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Federal Crop Insurance Corporation

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TRENDADJUSTED ACTUAL PRODUCTION HISTORY STANDARDS HANDBOOK

2015 and Succeeding Crop Years

RISK MANAGEMENT AGENCY KANSAS CITY, MO 64133

TITLE: TREND-ADJUSTED ACTUAL	NUMBER: FCIC-20220
PRODUCTION HISTORY	
STANDARDS HANDBOOK	
EFFECTIVE DATE: Effective Upon	ISSUE DATE: June 10, 2014
Approval and Until Obsoleted	
SUJECT:	OPI: PRODUCT ADMINISTRATION
	AND STANDARDS DIVISON
Provides the procedures to administer the	APPROVED:
Trend-Adjusted Actual Production	
History Program	/s/ Tim B. Witt
	Deputy Administrator For Product
	Management

REASON FOR AMENDMENT

The FCIC 20220 Trend-Adjusted APH Standards Handbook is being amended to correct a typographical error contained in the 2014 issuance.

${\bf TREND\text{-}ADJUSTED\ ACTUAL\ PRODUCTION\ HISTORY\ STANDARDS\ HANDBOOK}$

CONTROL CHART

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PART 1 OVERVIEW AND GENERAL REQUIREMENTS

1 Overview

Trend-Adjusted APH, if elected, adjusts yields in APH databases to reflect increases in yields through time in the county. Trend adjustments are made on each eligible yield within a qualifying APH database based on the county's historical yield trend. The actuarial documents provide the historical yield trend. The approved APH yield is calculated using trend-adjusted yields and any other applicable yields within the APH database.

2 Availability

See actuarial documents for the applicable county/crop/P/Ts available for Trend-Adjusted APH.

3 Eligibility

A. Insureds' Eligibility

An insured must be in an eligible county and have at least one APH database with an actual yield in one of the four most recent crop years for the crop/county.

B. Election

To be applicable for the current crop year, the insured must elect Trend-Adjusted APH:

- (1) By the applicable SCD;
- (2) On a crop/county basis; and
- (3) On an application or policy change form by including the option code of "TA".

C. Coverage Levels

Trend–Adjusted APH is available for additional coverage level policies. Trend–Adjusted APH is not available for CAT policies.

D. Continuous

Trend-Adjusted APH is a continuous election that remains in effect unless:

- (1) Cancelled in writing on or before the applicable cancellation date for the effective crop year; or
- (2) Terminated by the FCIC.

E. Cancellation of Trend-Adjusted APH by Insured

When an insured cancels Trend-Adjusted APH:

- (1) Trend adjustments to any yield will no longer apply;
- (2) If SA T-Yields were calculated from approved APH yields containing actual yields with trend adjustments, the SA T-Yields must be replaced with the variable T-Yield;
- (3) The 10 percent yield limitation (cup) will not apply the year trend is cancelled; and
- (4) Yield substitution and yield floors may apply, when elected, and as applicable.

F. Termination of Trend-Adjusted APH by FCIC

If Trend-Adjusted APH is terminated by FCIC:

- (1) Trend adjustments to any yield will no longer apply;
- (2) If SA T-Yields were calculated from approved APH yields containing actual yields with trend adjustments, SA T-Yields must be recalculated based on the current year's approved APH yields without trend adjustments;
- (3) The 10 percent limitation (cup) will not apply the year trend is terminated; and
- (4) Yield substitution and yield floors may apply, when elected, and as applicable.

G. Transfers

When the crop's policy is transferred to a different AIP, Trend–Adjusted APH will be considered cancelled at the time the crop policy is cancelled. If the crop policy is transferred to a different AIP, the insured may elect Trend–Adjusted APH with the assuming AIP on or before the SCD.

4 Applicability of Yield Limitations, Yield Adjustments and Yield Reductions

A. Yield Limitations

If Trend-Adjusted APH is elected for a crop/county, yield limitations do not apply regardless of whether or not an APH database qualifies for trend adjustment.

Exception: If Trend-Adjusted APH is elected for a crop/county and the actuarial documents do not authorize a yield trend for a specific P/T, yield

limitations are applicable for those APH databases.

4 Applicability of Yield Limitations, Yield Adjustments and Yield Reductions (cont.)

B. Yield Adjustments (Substitutions)

Yield substitutions apply when elected by the insured. Yield substitutions are based on 60 percent of the applicable T-Yield before adjustment for yield trend, as applicable.

C. Yield Reductions

Procedures concerning yield reductions contained in the CIH Part 12 Section 4 are unaffected when Trend–Adjusted APH is elected.

- (1) Actual yields that have been reduced due to excessive yields are not eligible for trend adjustment. [See CIH Paragraph 1253 for excessive actual yield procedures].
- (2) Reductions of approved APH yields due to inconsistent approved APH yields or different production methods will apply even when yields within the APH database have been adjusted for trend. [See CIH Paragraph 1254 and 1255 for reductions due to inconsistent approved APH yields or different production methods].

5-10 (Reserved)

PART 2 APPLICABILITY OF TREND-ADJUSTED APH

11 APH Database Qualifications

- (1) The APH database must have at least an actual yield in one of the four most recent crop years.
- (2) If the APH database contains fewer than four actual yields in the 12 most recent crop years the trend adjustment is reduced. [See Part 3 Paragraph 21B for the applicable percentage of reduction].
- (3) For the purposes of Trend-Adjusted APH, yields identified with the following yield descriptors are considered actuals: A, AY, NA, PA, DA, P, J, NW, PW, WY, and AX [see CIH Exhibit 12].

12 Yields Eligible for Trend Adjustment

Yields contained in a qualifying APH database identified with the following yield descriptors are eligible for trend adjustment: A, AY, NA, PA, DA, NW, PW, and WY [see CIH Exhibit 12].

13 Yield Not Eligible for Trend Adjustment

A. Added Land and New Crop/Practice/Type (P/T)

For Added land and new crop/P/T APH databases using SA T-Yields identified with an "L", "IL", or "C" yield descriptors, trend adjustments do not apply. Trend adjustments only apply to actual yields. The SA T-Yield is calculated using the approved APH yield of the existing APH databases (if Trend–Adjusted APH is elected, the approved APH yields may include trend adjustment).

B. New Producer

New producer APH databases with trend-adjustment will not apply to new producer T-Yields. New producer T-Yields (identified with an "I" or "IL" yield descriptor) will not be adjusted for trend.

C. North Dakota Personal Transitional Yield (PTY)

For APH databases using the PTY (identified with the "K" yield indicator), T-Yields based on the PTY will not be adjusted for trend. Trend-Adjusted APH does not change the PTY calculation. The PTY is calculated by dividing total production by the total acreage for a crop/P/T/TMA for each year, with the sum of all years divided by the number of years. Therefore, actual yields are not trended in the PTY calculation. However, actual yields within the APH database may be trend adjusted.

14 Written Agreements

Trend-Adjusted APH will not apply to any APH databases insured under a written agreement, with the following exceptions:

- (1) High Risk Land Written Agreement (HR); and
- (2) Written Unit Agreement (UA).

15 Production Reporting

Selecting Trend-Adjusted APH requires no additional production reporting by the insured.

16-20 (Reserved)

PART 3 CALCULATIONS

21 Trend-Adjusted APH Calculation

The following subparagraphs explain the process and calculations of the Trend-Adjusted APH program.

A. Crop/County Trend Adjustment

Each eligible crop/county/P/T will have a trend adjustment established in the actuarial documents.

B. Applicable Trend Adjustment Percentages

Each eligible yield in a qualifying APH database will be adjusted by the applicable trend adjustment percentage determined by the number of actual yields in the previous 12 crop years in the APH database [see Part 2 Paragraph 11 above for applicable actual yields]. The applicable trend adjustment percentages are as follows:

- (1) One actual yield = 25 percent of trend adjustment;
- (2) Two actual yields = 50 percent of trend adjustment;
- (3) Three actual yields = 75 percent of trend adjustment; or
- (4) Four or more actual yields = 100 percent of trend adjustment.

C. Trend Adjustment for Age of Eligible Yield

The trend adjustment is applied to each eligible yield in a qualifying APH database and will be adjusted upward by the trend adjustment multiplied by the age of the eligible yield. The age of the eligible yield is determined by subtracting the yield year from the current crop year.

Example: The crop year is 2014, the trend adjustment is 2 in the actuarial documents, and the insured has eligible yields in 2013, 2012, 2011 and 2010 crop years. Below are the trend adjustments to be applied for each specific yield year:

- (1) 2013 (2014-2013) * 2 bushels = 2,
- (2) 2012 (2014-2012) * 2 bushels = 4,
- (3) 2011 (2014-2011) * 2 bushels = 6, and
- (4) 2010 (2014-2010) * 2 bushels = 8.

D. Applying Trend Adjustment

The trend adjustment, adjusted by the applicable trend adjustment percentage, will be added to each eligible yield [see Part 2 Paragraph 12] in each qualifying APH database. This is a calculation only, the yields within the APH database remain unchanged.

E. Calculation of Approved APH Yield

The calculation of the approved APH yield is unchanged, except trend adjustments are applied to eligible yields before averaging.

F. Calculation of the Rate Yield

The rate yield is equal to the average yield when Trend-Adjusted APH applies to an APH database with the following exceptions:

- (1) the approved APH yield is reduced due to Inconsistent Approved APH Yields [see CIH Paragraph 1254 for Inconsistent Approved APH Yield determination procedures]. In these situations, the rate yield will be equal to the approved APH yield; and
- (2) the approved APH yield is reduced due to Different Production Methods being carried out for the current crop year which results in lower actual yields [see CIH Paragraph 1255 for Different Production Method determination procedures]. In these situations, the rate yield will be equal to the approved APH Yield.

G. Calculation of Adjusted Yield (APH Yield without Trend Adjustment)

AIPs must also calculate the adjusted yield which is the APH yield without Trend Adjustment and is calculated by the average of the yields in the APH database:

- (1) without trend adjustment;
- (2) without yield limitations (cups and yield floors); and
- (3) with yield substitutions, if YA has been elected by the insured.

The adjusted yield is not the same as the rate yield. The increase in coverage resulting from the Trend-Adjusted APH yield relative to the APH yield without Trend Adjustment (Adjusted Yield) is used to determine the appropriate premium rate.

Exception: When yield reductions apply to the APH database the Adjusted Yield must equal the approved APH yield.

H. Trend Adjustment Limitation of the Approved APH Yield

The approved APH yield for the APH database is limited to the highest actual yield in the APH database with 1 year of trend adjustment applied.

Example: The highest actual yield within the APH database is 150 bushels and the trend adjustment is 2. Therefore, the trend adjustment limitation is 152 (150+2). The average of all yields in the APH database is 154; however, the approved APH yield is limited to 152 due to the trend adjustment limitation.

H. Trend Adjustment Limitation of the Approved APH Yield (cont.)

Exception: The approved APH yield will not be less than the adjusted yield [see G

above].

Example: The applicable T-Yield is 100 bushels and the trend

adjustment factor is 2. The APH database has only one actual yield equal to 10 bushels, Therefore, the trend adjustment limitation is 12 (10+2). Due to this exception,

the approved APH yield would be 90 bushels

(100T+100T+100T+10A/4 years = 90), rather than being

limited to 12 bushels due to the trend adjustment

limitation.

22 Steps for Calculating the Approved APH Yield When Trend-Adjusted APH Elected

Follow the steps below to calculate the approved APH yield for an APH database when Trend-Adjusted APH elected.

- Step 1: Determine if the APH database has at least an actual yield in one of the four most recent crop years to determine if the APH database qualifies for trend adjustment. If not, APH database is not eligible for trend adjustment. If there is, continue to next step;
- **Step 2:** Determine the number of actual yields in the most recent 12 crop years to determine the trend adjustment percentage for the APH database [see 21B above];
- **Step 3:** Multiply the trend adjustment contained in the actuarial documents by the trend adjustment percentage determined in Step 2. Round result to four decimal places;
- **Step 4:** Determine age of each eligible yield [see 21C above];
- **Step 5:** Multiply the age of each eligible yield by the trend adjustment, adjusted by applicable trend adjustment percentage determined in Step 3. Round result to four decimal places;
- **Step 6:** Add the result of step 5 to each eligible yield to obtain the trend adjustment yield for each crop year [see 21D above]. Round result to whole number;
- Step 7: Calculate the approved APH yield by summing trend-adjusted yields and all other yields within the APH database and dividing by the number of yields in the APH database [see 21E]; and

22 Steps for Calculating the Approved APH Yield When Trend-Adjusted APH Elected (cont.)

Step 8: Compare the approved APH yield to the trend adjustment limitation [see 21H

above]. If the approved APH yield is less than the trend adjustment limitation, then the final approved APH yield equals the Trend-Adjusted APH yield from step 7. If the yield calculated in step 7 is greater than the trend adjustment limitation, then the final approved APH yield equals the trend adjustment

limitation.

Step 9: Calculate the adjusted yield [see 21G above].

23-30 (Reserved)

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

Approved Acronyms/Abbreviations	Term
AIP	Approved Insurance Provider
APH	Actual Production History
CAT	Catastrophic Risk Protection
CIH	Crop Insurance Handbook
FCIC	Federal Crop Insurance Corporation
PASS	Policy Acceptance Storage System
PTY	Personal Transitional Yield
P/T	Practice/Type
RMA	Risk Management Agency
SA T-Yield	Simple Average Transitional-Yield
SCD	Sales Closing Date
T-Yield	Transitional-Yield

(Reserved)

(Reserved)

Insured has produced corn in a single basic unit (BU) APH database since 2010. The county T-Yield is 166 bushels. For 2014, the insured has elected YA (60 percent of T-Yield = 100 bushels); however, it does not apply to any of the actual yields reported. The insured has also elected Trend-Adjusted APH. The trend adjustment for corn in the insured's county is 2. The insured provides an acceptable production report in 2014 and APH database is updated.

	Original Arn Database						
2014		Corn (0041)	NI (003)	Grain (016)			
Unit #	0001-00	00 BU					
Year	Prod.	Acres		Yield			
2010	22500	150	A	150			
2011	19300	100	A	193			
2012	26400	150	A	176			
2013	19700	100	A	197			
T-Yield=166 Approved APH		ed APH	179				
		Average	179				
		Rate Yi	179				

To calculate the approved APH yield using trend adjustment:

- **Step 1:** The APH database has at least an actual yield in one of the four most recent crop years, qualifying for trend adjustment.
- **Step 2:** The APH database has four actual yields in the most recent 12 crop years; therefore, the applicable trend adjustment percentage is 100 percent.
- **Step 3:** 1.00 * 2 = 2
- **Step 4:** (a) 2013: 2014 2013 = 1
 - (b) 2012: 2014 2012 = 2
 - (c) 2011: 2014 2011 = 3
 - (d) 2010: 2014 2010 = 4
- **Step 5:** (a) 2013: 1 * 2 = 2
 - (b) 2012: 2 * 2 = 4
 - (c) 2011: 3*2=6
 - (d) 2010: 4*2=8
- **Step 6:** (a) 2013: 197 + 2 = 199
 - (b) 2012: 176 + 4 = 180
 - (c) 2011: 193 + 6 = 199
 - (d) 2010: 150 + 8 = 158
- **Step 7:** (199 + 180 + 199 + 158) / 4 = 184

Step 8: 184 < (197 + 2 = 199). Approved APH yield = 184

Step 9: (197 + 176 + 193 + 150) / 4 = 179. APH Yield without Trend Adjustment = 179

Resulting APH database:

Resulting Al II database.						
2014	Corn		NI	Grain		
	(0041)		(003)	(016)		
Unit # 0001-0000 BU						
Year	Prod.	Acres		Yield		
2010	22500	150	A	150		
2011	19300	100	A	193		
2012	26400	150	A	176		
2013	19700	100	A	197		
T-Yiel	d=166	6 Approved APH		184		
		Average Yield		179		
		Rate Yield		179		

The insured has elected Trend-Adjusted APH for corn in the county. The insured has five optional units (OU). The county T-Yield is 130 bushels (60 percent of the T-Yield = 78) and the insured has elected yield substitution (YA). The trend adjustment from the actuarial documents for the crop/county is 2 bushels a year. The five APH databases below are prior to any trend adjustment.

Original APH Databases

Original A					
2014	Corn	NI	Grain		
	(0041)	(003)	(0)	16)	
Unit #	0001-0001 OU				
<u>Year</u>	Production	Acres		Yield	
2004	19950	150	A	133	
2005	14500	100	A	145	
2006	25050	150	A	167	
2007	12200	100	A	122	
2008	23550	150	A	157	
2009	16500	100	A	165	
2010	25650	150	A	171	
2011	19300	100	A	193	
2012	26400	150	A	176	
2013	19700	100	A	197	
T-Y	T-Yield = 130 Approved APH			163	
Average Yield			163		
	Rate Yield				

H Datal 2014	Corn	NI	Gı	ain
2014	(0041)	(003)	_	16)
TT . *4 #	, ,	` ,	(0	10)
Unit #	0001-0002 OI	J .		
Year	Productio	n Acres		Yield
2005			T	130
2006			Z	
2007			Z	
2008	11600	80	A	145
2009			Z	
2010			Z	
2011	12160	80	A	152
2012			Z	
2013	11840	80	A	148
T-Yie	d = 130	Approve	d APH	144
		Average	Yield	144
		Rate Yiel	ld	144

2014	Corn (0041)	NI (003)	Grain (016)	
Unit #	0001-0003 OU	J		
Year	Production	Acres		Yield
1995	0	200	A	0
1998	27600	200	A	138
2000	29400	200	A	147
2007			Z	
2008			Z	
2009			Z	
2010	40200	200	A	201
2011			Z	
2012			Z	
2013	33400	200	A	167
T-Yield = 130 A		Approved A	PH	146
		Average Yield		131
		Rate Yield		131

2014	Corn (0041)	NI (003)	_	rain 016)
Unit #	0001-0004 OU	` ′		
Year	Production	Acres		Yield
2010			Т	130
2011			Т	130
2012			Т	130
2013	5840	40	A	146
T-Yie	ld = 130	Approved	APH	134
		Average Y	Average Yield	
		Rate Yield	Rate Yield	

Original	APH	Databases	(cont.)

Original Al II Databases (cont.)						
2014	Corn (0041)	NI (003)	Grain (016)			
Unit # 00	Unit # 0001-0005 OU					
Year	Production	Acres		Yield		
2008			L	154		
2009			L	154		
2010			L	154		
2011			L	154		
2012			Z			
2013			Z			
T-Yield = 154 Approved API			APH	154		
		Average Yield		154		
		Rate Yield		154		

A. Example of APH database with Full Trend Adjustment

- **Step 1:** The APH database for 0001-0001 has at least an actual yield in one of the four most recent crop years, qualifying for trend adjustment.
- **Step 2:** The APH database has 10 actual yields in the most recent 12 crop years; therefore, the applicable trend adjustment percentage is 100 percent.

Step 3:
$$1.00 * 2 = 2$$

Step 4: (a)
$$2013: 2014 - 2013 = 1$$

(b)
$$2012$$
: $2014 - 2012 = 2$

(c)
$$2011: 2014 - 2011 = 3$$

(d)
$$2010$$
: $2014 - 2010 = 4$

(e)
$$2009: 2014 - 2009 = 5$$

(f)
$$2008$$
: $2014 - 2008 = 6$

(g)
$$2007$$
: $2014 - 2007 = 7$

(h)
$$2006$$
: $2014 - 2006 = 8$

(i)
$$2005$$
: $2014 - 2005 = 9$

(i)
$$2004$$
: $2014 - 2004 = 10$

Step 5: (a) 2013: 1 * 2 = 2

(b)
$$2012$$
: $2 * 2 = 4$

(c) 2011:
$$3 * 2 = 6$$

(d) 2010:
$$4 * 2 = 8$$

(f) 2008:
$$6 * 2 = 12$$

(g) 2007:
$$7 * 2 = 14$$

(h) 2006:
$$8 * 2 = 16$$

A. Example of APH database with Full Trend Adjustment (cont.)

Step 5: (cont.)

(i) 2005: 9 * 2 = 18(j) 2004: 10 * 2 = 20

Step 6: (a) 2013: 197 + 2 = 199

(b) 2012: 176 + 4 = 180

(c) 2011: 193 + 6 = 199

(d) 2010: 171 + 8 = 179

(e) 2009: 165 + 10 = 175

(f) 2008: 157 + 12 = 169

(g) 2007: 122 + 14 = 136

(h) 2006: 167 + 16 = 183

(i) 2005: 145 + 18 = 163

(i) 2004: 133 + 20 = 153

Step 7:
$$(199 + 180 + 199 + 179 + 175 + 169 + 136 + 183 + 163 + 153) / 10 = 174$$

Step 8:
$$174 < (197 + 2 = 199)$$
. Approved APH yield = 174

Step 9: (197 + 176 + 193 + 171 + 165 + 157 + 122 + 167 + 145 + 133) / 10 = 163APH Yield without Trend Adjustment = 163.

Resulting APH Database

	Resulting Al II Database					
2014	Corn	NI	G	Frain		
	(0041)	(003)	(016)		
Unit #	Unit # 0001-0001 OU					
Year	Production	Acres	Acres			
2004	19950	150	A	133		
2005	14500	100	A	145		
2006	25050	150	A	167		
2007	12200	100	A	122		
2008	23550	150	A	157		
2009	16500	100	A	165		
2010	25650	150	A	171		
2011	19300	100	A	193		
2012	26400	150	A	176		
2013	19700	100	A	197		
T-Yield = 130 Approved APH		174				
		Average Yield		163		
		Rate Yield		163		

B. Example of APH database with 75 percent of Trend Adjustment

- The APH database for 0001-0002 has at least an actual yield in one of the four Step 1: most recent crop years, qualifying for trend adjustment.
- The APH database has three actual yields in the most recent 12 crop years; Step 2: therefore, the applicable trend adjustment percentage is 75 percent.
- Step 3: 0.75 * 2 = 1.5
- **Step 4:** (a) 2013: 2014 - 2013 = 1
 - (b) 2011: 2014 2011 = 3(c) 2008: 2014 - 2008 = 6

 - (d) 2005: not eligible for trend
- Step 5: (a) 2013: 1 * 1.5 = 1.5
 - (b) 2011: 3 * 1.5 = 4.5
 - (c) 2008: 6 * 1.5 = 9
 - (d) 2005: not eligible for trend
- (a) 2013: 148 + 1.5 = 149.5Step 6:
 - (b) 2011: 152 + 4.5 = 156.5
 - (c) 2008: 145 + 9 = 154
 - (d) 2005: 130 + 0 = 130
- **Step 7:** (150 + 157 + 154 + 130) / 4 = 148
- **Step 8:** 148 < (152 + 2 = 154). Approved APH yield = 148
- Step 9: (148 + 152 + 145 + 130) / 4 = 144. APH Yield without Trend Adjustment = 144.

B. Example of APH database with 75 percent of Trend Adjustment (cont.)

Resulting APH Database

	Resulting ATTI Database						
2014	Corn	NI	Grain				
	(0041)	(003)	(016)				
Unit #	Unit # 0001-0002 OU						
Year	Production	Acres		<u>Yield</u>			
2005			Т	130			
2006			Z				
2007			Z				
2008	11600	80	A	145			
2009			Z				
2010			Z				
2011	12160	80	A	152			
2012			Z				
2013	11840	80	A	148			
T- Y	T-Yield = 130 Approved APH			148			
		Average APH		144			
		Rate Yield		144			

C. Example of APH database with 50 percent of Trend Adjustment

- **Step 1:** The APH database for 0001-0003 has at least an actual yield in one of the four most recent crop years, qualifying for trend adjustment.
- **Step 2:** The APH database has two actual yields in the most recent 12 crop years; therefore, the applicable trend adjustment percentage is 50 percent.

Step 3:
$$0.50 * 2 = 1$$

(c) 2000: 2014 – 2000 = 14 (d) 1998: 2014 – 1998 = 16

(e) 1995: 2014 – 1995= 19

Step 5: (a) 2013:
$$1 * 1 = 1$$

(b) 2010: 4 * 1 = 4

(c) 2000: 14 * 1 = 14

(d) 1998: 16 * 1 = 16

(e) 1995: 19 * 1 = 19

Step 6: (a) 2013: 167 + 1 = 168

C. Example of APH database with 50 percent of Trend Adjustment (cont.)

Step 6: (cont.)

(b) 2010: 201 + 4 = 205

(c) 2000: 147 + 14 = 161

(d) 1998: 138 + 16 = 154

(e) 1995: 78 + 19 = 97 (78 is used due to YA election)

Step 7: (168 + 205 + 161 + 154 + 97) / 5 = 157

Step 8: 157 < (201 + 2 = 203). Approved APH yield = 157

Step 9: (167 + 201 + 147 + 138 + 78) / 5 = 146. APH Yield without Trend Adjustment = 146.

Resulting APH Database

Resulting III Database						
2014	Corn	NI (002)		Grain (01.6)		
	(0041)	(003)		(016)		
Unit #	Unit # 0001-0003 OU					
Year	Production	Acres		<u>Yield</u>		
1995		200	A	0		
1998	27600	200	A	138		
2000	29400	200	A	147		
2007			Z			
2008			Z			
2009			Z			
2010	40200	200	A	201		
2011			Z			
2012			Z			
2013	33400	200	A	167		
T-Yield = 130 Appr		Approve	ed APH	157		
		Average Yield		131		
		Rate Yie	eld	131		

D. Example of APH database with 25 percent of Trend Adjustment

- **Step 1:** The APH database for 0001-0004 has at least an actual yield in one of the four most recent crop years, qualifying for trend adjustment.
- **Step 2:** The APH database has one actual yield in the most recent 12 crop years; therefore, the applicable trend adjustment percentage is 25 percent.

Step 3: 0.25 * 2 = 0.5

D. Example of APH database with 25 percent of Trend Adjustment (cont.)

Step 4: (a) 2013: 2014 - 2013 = 1

(b) 2012: not eligible for trend

(c) 2011: not eligible for trend

(d) 2010: not eligible for trend

Step 5: (a) 2013: 1 * 0.5 = 0.5

(b) 2012: not eligible for trend

(c) 2011: not eligible for trend

(d) 2010: not eligible for trend

Step 6: (a) 2013: 146 + 0.5 = 146.5

(b) 2012: 130 + 0 = 130

(c) 2011: 130 + 0 = 130

(d) 2010: 130 + 0 = 130

Step 7:
$$(147 + 130 + 130 + 130) / 4 = 134$$

Step 8:
$$134 < (146 + 2 = 148)$$
. Approved APH yield = 134

Step 9: (146 + 130 + 130 + 130) / 4 = 134. APH Yield without Trend Adjustment = 134.

Resulting APH Database

2014	Corn	NI	Grain	
	(0041)	(003)	(016)	
Unit #	0001-0004 OU	J		
Year	Production	Acres		Yield
2010			T	130
2011			T	130
2012			T	130
2013	5840	40	A	146
T-Yield = 130 A		Approved	l APH	134
		Average Yield		134
		Rate Yield		134

E. Example of APH database with no Trend Adjustment

Step 1: The APH database for 0001-0005 does not have at least an actual yield in one of the four most recent crop years; therefore, does not qualify for trend adjustment.

Resulting APH Database

	Resulting A	1		
2014	Corn	NI	Grain	
	(0041)	(003)	(016)	
Unit # 000	1-0005 OU			
Year	Production	Acres		Yield
2008			L	154
2009			L	154
2010			L	154
2011			L	154
2012			Z	
2013			Z	
T-Yield = 154 Approved APH				154
		Average `	Yield	154
		Rate Yield		154