14	12		18
87,500	67	64	61	57	54	51	47	44	40	37		30	27						10	
85,000	65	62	59	55	52	49	46	42	39	36	33	29	26	23	20	16	13			17
82,500	63	60	57	54	51	48	45	41	38	35	32		25	22	19			11		
80,000	61	58	55	52	49	46	43	40	37	34	31	28	24	21	18	15	12			16
77,500	59	57	54	51	48	45	42	39	36	33	30	27							9	
75,000	57	55	52	49	46	43	40	37	34	32	29	26	23	20	17	14		10		15
72,500	56	53	50	48	45	42	39	36	33	31	28	25	22				11			
70,000	54	51	48	46	43	40	37	35	32	29	27	24	21	19	16	13			8	14
67,500	52	49	47	44	42	39	36	34	31	28	26	23		18				9		
65,000	50	47	45	42	40	37	35	32	30	27	25	22	20	17	15	12	10			13
62,500	48	46	43	41	39	36	34	31	29	26	24		19						7	
60,000	46	44	41	39	37	34	32	30	28	25	23	21	18	16	14		9	8		12
	Number of Plants in Ten Feet of Row																			

**TABLE E - PLANTS PER ACRE (Page 3 of 4)**

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

## TABLE E - PLANTS PER ACRE (Page 4 of 4)

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 500. (Refer to examples below.)**

**EXAMPLE 1:** Row Width = 30 in.  
110 Original Plants in 10 ft. of Row  
 $110 \div 2 = 55$   
55 Original Plants = 95,000 plants per acre  
 $95,000 \text{ plants per acre} \times 2 = 190,000$

**EXAMPLE 2:** Row Width = 30 in.  
4 Original Plants in 10 ft. of Row  
 $4 \div 2 = 55$   
8 Original Plants = 12,500 plants per acre  
 $12,500 \text{ plants per acre} \times 2 = 6,250$  (round to 6,500)

If the planted row width is not listed on the table, divide the row width, in inches, by 12. Multiply this result by 10 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 500. (Refer to examples below.)

**EXAMPLE 1:** Row Width = 15 in.  
42 Original Plants in 10 ft. of row  
 $(15 \text{ in.} \div 12 \text{ in.}) \times 10 \text{ ft.} = 12.5$   
 $42 \div 12.5 = 3.36$   
 $3.36 \times 43,560 = 146,362$  (round to 145,000)

**EXAMPLE 2:** Row Width = 7 ½ in.  
15 Original Plants in 10 ft. of row  
 $(7.5 \text{ in.} \div 12 \text{ in.}) \times 10 \text{ ft.} = 6.5$   
 $15 \div 6.25 = 2.40$   
 $2.40 \times 43,560 = 104,544$  (round to 104,500)