

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). <p style="text-align: center;">▶ Complete all entries in accordance with the instructions to the Form 5500.</p>	OMB Nos. 1210-0110 1210-0089 <div style="text-align: center; font-size: 24pt; font-weight: bold;">2017</div> This Form is Open to Public Inspection
---	---	---

Part I	Annual Report Identification Information
For calendar plan year 2017 or fiscal plan year beginning <u>04/01/2017</u> and ending <u>03/31/2018</u>	
A This return/report is for:	☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) ____
B This return/report is:	☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)
C If the plan is a collectively-bargained plan, check here.	☐
D Check box if filing under:	☒ Form 5558 ☐ automatic extension ☐ the DFVC program ☐ special extension (enter description)

Part II	Basic Plan Information—enter all requested information				
1a Name of plan <u>THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">1b Three-digit plan number (PN) ▶</td> <td style="width: 20%; text-align: center;">020</td> </tr> <tr> <td colspan="2">1c Effective date of plan <u>07/01/1980</u></td> </tr> </table>	1b Three-digit plan number (PN) ▶	020	1c Effective date of plan <u>07/01/1980</u>	
1b Three-digit plan number (PN) ▶	020				
1c Effective date of plan <u>07/01/1980</u>					
2a Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) <u>HEARTLAND COOPERATIVE</u> <u>PO BOX 71399</u> <u>DES MOINES, IA 50325-0399</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>2b Employer Identification Number (EIN) <u>42-0242420</u></td> </tr> <tr> <td>2c Plan Sponsor's telephone number <u>515-225-1334</u></td> </tr> <tr> <td>2d Business code (see instructions) <u>115110</u></td> </tr> </table>	2b Employer Identification Number (EIN) <u>42-0242420</u>	2c Plan Sponsor's telephone number <u>515-225-1334</u>	2d Business code (see instructions) <u>115110</u>	
2b Employer Identification Number (EIN) <u>42-0242420</u>					
2c Plan Sponsor's telephone number <u>515-225-1334</u>					
2d Business code (see instructions) <u>115110</u>					

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	12/31/2018	KELLY HAYERTZ
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE	Filed with authorized/valid electronic signature.	01/02/2019	TOM HAUSCHEL
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2017)
v. 170203

3a Plan administrator's name and address ☐ Same as Plan Sponsor ASSOCIATED BENEFITS CORPORATION 1415 28TH STREET, SUITE 100 WEST DES MOINES, IA 50266-1450	3b Administrator's EIN 42-1279416 3c Administrator's telephone number 515-226-0303 <div style="background-color: #cccccc; height: 40px; width: 100%;"></div>
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name	4b EIN 4d PN
5 Total number of participants at the beginning of the plan year	5 952
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d).	
a(1) Total number of active participants at the beginning of the plan year	6a(1) 450
a(2) Total number of active participants at the end of the plan year	6a(2) 445
b Retired or separated participants receiving benefits	6b 274
c Other retired or separated participants entitled to future benefits	6c 235
d Subtotal. Add lines 6a(2) , 6b , and 6c	6d 954
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.	6e 0
f Total. Add lines 6d and 6e	6f 954
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	6g
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	6h 44
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item).....	7

8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions:

1A

b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:

9a Plan funding arrangement (check all that apply)	9b Plan benefit arrangement (check all that apply)
(1) ☐ Insurance	(1) ☐ Insurance
(2) ☐ Code section 412(e)(3) insurance contracts	(2) ☐ Code section 412(e)(3) insurance contracts
(3) ☒ Trust	(3) ☒ Trust
(4) ☐ General assets of the sponsor	(4) ☐ General assets of the sponsor

10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

a Pension Schedules

- (1)** ☒ **R** (Retirement Plan Information)
- (2)** ☐ **MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
- (3)** ☒ **SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary

b General Schedules

- (1)** ☒ **H** (Financial Information)
- (2)** ☐ **I** (Financial Information – Small Plan)
- (3)** ☐ **A** (Insurance Information)
- (4)** ☒ **C** (Service Provider Information)
- (5)** ☒ **D** (DFE/Participating Plan Information)
- (6)** ☐ **G** (Financial Transaction Schedules)

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

11c Enter the Receipt Confirmation Code for the 2017 Form M-1 annual report. If the plan was not required to file the 2017 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2017 This Form is Open to Public Inspection
--	--	---

For calendar plan year 2017 or fiscal plan year beginning 04/01/2017 and ending 03/31/2018

▶ **Round off amounts to nearest dollar.**
▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan <u>THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES</u>	B Three-digit plan number (PN) ▶ <u>020</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>HEARTLAND COOPERATIVE</u>	D Employer Identification Number (EIN) <u>42-0242420</u>

E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500
---	---

Part I	Basic Information
---------------	--------------------------

1 Enter the valuation date: Month <u>04</u> Day <u>01</u> Year <u>2017</u>			
2 Assets:			
a Market value	2a	<u>48934299</u>	
b Actuarial value	2b	<u>48979707</u>	
3 Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment	<u>271</u>	<u>14993681</u>	<u>14993681</u>
b For terminated vested participants	<u>231</u>	<u>5067242</u>	<u>5067242</u>
c For active participants	<u>450</u>	<u>19794709</u>	<u>20224029</u>
d Total	<u>952</u>	<u>39855632</u>	<u>40284952</u>
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐			
a Funding target disregarding prescribed at-risk assumptions	4a		
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b		
5 Effective interest rate	5	<u>6.00 %</u>	
6 Target normal cost	6	<u>1887788</u>	

Statement by Enrolled Actuary
To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE		
Signature of actuary	<u>12/19/2018</u>	Date
<u>DOUGLAS S. LANE</u>	<u>17-04376</u>	Most recent enrollment number
Type or print name of actuary	<u>515-453-8589</u>	Telephone number (including area code)
<u>KIDDER-LANE ACTUARIAL SERVICES, LLC</u>		
Firm name		
<u>5700 WESTOWN PARKWAY, SUITE 100</u> <u>WEST DES MOINES, IA 50266</u>		
Address of the firm		

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

Part II Beginning of Year Carryover and Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	9821664
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9 Amount remaining (line 7 minus line 8)	0	9821664
10 Interest on line 9 using prior year's actual return of <u>5.35</u> %	0	525459
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		738568
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>6.19</u> %		45717
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
c Total available at beginning of current plan year to add to prefunding balance		784285
d Portion of (c) to be added to prefunding balance		784285
12 Other reductions in balances due to elections or deemed elections	0	2436653
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	8694755

Part III Funding Percentages

14 Funding target attainment percentage	14	100.00%
15 Adjusted funding target attainment percentage	15	121.58%
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	100.96%
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls**18** Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
04/01/2017		245055			
07/11/2018	300000				
08/07/2018	300000				
09/05/2018	300000				
10/12/2018	300000				
Totals ▶			18(b)	1200000	18(c) 245055

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years.	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	1106188

20 Quarterly contributions and liquidity shortfalls:

- a** Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No
- b** If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No
- c** If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 4.16 %	2nd segment: 5.72 %	3rd segment: 6.48 %	☐ N/A, full yield curve used
b Applicable month (enter code)				21b 0
22 Weighted average retirement age.....				22 62
23 Mortality table(s) (see instructions) ☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute				

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment	☐ Yes ☒ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.....	☐ Yes ☒ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.....	☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6)	31a	1887788	
b Excess assets, if applicable, but not greater than line 31a	31b	0	
32 Amortization installments:	Outstanding Balance	Installment	
a Net shortfall amortization installment.....	0	0	
b Waiver amortization installment	0	0	
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33).....	34	1887788	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....	0	781600	781600
36 Additional cash requirement (line 34 minus line 35)	36	1106188	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	1106188	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	0	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0	
40 Unpaid minimum required contributions for all years.....	40	0	

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected	☐ 2 plus 7 years ☐ 15 years		
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011		
42 Amount of acceleration adjustment	42		
43 Excess installment acceleration amount to be carried over to future plan years	43		

SCHEDULE C (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Service Provider Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110
		2017
		This Form is Open to Public Inspection.

For calendar plan year 2017 or fiscal plan year beginning **04/01/2017** and ending **03/31/2018**

A Name of plan THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES	B Three-digit plan number (PN) ▶ 020
C Plan sponsor's name as shown on line 2a of Form 5500 HEARTLAND COOPERATIVE	D Employer Identification Number (EIN) 42-0242420

Part I	Service Provider Information (see instructions)
---------------	--

You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

- a** Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions).. ☒ Yes ☐ No
- b** If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation	
OPPENHEIMER FUNDS SERVICES	P.O. BOX 5270 DENVER, CO 80217-5270

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation	
VANGUARD	
23-1945930	

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation	
PIMCO FUNDS	PO BOX 55060 BOSTON, MA 02205-5060

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation	
AMERICAN FUNDS SERVICE CO.	PO BOX 6007 INDIANAPOLIS, IN 46206-6007

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

ALPS CORE COMMODITY MANAGEMENT, LLC

PO BOX 44386
DENVER, CO 80203

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

LAZARD ASSET MANAGEMENT

30 ROCKEFELLER PLAZA
NEW YORK, NY 10112

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

METWEST FUNDS

865 SOUTH FIGUEROA STREET
SUITE 1800
LOS ANGELES, CA 90017

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

KIDDER-LANE ACTUARIAL SERVICES, LLC

45-4124285

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
11 50	NONE	35427	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

WELLS FARGO BANK, N.A.

94-1347393

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
21 24 27 28 50 52	NONE	33119	Yes ☒ No ☐	Yes ☐ No ☒	0	Yes ☒ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

SCHEDULE D (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small>	DFE/Participating Plan Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ► File as an attachment to Form 5500.	OMB No. 1210-0110 <div style="border: 1px solid black; padding: 5px; font-size: 1.2em; font-weight: bold;">2017</div> This Form is Open to Public Inspection.
---	--	--

For calendar plan year 2017 or fiscal plan year beginning 04/01/2017 and ending 03/31/2018

A Name of plan <u>THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES</u>	B Three-digit plan number (PN) ►	<u>020</u>
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 <u>HEARTLAND COOPERATIVE</u>	D Employer Identification Number (EIN) <u>42-0242420</u>	

Part I	Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs) (Complete as many entries as needed to report all interests in DFEs)
--------	--

a Name of MTIA, CCT, PSA, or 103-12 IE: <u>WF/TRP INST LCG MGD CIT F</u>		
b Name of sponsor of entity listed in (a): <u>WELLS FARGO BANK, N.A.</u>		
c EIN-PN <u>45-6648614-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>3417007</u>
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>WF/BLACKROCK S&P 500 INDEX CIT F</u>		
b Name of sponsor of entity listed in (a): <u>WELLS FARGO BANK, N.A.</u>		
c EIN-PN <u>94-3224211-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>6012582</u>
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>WELLS FARGO/MFS VALUE CIT F</u>		
b Name of sponsor of entity listed in (a): <u>WELLS FARGO BANK, N.A.</u>		
c EIN-PN <u>45-6648640-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>3453218</u>
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>WF/BLACKROCK S&P MIDCAP INDEX CIT F</u>		
b Name of sponsor of entity listed in (a): <u>WELLS FARGO BANK, N.A.</u>		
c EIN-PN <u>52-2265235-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>3535046</u>
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>WF/MULTI-MANAGER SMALL CAP CIT F</u>		
b Name of sponsor of entity listed in (a): <u>WELLS FARGO BANK, N.A.</u>		
c EIN-PN <u>45-6648658-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>1967777</u>
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>WF/BLACKROCK INTL EQUITY INDEX CIT</u>		
b Name of sponsor of entity listed in (a): <u>WELLS FARGO BANK, N.A.</u>		
c EIN-PN <u>52-2265229-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>2545678</u>
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>WELLS FARGO CORE BOND CIT F</u>		
b Name of sponsor of entity listed in (a): <u>WELLS FARGO BANK, N.A.</u>		
c EIN-PN <u>94-3222878-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>5398407</u>

a Name of MTIA, CCT, PSA, or 103-12 IE: WF/FEDERATED TOTAL RETURN BOND CIT**b** Name of sponsor of entity listed in (a): WELLS FARGO BANK, N.A.

c EIN-PN 46-6584317-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 5462878
--------------------------------	------------------------	---

a Name of MTIA, CCT, PSA, or 103-12 IE: WELLS FARGO INTL BOND CIT F**b** Name of sponsor of entity listed in (a): WELLS FARGO BANK, N.A.

c EIN-PN 46-6136833-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 0
--------------------------------	------------------------	---

a Name of MTIA, CCT, PSA, or 103-12 IE: WF/BLACKROCK ST INVESTMENT FUND F**b** Name of sponsor of entity listed in (a): WELLS FARGO BANK, N.A.

c EIN-PN 41-6292499-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 376725
--------------------------------	------------------------	--

a Name of MTIA, CCT, PSA, or 103-12 IE: WF LIABILITY DRIVEN SOL. CIT I F**b** Name of sponsor of entity listed in (a): WELLS FARGO BANK, N.A.

c EIN-PN 30-6225619-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 2066938
--------------------------------	------------------------	---

a Name of MTIA, CCT, PSA, or 103-12 IE: WF LIABILITY DRIVEN SOL. CIT II F**b** Name of sponsor of entity listed in (a): WELLS FARGO BANK, N.A.

c EIN-PN 80-6049172-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 816404
--------------------------------	------------------------	--

a Name of MTIA, CCT, PSA, or 103-12 IE: WF LIABILITY DRIVEN SOL. CIT III F**b** Name of sponsor of entity listed in (a): WELLS FARGO BANK, N.A.

c EIN-PN 46-7074916-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 74689
--------------------------------	------------------------	---

a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
-----------------	----------------------	---

a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
-----------------	----------------------	---

a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
-----------------	----------------------	---

a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
-----------------	----------------------	---

Part II Information on Participating Plans (to be completed by DFEs)

(Complete as many entries as needed to report all participating plans)

a Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN

SCHEDULE H (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2017 This Form is Open to Public Inspection
For calendar plan year 2017 or fiscal plan year beginning <u>04/01/2017</u> and ending <u>03/31/2018</u>		
A Name of plan <u>THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES</u>	B Three-digit plan number (PN) ►	<u>020</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>HEARTLAND COOPERATIVE</u>	D Employer Identification Number (EIN) <u>42-0242420</u>	

Part I	Asset and Liability Statement		(a) Beginning of Year	(b) End of Year
1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.				
	Assets			
a	Total noninterest-bearing cash	1a		
b	Receivables (less allowance for doubtful accounts):			
	(1) Employer contributions	1b(1)		
	(2) Participant contributions	1b(2)		
	(3) Other.....	1b(3)	300	341
c	General investments:			
	(1) Interest-bearing cash (include money market accounts & certificates of deposit)	1c(1)		
	(2) U.S. Government securities.....	1c(2)		
	(3) Corporate debt instruments (other than employer securities):			
	(A) Preferred	1c(3)(A)		
	(B) All other.....	1c(3)(B)		
	(4) Corporate stocks (other than employer securities):			
	(A) Preferred	1c(4)(A)		
	(B) Common	1c(4)(B)		
	(5) Partnership/joint venture interests	1c(5)		
	(6) Real estate (other than employer real property)	1c(6)		
	(7) Loans (other than to participants)	1c(7)		
	(8) Participant loans	1c(8)		
	(9) Value of interest in common/collective trusts.....	1c(9)	30015100	35127349
	(10) Value of interest in pooled separate accounts.....	1c(10)		
	(11) Value of interest in master trust investment accounts	1c(11)		
	(12) Value of interest in 103-12 investment entities	1c(12)		
	(13) Value of interest in registered investment companies (e.g., mutual funds).....	1c(13)	16620424	19493266
	(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)		
	(15) Other	1c(15)		

		(a) Beginning of Year	(b) End of Year
1d	Employer-related investments:		
(1)	Employer securities	1d(1)	
(2)	Employer real property	1d(2)	
e	Buildings and other property used in plan operation	1e	
f	Total assets (add all amounts in lines 1a through 1e)	1f	46635824 54620956
Liabilities			
g	Benefit claims payable	1g	
h	Operating payables	1h	10455
i	Acquisition indebtedness	1i	
j	Other liabilities	1j	
k	Total liabilities (add all amounts in lines 1g through 1j)	1k	10455 0
Net Assets			
l	Net assets (subtract line 1k from line 1f)	1l	46625369 54620956

Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

		(a) Amount	(b) Total
Income			
a	Contributions:		
(1)	Received or receivable in cash from: (A) Employers	2a(1)(A)	2400000
	(B) Participants	2a(1)(B)	245055
	(C) Others (including rollovers)	2a(1)(C)	
(2)	Noncash contributions	2a(2)	
(3)	Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)	2645055
b	Earnings on investments:		
(1)	Interest:		
	(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)	
	(B) U.S. Government securities	2b(1)(B)	
	(C) Corporate debt instruments	2b(1)(C)	
	(D) Loans (other than to participants)	2b(1)(D)	
	(E) Participant loans	2b(1)(E)	
	(F) Other	2b(1)(F)	
	(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)	0
(2)	Dividends: (A) Preferred stock	2b(2)(A)	
	(B) Common stock	2b(2)(B)	
	(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	572968
	(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)	572968
(3)	Rents	2b(3)	
(4)	Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)	
	(B) Aggregate carrying amount (see instructions)	2b(4)(B)	
	(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)	0
(5)	Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)	
	(B) Other	2b(5)(B)	
	(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)	0

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		3198005
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds).....	2b(10)		403615
c Other income	2c		5997
d Total income. Add all income amounts in column (b) and enter total.....	2d		6825640

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers.....	2e(1)	1957852	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3).....	2e(4)		1957852
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions).....	2g		
h Interest expense.....	2h		
i Administrative expenses: (1) Professional fees	2i(1)	36244	
(2) Contract administrator fees	2i(2)	2555	
(3) Investment advisory and management fees	2i(3)	33119	
(4) Other	2i(4)	91596	
(5) Total administrative expenses. Add lines 2i(1) through (4).....	2i(5)		163514
j Total expenses. Add all expense amounts in column (b) and enter total.....	2j		2121366

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		4704274
l Transfers of assets:			
(1) To this plan.....	2l(1)		3291313
(2) From this plan	2l(2)		

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) ☐ Unqualified (2) ☐ Qualified (3) ☒ Disclaimer (4) ☐ Adverse

b Did the accountant perform a limited scope audit pursuant to 29 CFR 2520.103-8 and/or 103-12(d)?

☒ Yes ☐ No

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: **DELOITTE & TOUCHE LLP**

(2) EIN: **13-3891517**

d The opinion of an independent qualified public accountant is **not attached** because:

(1) ☐ This form is filed for a CCT, PSA, or MTIA. (2) ☐ It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l.

During the plan year:

a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.).....

b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)

	Yes	No	Amount
4a		X	
4b		X	

	Yes	No	Amount
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)		X	
e Was this plan covered by a fidelity bond?	X		1000000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	X		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked, and see instructions for format requirements.)	X		
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?		X	
l Has the plan failed to provide any benefit when due under the plan?		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)			
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.			

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year? ☐ Yes ☒ No
If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)

5c If the plan is a defined benefit plan, is it covered under the PBGC insurance program (See ERISA section 4021.)? ☒ Yes ☐ No ☐ Not determined
If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 4109925. (See instructions.)

<div>SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation</div>	<div>Retirement Plan Information</div> <div>This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code).</div> <div>► File as an attachment to Form 5500.</div>	<div>OMB No. 1210-0110</div> <div>2017</div> <div>This Form is Open to Public Inspection.</div>
For calendar plan year 2017 or fiscal plan year beginning 04/01/2017 and ending 03/31/2018		
A Name of plan THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES		B Three-digit plan number (PN) ► 020
C Plan sponsor's name as shown on line 2a of Form 5500 HEARTLAND COOPERATIVE		D Employer Identification Number (EIN) 42-0242420
Part I	Distributions	
All references to distributions relate only to payments of benefits during the plan year.		
1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions		1 0
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): 94-1347393		
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.		
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year		3 1
Part II	Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)	
4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? ☐ Yes ☒ No ☐ N/A If the plan is a defined benefit plan, go to line 8.		
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month _____ Day _____ Year _____ If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.		
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived)		6a
b Enter the amount contributed by the employer to the plan for this plan year		6b
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount)		6c
If you completed line 6c, skip lines 8 and 9.		
7 Will the minimum funding amount reported on line 6c be met by the funding deadline? ☐ Yes ☐ No ☐ N/A		
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? ☐ Yes ☐ No ☒ N/A		
Part III	Amendments	
9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box. ☐ Increase ☐ Decrease ☐ Both ☒ No		
Part IV	ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.	
10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan? ☐ Yes ☐ No		
11 a Does the ESOP hold any preferred stock? ☐ Yes ☐ No		
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.) ☐ Yes ☐ No		
12 Does the ESOP hold any stock that is not readily tradable on an established securities market? ☐ Yes ☐ No		
For Paperwork Reduction Act Notice, see the Instructions for Form 5500.		
Schedule R (Form 5500) 2017 v. 170203		

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that contributed more than 5% of total contributions to the plan during the plan year (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

- 14** Enter the number of participants on whose behalf no contributions were made by an employer as an employer of the participant for:

a The current year	14a	
b The plan year immediately preceding the current plan year	14b	
c The second preceding plan year	14c	

- 15** Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:

a The corresponding number for the plan year immediately preceding the current plan year	15a	
b The corresponding number for the second preceding plan year	15b	

- 16** Information with respect to any employers who withdrew from the plan during the preceding plan year:

a Enter the number of employers who withdrew during the preceding plan year	16a	
b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers	16b	

- 17** If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment. ☐

Part VI Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans

- 18** If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐

- 19** If the total number of participants is 1,000 or more, complete lines (a) through (c)

- a** Enter the percentage of plan assets held as:
 Stock: _____% Investment-Grade Debt: _____% High-Yield Debt: _____% Real Estate: _____% Other: _____%
- b** Provide the average duration of the combined investment-grade and high-yield debt:
☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more
- c** What duration measure was used to calculate line 19(b)?
☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify): _____

The Restated Contributory Retirement Plan for Cooperatives

Administered By Associated Benefits Corporation
(Participating Employer—Heartland Co-op, Group 282)

Employer Identification Number: 42-0242420
Plan Number: 020

Financial Statements as of and for the
Years Ended March 31, 2018 and 2017,
Supplemental Schedules as of and for the Year Ended
March 31, 2018, and Independent Auditors' Report

THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES

**Administered By Associated Benefits Corporation
(Participating Employer—Heartland Co-op, Group 282)**

TABLE OF CONTENTS

	Page
INDEPENDENT AUDITORS' REPORT	1-2
FINANCIAL STATEMENTS AS OF AND FOR THE YEARS ENDED MARCH 31, 2018 AND 2017:	
Statements of Net Assets Available for Benefits	3
Statements of Changes in Net Assets Available for Benefits	4
Notes to Financial Statements	5-14
SUPPLEMENTAL SCHEDULES AS OF AND FOR THE YEAR ENDED MARCH 31, 2018:	15
Form 5500, Schedule H, Part IV, Line 4i—Schedule of Assets (Held at End of Year)	16
Form 5500, Schedule H, Part IV, Line 4j—Schedule of Reportable Transactions	17
NOTE: All other schedules required by Section 2520.103-10 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 have been omitted because they are not applicable.	

INDEPENDENT AUDITORS' REPORT

To the Board of Directors
Associated Benefits Corporation
Plan Administrator for The Restated Contributory
Retirement Plan for Cooperatives
(Participating Employer—Heartland Co-op, Group 282):

Report on the Financial Statements

We were engaged to audit the accompanying financial statements of The Restated Contributory Retirement Plan for Cooperatives (Participating Employer—Heartland Co-op, Group 282), which comprise the statement of net assets available for benefits as of March 31, 2018, and the related statement of changes in net assets available for benefits for the year ended March 31, 2018, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these 2018 financial statements based on conducting the audit in accordance with auditing standards generally accepted in the United States of America. Because of the matter described in the Basis for Disclaimer of Opinion paragraph, however, we were not able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion on the 2018 financial statements.

Basis for Disclaimer of Opinion on the 2018 Financial Statements

As permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974, the Plan Administrator instructed us not to perform, and we did not perform, any auditing procedures with respect to the information summarized in Note 3, which was certified by Wells Fargo Bank, N.A., the trustee of the Plan, except for comparing such information with the related information included in the 2018 financial statements. We have been informed by the Plan Administrator that the trustee holds the Plan's investment assets and executes investment transactions. The Plan Administrator has obtained a certification from the trustee as of and for the year ended March 31, 2018, that the information provided to the Plan Administrator by the trustee is complete and accurate.

Disclaimer of Opinion on the 2018 Financial Statements

Because of the significance of the matter described in the Basis for Disclaimer of Opinion on the 2018 Financial Statements paragraph, we have not been able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion on the 2018 financial statements. Accordingly, we do not express an opinion on the 2018 financial statements.

Other Matters—Report on Supplementary Information and Report on 2017 Financial Statements

The supplemental schedules listed in the Table of Contents are required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 and are presented for the purpose of additional analysis and are not a required part of the financial statements. Because of the significance of the matter described in the Basis for Disclaimer of Opinion on the 2018 Financial Statements paragraph, we do not express an opinion on these supplemental schedules.

We have audited the accompanying financial statements of The Restated Contributory Retirement Plan for Cooperatives (Participating Employer—Heartland Co-op, Group 282), which comprise the statement of net assets available for benefits as of March 31, 2017, and the related statement of changes in net assets available for benefits for the year ended March 31, 2017, and in our report dated September 20, 2017, we expressed our opinion that such financial statements present fairly, in all material respects, net assets available for benefits of the Plan as of March 31, 2017, and the changes therein for the year then ended, in accordance with accounting principles generally accepted in the United States of America.

Report on Form and Content in Compliance With Department of Labor Rules and Regulations for 2018 Financial Statements

The form and content of the information included in the 2018 financial statements and supplemental schedules, other than that derived from the information certified by the trustee have been audited by us in accordance with auditing standards generally accepted in the United States of America and, in our opinion, are presented in compliance with the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974.

DELOITTE & TOUCHE LLP

August 31, 2018

**THE RESTATED CONTRIBUTORY RETIREMENT PLAN
FOR COOPERATIVES**

**Administered By Associated Benefits Corporation
(Participating Employer—Heartland Co-op, Group 282)**

**STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS
AS OF MARCH 31, 2018 AND 2017**

	2018	2017
NET ASSETS AVAILABLE FOR BENEFITS:		
Assets:		
Investments—at fair value	\$ 54,620,615	\$ 46,635,524
Accrued income	<u>341</u>	<u>300</u>
Total assets	54,620,956	46,635,824
Liabilities	<u> </u>	<u>10,455</u>
Net assets available for benefits	<u>\$ 54,620,956</u>	<u>\$ 46,625,369</u>

See notes to financial statements.

THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES

**Administered By Associated Benefits Corporation
(Participating Employer—Heartland Co-op, Group 282)**

STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS FOR THE YEARS ENDED MARCH 31, 2018 AND 2017

	2018	2017
INVESTMENT INCOME:		
Investment income	\$ 589,672	\$ 235,079
Net appreciation in fair value of investments	3,584,916	2,284,636
Investment income from The Retirement Trust for Cooperatives		2,167,770
Investment expenses	<u>(43,509)</u>	<u>(8,067)</u>
Net investment income	<u>4,131,079</u>	<u>4,679,418</u>
CONTRIBUTIONS:		
Employer contributions	2,400,000	2,040,000
Employee contributions	<u>245,055</u>	<u>245,750</u>
Total contributions	<u>2,645,055</u>	<u>2,285,750</u>
TRANSFER OF ASSETS DUE TO MERGER	<u>3,291,313</u>	
OTHER INCOME	<u>5,997</u>	<u>812,396</u>
DEDUCTIONS:		
Benefits paid directly to participants	1,957,852	2,060,690
Administrative expenses	<u>120,005</u>	<u>171,282</u>
Total deductions	<u>2,077,857</u>	<u>2,231,972</u>
NET CHANGE	7,995,587	5,545,592
NET ASSETS AVAILABLE FOR BENEFITS:		
Beginning of year	<u>46,625,369</u>	<u>41,079,777</u>
End of year	<u>\$ 54,620,956</u>	<u>\$ 46,625,369</u>

See notes to financial statements.

THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES

Administered By Associated Benefits Corporation
(Participating Employer—Heartland Co-op, Group 282)

NOTES TO FINANCIAL STATEMENTS AS OF AND FOR THE YEARS ENDED MARCH 31, 2018 AND 2017

1. DESCRIPTION OF THE PLAN

The following description of The Restated Contributory Retirement Plan for Cooperatives (Participating Employer—Heartland Co-op, Group 282) (the “Plan”) is provided for general informational purposes only. Participants should refer to the Plan document for more complete information.

General—The Plan is a contributory defined benefit plan administered by Associated Benefits Corporation (the “Plan Administrator”) that covers substantially all full-time employees of Heartland Co-op, with the exception of any new employees hired after April 1, 2015 at locations that made up the former United Western Cooperative. These employees are eligible for a different defined benefit plan. Employees who work 1,000 hours or more per year are eligible on the first day of the first or the seventh month of the Plan year following the attainment of age 21 and 4 months of service. Eligible employees make contributions equal to 1% of their compensation. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA).

Prior to October 18, 2016, the Plan invested in The Retirement Trust for Cooperatives (the “Prior Trust”). The Plan’s funds were commingled with other plans participating in the Prior Trust. The investments held in the Prior Trust and related net investment income reported prior to October 18, 2016 represent the Plan’s allocable portion of such investments and net investment income. On October 18, 2016, the investments in the Prior Trust were allocated and transferred or sold with the proceeds allocated to individual trusts for each participating plan. Subsequent to the allocation and transfer of assets on October 18, 2016, the Plan’s investments were held in its own trust.

Pension Benefits—Participants can retire with their full pension on the first day of the month coincident with or immediately following their 65th birthday (normal retirement), attainment of age 62 with at least 5 years of service, or upon satisfying the Rule of 85 by reaching a combined total of age and years of service of 85 total years.

The monthly pension benefit under the Plan is equal to 1.25% of average monthly earnings, as defined, multiplied by years of credited service. Prior to April 1, 2014, the monthly pension benefit under the Plan was equal to 1.1% of average monthly earnings, as defined, multiplied by years of credit service prior to April 1, 2014. The normal form is a pension payable for the participant’s lifetime. However, an actuarially reduced joint and 50% survivorship basis with 120 guaranteed monthly payments is the automatic form for married participants unless both the participant and spouse elect another form. Participants become 100% vested in employer contributions and earnings thereon after completion of five years of service.

Participants are immediately vested in their contributions plus an annual interest rate of 120% of the Federal mid-term rate for the month of April of each Plan year. Accumulated employee contributions and interest thereon, net of applicable benefit payments, at April 1, 2017 and 2016, were \$1,254,885 and \$1,092,598, respectively. The interest rates were

2.55% and 1.74% as of April 1, 2017 and 2016, respectively. Participants become 100% vested in employer contributions after completion of five years of service.

Transfer of Assets Due to Merger—Effective March 31, 2018, Participating Employer—Alleman Cooperative, Group 39, merged into the Plan. The net assets available for benefit of \$3,291,313 were rolled into the Plan and are shown as transfer of assets due to merger in the statement of changes in net assets. Due to the merger, the actuarial present value of accumulated plan benefits of \$1,128,994 rolled to the Plan as of April 1, 2018.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting—The accompanying financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America (GAAP).

Use of Estimates—The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities and changes therein, disclosure of contingent assets and liabilities, and the actuarial present value of accumulated plan benefits and changes therein at the date of the financial statements. Actual results could differ from those estimates.

Risks and Uncertainties—The Plan utilizes various investment securities including cash and money market funds, and equity funds. Investment securities, in general, are exposed to various risks, such as interest rate risk, credit risk, and overall market volatility. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the financial statements.

Plan contributions are made and the actuarial present value of accumulated plan benefits are reported based on certain assumptions pertaining to interest rates, inflation rates, and employee demographics, all of which are subject to change. Due to uncertainties inherent in the estimations and assumptions process, it is at least reasonably possible that changes in these estimates and assumptions in the near term would be material to the financial statements.

Investment Valuation and Income Recognition—Investments are stated at fair value. Fair value of a financial instrument is the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 6 for description of valuation methods.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation includes the Plan's gains and losses on investments bought and sold as well as held during the year.

Investment Expenses—Investment expenses consisting of trustee fees and investment management fees are paid from Plan assets. Trustee fees and investment management fees are deducted from investment income or loss.

Administrative Expenses—Administrative expenses consisting of actuarial fees and payments to the Pension Benefit Guarantee Corporation (PBGC) are paid from Plan assets. Other administrative expenses, including expenses of the Plan Administrator, are paid by the Participating Employer.

Payment of Benefits—Benefit payments to participants are recorded upon distribution.

Subsequent Events—Subsequent events have been evaluated through August 31, 2018, the date the financial statements were available to be issued. The Plan has determined that there are no material events that require adjustment to or disclosure in these financial statements.

3. INFORMATION CERTIFIED BY THE TRUSTEE

The following is a summary of the unaudited information regarding the Plan as of and for the year ended March 31, 2018, included in the Plan's financial statements and supplemental schedules, that was prepared by Wells Fargo Bank, N.A., the trustee of the Plan, and furnished to the Plan Administrator. The Plan Administrator has obtained certifications from the trustee that such information is complete and accurate.

2018

Statements of net assets available for benefits:

Investments—at fair value	\$ 54,620,615
Accrued income	341

Statements of changes in net assets available for benefits:

Investment income	589,672
Net appreciation in fair value of investments	3,584,916
Transfer of assets due to merger	3,291,313

Supplemental schedules: All investment balances and information included in the schedules.

Note 6: All investment balances and investment information, except for the classification of investments into levels within the fair value hierarchy.

4. FUNDING POLICY

The Participating Employer's funding policy is to make cash contributions to the Plan in excess of employee contributions as determined by the Plan's independent actuary. The Participating Employer met the minimum funding requirements of ERISA for the years ended March 31, 2018 and 2017. For financial statement purposes, all employer contributions made to meet the minimum funding requirements of ERISA are considered attributable to the current plan year and are accrued in the financial statements if not paid by year end. For PBGC funding purposes, all employer contributions made to the Plan prior to the filing of the Form 5500 are considered attributable to the previous year.

5. ACCUMULATED PLAN BENEFITS

Accumulated plan benefits are those future periodic payments that are attributable under the Plan's provisions to the employees' contributions, compensation, and services rendered as of the valuation date. Accumulated plan benefits include benefits expected to be paid to (1) retired or terminated employees or their beneficiaries and (2) present employees or their beneficiaries. Benefits payable as a result of retirement, death, disability or termination of employment are included, to the extent they are deemed attributable to employee service rendered to the valuation date.

The actuarial present value of accumulated plan benefits is determined by independent actuaries. Accumulated plan benefits are presented using beginning of the year benefit information date. The actuarial present value of accumulated plan benefits below is measured as of April 1, 2017, which is a proxy for March 31, 2017. The amount results from applying actuarial assumptions to adjust the accumulated plan benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements such as for death, disability, withdrawal, or retirement) between the valuation date and the expected date of payment.

The more significant actuarial assumptions used in the valuations as of April 1, 2017 and 2016 were as follows:

	April 1, 2017	April 1, 2016
Interest rate	6.84%	7.50%
Mortality	RP2014 separate annuitant/non-annuitant mortality tables projected with improvement based on Scale MP2017	RP2014 separate annuitant/non-annuitant mortality tables projected with improvement based on Scale MP2015
Salaries	Will increase according to an age-related table ranging from 7.50% down to 2.75%	Will increase according to an age-related table ranging from 7.50% down to 2.75%

In addition, eligible employees will retire according to the following schedule—employees eligible for the special rule of 85 benefit are assumed to retire according to the select rates shown below for the first year after becoming eligible. The ultimate rates apply to rule of 85 retirements after the first year since becoming eligible and regular retirements. The first year rates will not start before age 55 even if the rule of 85 applies earlier, nor will they ever fall below the ultimate rate for that age.

As of April 1, 2017 and 2016, the rates of retirement assumed were as follows:

Age	First Year	Ultimate
55–60	6 %	3 %
61		10
62		30
63		25
64		25
65		40
66		25
67		25
68		25
69		25
70 and over		100

The foregoing actuarial assumptions are based on the presumption that the Plan will continue. Were the Plan to terminate, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated Plan benefits. Due to uncertainties inherent in the estimations and assumptions process, it is at least reasonably possible that certain changes in these estimates and assumptions could be material to the financial statements.

The actuarial present value of accumulated plan benefits as of April 1, 2017, using the aggregate cost method, is as follows:

Vested:	
Active participants	\$ 18,275,767
Beneficiaries and retirees	14,281,737
Term vested participants	<u>4,643,490</u>
	37,200,994
Nonvested active participants	<u>411,904</u>
Total actuarial present value of accumulated plan benefits	<u>\$ 37,612,898</u>

The changes in the actuarial present value of accumulated plan benefits from April 1, 2016 to April 1, 2017 are as follows:

Actuarial present value of accumulated plan benefits at beginning of year	<u>\$ 30,628,129</u>
Increase (decrease) during the year attributable to:	
Benefit accumulations	1,610,354
Increase for change in actuarial assumption and actuarial gains and losses	5,218,972
Increase for interest due to the decrease in the discount period	2,297,110
Benefits paid	<u>(2,141,667)</u>
Net change	<u>6,984,769</u>
Actuarial present value of accumulated plan benefits at end of year	<u>\$ 37,612,898</u>

6. FAIR VALUE MEASUREMENTS

In accordance with GAAP, the Plan classifies its investments into Level 1, which refers to securities valued using quoted prices from active markets for identical assets; Level 2, which refers to securities not traded on an active market but for which observable market inputs are readily available; and Level 3, which refers to securities valued based on significant unobservable inputs. Assets are classified in their entirety based on the lowest level of input that is significant to the fair value measurement.

Asset Valuation Techniques—Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs. The following is a description of the valuation methodologies used for assets at fair value. There have been no changes in the methodologies used at March 31, 2018 and 2017.

Certain investments in mutual funds are valued based upon quoted prices from active markets. These investments in mutual funds are categorized as Level 1.

Money market funds held are primarily short-term money market commingled funds that are categorized as Level 2. They are valued at cost plus accrued interest, which approximates fair value.

Certain funds are valued at the net asset value of units of a bank collective trust. The net asset value (NAV) as provided by the trustee, is used as a practical expedient to estimate fair value. The NAV is based on the fair value of the underlying investments held by the fund less its liabilities. This practical expedient is not used when it is determined to be probable that the fund will sell the investment for an amount different than the reported NAV. Participant transactions (purchased and sales) may occur daily. Were the Plan to initiate a full redemption of the bank collective trust, the investment advisor reserves the right to temporarily delay withdrawal from the trust in order to ensure that securities liquidations will be carried out in an orderly business manner. As the practical expedient is utilized, these certain funds are not included in the fair value leveling table, but are included as a reconciling line item to the statements of net assets.

The following tables set forth by level within the fair value hierarchy a summary of the Plan's investments measured at fair value on a recurring basis at March 31, 2018 and 2017, respectively.

	Fair Value Measurements at March 31, 2018, Using			
	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Total
Mutual funds	\$ 19,493,266	\$ -	\$ -	\$ 19,493,266
Money market funds		<u>376,725</u>		<u>376,725</u>
	<u>\$ 19,493,266</u>	<u>\$ 376,725</u>	<u>\$ -</u>	19,869,991
Funds valued at NAV				<u>34,750,624</u>
Total				<u>\$ 54,620,615</u>

Fair Value Measurements at March 31, 2017, Using			
	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
			Total
Mutual funds	\$ 16,620,424	\$ -	\$ 16,620,424
Money market funds		432,108	432,108
	<u>\$ 16,620,424</u>	<u>\$ 432,108</u>	<u>\$ 17,052,532</u>
Funds valued at NAV			<u>29,582,992</u>
Total			<u>\$ 46,635,524</u>

Transfers Between Levels—The availability of observable market data is monitored to assess the appropriate classification of financial instruments within the fair value hierarchy. Changes in economic conditions or model-based valuation techniques may require the transfer of financial instruments from one fair value level to another. In such instances, the transfer is reported at the beginning of the reporting period.

We evaluate the significance of transfers between levels based upon the nature of the financial instrument and size of the transfer relative to total net assets available for benefits. There were no transfers between levels for the years ended March 31, 2018 and 2017.

The valuation methods as described above may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the Plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

Net Asset Value (NAV) per Share—The Plan has disclosed the category, fair value, redemption frequency, and redemption notice period for those assets whose fair value is estimated using the NAV as of March 31, 2018 and 2017. The following tables set forth a summary of the Plan's investments with a reported NAV as of March 31, 2018 and 2017, respectively.

Fair Value Estimated Using Net Asset Value per Share March 31, 2018					
Investment	Fair Value*	Unfunded Commitment	Redemption Frequency	Other Redemption Restrictions	Redemption Notice Period
Domestic stock funds (a)	\$ 18,385,630	\$ -	Immediate	None	None
International stock funds (b)	2,545,678		Immediate	None	None
Domestic fixed income funds (c)	<u>13,819,316</u>		Immediate	None	None
Total	<u>\$ 34,750,624</u>	<u>\$ -</u>			

Fair Value Estimated Using Net Asset Value per Share
March 31, 2017

Investment		Fair Value*	Unfunded Commitment	Redemption Frequency	Other Redemption Restrictions	Redemption Notice Period
Domestic stock funds	(a)	\$ 16,799,373	\$ -	Immediate	None	None
International stock funds	(b)	2,345,570		Immediate	None	None
Domestic fixed income funds	(c)	9,494,881		Immediate	None	None
International fixed income funds	(c)	<u>943,168</u>	<u> </u>	Immediate	None	None
Total		<u>\$ 29,582,992</u>	<u>\$ -</u>			

* The fair values of the investments have been estimated using the NAV of the investment.

- (a) The domestic stock funds seek to provide long-term growth of capital by investing primarily in equity securities and to achieve above average results over a market cycle. The funds employ a "multi-style, multi-manager" approach whereby portions of the domestic stock funds are allocated to different money managers who employ distinct investment styles. The funds use three principal investment styles intended to complement one another:

Growth: Emphasizes investments in equity securities of companies with above-average earnings growth prospects.

Value: Emphasizes investments in equity securities of companies that appear to the money manager to be undervalued relative to their corporate worth, based on earnings, book or asset value, revenues, cash flow or other measures.

Market-Oriented: Emphasizes investments in companies from the broad equity market rather than focusing on the growth or value segments of the market.

- (b) The international stock funds provide participation in financial markets outside of the United States. The international stock funds invest in international financial markets, primarily those of developed economies in Europe and the Pacific Basin. These funds invest primarily in equity securities issued by foreign corporations, but may invest in other securities perceived as offering attractive investment return opportunities. As with the domestic equity funds, the international equity funds combine Growth, Value, and Market-Oriented Advisers to ensure style diversification.
- (c) The fixed income funds strategies seek to invest at least 80% of their net assets plus any borrowing for investment purposes in a diversified portfolio of bonds, including corporate bonds of domestic and foreign issuers payable in U.S. dollars, short-term debt instruments, mortgage-related securities, and U.S. Treasury securities and other debt securities issued or guaranteed by the U.S. Government (including its agencies and instrumentalities). Although the strategies seek to invest primarily in investment-grade debt securities (i.e., those rated in the four highest rating categories by S&P or Moody's), they may include investing a portion of their net assets in bonds rated below investment grade.

7. INVESTMENTS AND INTEREST IN THE RETIREMENT TRUST FOR COOPERATIVES

Prior to October 18, 2016, the Plan was invested and a participant in the Prior Trust, managed by Wells Fargo Bank, N.A., as trustee, and on behalf of the Plan under the terms of the trust agreement between Wells Fargo Bank, N.A. and the Plan. The authority to invest was vested in the appointed money managers, subject to the funding policy and investment objectives established by the Plan Administrator. The changes in investments of the Prior Trust were reported to the Plan by the trustee and determined through the use of fair values. Since the Plan's funds were commingled with other plans participating in the Prior Trust, the net investment income reported from April 1, 2016 through October 17, 2016 reflect only the Plan's allocable portion based on the relationships of the interest of each plan to the total interests of the participating plans. From October 18, 2016 and subsequent, the Plan's investments are held in its own trust, managed by Wells Fargo Bank, N.A., as trustee.

The changes in net assets of the Prior Trust for the year ended March 31, 2017, is summarized below:

	2017
NET ASSETS AVAILABLE FOR BENEFITS—	
Beginning of year	<u>\$ 721,699,785</u>
Investment income:	
Interest and dividend income	973,805
Net appreciation	38,163,948
Investment expenses	<u>(631,438)</u>
Net investment income	38,506,315
Expenses	451,342
Transfer of assets:	
To Prior Trust (contributions)	19,910,308
From Prior Trust (benefit payments, disbursements, and transfers)	<u>(779,665,066)</u>
Net change	<u>(721,699,785)</u>
NET ASSETS AVAILABLE FOR BENEFITS—	
End of year	<u>\$ -</u>
Plan's allocable portion of net investment income of The Retirement Trust for Cooperatives	<u>\$ 2,167,770</u>

8. EXEMPT PARTY-IN-INTEREST TRANSACTIONS

Certain Plan investments are shares of mutual funds which are managed by the trustee as defined by the Plan and, therefore, these transactions qualify as party-in-interest transactions. Fees paid by the Plan for the investment management services are included as a reduction of the return on each fund.

9. FEDERAL INCOME TAX STATUS

The Internal Revenue Service (IRS) has determined and informed the Participating Employer and the Plan Administrator by a letter dated April 6, 2017, that the Plan and related trust were designed in accordance with applicable regulations of the Internal Revenue Code (IRC). The Plan has been amended since receiving the determination letter. The Participating Employer and the Plan Administrator believe that the Plan is currently designed and operated in compliance with the applicable requirements of the IRC and the Plan and related trust continue to be tax-exempt. Therefore, no provision for income taxes has been included in the Plan's financial statements.

GAAP requires Plan management to evaluate tax positions taken by the Plan and recognize a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress. The Participating Employer and the Plan Administrator believe it is no longer subject to income tax examinations for years prior to 2015.

10. PLAN TERMINATION

Although it has not expressed any intention to do so, the Participating Employer has the right under the Plan, in certain circumstances, to discontinue its contributions at any time and to terminate the Plan subject to the provisions set forth in ERISA. In the event that the Plan is terminated, the net assets of the Plan will be allocated for payment of plan benefits to the participants in an order of priority determined in accordance with ERISA, applicable regulations there under and the Plan document.

Certain benefits under the Plan are insured by the PBGC if the Plan terminates. Generally, the PBGC guarantees most vested normal age retirement benefits, early retirement benefits, and certain disability and survivor's pensions. However, the PBGC does not guarantee all types of benefits under the Plan, and the amount of benefit protection is subject to certain limitations. Vested benefits under the Plan are guaranteed at the level in effect on the date of the Plan's termination, subject to a statutory ceiling on the amount of an individual's monthly benefit.

Whether all participants receive their benefits should the Plan be terminated at some future time will depend on the sufficiency, at that time, of the Plan's net assets to provide those benefits, the priority of those benefits to be paid and the level and type of benefits guaranteed by the PBGC at that time. Some benefits may be fully or partially provided for by the then existing assets and the PBGC guaranty while other benefits may not be provided for at all.

* * * * *

SUPPLEMENTAL SCHEDULES

THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES

Administered By Associated Benefits Corporation

(Participating Employer—Heartland Co-op, Group 282)

EIN NUMBER: 42-0242420

PLAN NUMBER: 020

FORM 5500, SCHEDULE H, PART IV, LINE 4i—SCHEDULE OF ASSETS (HELD AT END OF YEAR)

AS OF MARCH 31, 2018

(a)	(b) Identity of Issue, Borrower, Lessor or Similar Party	(c) Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	(d) Cost	(e) Current Value
	ALPS CoreCommodity Management			
	Complete Commodities Strategy Fund	320,582 shares	\$ 2,367,152	\$ 2,494,126
	American Funds Europacific Growth Fund	42,882 shares	2,041,609	2,432,265
	Lazard Emerging Markets Debt Portfolio Class Fund	162,654 shares	1,346,385	1,384,187
	Metropolitan West Total Return Bond Fund	521,592 shares	5,627,894	5,455,855
	Oppenheimer International Bond Fund Class I	167,714 shares	999,630	1,012,992
	PIMCO High Yield Fund	194,365 shares	1,722,619	1,694,864
	Vanguard Emerging Market Stock Index Fund	34,342 shares	1,085,127	1,335,888
	Vanguard REIT Index Fund	34,431 shares	4,030,045	3,683,089
*	Wells Fargo Blackrock International Equity Index CIT	163,963 shares	2,039,929	2,545,678
*	Wells Fargo Blackrock S&P 500 Index CIT	282,354 shares	4,731,862	6,012,582
*	Wells Fargo Blackrock S&P Midcap Index CIT	170,138 shares	2,819,957	3,535,046
*	Wells Fargo Core Bond CIT	487,877 shares	5,381,955	5,398,407
*	Wells Fargo Federated Total Return Bond CIT	508,643 shares	5,381,955	5,462,878
*	Wells Fargo Liability Driven Solution CIT I F	139,435 shares	2,046,803	2,066,938
*	Wells Fargo Liability Driven Solution CIT II F	44,807 shares	799,224	816,404
*	Wells Fargo Liability Driven Solution CIT III F	5,180 shares	73,136	74,689
*	Wells Fargo MFS Value CIT	156,389 shares	2,856,319	3,453,218
*	Wells Fargo Multi-Manager Small Cap CIT	85,763 shares	1,518,742	1,967,777
*	Wells Fargo T. Rowe Price Institutional			
	Large Cap Growth Managed CIT	118,737 shares	2,297,841	3,417,007
*	Wells Fargo Blackrock Short-term Investment Fund	376,725 shares	<u>376,725</u>	<u>376,725</u>
	TOTAL INVESTMENTS		<u>\$ 49,544,909</u>	<u>\$ 54,620,615</u>

* Party-in-interest.

See accompanying independent auditors' report.

THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES**Administered By Associated Benefits Corporation****(Participating Employer—Heartland Co-op, Group 282)****EIN NUMBER: 42-0242420****PLAN NUMBER: 020****FORM 5500, SCHEDULE H, PART IV, LINE 4j—SCHEDULE OF REPORTABLE TRANSACTIONS****FOR THE YEAR ENDED MARCH 31, 2018**

(a) Identity of Party Involved	(b) Description of Asset	Number of Transactions	(c) Purchase Price	(d) Selling Price	(g) Cost of Asset	(h) Current Value of Asset on Transaction Date	(i) Net Gain (Loss)
SERIES OF TRANSACTIONS:							
* Wells Fargo	Blackrock Short-Term Investment Fund	78	\$ 3,632,470	\$ -	\$ 3,632,470	\$ 3,632,470	\$ -
* Wells Fargo	Blackrock Short-Term Investment Fund	83		3,692,022	3,692,022	3,692,022	

* Party-in-interest.

Note: Columns (e) and (f) are not applicable and have been omitted.

See accompanying independent auditors' report.

Plan Name: The Restated Contributory Retirement Plan for Cooperatives
Plan Sponsor EIN: 42-0242420
ERISA 3-digit Plan #: 020
Plan Year Ending: 03/31/2018

The required attachment marked with an "X" in the Attachment column is included within the Schedule SB – Single-Employer Defined Benefit Plan Actuarial Information pdf attachment to Form 5500 or Form 5500-SF, Part VI, line 11 which consists of the entire actuarial information issued by the plan's Actuary.

Form/Schedule	Line #	Description	Attachment
5500 Sch. SB		Actuarial Assumptions and Methods	X
5500 Sch. SB		Summary of Plan Provisions	X
5500 Sch. SB		Statement of Enrolled Actuary	X
5500 Sch. SB	7	Explanation of Discrepancy in Prior Year Funding Standard Carryover Balance or Prefunding Balance	
5500 Sch. SB	18	Contributions Made to the Plan for the Plan Year	
5500 Sch. SB	19	Discounted Employer Contributions	
5500 Sch. SB	22	Description of Weighted Average Retirement Age	X
5500 Sch. SB	24	Explanation of Change in Actuarial Assumptions	
5500 Sch. SB	26	Schedule of Active Participant Data	X
5500 Sch. SB	32	Schedule of Amortization Bases	

Plan Name: The Restated Contributory Retirement Plan for Cooperatives
Plan Sponsor EIN: 42-0242420
ERISA 3-digit Plan #: 020
Plan Year Ending: 03/31/2018

The required attachment marked with an "X" in the Attachment column is included within the Schedule SB – Single-Employer Defined Benefit Plan Actuarial Information pdf attachment to Form 5500 or Form 5500-SF, Part VI, line 11 which consists of the entire actuarial information issued by the plan's Actuary.

Form/Schedule	Line #	Description	Attachment
5500 Sch. SB		Actuarial Assumptions and Methods	X
5500 Sch. SB		Summary of Plan Provisions	X
5500 Sch. SB		Statement of Enrolled Actuary	X
5500 Sch. SB	7	Explanation of Discrepancy in Prior Year Funding Standard Carryover Balance or Prefunding Balance	
5500 Sch. SB	18	Contributions Made to the Plan for the Plan Year	
5500 Sch. SB	19	Discounted Employer Contributions	
5500 Sch. SB	22	Description of Weighted Average Retirement Age	X
5500 Sch. SB	24	Explanation of Change in Actuarial Assumptions	
5500 Sch. SB	26	Schedule of Active Participant Data	X
5500 Sch. SB	32	Schedule of Amortization Bases	

Plan Name: The Restated Contributory Retirement Plan for Cooperatives
Plan Sponsor EIN: 42-0242420
ERISA 3-digit Plan #: 020
Plan Year Ending: 03/31/2018

The required attachment marked with an "X" in the Attachment column is included within the Schedule SB – Single-Employer Defined Benefit Plan Actuarial Information pdf attachment to Form 5500 or Form 5500-SF, Part VI, line 11 which consists of the entire actuarial information issued by the plan's Actuary.

Form/Schedule	Line #	Description	Attachment
5500 Sch. SB		Actuarial Assumptions and Methods	X
5500 Sch. SB		Summary of Plan Provisions	X
5500 Sch. SB		Statement of Enrolled Actuary	X
5500 Sch. SB	7	Explanation of Discrepancy in Prior Year Funding Standard Carryover Balance or Prefunding Balance	
5500 Sch. SB	18	Contributions Made to the Plan for the Plan Year	
5500 Sch. SB	19	Discounted Employer Contributions	
5500 Sch. SB	22	Description of Weighted Average Retirement Age	X
5500 Sch. SB	24	Explanation of Change in Actuarial Assumptions	
5500 Sch. SB	26	Schedule of Active Participant Data	X
5500 Sch. SB	32	Schedule of Amortization Bases	

Plan Name: The Restated Contributory Retirement Plan for Cooperatives
Plan Sponsor EIN: 42-0242420
ERISA 3-digit Plan #: 020
Plan Year Ending: 03/31/2018

The required attachment marked with an "X" in the Attachment column is included within the Accountant's Opinion attachment to Schedule H, Part III, Line 3, which consists of the entire audit report issued by the plan's Independent Qualified Public Accountant ("IQPA").

Form/Schedule	Line #	Description	Attachment
5500 Sch. H	Line 3	Financial Statements used in formulating the IQPA's opinion	X
5500 Sch. H	Line 4i	Schedule of Assets (Held at End of Year)	X
5500 Sch. H	Line 4i	Schedule of Assets (Acquired and Disposed of Within Year)	
5500 Sch. H	Line 4j	Schedule of Reportable Transactions	X
5500 Sch. H	Line 4a	Schedule of Delinquent Participant Contributions	

Plan Name: The Restated Contributory Retirement Plan for Cooperatives
Plan Sponsor EIN: 42-0242420
ERISA 3-digit Plan #: 020
Plan Year Ending: 03/31/2018

The required attachment marked with an "X" in the Attachment column is included within the Accountant's Opinion attachment to Schedule H, Part III, Line 3, which consists of the entire audit report issued by the plan's Independent Qualified Public Accountant ("IQPA").

Form/Schedule	Line #	Description	Attachment
5500 Sch. H	Line 3	Financial Statements used in formulating the IQPA's opinion	X
5500 Sch. H	Line 4i	Schedule of Assets (Held at End of Year)	X
5500 Sch. H	Line 4i	Schedule of Assets (Acquired and Disposed of Within Year)	
5500 Sch. H	Line 4j	Schedule of Reportable Transactions	X
5500 Sch. H	Line 4a	Schedule of Delinquent Participant Contributions	

Plan Name: The Restated Contributory Retirement Plan for Cooperatives
Plan Sponsor EIN: 42-0242420
ERISA 3-digit Plan #: 020
Plan Year Ending: 03/31/2018

The required attachment marked with an "X" in the Attachment column is included within the Accountant's Opinion attachment to Schedule H, Part III, Line 3, which consists of the entire audit report issued by the plan's Independent Qualified Public Accountant ("IQPA").

Form/Schedule	Line #	Description	Attachment
5500 Sch. H	Line 3	Financial Statements used in formulating the IQPA's opinion	X
5500 Sch. H	Line 4i	Schedule of Assets (Held at End of Year)	X
5500 Sch. H	Line 4i	Schedule of Assets (Acquired and Disposed of Within Year)	
5500 Sch. H	Line 4j	Schedule of Reportable Transactions	X
5500 Sch. H	Line 4a	Schedule of Delinquent Participant Contributions	

Schedule C, line 2(h) Formula Description

Pool B

Category/Fund	Asset Class	Ticker	Allocation	Expense Ratio	Revenue Share	Net Exp Ratio
Equities:						
WF/T. Rowe Price Inst'l Large Cap Gr CIT F	Large Cap Growth	n/a	6.85%	0.33%	0.00%	0.33%
WF/Blackrock S&P 500 Index CIT F	Large Cap Core-passive	n/a	11.80%	0.014%	0.00%	0.01%
WF/WFS Value CIT F	Large Cap Value	n/a	6.85%	0.37%	0.00%	0.37%
WF/Blackrock S&P Midcap Index CIT F	Midcap Core-passive	n/a	6.85%	0.031%	0.00%	0.03%
WF/Multi-Manager Small Cap CIT F	Small Core	n/a	3.65%	0.61%	0.00%	0.61%
WF/Blackrock Intl Equity Index CIT F	Foreign Lg Bl-passive	n/a	4.80%	0.058%	0.00%	0.06%
Am Funds EuroPacific Growth R6	Foreign Large Blend	RERGX	4.80%	0.50%	0.00%	0.50%
Vanguard Emerging Mkts Stock Admiral	Diver. Em Mkts-passive	VEMAX	2.40%	0.14%	0.00%	0.14%
Core Fixed Income:						
WF Core Bond CIT F	Fixed - intermediate	n/a	10.65%	0.17%	0.00%	0.17%
MetWest Total Return Bond I	Fixed - intermediate	MWTLX	10.65%	0.44%	0.10%	0.34%
WF/Federated Total Return Bond CIT F	Fixed - intermediate	n/a	10.70%	0.17%	0.00%	0.17%
Specialty Fixed Income:						
PIMCO High Yield Inst'l	High Yield	PHYX	3.35%	0.55%	0.00%	0.55%
Oppenheimer International Bond Inst'l	Dev Mkt Intl Fixed	OIBIX	2.00%	0.59%	0.00%	0.59%
Lazard Emerging Markets Debt Inst'l	Emerging Mkt Fixed	LEDIX	2.65%	0.95%	0.10%	0.85%
Real Assets and Alternatives:						
Vanguard REIT Index Admiral	Real Estate-passive	VGSLX	7.20%	0.12%	0.00%	0.12%
ALPS/CoreComdty Mgmt CompleteComdty Strategy I	Commodities	JCRIX	4.80%	1.15%	0.16%	0.99%
			12.00%			
			100.00%			
Composite Expense Ratio:			0.29%			

SCHEDULE SB (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2017 This Form is Open to Public Inspection
---	--	---

For calendar plan year 2017 or fiscal plan year beginning 04/01/2017 and ending 03/31/2018

► **Round off amounts to nearest dollar.**

► **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES	B Three-digit plan number (PN) <u>020</u>	
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF HEARTLAND COOPERATIVE	D Employer Identification Number (EIN) 42-0242420	
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B		
F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500		

Part I Basic Information			
1	Enter the valuation date: Month <u>4</u> Day <u>1</u> Year <u>2017</u>		
2	Assets:		
	a Market value.....	2a	48,934,299
	b Actuarial value.....	2b	48,979,707
3	Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target
	a For retired participants and beneficiaries receiving payment.....	271	14,993,681
	b For terminated vested participants.....	231	5,067,242
	c For active participants.....	450	19,794,709
	d Total.....	952	39,855,632
4	If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐		
	a Funding target disregarding prescribed at-risk assumptions.....	4a	
	b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor.....	4b	
5	Effective interest rate.....	5	6.00 %
6	Target normal cost.....	6	1,887,788

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE	 Signature of actuary	<u>12/19/18</u> Date
	<u>Douglas S. Lane</u> Type or print name of actuary	<u>17-04376</u> Most recent enrollment number
	<u>Kidder-Lane Actuarial Services, LLC</u> Firm name	<u>(515) 453-8589</u> Telephone number (including area code)
	<u>5700 Westown Parkway, Suite 100</u> Address of the firm	
	<u>West Des Moines IA 50266</u>	

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

For Paperwork Reduction Act Notice, see the Instructions for Form 5500 or 5500-SF.

Schedule SB (Form 5500) 2017
v. 170203

Part II Beginning of Year Carryover and Prefunding Balances		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year).....	0	9,821,664
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8).....	0	9,821,664
10	Interest on line 9 using prior year's actual return of <u>5.35</u> %	0	525459
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year).....		738568
	b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>6.19</u> %		45717
	b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
	c Total available at beginning of current plan year to add to prefunding balance.....		784285
	d Portion of (c) to be added to prefunding balance.....		784285
12	Other reductions in balances due to elections or deemed elections.....	0	2436653
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12).....	0	8694755

Part III Funding Percentages		14	15
14	Funding target attainment percentage	100.00%	
15	Adjusted funding target attainment percentage.....	121.58%	
16	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	100.96%	
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	%	

Part IV Contributions and Liquidity Shortfalls					
18 Contributions made to the plan for the plan year by employer(s) and employees:					
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
04/01/2017		245,055			
07/11/2018	300,000				
08/07/2018	300,000				
09/05/2018	300,000				
10/12/2018	300,000				
			Totals ►	18(b)	1,200,000
				18(c)	245,055

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years.....	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date.....	19c	1,106,188

20 Quarterly contributions and liquidity shortfalls:

a Did the plan have a "funding shortfall" for the prior year?..... ☐ Yes ☒ No

b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?..... ☐ Yes ☐ No

c If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost**21** Discount rate:**a** Segment rates:

1st segment:

4.16 %

2nd segment:

5.72 %

3rd segment:

6.48 %

☐ N/A, full yield curve used**b** Applicable month (enter code).....**21b**

0

22 Weighted average retirement age**22**

62

23 Mortality table(s) (see instructions)☐ Prescribed - combined☒ Prescribed - separate☐ Substitute**Part VI Miscellaneous Items****24** Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment. ☐ Yes ☒ No**25** Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment. ☐ Yes ☒ No**26** Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment. ☒ Yes ☐ No**27** If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment**27****Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years****28** Unpaid minimum required contributions for all prior years**28**

0

29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....**29**

0

30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)**30**

0

Part VIII Minimum Required Contribution For Current Year**31** Target normal cost and excess assets (see instructions):**a** Target normal cost (line 6).....**31a**

1,887,788

b Excess assets, if applicable, but not greater than line 31a**31b**

0

32 Amortization installments:

Outstanding Balance

Installment

a Net shortfall amortization installment.....

0

0

b Waiver amortization installment

0

0

33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount**33****34** Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)....**34**

1,887,788

	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....	0	781,600	781,600

36 Additional cash requirement (line 34 minus line 35).....**36**

1,106,188

37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....**37**

1,106,188

38 Present value of excess contributions for current year (see instructions)**a** Total (excess, if any, of line 37 over line 36)**38a**

0

b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances**38b**

0

39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37).....**39**

0

40 Unpaid minimum required contributions for all years**40**

0

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)**41** If an election was made to use PRA 2010 funding relief for this plan:**a** Schedule elected☐ 2 plus 7 years☐ 15 years**b** Eligible plan year(s) for which the election in line 41a was made☐ 2008☐ 2009☐ 2010☐ 2011**42** Amount of acceleration adjustment**42****43** Excess installment acceleration amount to be carried over to future plan years**43**

Attachment to 2017 Form 5500
Schedule SB, line 22 - Description of Weighted Average Retirement Age

Plan Name THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES **EIN:** 42-0242420
Plan Sponsor's Name HEARTLAND COOPERATIVE **PN:** 020

The weighted average retirement age is equal to the normal retirement age of 62 .

List the rate of retirement at each age and describe the methodology used to compute the weighted average retirement age, including a description of the weight applied at each potential retirement age.

See the Actuarial Assumptions attachment for the retirement age probability assumption. The weighted retirement age uses the probabilities as the weights.

Attachment to 2017 Form 5500
Schedule SB, line 26 - Schedule of Active Participant Data

Plan Name THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES 42-0242420
Plan Sponsor's Name HEARTLAND COOPERATIVE **PN:** 020

Attained Age	YEARS OF CREDITED SERVICE								
	Under 1			1 to 4			5 to 9		
	No.	Average		No.	Average		No.	Average	
		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.
Under 25	12			24	41,784				
25 to 29	1			20	45,741		13		
30 to 34	5			10			13		
35 to 39	3			13			7		
40 to 44				10			8		
45 to 49	1			6			8		
50 to 54	1			15			13		
55 to 59	7			17			6		
60 to 64	2			8			8		
65 to 69	1			2			6		
70 & up				1			4		

Attained Age	YEARS OF CREDITED SERVICE								
	10 to 14			15 to 19			20 to 24		
	No.	Average		No.	Average		No.	Average	
		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.
Under 25									
25 to 29									
30 to 34	3								
35 to 39	10			10			1		
40 to 44	5			5			2		
45 to 49	3			9			7		
50 to 54	5			7			7		
55 to 59	11			8			8		
60 to 64	7			6			7		
65 to 69				2			5		
70 & up	2			2					

Attained Age	YEARS OF CREDITED SERVICE											
	25 to 29			30 to 34			35 to 39			40 & up		
	No.	Average		No.	Average		No.	Average		No.	Average	
		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.
Under 25												
25 to 29												
30 to 34												
35 to 39												
40 to 44												
45 to 49	1											
50 to 54	6			1			1					
55 to 59	13			8			3			1		
60 to 64	5			5			8			8		
65 to 69	2									6		
70 & up	3			1			1					

Actuarial Assumptions and Methods

Actuarial Assumptions

The actuarial assumptions used in the valuation of the Contributory and Noncontributory Plans are shown below. The assumptions used are the same assumptions that were used in the April 1, 2015 valuation except as noted below.

Interest

Segment Rates

Segment 1 – 4.16%

Segment 2 – 5.72%

Segment 3 – 6.48%

Prior Year: Segment Rates

Segment 1 – 4.43%

Segment 2 – 5.91%

Segment 3 – 6.65%

The Employee Accum Interest Rate is 2.55%, the prior year used 1.74% per annum for applicable groups.

Mortality

RP 2000 (Separate Male and Female Tables). 2017 Annuitant and Non-Annuitant static separate tables as set forth in Proposed Regulation 1.430(h)(3)-1.

Prior Year:

RP 2000 (Separate Male and Female Tables). 2016 Annuitant and Non-Annuitant static separate tables as set forth in Proposed Regulation 1.430(h)(3)-1.

Turnover

Based on select rates of turnover for the first four years of service and on the ultimate rates of turnover thereafter shown in the table below. Please note that Groups 4 and 527 use the same select rates of turnover but have different ultimate rates in a separate column. Sample rates are shown below.

Groups 216, 323, 326, and 415, do not have a pre-retirement withdrawal assumption.

Groups 509, 510, 513, 514, and 516 use the ultimate rates of termination for all years.

Rate of Turnover

<u>Age</u>	<u>Completed Years of Service</u>					
	0	1	2	3	4+ Ultimate	4+ 004 & 527
25	25.00%	25.00%	20.00%	15.00%	11.00%	9.00%
30	25.00%	25.00%	20.00%	15.00%	11.00%	9.00%
35	20.00%	20.00%	15.00%	15.00%	8.66%	8.00%
40	20.00%	20.00%	15.00%	15.00%	7.31%	6.00%
45	16.00%	16.00%	12.00%	8.00%	6.00%	4.00%
50	16.00%	16.00%	12.00%	8.00%	4.75%	3.00%
55	12.00%	12.00%	10.00%	8.00%	4.00%	2.00%
60	12.00%	12.00%	10.00%	8.00%	4.00%	2.00%

Salary Increase

Salary increase is based on an age-graded set of assumed salary increases illustrated in the table below:

<u>Age</u>	<u>Rate of Salary Increase</u>
25	7.50%
30	6.25
35	5.50
40	5.00
45	4.25
50	4.00
55	3.75
60	2.75

Incidence of Retirement

Employees eligible for the Rule of 85 benefit are assumed to retire according to the select rate shown below for the initial year after becoming eligible. The ultimate rates apply to Rule of 85 retirements after the initial year since becoming eligible and regular retirements.

Groups 216 and 326 do not have a retirement age probability table; all retirements are assumed to occur at age 62. For Group 415 all retirements are assumed to occur at age 65.

Rate of Retirement

<u>Age</u>	<u>Initial Year</u>	<u>Ultimate</u>
55	6%	3%
56	6%	3%
57	6%	3%
58	6%	3%
59	6%	3%
60	6%	3%
61	-	10%
62	-	30%
63	-	25%
64	-	25%
65	-	40%
66	-	25%
67	-	25%
68	-	25%
69	-	25%
70 & over		100%

Spouse's Benefit 80% of employees are assumed to be married, with females two years younger than males.

Expenses Administration expenses will be paid from investment income in excess of the assumed rate of return.

An expense of 0.08% of the Market Value of Assets was added to the Target Normal Cost, the prior year also used 0.08%.

The Target Normal Cost includes the plan's flat rate PBGC expense of \$69 per participant, last year was \$64 per participant.

**Contingency
Fund Charge** The contingency fund benefits were allocated to the appropriate group and are no longer funded by a charge. Last year the charge was 0.3726% of covered payroll, while groups 4 and 527 used 0.0507% of covered payroll.

Asset Valuation Method

The 2017 Valuation continues to utilize the PPA approved spread. This method was further described in IRS Notice 2009-22.

Summary of Plan Provisions

Effective Date	Restated April 1, 2002.
Participation Date	April 1 and October 1, after meeting eligibility.
Plan Year	April 1 through March 31.
Eligibility	Employer chooses: <ol style="list-style-type: none"> 1. Attainment of age 21, 4 months of employment, and works at least 1000 hours per year. 2. Attainment of age 21.
Employee Contribution	Not applicable for the Noncontributory Plans. Some contributory groups waive the employee contribution requirement. When elected, employees contribute 2 3/4% of their monthly earnings.
Average Monthly Earnings	Average of the highest five consecutive years prior to termination.
Credited Service	The number of 1,000 hour plan years. If fewer than 6 months is worked, then partial credit of completed months divided by 12 is given. If more than 6 months is worked, then a full year's credit is given.
Normal Retirement Date	First of the month coincident with or immediately following the 65 th birthday.
Normal Retirement Benefit	The monthly pension is equal to Average monthly Earnings multiplied by years of Credited Service, multiplied by a percentage specified in the Adoption Agreement.
Form of Monthly Retirement Income	Straight Life for single participants. Married participants receive the actuarial equivalent on a joint and 50% survivorship with 120 guaranteed payments, unless the spouse consents to select another form.
Early Retirement Benefit	A participant may retire at (i) age 55 with 10 years of service, (ii) age 62 with five years of service, or (iii) any time after the sum of his attained age and service is 85 or more provided, that he has at least 20 years of Credited Service.
Vesting	Employer elects 1 or 2 in Adoption Agreement:

Percentage	<p>1. 100% after 5 years of service.</p> <p>2. Follow the table below:</p> <table> <tr> <th>Service</th><th>Vesting %</th></tr> <tr> <td>< 2 years</td><td>0%</td></tr> <tr> <td>2 years</td><td>20%</td></tr> <tr> <td>3 years</td><td>40%</td></tr> <tr> <td>4 years</td><td>60%</td></tr> <tr> <td>5 years</td><td>80%</td></tr> <tr> <td>> 6 years</td><td>100%</td></tr> </table>	Service	Vesting %	< 2 years	0%	2 years	20%	3 years	40%	4 years	60%	5 years	80%	> 6 years	100%
Service	Vesting %														
< 2 years	0%														
2 years	20%														
3 years	40%														
4 years	60%														
5 years	80%														
> 6 years	100%														
Death Benefit	<p>The spouse or beneficiary of a participant who dies after becoming eligible for early or normal retirement is entitled to receive a death benefit equal to the greater of the Actuarial Value of: i) the survivor income payable had the participant retired and elected the joint and 100% survivor option on the first day of the month preceding his death, and ii) the participant's accrued benefit payable for 60 months.</p> <p>If an active participant dies prior to meeting eligibility requirements for early or normal retirement, the spouse or beneficiary is entitled to receive a death benefit equal to the greater of the Actuarial Value of: i) the survivor income payable had the participant terminated employment and immediately began receiving benefits under 50% Joint & Survivor option, and ii) the member's accrued benefit payable for 60 months.</p> <p>If survived by a spouse, the death benefit is paid as a life annuity equivalent in value to the greater of the Actuarial Values. The spouse may elect to receive the benefit as a 60 month certain annuity. If not survived by a spouse, the death benefit is paid as a 60 month annuity.</p>														
Disability Benefit	<p>If a participant is determined totally and permanently disabled, he is entitled to an immediate monthly income equal to his accrued benefit reduced 1/300 per month for each month prior to age 62 down to age 55 and actuarially thereafter. A minimum monthly benefit of \$50.00 is payable to a participant with at least 5 years of Credited Service at date of disability.</p>														
Late Retirement Benefit	<p>Benefit at actual retirement is based on Credited Service and Average Monthly Earnings to termination date.</p>														

<div>SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation</div>	<div>Single-Employer Defined Benefit Plan Actuarial Information</div> <div>This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code).</div> <div>▶ File as an attachment to Form 5500 or 5500-SF.</div>	<div>OMB No. 1210-0110</div> <div>2017</div> <div>This Form is Open to Public Inspection</div>
--	---	--

For calendar plan year 2017 or fiscal plan year beginning		and ending	
▶ Round off amounts to nearest dollar.			
▶ Caution: A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.			
A Name of plan		B Three-digit plan number (PN)	
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF		D Employer Identification Number (EIN)	
E Type of plan: ☐ Single ☐ Multiple-A ☐ Multiple-B		F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☐ More than 500	

Part I	Basic Information		
1	Enter the valuation date: Month _____ Day _____ Year _____		
2	Assets:		
	a Market value.....	2a	
	b Actuarial value	2b	
3	Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target
	a For retired participants and beneficiaries receiving payment		(3) Total Funding Target
	b For terminated vested participants		
	c For active participants		
	d Total		
4	If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐		
	a Funding target disregarding prescribed at-risk assumptions.....	4a	
	b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b	
5	Effective interest rate.....	5	%
6	Target normal cost	6	

Statement by Enrolled Actuary	
To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.	
SIGN HERE	
Signature of actuary	Date
Type or print name of actuary	Most recent enrollment number
Firm name	Telephone number (including area code)
Address of the firm	

Part II Beginning of Year Carryover and Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)		
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)		
9 Amount remaining (line 7 minus line 8)		
10 Interest on line 9 using prior year's actual return of _____ %		
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of _____ %		
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		
c Total available at beginning of current plan year to add to prefunding balance		
d Portion of (c) to be added to prefunding balance		
12 Other reductions in balances due to elections or deemed elections		
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)		

Part III Funding Percentages

14 Funding target attainment percentage	14	%
15 Adjusted funding target attainment percentage	15	%
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	%
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
Totals ►			18(b)		18(c)

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years	19a	
b Contributions made to avoid restrictions adjusted to valuation date	19b	
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	

20 Quarterly contributions and liquidity shortfalls:

a Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☐ No

b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No

c If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: %	2nd segment: %	3rd segment: %	☐ N/A, full yield curve used
b Applicable month (enter code).....				21b
22 Weighted average retirement age				22
23 Mortality table(s) (see instructions) ☐ Prescribed - combined ☐ Prescribed - separate ☐ Substitute				

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment	☐ Yes ☐ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment	☐ Yes ☐ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment	☐ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	29
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6)	31a		
b Excess assets, if applicable, but not greater than line 31a	31b		
32 Amortization installments:	Outstanding Balance	Installment	
a Net shortfall amortization installment.....			
b Waiver amortization installment			
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33).....	34		
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....			
36 Additional cash requirement (line 34 minus line 35).....	36		
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....	37		
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a		
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b		
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37).....	39		
40 Unpaid minimum required contributions for all years	40		

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:				
a Schedule elected	☐ 2 plus 7 years	☐ 15 years		
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008	☐ 2009	☐ 2010	☐ 2011
42 Amount of acceleration adjustment	42			
43 Excess installment acceleration amount to be carried over to future plan years	43			

Attachment to 2017 Form 5500
Schedule SB, line 22 - Description of Weighted Average Retirement Age

Plan Name THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES **EIN:** 42-0242420
Plan Sponsor's Name HEARTLAND COOPERATIVE **PN:** 020

The weighted average retirement age is equal to the normal retirement age of 62 .

List the rate of retirement at each age and describe the methodology used to compute the weighted average retirement age, including a description of the weight applied at each potential retirement age.

See the Actuarial Assumptions attachment for the retirement age probability assumption. The weighted retirement age uses the probabilities as the weights.

<div>SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation</div>	<div>Single-Employer Defined Benefit Plan Actuarial Information</div> <div>This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code).</div> <div>▶ File as an attachment to Form 5500 or 5500-SF.</div>	<div>OMB No. 1210-0110</div> <div>2017</div> <div>This Form is Open to Public Inspection</div>
--	---	--

For calendar plan year 2017 or fiscal plan year beginning		and ending	
▶ Round off amounts to nearest dollar.			
▶ Caution: A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.			
A Name of plan		B Three-digit plan number (PN)	
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF		D Employer Identification Number (EIN)	
E Type of plan: ☐ Single ☐ Multiple-A ☐ Multiple-B		F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☐ More than 500	

Part I	Basic Information		
1	Enter the valuation date: Month _____ Day _____ Year _____		
2	Assets:		
	a Market value.....	2a	
	b Actuarial value	2b	
3	Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target
	a For retired participants and beneficiaries receiving payment		(3) Total Funding Target
	b For terminated vested participants		
	c For active participants		
	d Total		
4	If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐		
	a Funding target disregarding prescribed at-risk assumptions.....	4a	
	b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b	
5	Effective interest rate.....	5	%
6	Target normal cost	6	

Statement by Enrolled Actuary	
To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.	
SIGN HERE	
Signature of actuary	Date
Type or print name of actuary	Most recent enrollment number
Firm name	Telephone number (including area code)
Address of the firm	

Part II Beginning of Year Carryover and Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)		
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)		
9 Amount remaining (line 7 minus line 8)		
10 Interest on line 9 using prior year's actual return of _____ %		
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of _____ %		
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		
c Total available at beginning of current plan year to add to prefunding balance		
d Portion of (c) to be added to prefunding balance		
12 Other reductions in balances due to elections or deemed elections		
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)		

Part III Funding Percentages

14 Funding target attainment percentage	14	%
15 Adjusted funding target attainment percentage	15	%
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	%
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
Totals ▶			18(b)	18(c)	

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years	19a	
b Contributions made to avoid restrictions adjusted to valuation date	19b	
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	

20 Quarterly contributions and liquidity shortfalls:

a Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☐ No

b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No

c If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: %	2nd segment: %	3rd segment: %	☐ N/A, full yield curve used
b Applicable month (enter code).....				21b
22 Weighted average retirement age				22
23 Mortality table(s) (see instructions)	☐ Prescribed - combined	☐ Prescribed - separate	☐ Substitute	

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment	☐ Yes ☐ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment	☐ Yes ☐ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment	☐ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	29
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6)	31a		
b Excess assets, if applicable, but not greater than line 31a	31b		
32 Amortization installments:	Outstanding Balance	Installment	
a Net shortfall amortization installment.....			
b Waiver amortization installment			
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33).....	34		
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....			
36 Additional cash requirement (line 34 minus line 35).....	36		
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....	37		
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a		
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b		
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37).....	39		
40 Unpaid minimum required contributions for all years	40		

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:				
a Schedule elected	☐ 2 plus 7 years	☐ 15 years		
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008	☐ 2009	☐ 2010	☐ 2011
42 Amount of acceleration adjustment	42			
43 Excess installment acceleration amount to be carried over to future plan years	43			

Attachment to 2017 Form 5500
Schedule SB, line 26 - Schedule of Active Participant Data

Plan Name THE RESTATED CONTRIBUTORY RETIREMENT PLAN FOR COOPERATIVES **EIN:** 42-0242420
Plan Sponsor's Name HEARTLAND COOPERATIVE **PN:** 020

Attained Age	YEARS OF CREDITED SERVICE								
	Under 1			1 to 4			5 to 9		
	No.	Average	Cash Bal.	No.	Average	Cash Bal.	No.	Average	Cash Bal.
Under 25	12			24	41,784				
25 to 29	1			20	45,741		13		
30 to 34	5			10			13		
35 to 39	3			13			7		
40 to 44				10			8		
45 to 49	1			6			8		
50 to 54	1			15			13		
55 to 59	7			17			6		
60 to 64	2			8			8		
65 to 69	1			2			6		
70 & up				1			4		

Attained Age	YEARS OF CREDITED SERVICE								
	10 to 14			15 to 19			20 to 24		
	No.	Average	Cash Bal.	No.	Average	Cash Bal.	No.	Average	Cash Bal.
Under 25									
25 to 29									
30 to 34	3								
35 to 39	10			10			1		
40 to 44	5			5			2		
45 to 49	3			9			7		
50 to 54	5			7			7		
55 to 59	11			8			8		
60 to 64	7			6			7		
65 to 69				2			5		
70 & up	2			2					

Attained Age	YEARS OF CREDITED SERVICE									
	25 to 29			30 to 34			35 to 39			40 & up
	No.	Average	Cash Bal.	No.	Average	Cash Bal.	No.	Average	Cash Bal.	Average
Under 25										
25 to 29										
30 to 34										
35 to 39										
40 to 44										
45 to 49	1									
50 to 54	6			1			1			
55 to 59	13			8			3			1
60 to 64	5			5			8			8
65 to 69	2									6
70 & up	3			1			1			