United States
Department of
Agriculture

Federal Crop
Insurance
Corporation

FCIC-25440 (01-2019)
FCIC-25440-1 (11-2019)

SOYBEAN LOSS ADJUSTMENT STANDARDS HANDBOOK

2020 and Succeeding Crop Years

UNITED STATES DEPARTMENT OF AGRICULTURE
KANSAS CITY, MO 64133

TITLE: SOYBEAN LOSS ADJUSTMENT STANDARDS HANDBOOK	**NUMBER: 25440 (01-2019)** **25440-1 (11-2019)**
EFFECTIVE DATE: 2020 and Succeeding Crop Years	**ISSUE DATE: November 26, 2019**
SUBJECT: **Provides the procedures and instructions for administering the Soybean crop insurance program**	**OPI: Product Administration and Standards Division** **APPROVED:** ***/S:/ Richard Flournoy*** **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. Exhibit 3, item 21: Enter the result of subtracting column 20 from 100 percent, to tenths. If there is no direct damage, enter 100.0. If there is no plant damage (item 42), leave blank.

2. Exhibit 3, items 27 and 29: Updated instructions for consistency.

3. Exhibit 3, Appraisal Worksheet example: Corrected calculations.

4. Exhibit 4, item 27: Changed "No Cropping Practice" to "No Cropping Practice Specified."

5. Exhibit 4, Production Worksheet example - item 38: Corrected "504.4" to "504.0." Item 47b - removed field IDs. Item 72 - Corrected entry to "1662.2"

6. Exhibits 10, 11 and 12: Changed "180,000" on the lines for original population in the loss tables to "180,000 & above" to signify that the loss percentages for original populations over 180k should use the 180k line.

SOYBEAN LOSS ADJUSTMENT STANDARDS HANDBOOK

CONTROL CHART

	Soybean Loss Adjustment Standards Handbook						
	TP Page(s)	TC Page(s)	Text Page(s)	Exhibit	Exhibit Pages	Date	FCIC Number
Remove	1-4			3	23-24	01-2019	FCIC-25440
				3	29-30	01-2019	FCIC-25440
				4	37-38	01-2019	FCIC-25440
				4	51-52	01-2019	FCIC-25440
				9	61	01-2019	FCIC-25440
				10	62-64	01-2019	FCIC-25440
				11	65-67	01-2019	FCIC-25440
				12	68-70	01-2019	FCIC-25440
Insert	1-2			3	23-24	11-2019	FCIC-25440-1
				3	29-30	11-2019	FCIC-25440-1
				4	37-38	11-2019	FCIC-25440-1
				4	51-52	11-2019	FCIC-25440-1
				9	61	11-2019	FCIC-25440-1
				10	62-64	11-2019	FCIC-25440-1
				11	65-67	11-2019	FCIC-25440-1
				12	68-70	11-2019	FCIC-25440-1
Current Index	1-2	1-2	1-19	1-2	20-21	01-2019	FCIC-25440
				3	22	01-2019	FCIC-25440
				3	23-24	11-2019	FCIC-25440-1
				3	25-28	01-2019	FCIC-25440
				3	29-30	11-2019	FCIC-25440-1
				3	31	01-2019	FCIC-25440
				4	32-36	01-2019	FCIC-25440
				4	37-38	11-2019	FCIC-25440-1
				4	39-50	01-2019	FCIC-25440
				4	51-52	11-2019	FCIC-25440-1
				6-8	53-57	01-2019	FCIC-25440
				9	58-60	01-2019	FCIC-25440
				9	61	11-2019	FCIC-25440-1
				10	62-64	11-2019	FCIC-25440-1
				11	65-67	11-2019	FCIC-25440-1
				12	68-70	11-2019	FCIC-25440-1
				13-18	71-80	01-2019	FCIC-25440

FILING INSTRUCTIONS

The handbook pages listed in the Control Chart above under the “Insert” heading replace such pages in the 2019 Soybean Loss Adjustment Standards Handbook, FCIC-25440 (01-2019). This handbook is effective for the 2020 and succeeding crop years and is not retroactive to any 2019 or prior crop year determinations.

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 exhibits 10, 11, or 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, to tenths. If there is no direct damage, enter 100.0. 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 divided by the total number of samples from all pages).
27. % Potential	Enter the result of subtracting item 26 from 100 percent.
28. APH Yield	Enter the approved APH yield to nearest whole bushel from the APH form.
29. Appraisal Bu/A	Enter the result of multiplying item 27 by item 28, to the nearest tenth.

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' x 3' 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. 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 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. Transfer this entry to column 22 ("Gross").

FOR ILLUSTRATION PURPOSES ONLY

SOYBEAN APPRAISAL WORKSHEET

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: 40.5
1	R3	R5				29.0	29.0	71.0	13.6	9.7	38.7	27 % Potential: 59.5
2	R3	R5				34.0	34.0	66.0	10.4	6.9	40.9	x
3	R3	R5				34.5	34.5	65.5	11.1	7.3	41.8	28 APH Yield: 43
											25 Total: 121.4	29 Appraisal (BU/A): 25.6

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	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	
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 6.2 =	42 13.6
30 2	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	
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 2.0 + =	42 10.4
30 3	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	
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 3.2 + =	42 11.1

56 Remarks

EXAMPLE

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		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

13 Sample No.	STAGE OF GROWTH 14 DOD	15 DOA	V-STAGE 16 Original (1000)	17 Remaining (1000)	18 V-Stage Stand Reduction % Loss	19 R-Stage Plants Destroyed	20 Total Direct Damage	21 % Crop Remaining	PLANT DAMAGE 22 Gross (Item 42)	23 Net (21 x 22)	24 Total Damage (20 + 23)
						yyyy					
1	R3	R5				29.0	29.0	71.0	14.8	10.5	39.5
2	R3	R5				34.0	34.0	66.0	8.4	5.5	39.5
3	R3	R5				34.5	34.5	65.5	8.5	5.6	40.1
											25 Total 119.1

COMPUTATIONS

26 Sample Average Damage: 39.7

27 % Potential: 60.3

x

28 APH Yield: 43

=

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 1	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	
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 2	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	
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 3	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	
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 = 8.5

56 Remarks

EXAMPLE

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

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 Specified" or "No Practice Specified" is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If a cropping practice is not specified on the actuarial documents, make no entry.
28. Organic Practice	Three-digit code number, entered exactly as specified on the actuarial documents for the organic practice carried out by the insured. If "No Organic Practice Specified" is shown in the actuarial documents, enter the appropriate three-digit code number from the actuarial documents (e.g., 997). If an organic practice is not specified on the actuarial documents, make no entry.
29. Stage	**Preliminary:** Make no entry. **Replant:** Replant stage abbreviation as shown below. **Stage** — **Explanation** "R"..... Acreage replanted and qualifying for replanting payment. "NR"..... Acreage not replanted. "RN"……..……. Acreage replanted and not qualified for a replanting payment.

Element/Item Number	Standard
29. Stage (Continued)	**Final:** Stage abbreviation as shown below. **Stage** — **Explanation** "P"..... Acreage abandoned without consent, put to other use without consent, damaged solely by uninsured causes, or for which the insured failed to provide acceptable records of production to the AIP. "H"..... Harvested. "UH"..... Unharvested or put to other use with consent. "TZ" ..... UUF/Third Party Damage – Zero production on same acreage. "TA" ..... UUF/ Third Party Damage – Appraised production on same acreage. "TH" ..... UUF/Third Party Damage – Harvested production on same acreage. **Prevented Planting:** Refer to the PPSH for proper codes for any eligible prevented planting acreage. **Gleaned Acreage:** Refer to the LAM for information on gleaning.
30. Use of Acreage	Use of acreage. Use the following "Intended Use" abbreviations. **Use** — **Explanation** "Replant"…… Acreage replanted "Not Replanted"…….. Acreage not replanted "To Millet"…… Use made of the acreage "WOC"…… Other use without consent "SU"…… Solely uninsured "ABA"…… Abandoned without consent "H"……..… Harvested "UH"……... Unharvested 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. **Prevented Planting:** Refer to the PPSH for proper codes for any eligible prevented planting acreage. **Gleaned Acreage:** Refer to the LAM for information on gleaning.

Form Standards - Production Worksheet (Continued)

PRODUCTION WORKSHEET

1. Crop/Code #	2. Unit #	3. Location Description			
SOYBEANS 0081	0002-0002-BU	SE6-140N-50W			
4. Date(s) of Damage	JUN 10	AUG			
5. Cause(s) of Damage	HAIL	DROUGHT			
6. Insured Cause %	40	60			
12. Additional Units	0001-0001 BU				
13. Est. Prod. Per Acre	40				

7. Company: ANY COMPANY
Agency: ANY AGENCY

8. Name of Insured			
I.M. INSURED			
9. Claim # XXXXXXXX		11. Crop Year YYYY	
10. Policy # XXXXXX			
14. Date(s) Notice of Loss	1st MM/DD/YYYY	2nd	Final MM/DD/YYYY
15. Companion Policy(s)			

SECTION I – DETERMINED ACREAGE APPRAISED, PRODUCTION AND ADJUSTMENTS

A. ACTUARIAL

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
A	NS		9.2	1.000		997					002		UH	PLOWED
B	NS		18.0	1.000		997					002		P	WOC
C	NS		56.0	1.000		997					002		H	H
39. TOTAL			83.2											

B. POTENTIAL YIELD

31. Appraised Potential	32a. / 32b. Moisture % / Factor	33. Shell %, Factor, or Value	34. Production Pre QA	35. Quality Factor	36. Production Post QA	37. Uninsured Causes	38. Total to Count
18.1			166.5		166.5		166.5
						504.0	504.0
42. TOTALS			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 MM/DD/YYYY	44. Damage similar to other farms in the area?	45. Assignment of Indemnity	46. Transfer of Right to Indemnity?
	Yes [X] No [ ]	Yes [ ] No [X]	Yes [ ] No [X]

A. MEASUREMENTS

47a. / 47b. Share / Field ID	48. Multi-Crop Code	49. Length or Diameter	50. Width	51. Depth	52. Deduction
	NS	ACME ELEVATOR ANYTOWN, ANY STATE			
	NS	14.0	RND	10.0	

B. GROSS PRODUCTION

53. Net Cubic Feet	54. Conversion Factor	55. Gross Prod.	56. Bu (Ton) Lbs. CWT
			530.1
1,539.4	.8	1231.5	

C. ADJUSTMENTS TO HARVESTED PRODUCTION

57. Shell/ Sugar Factor	58a. / 58b. FM% / Factor	59a. / 59b. Moisture % / Factor	60a. / 60b. Test WT / Factor	61. Adjusted Production	62. Prod. Not to Count	63. Production Pre-QA	64a. / 64b. Value / Mkt. Price	65. Quality Factor	66. Production to Count
	1.0 / .990			524.8		524.8		.825	433.0
		16.7 / .9556	52 / .903	1,062.7		1,062.7			
				67. TOTAL		1,587.5			

68. Section II Total	1,495.7
69. Section I Total	670.5
70. Unit Total	2,166.2
71. Allocated Prod.	1,062.7
72. Total APH Prod.	1,662.2

This form example does not illustrate all required entry items (e.g., signature, dates, etc.). Refer to the above Appraisal Worksheet instructions for required statements and signature entries.

EXAMPLE

Form Standards - Production Worksheet (Continued)

PRODUCTION WORKSHEET

1. Crop/Code #	2. Unit #	3. Location Description	7. Company	ANY COMPANY
SOYBEANS 0081	0002-0002 BU	SW1-96N-3W	Agency	ANY AGEMCY

8. Name of Insured			
I.M. INSURED			
9. Claim #		11. Crop Year	
XXXXXXXX		YYYY	
10. Policy #	XXXXXXXXXX		
14. Date(s) Notice of Loss	1st MM/DD/YYYY	2nd	Final MM/DD/YYYY
15. Companion Policy(s)			

4. Date(s) of Damage	JUN 10				
5. Cause(s) of Damage	HAIL				
6. Insured Cause %	100				
12. Additional Units					
13. Est. Prod. Per Acre					

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. / 32b. Moisture % / 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. / 32b. Moisture % / 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.

EXAMPLE

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
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.

95,000

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/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 & above	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 & above	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 & above	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					19	22				34	37						65	71	78	84	92	100
72,500			0	1	2	3	4	6	7	9	11	11	13	12	15	14	17	16	19	21	25	24	27	27	30	30	33	37	41	41	45	45	50	49	54	54	60	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 (000s 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 & above	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 (000s 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 & above	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 (000s 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 & above	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 (000s 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		34	37				51	54						78	82	86	91	95	100
72,500			0	2	5	7	10	12	15	18	21	23	26	31	29	33	36	40	39	44	42	47	46	49	53	58	57	62	61	65	65	69	69	73	73	77	81	86	90	95	100
70,000				0	2	5	8	10	13	16	19	22	25		31	34				48	52						76	81	86	90	95	100
67,500					0	3	5	8	11	14	17	20	23	28	26	29	33	38	36	41	40	45	43	47	51	56	55	60	59	64	63	68	67	72	71	76	80	85	90	95	100
65,000						0	3	6	8	11	14	17	21		27	31				45	49						75	80	85	90	95	100
62,500							0	3	6	9	12	15	18	24	22	25	29	34	32	38	36	42	40	44	48	53	52	58	56	62	61	66	65	71	70	75	79	84	89	95	100
60,000								0	3	6	9	13	16		23	27				42	46						74	79	84	89	94	100
57,500									0	3	7	10	13	20	17	21	24	30	28	34	32	38	36	40	45	51	49	55	54	60	58	64	63	69	68	73	78	83	89	94	100
55,000										0	3	7	11		18	22				38	43						72	77	83	88	94	100
52,500											0	4	7	14	11	15	19	26	23	30	28	34	32	36	41	47	46	52	50	57	55	62	60	67	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 (000s 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 & above	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 (000s 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 & above	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 (000s 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 & above	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 (000s 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																															