



## 2019 DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION  
ACCRUALS RELATED TO GAS PLANT  
AS OF SEPTEMBER 30, 2019

**\*\*Updated Depreciation Study:  
Effective FY2022-2025**

*Prepared by:*



*Excellence Delivered **As Promised***

VERMONT GAS SYSTEMS, INC.  
Burlington, Vermont

2019 DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION  
ACCRUALS RELATED TO GAS PLANT  
AS OF SEPTEMBER 30, 2019

GANNETT FLEMING VALUATION AND RATE CONSULTANTS, LLC  
Camp Hill Pennsylvania



*Excellence Delivered **As Promised***

July 12, 2021

Vermont Gas Systems, Inc.  
85 Swift Street  
South Burlington, VT 05403

Attention: Ashley Wainer  
Vice President of Finance

Ladies and Gentlemen:

Pursuant to your request, we have conducted a depreciation study related to the gas plant of Vermont Gas Systems, Inc. as of September 30, 2019. The attached report presents a description of the methods used in the estimation of depreciation, the summary of annual depreciation accrual rates, the statistical support for the life and net salvage estimates and the detailed tabulations of annual depreciation.

Respectfully submitted,

GANNETT FLEMING VALUATION  
AND RATE CONSULTANTS, LLC

A handwritten signature in black ink that reads "John J. Spanos".

JOHN J. SPANOS  
President

JJS:mle

065770.000

Gannett Fleming Valuation and Rate Consultants, LLC  
207 Senate Avenue • Camp Hill, PA 17011-2316  
t: 717.763.7211 • f: 717.763.4590  
[www.gfvrc.com](http://www.gfvrc.com)

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## **VERMONT GAS SYSTEMS, INC.**

### **DEPRECIATION STUDY**

#### **EXECUTIVE SUMMARY**

Pursuant to Vermont Gas Systems, Inc.'s ("VGS" or "Company") request, Gannett Fleming Valuation and Rate Consultants, LLC ("Gannett Fleming") conducted a depreciation study related to the gas plant of VGS as of September 30, 2019. The purpose of this study was to determine the annual depreciation accrual rates and amounts for book and ratemaking purposes.

The depreciation rates are based on the straight line method using the average service life ("ASL") procedure and were applied on a remaining life basis. The calculations were based on attained ages and estimated average service life, and forecasted net salvage characteristics for each depreciable group of assets.

VGS had the last depreciation study prepared as of September 30, 2014. Since the last study there were no significant changes in accounting policy or operational practices; however, VGS will be recording cost of removal and gross salvage to the accumulated depreciation reserve. There have been changes in the service life estimates over the last few years which are reflected in the proposed depreciation rates. The overall impact of the updated service lives and net salvage accrual component is a proposed increase of \$203,500.

Gannett Fleming recommends the calculated annual depreciation accrual rates set forth herein apply specifically to gas plant in service as of September 30, 2019 as summarized by Table 1 of the study. Supporting analysis and calculations are provided within the study.

The study results set forth an annual depreciation expense of \$10.5 million when applied to depreciable plant balances as of September 30, 2019. The results are summarized at the functional level as follows:

**SUMMARY OF ORIGINAL COST, ACCRUAL RATES AND AMOUNTS**

FUNCTION	ORIGINAL COST	PROPOSED RATE	ANNUAL ACCRUAL
PRODUCTION PLANT	3,238,561.07	2.42	78,407
OTHER STORAGE PLANT	18,661.95	2.46	459
TRANSMISSION PLANT	192,176,242.15	1.70	3,273,615
DISTRIBUTION PLANT	207,393,423.62	3.12	6,476,150
GENERAL PLANT	12,471,151.55	5.64	703,166
GENERAL PLANT RESERVE AMORTIZATION	-	-	(41,313)
<b>TOTAL</b>	<b><u>\$421,309,839.31</u></b>	<b>2.54</b>	<b><u>\$10,490,484</u></b>

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## **PART I. INTRODUCTION**

**VERMONT GAS SYSTEMS, INC.**  
**DEPRECIATION STUDY**

**PART I. INTRODUCTION**

**SCOPE**

This report sets forth the results of the depreciation study for Vermont Gas systems, Inc. (“VGS”), to determine the annual depreciation accrual rates and amounts for book purposes applicable to the original cost of gas plant as of September 30, 2019. The rates and amounts are based on the straight line remaining life method of depreciation. This report also describes the concepts, methods and judgments which underlie the recommended annual depreciation accrual rates related to gas plant in service as of September 30, 2019.

The service life and net salvage estimates resulting from the study were based on informed judgment which incorporated analyses of historical plant retirement data as recorded through fiscal 2019, a review of Company practice and outlook as they relate to plant operation and retirement, and consideration of current practice in the gas industry, including knowledge of service lives and net salvage estimates used for other gas companies.

**PLAN OF REPORT**

Part I, Introduction, contains statements with respect to the plan of the report, and the basis of the study. Part II, Estimation of Survivor Curves, presents descriptions of the considerations and methods used in the service life study. Part III, Service Life Considerations, presents the factors and judgment utilized in the average service life analysis. Part IV, Net Salvage Considerations, presents the judgment utilized in the net salvage study. Part V, Calculation of Annual and Accrued Depreciation, describes the procedures used in the calculation of group depreciation. Part VI, Results of Study,

presents summaries by depreciable group of annual depreciation accrual rates and amounts, as well as composite remaining lives. Part VII, Service Life Statistics presents the statistical analysis of service life estimates, Part VIII, Net Salvage Statistics sets forth the statistical indications of simulated net salvage percents, and Part IX, Detailed Depreciation Calculations presents the detailed tabulations of annual depreciation.

## BASIS OF THE STUDY

### Depreciation

Depreciation, in public utility regulation, is the loss in service value not restored by current maintenance, incurred in connection with the consumption or prospective retirement of utility plant in the course of service from causes which are known to be in current operation and against which the utility is not protected by insurance. Among causes to be given consideration are wear and tear, deterioration, action of the elements, inadequacy, obsolescence, changes in the art, changes in demand, and the requirements of public authorities.

Depreciation, as used in accounting, is a method of distributing fixed capital costs, less net salvage, over a period of time by allocating annual amounts to expense. Each annual amount of such depreciation expense is part of that year's total cost of providing gas utility service. Normally, the period of time over which the fixed capital cost is allocated to the cost of service is equal to the period of time over which an item renders service, that is, the item's service life. The most prevalent method of allocation is to distribute an equal amount of cost to each year of service life. This method is known as the straight-line method of depreciation.

For most accounts, the annual depreciation was calculated by the straight line method using the average service life procedure and the remaining life basis. For certain General Plant accounts, the annual depreciation is based on amortization

accounting. Both types of calculations were based on original cost, attained ages, and estimates of service lives and net salvage.

The straight line method, average service life procedure is a commonly used depreciation calculation procedure that has been widely accepted in jurisdictions throughout North America. Gannett Fleming recommends its continued use. Amortization accounting is used for certain General Plant accounts because of the disproportionate plant accounting effort required when compared to the minimal original cost of the large number of items in these accounts. An explanation of the calculation of annual and accrued amortization is presented beginning on page V-4 of the report.

### **Service Life and Net Salvage Estimates**

The service life and net salvage estimates used in the depreciation and amortization calculations were based on informed judgment which incorporated a review of management's plans, policies and outlook, a general knowledge of the gas utility industry, and comparisons of the service life and net salvage estimates from our studies of other gas utilities. The use of survivor curves to reflect the expected dispersion of retirement provides a consistent method of estimating depreciation for gas plant. Iowa type survivor curves were used to depict the estimated survivor curves for the plant accounts not subject to amortization accounting.

The procedure for estimating service lives consisted of compiling historical data for the plant accounts or depreciable groups, analyzing this history through the use of widely accepted techniques, and forecasting the survivor characteristics for each depreciable group on the basis of interpretations of the historical data analyses and the probable future. The combination of the historical experience and the estimated future yielded estimated survivor curves from which the average service lives were derived.

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## **PART II. ESTIMATION OF SURVIVOR CURVES**

## PART II. ESTIMATION OF SURVIVOR CURVES

The calculation of annual depreciation based on the straight line method requires the estimation of survivor curves and the selection of group depreciation procedures. The estimation of survivor curves is discussed below and the development of net salvage is discussed in later sections of this report.

### SURVIVOR CURVES

The use of an average service life for a property group implies that the various units in the group have different lives. Thus, the average life may be obtained by determining the separate lives of each of the units, or by constructing a survivor curve by plotting the number of units which survive at successive ages.

The survivor curve graphically depicts the amount of property existing at each age throughout the life of an original group. From the survivor curve, the average life of the group, the remaining life expectancy, the probable life, and the frequency curve can be calculated. In Figure 1, a typical smooth survivor curve and the derived curves are illustrated. The average life is obtained by calculating the area under the survivor curve, from age zero to the maximum age, and dividing this area by the ordinate at age zero. The remaining life expectancy at any age can be calculated by obtaining the area under the curve, from the observation age to the maximum age, and dividing this area by the percent surviving at the observation age. For example, in Figure 1, the remaining life at age 30 is equal to the crosshatched area under the survivor curve divided by 29.5 percent surviving at age 30. The probable life at any age is developed by adding the age and remaining life. If the probable life of the property is calculated for each year of age, the probable life curve shown in the chart can be developed. The frequency curve presents the number of units retired in each age interval. It is derived by obtaining the

differences between the amount of property surviving at the beginning and at the end of each interval.

This study has incorporated the use of Iowa curves developed from a retirement rate analysis of historical retirement history. A discussion of the concepts of survivor curves and of the development of survivor curves using the retirement rate method is presented below.

### **Iowa Type Curves**

The range of survivor characteristics usually experienced by utility and industrial properties is encompassed by a system of generalized survivor curves known as the Iowa type curves. There are four families in the Iowa system, labeled in accordance with the location of the modes of the retirements in relationship to the average life and the relative height of the modes. The left moded curves, presented in Figure 2, are those in which the greatest frequency of retirement occurs to the left of, or prior to, average service life. The symmetrical moded curves, presented in Figure 3, are those in which the greatest frequency of retirement occurs at average service life. The right moded curves, presented in Figure 4, are those in which the greatest frequency occurs to the right of, or after, average service life. The origin moded curves, presented in Figure 5, are those in which the greatest frequency of retirement occurs at the origin, or immediately after age zero. The letter designation of each family of curves (L, S, R or O) represents the location of the mode of the associated frequency curve with respect to the average service life. The numbers represent the relative heights of the modes of the frequency curves within each family.

The Iowa curves were developed at the Iowa State College Engineering Experiment Station through an extensive process of observation and classification of the ages at which industrial property had been retired. A report of the study which resulted in the classification of property survivor characteristics into 18 type curves,

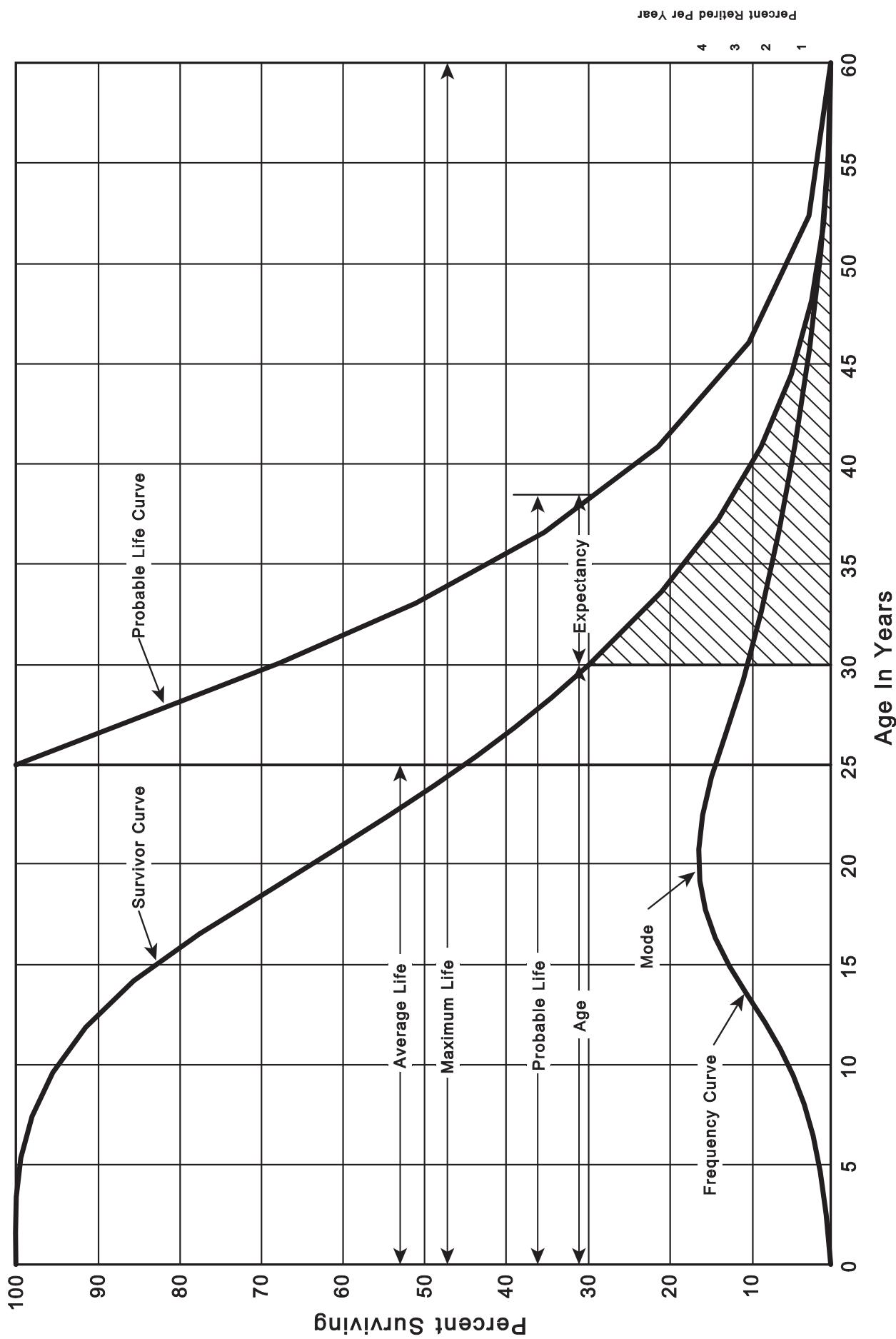


Figure 1. A Typical Survivor Curve and Derived Curves

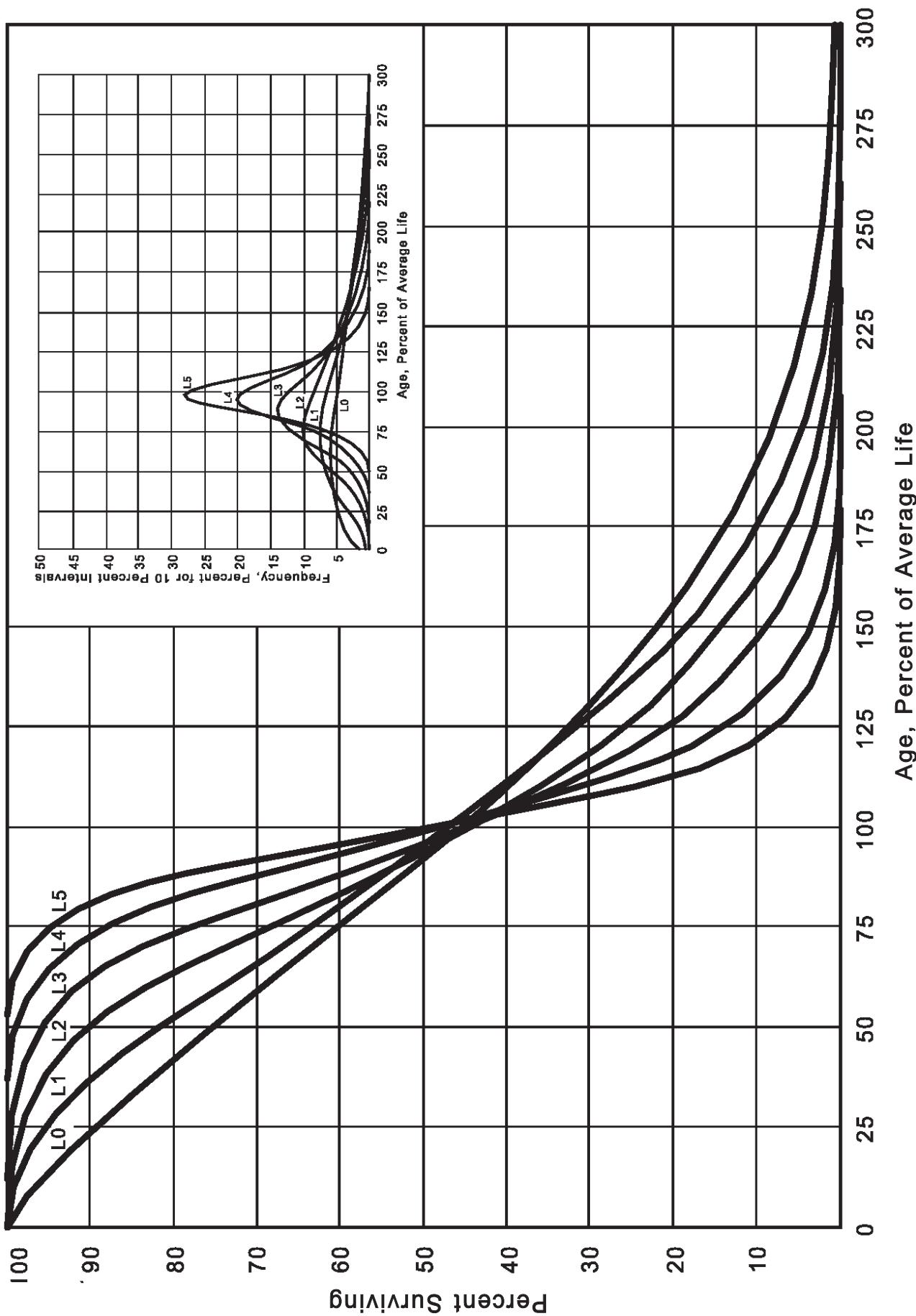
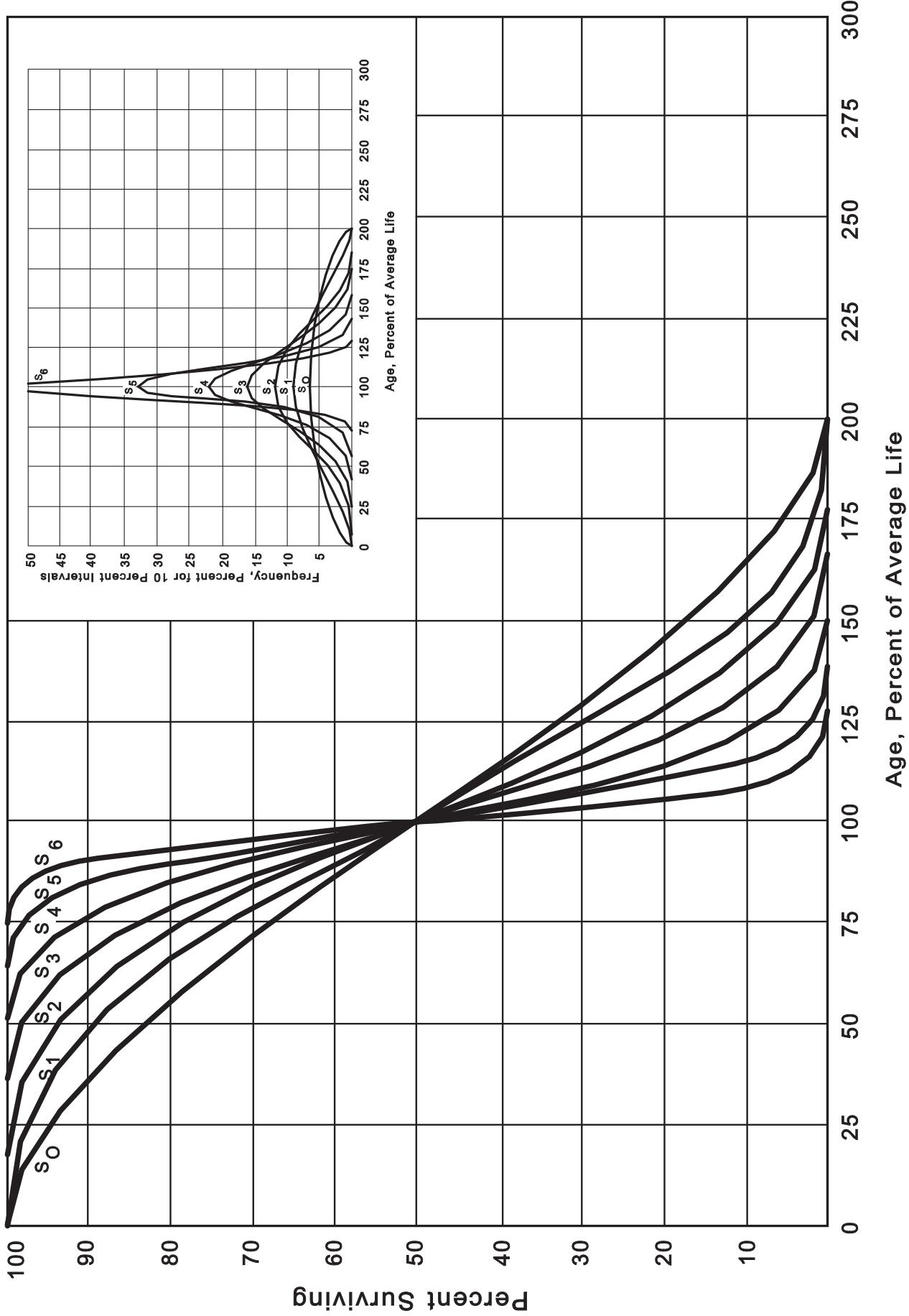


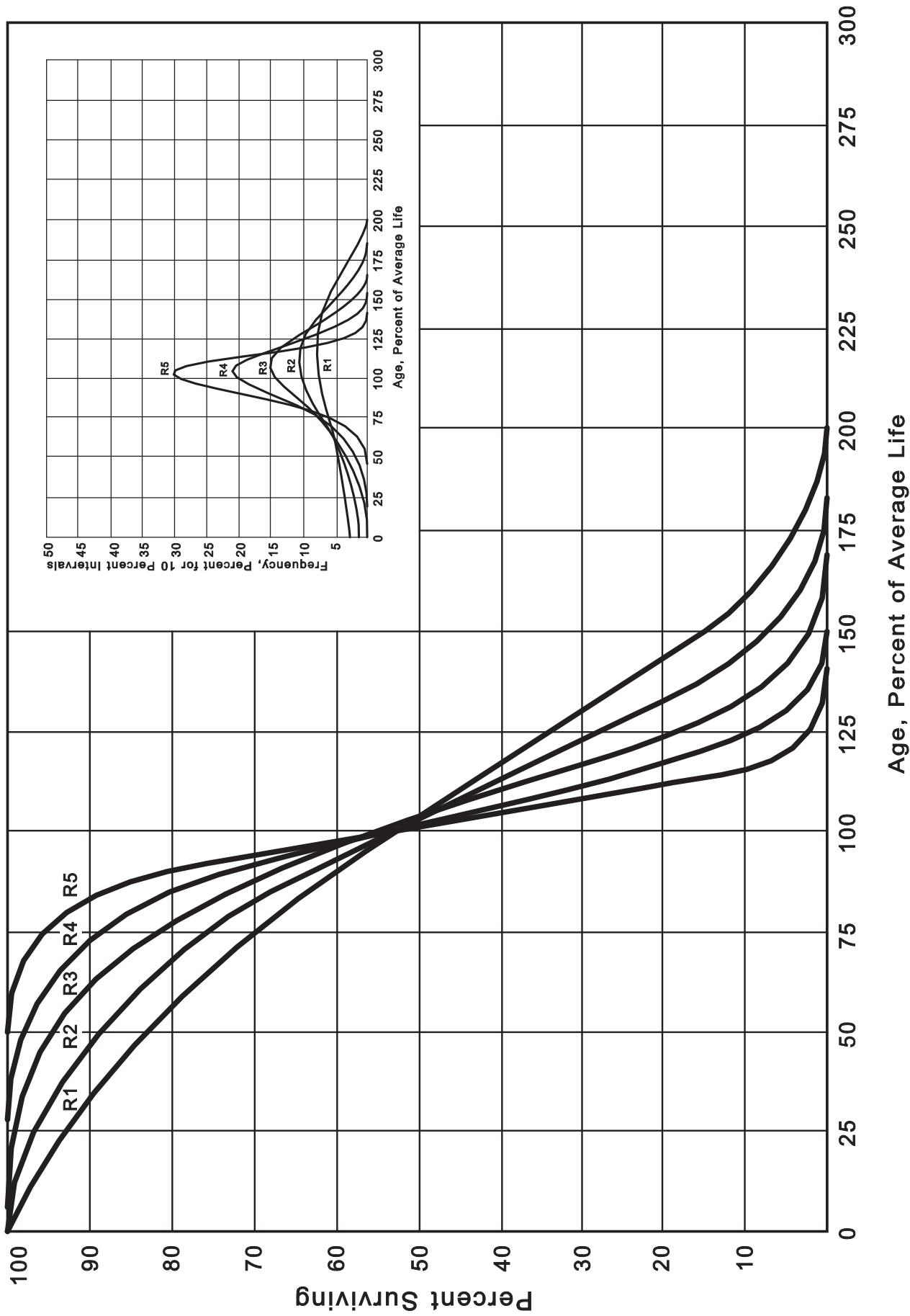
Figure 2. Left Modal or "L" Iowa Type Survivor Curves





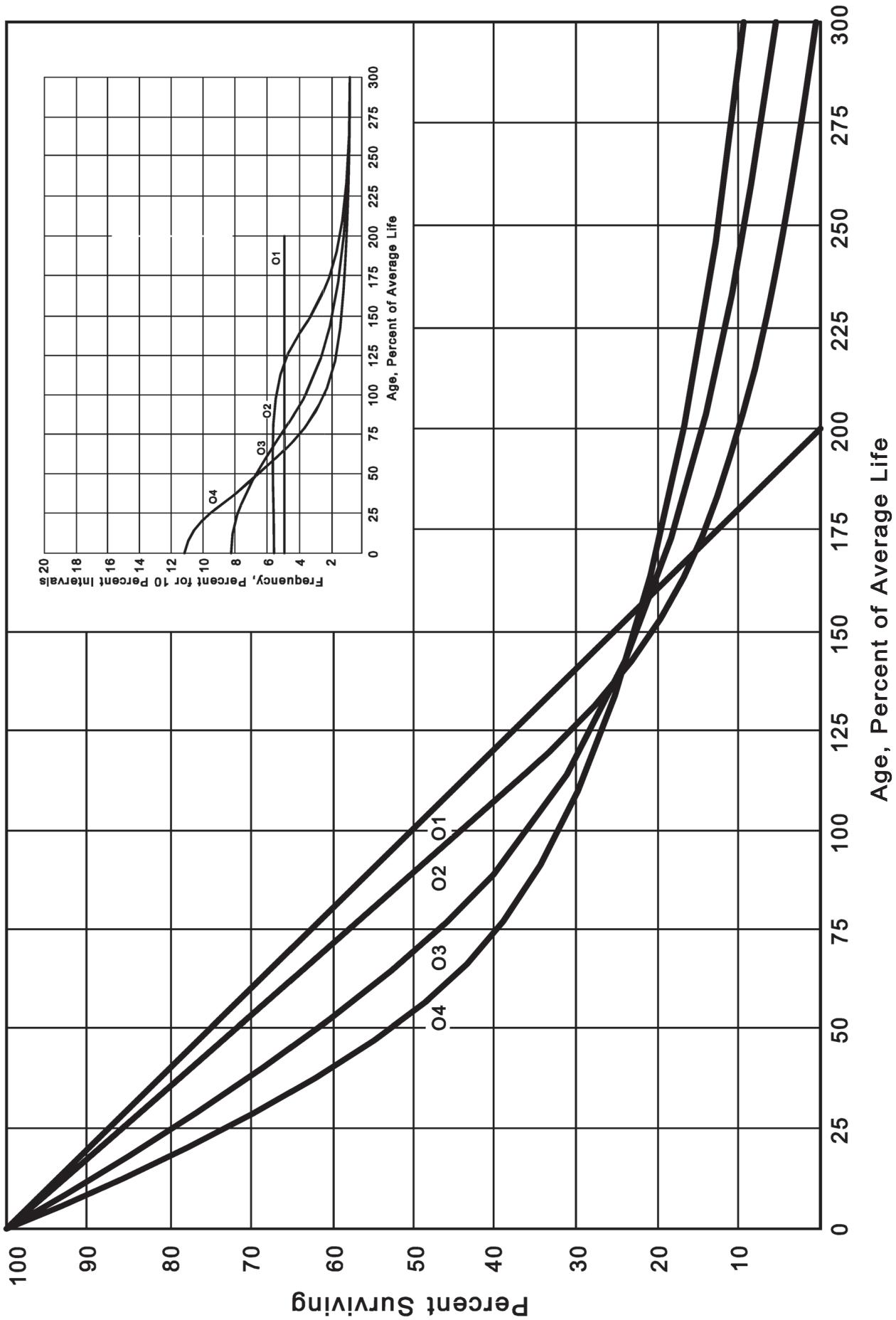
**Figure 3. Symmetrical or "S" Iowa Type Survivor Curves**





**Figure 4. Right Modal or "R" Iowa Type Survivor Curves**





**Figure 5. Origin Modal or "O" Iowa Type Survivor Curves**



which constitute three of the four families, was published in 1935 in the form of the Experiment Station's Bulletin 125. These curve types have also been presented in subsequent Experiment Station bulletins and in the text, "Engineering Valuation and Depreciation."<sup>1</sup> In 1957, Frank V. B. Couch, Jr., an Iowa State College graduate student submitted a thesis presenting his development of the fourth family consisting of the four O type survivor curves.

### **Retirement Rate Method of Analysis**

The retirement rate method is an actuarial method of deriving survivor curves using the average rates at which property of each age group is retired. The method relates to property groups for which aged accounting experience is available and is the method used to develop the original stub survivor curves in this study. The method (also known as the annual rate method) is illustrated through the use of an example in the following text, and is also explained in several publications, including "Statistical Analyses of Industrial Property Retirements,"<sup>2</sup> "Engineering Valuation and Depreciation,"<sup>3</sup> and "Depreciation Systems."<sup>4</sup>

The average rate of retirement used in the calculation of the percent surviving for the survivor curve (life table) requires two sets of data: first, the property retired during a period of observation, identified by the property's age at retirement; and second, the property exposed to retirement at the beginning of the age intervals during the same period. The period of observation is referred to as the experience band, and the band of years which represent the installation dates of the property exposed to retirement during the experience band is referred to as the placement band. An example of the calculations used in the development of a life table follows. The example includes

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<sup>1</sup>Marston, Anson, Robley Winfrey and Jean C. Hempstead. Engineering Valuation and Depreciation, 2nd Edition. New York, McGraw-Hill Book Company. 1953.

<sup>2</sup>Winfrey, Robley, Statistical Analyses of Industrial Property Retirements. Iowa State College, Engineering Experiment Station, Bulletin 125. 1935.

<sup>3</sup>Marston, Anson, Robley Winfrey, and Jean C. Hempstead, Supra Note 1.

<sup>4</sup>Wolf, Frank K. and W. Chester Fitch. Depreciation Systems. Iowa State University Press. 1994.

schedules of annual aged property transactions, a schedule of plant exposed to retirement, a life table and illustrations of smoothing the stub survivor curve.

### **Schedules of Annual Transactions in Plant Records**

The property group used to illustrate the retirement rate method is observed for the experience band 2010-2019 during which there were placements during the years 2005-2019. In order to illustrate the summation of the aged data by age interval, the data were compiled in the manner presented in Schedules 1 and 2 on pages II-11 and II-12. In Schedule 1, the year of installation (year placed) and the year of retirement are shown. The age interval during which a retirement occurred is determined from this information. In the example which follows, \$10,000 of the dollars invested in 2005 were retired in 2010. The \$10,000 retirement occurred during the age interval between 4½ and 5½ years on the basis that approximately one-half of the amount of property was installed prior to and subsequent to July 1 of each year. That is, on the average, property installed during a year is placed in service at the midpoint of the year for the purpose of the analysis. All retirements also are stated as occurring at the midpoint of a one-year age interval of time, except the first age interval which encompasses only one-half year.

The total retirements occurring in each age interval in a band are determined by summing the amounts for each transaction year-installation year combination for that age interval. For example, the total of \$143,000 retired for age interval 4½-5½ is the sum of the retirements entered on Schedule 1 immediately above the stair step line drawn on the table beginning with the 2010 retirements of 2005 installations and ending with the 2019 retirements of the 2014 installations. Thus, the total amount of 143 for age interval 4½-5½ equals the sum of:

$$10 + 12 + 13 + 11 + 13 + 13 + 15 + 17 + 19 + 20.$$

**SCHEDULE 1. RETIREMENTS FOR EACH YEAR 2010-2019  
SUMMARIZED BY AGE INTERVAL**

Experience Band 2010-2019

Placement Band 2005-2019

Year Placed (1)	Retirements, Thousands of Dollars									Total During Age Interval (12)	Age Interval (13)
	2010 (2)	2011 (3)	2012 (4)	2013 (5)	2014 (6)	2015 (7)	2016 (8)	2017 (9)	2018 (10)	2019 (11)	
2005 10	11	12	13	14	16	23	24	25	26	26	13½-14½
2006 11	12	13	15	16	18	20	21	22	19	44	12½-13½
2007 11	12	13	14	16	17	19	21	22	18	64	11½-12½
2008 8	9	10	11	11	13	14	15	16	17	83	10½-11½
2009 9	10	11	12	13	14	16	17	19	20	93	9½-10½
2010 4	9	10	11	12	13	14	15	16	20	105	8½-9½
2011 5	11	12	13	14	15	16	15	16	18	20	113
2012 6	12	13	15	16	17	17	19	19	19	124	6½-7½
2013	6	12	13	15	16	17	17	19	19	131	5½-6½
2014	7	14	16	17	17	19	19	20	20	143	4½-5½
2015	8	18	20	20	22	22	23	23	23	146	3½-4½
2016	9	20	22	22	25	25	25	25	25	150	2½-3½
2017	11	23	23	25	25	25	25	25	25	151	1½-2½
2018										153	½-1½
2019										80	0-½
Total	53	68	86	106	128	157	196	231	273	308	1,606

**SCHEDULE 2. OTHER TRANSACTIONS FOR EACH YEAR 2010-2019**  
**SUMMARIZED BY AGE INTERVAL**

Experience Band 2010-2019

Placement Band 2005-2019

Year Placed (1)	Acquisitions, Transfers and Sales, Thousands of Dollars										Total During Age Interval (12)	Age Interval (13)
	2010 (2)	2011 (3)	2012 (4)	2013 (5)	2014 (6)	2015 (7)	2016 (8)	2017 (9)	2018 (10)	2019 (11)		
2005	-	-	-	-	-	-	60 <sup>a</sup>	-	-	-	-	13½-14½
2006	-	-	-	-	-	-	-	-	-	-	-	12½-13½
2007	-	-	-	-	-	-	-	-	-	-	-	11½-12½
2008	-	-	-	-	-	-	(5) <sup>b</sup>	-	-	-	60	10½-11½
2009	-	-	-	-	-	-	6 <sup>a</sup>	-	-	-	-	9½-10½
2010	-	-	-	-	-	-	-	-	-	(5)	6	8½-9½
2011	-	-	-	-	-	-	-	-	-	-	-	7½-8½
2012	-	-	-	-	-	-	-	-	-	-	-	6½-7½
2013	-	-	-	-	-	-	(12) <sup>b</sup>	-	-	-	-	5½-6½
2014	-	-	-	-	-	-	22 <sup>a</sup>	-	-	-	-	4½-5½
2015	-	-	-	-	-	-	(19) <sup>b</sup>	-	-	-	10	3½-4½
2016	-	-	-	-	-	-	-	-	-	-	-	2½-3½
2017	-	-	-	-	-	-	-	-	-	(121)	-	1½-2½
2018	-	-	-	-	-	-	-	-	-	-	-	½-1½
2019	-	-	-	-	-	-	-	-	-	-	-	0-½
Total	-	-	-	-	-	-	60	(30)	22	(102)	(50)	

<sup>a</sup> Transfer Affecting Exposures at Beginning of Year

<sup>b</sup> Transfer Affecting Exposures at End of Year

<sup>c</sup> Sale with Continued Use

Parentheses Denote Credit Amount.

In Schedule 2, other transactions which affect the group are recorded in a similar manner. The entries illustrated include transfers and sales. The entries which are credits to the plant account are shown in parentheses. The items recorded on this schedule are not totaled with the retirements, but are used in developing the exposures at the beginning of each age interval.

### **Schedule of Plant Exposed to Retirement**

The development of the amount of plant exposed to retirement at the beginning of each age interval is illustrated in Schedule 3 on page II-14. The surviving plant at the beginning of each year from 2010 through 2019 is recorded by year in the portion of the table headed "Annual Survivors at the Beginning of the Year." The last amount entered in each column is the amount of new plant added to the group during the year. The amounts entered in Schedule 3 for each successive year following the beginning balance or addition are obtained by adding or subtracting the net entries shown on Schedules 1 and 2. For the purpose of determining the plant exposed to retirement, transfers-in are considered as being exposed to retirement in this group at the beginning of the year in which they occurred, and the sales and transfers-out are considered to be removed from the plant exposed to retirement at the beginning of the following year. Thus, the amounts of plant shown at the beginning of each year are the amounts of plant from each placement year considered to be exposed to retirement at the beginning of each successive transaction year. For example, the exposures for the installation year 2015 are calculated in the following manner:

Exposures at age 0	= amount of addition	= \$750,000
Exposures at age ½	= \$750,000 - \$8,000	= \$742,000
Exposures at age 1½	= \$742,000 - \$18,000	= \$724,000
Exposures at age 2½	= \$724,000 - \$20,000 - \$19,000	= \$685,000
Exposures at age 3½	= \$685,000 - \$22,000	= \$663,000

**SCHEDULE 3. PLANT EXPOSED TO RETIREMENT  
JANUARY 1 OF EACH YEAR 2010-2019  
SUMMARIZED BY AGE INTERVAL**

Experience Band 2010-2019

<sup>a</sup>Additions during the year



For the entire experience band 2010-2019, the total exposures at the beginning of an age interval are obtained by summing diagonally in a manner similar to the summing of the retirements during an age interval (Schedule 1). For example, the figure of 3,789, shown as the total exposures at the beginning of age interval 4½-5½, is obtained by summing:

$$255 + 268 + 284 + 311 + 334 + 374 + 405 + 448 + 501 + 609.$$

### Original Life Table

The original life table, illustrated in Schedule 4 on page II-16, is developed from the totals shown on the schedules of retirements and exposures, Schedules 1 and 3, respectively. The exposures at the beginning of the age interval are obtained from the corresponding age interval of the exposure schedule, and the retirements during the age interval are obtained from the corresponding age interval of the retirement schedule. The retirement ratio is the result of dividing the retirements during the age interval by the exposures at the beginning of the age interval. The percent surviving at the beginning of each age interval is derived from survivor ratios, each of which equals one minus the retirement ratio. The percent surviving is developed by starting with 100% at age zero and successively multiplying the percent surviving at the beginning of each interval by the survivor ratio, i.e., one minus the retirement ratio for that age interval. The calculations necessary to determine the percent surviving at age 5½ are as follows:

Percent surviving at age 4½	=	88.15
Exposures at age 4½	=	3,789,000
Retirements from age 4½ to 5½	=	143,000
Retirement Ratio	=	$143,000 \div 3,789,000 = 0.0377$
Survivor Ratio	=	$1.000 - 0.0377 = 0.9623$
Percent surviving at age 5½	=	$(88.15) \times (0.9623) = 84.83$

The totals of the exposures and retirements (columns 2 and 3) are shown for the purpose of checking with the respective totals in Schedules 1 and 3. The ratio of the total retirements to the total exposures, other than for each age interval, is meaningless.

**SCHEDULE 4. ORIGINAL LIFE TABLE  
CALCULATED BY THE RETIREMENT RATE METHOD**

Experience Band 2010-2019

Placement Band 2005-2019

(Exposure and Retirement Amounts are in Thousands of Dollars)

Age at Beginning of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retirement Ratio	Survivor Ratio	Percent Surviving at Beginning of Age Interval
(1)	(2)	(3)	(4)	(5)	(6)
0.0	7,490	80	0.0107	0.9893	100.00
0.5	6,579	153	0.0233	0.9767	98.93
1.5	5,719	151	0.0264	0.9736	96.62
2.5	4,955	150	0.0303	0.9697	94.07
3.5	4,332	146	0.0337	0.9663	91.22
4.5	3,789	143	0.0377	0.9623	88.15
5.5	3,057	131	0.0429	0.9571	84.83
6.5	2,463	124	0.0503	0.9497	81.19
7.5	1,952	113	0.0579	0.9421	77.11
8.5	1,503	105	0.0699	0.9301	72.65
9.5	1,097	93	0.0848	0.9152	67.57
10.5	823	83	0.1009	0.8991	61.84
11.5	531	64	0.1205	0.8795	55.60
12.5	323	44	0.1362	0.8638	48.90
13.5	<u>167</u>	<u>26</u>	0.1557	0.8443	42.24
					35.66
Total	<u>44,780</u>	<u>1,606</u>			

Column 2 from Schedule 3, Column 12, Plant Exposed to Retirement.

Column 3 from Schedule 1, Column 12, Retirements for Each Year.

Column 4 = Column 3 Divided by Column 2.

Column 5 = 1.0000 Minus Column 4.

Column 6 = Column 5 Multiplied by Column 6 as of the Preceding Age Interval.

The original survivor curve is plotted from the original life table (column 6, Schedule 4).

When the curve terminates at a percent surviving greater than zero, it is called a stub survivor curve. Survivor curves developed from retirement rate studies generally are stub curves.

### **Smoothing the Original Survivor Curve**

The smoothing of the original survivor curve eliminates any irregularities and serves as the basis for the preliminary extrapolation to zero percent surviving of the original stub curve. Even if the original survivor curve is complete from 100% to zero percent, it is desirable to eliminate any irregularities, as there is still an extrapolation for the vintages which have not yet lived to the age at which the curve reaches zero percent. In this study, the smoothing of the original curve with established type curves was used to eliminate irregularities in the original curve.

The Iowa type curves are used in this study to smooth those original stub curves which are expressed as percents surviving at ages in years. Each original survivor curve was compared to the Iowa curves using visual and mathematical matching in order to determine the better fitting smooth curves. In Figures 6, 7, and 8, the original curve developed in Schedule 4 is compared with the L, S, and R Iowa type curves which most nearly fit the original survivor curve. In Figure 6, the L1 curve with an average life between 12 and 13 years appears to be the best fit. In Figure 7, the S0 type curve with a 12-year average life appears to be the best fit and appears to be better than the L1 fitting. In Figure 8, the R1 type curve with a 12-year average life appears to be the best fit and appears to be better than either the L1 or the S0.

In Figure 9, the three fittings, 12-L1, 12-S0 and 12-R1 are drawn for comparison purposes. It is probable that the 12-R1 Iowa curve would be selected as the most representative of the plotted survivor characteristics of the group.

FIGURE 6 . ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN L1 IOWA TYPE CURVE  
ORIGINAL AND SMOOTH SURVIVOR CURVES

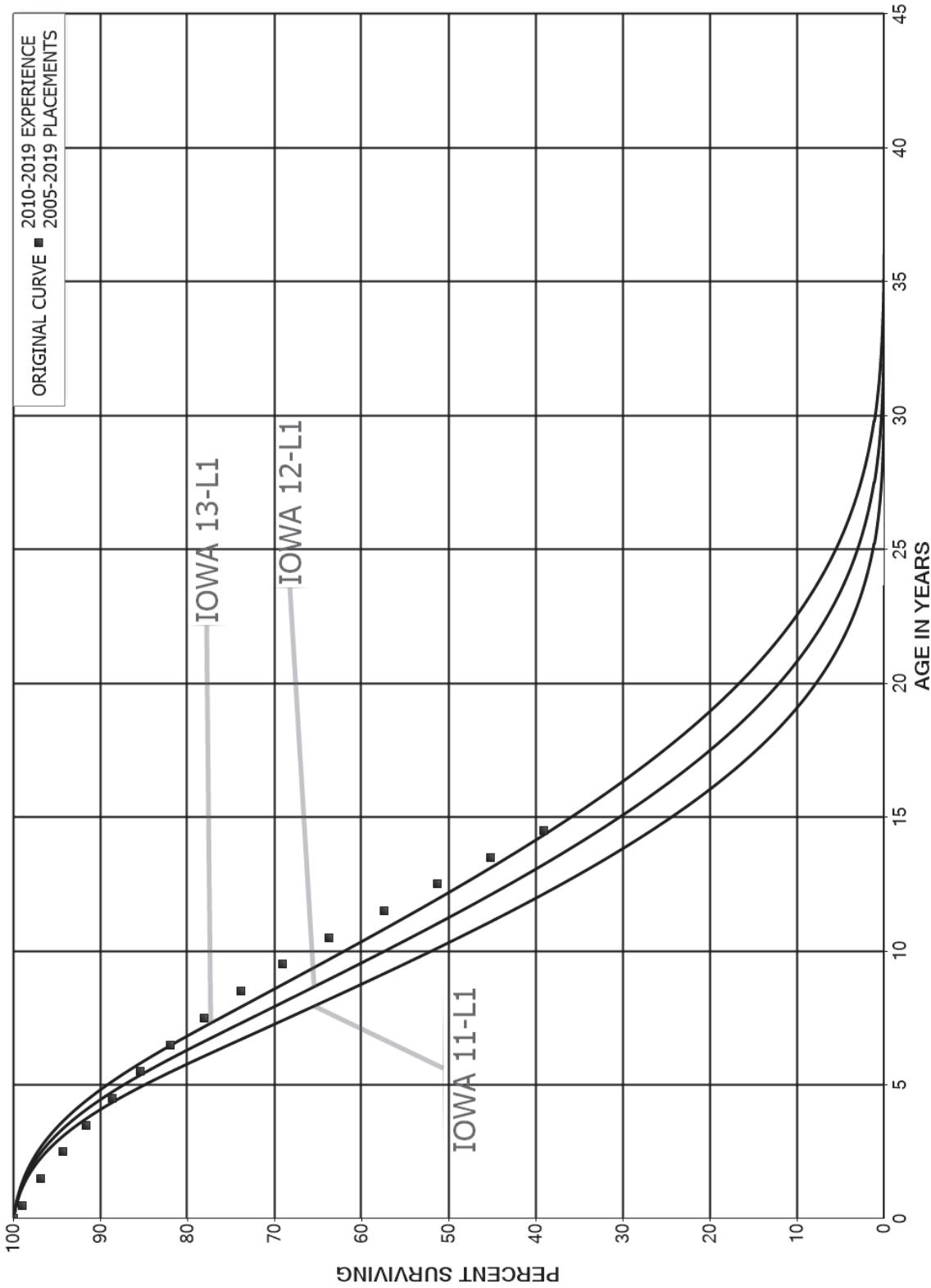


FIGURE 7 . ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN SO IOWA TYPE CURVE  
ORIGINAL AND SMOOTH SURVIVOR CURVES

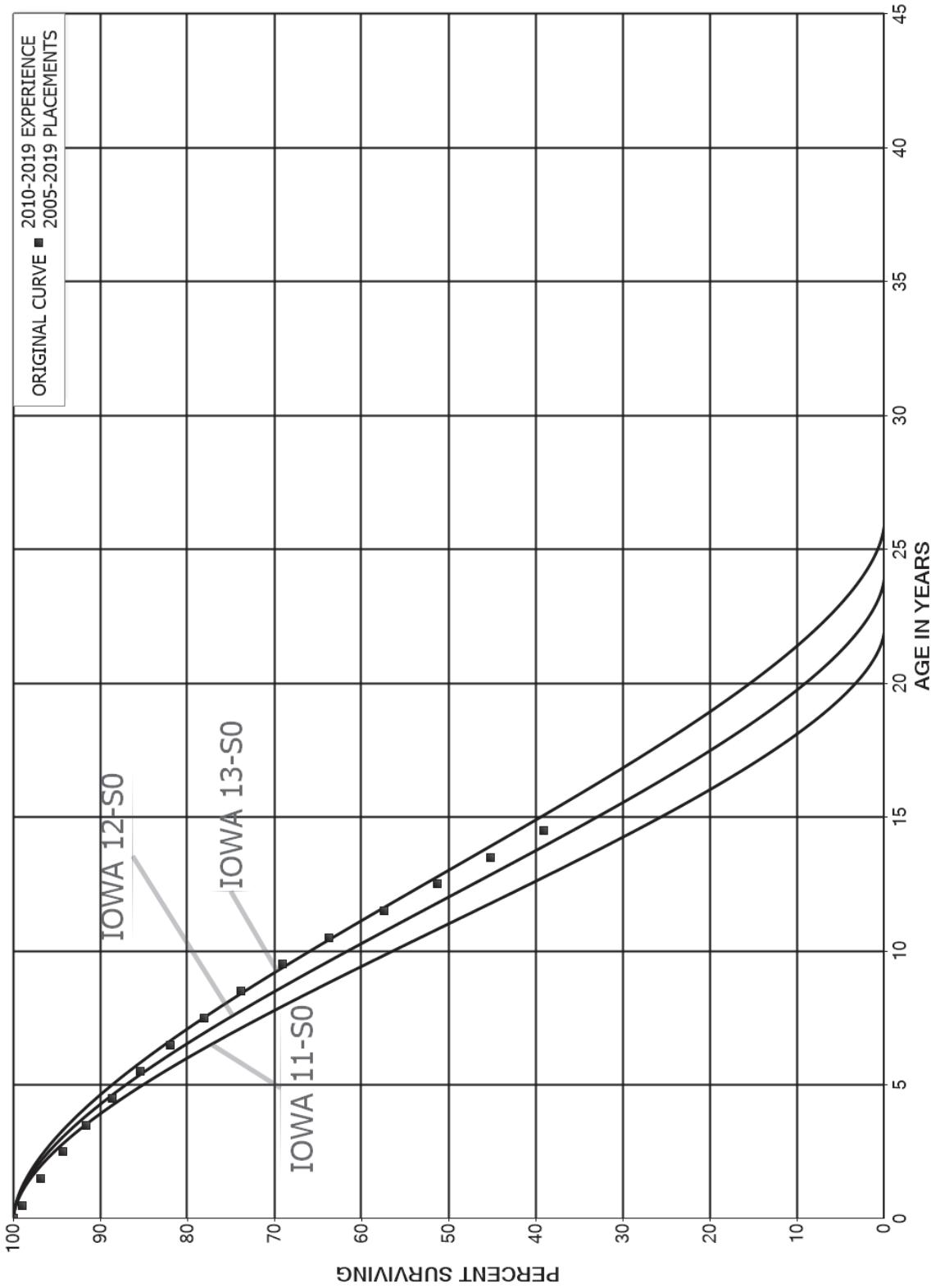


FIGURE 8 . ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN R1 IOWA TYPE CURVE  
ORIGINAL AND SMOOTH SURVIVOR CURVES

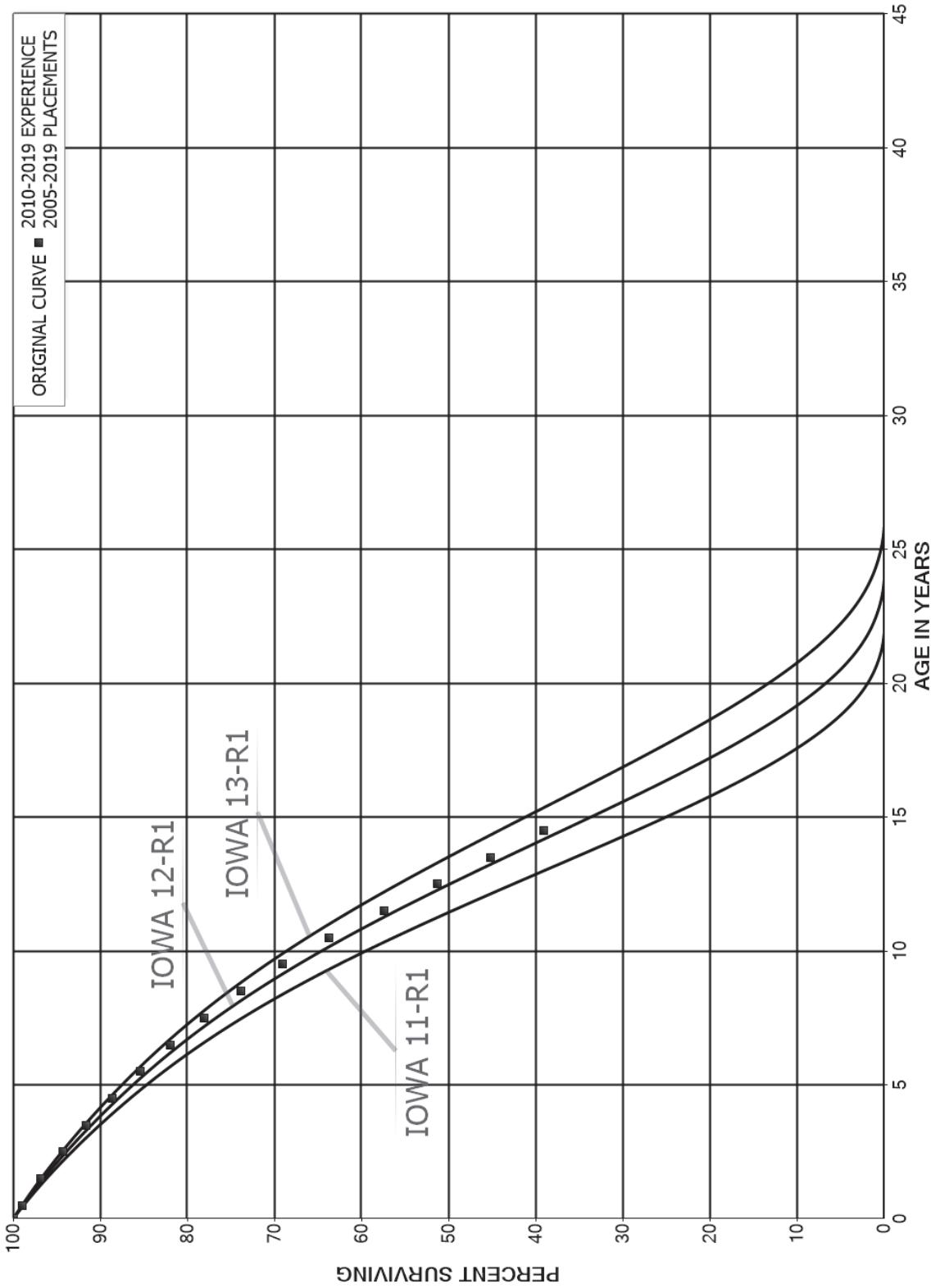
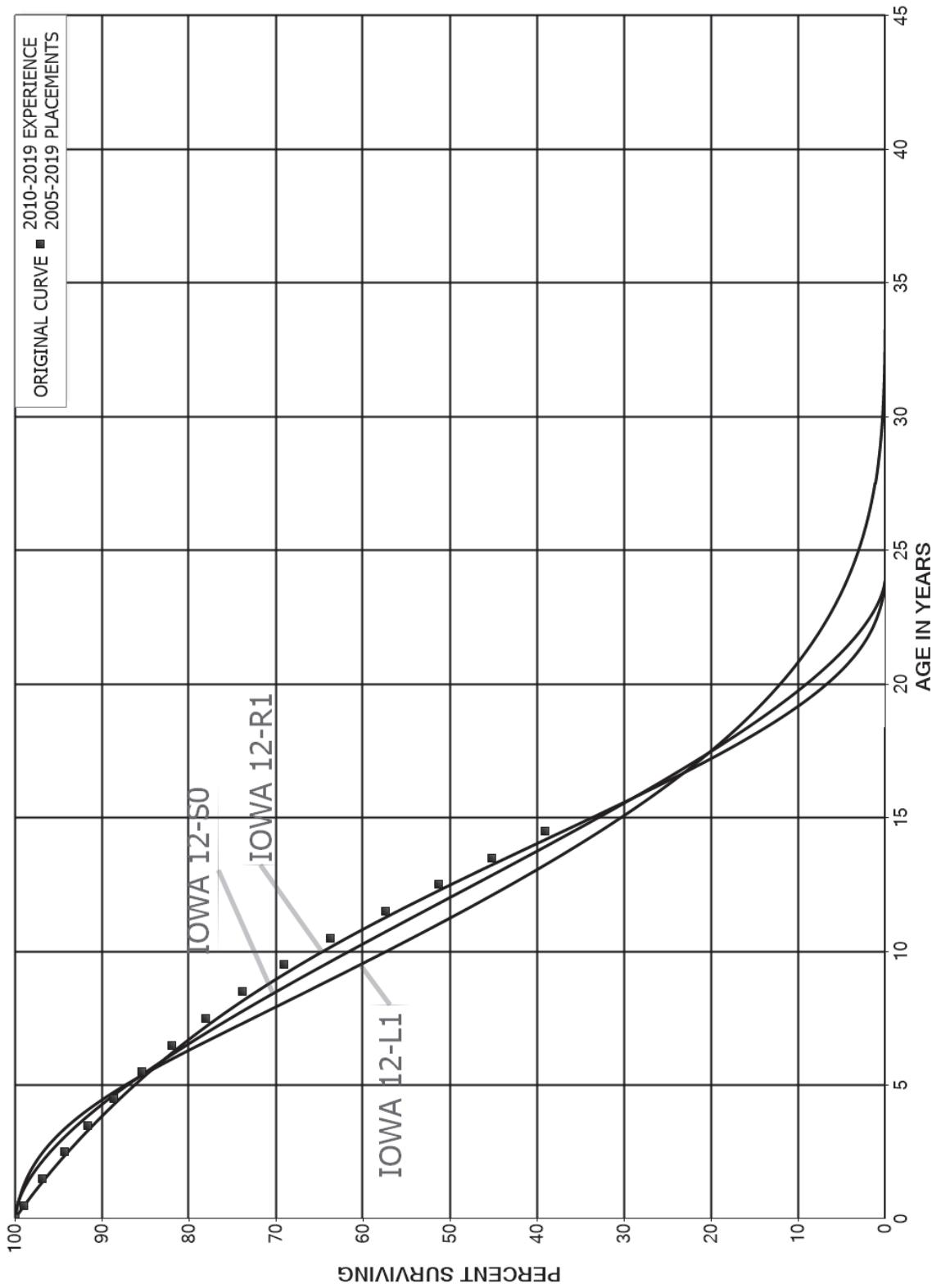


FIGURE 9. ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN L1, S0 AND R1 IOWA TYPE CURVE  
ORIGINAL AND SMOOTH SURVIVOR CURVES



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## **PART III. SERVICE LIFE CONSIDERATIONS**

## PART III. SERVICE LIFE CONSIDERATIONS

### FIELD TRIPS

In order to be familiar with the operation of the Company and observe representative portions of the plant, a field trip was conducted for the study. A general understanding of the function of the plant and information with respect to the reasons for past retirements and the expected future causes of retirements are obtained during field trips. This knowledge and information were incorporated in the interpretation and extrapolation of the statistical analyses.

The following is a list of the locations visited during the most recent field trips.

#### September 24, 2019

Vermont Gas Office and Service Center  
Middle Road Gate Station  
Sunderland Propane Air Plant  
Winooski Gate Station  
Williston Gate Station

#### January 14, 2015

Propane Peak Shaving Facility  
Winooski Gate Station  
Middle Road Gate Station  
Green Mountain Coffee Roasters Measuring & Reg Station  
Vermont Gas Office and Service Center

### SERVICE LIFE ANALYSIS

The service life estimates were based on informed judgment which considered a number of factors. The primary factors were the statistical analyses of data; current Company policies and outlook as determined during conversations with management; and the survivor curve estimates from previous studies of this company and other gas companies.

For many of the plant accounts and subaccounts for which survivor curves were estimated, the statistical analyses using the retirement rate method resulted in good to excellent indications of the survivor patterns experienced. These accounts represent 50 percent of depreciable plant. Generally, the information external to the statistics led to no significant departure from the indicated survivor curves for the accounts listed below. The statistical support for the service life estimates is presented in the section beginning on page VII-2.

#### TRANSMISSION PLANT

369 Measuring and Regulating Station Equipment

#### DISTRIBUTION PLANT

376.1 Mains - Steel  
376.2 Mains - Plastic  
378 Measuring and Regulating Station Equipment - General  
380.1 Services - Steel  
380.2 Services - Plastic  
381 Meters  
381.5 Meters - ERTs  
382 Meter Installations  
385 Industrial Measuring and Regulating Station Equipment  
386.1 Water Heaters

#### GENERAL PLANT

396 Power Operated Equipment

The estimated survivor curves for most property accounts are based on statistical analyses of plant accounting data and the range of lives and type curves used for other companies in the gas industry. The combined Account 380.1, Services – Steel and Account 380.2, Services - Plastic, is one of the largest plant accounts and is used to illustrate the manner in which the study was conducted for the groups using the retirement rate method. Aged retirement and other plant accounting data were compiled for the years 2003 through 2019. These data were coded in the course of the Company's normal recordkeeping according to plant account or property group, type of

transaction, year in which the transaction took place, and year in which the gas plant was placed in service. The data were analyzed by the retirement rate method of life analysis. The survivor curve chart for the account is presented on page VII-31.

The life table for the experience band is plotted on the chart that follows.

Typical service lives for services of other gas companies range from 40 to 55 years. The Iowa 43-R4 survivor curve is estimated to represent the future, inasmuch as it is a reasonable interpretation of the significant portion of the stub survivor curve through age 52, reflects the outlook of management and is at the lower end of the typical range of lives for this account.

The largest account is the combined Account 376.1, Mains - Steel and Account 376.2, Mains - Plastic. The estimate of survivor characteristics is based on the 2003-2019 experience band. As the stub survivor curve chart illustrates, the experience band represents similar life characteristics and support to the 55-S2.5 survivor curve through age 54. Given the size and type main currently in service, an expectation is that mains will stay in service longer than historical indications have shown as mains age. The 55-year average life is within the range of lives used by others in the industry. Most other gas companies estimate lives between 55 and 70 years.

The estimated survivor curves for the analyses of Accounts 381, Meters and 382, Meter Installations are also based on statistical analyses of aged retirements during the period 2003-2019, using the retirement rate method. The two accounts have similar life expectations for past and future life characteristics as the two asset classes will have retirements that occur at similar ages. The 25-R4 survivor curve is an excellent fit of the statistical analyses through age 30 for Account 381, Meters. The 28-S4 survivor curve is an excellent fit of the statistical analyses through age 35 for Account 382, Meter Installations. Typical lives for both accounts in the gas industry are between 25 and 40 years.

Similar studies were performed for the remaining plant accounts. Each of the judgments represented a consideration of statistical analyses of aged plant activity, management's outlook for the future, and the typical range of lives used by other gas companies.

The selected amortization periods for other general plant accounts are described in the section "Calculated Annual and Accrued Amortization."

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## **PART IV. NET SALVAGE CONSIDERATIONS**

## PART IV. NET SALVAGE CONSIDERATIONS

### Net Salvage Considerations

The estimates of future net salvage are expressed as percentages of surviving plant in service, i.e., all future retirements. In cases in which removal costs are expected to exceed salvage receipts, a negative net salvage percentage is estimated. The net salvage estimates were based on judgment which incorporated analyses of simulated cost of removal and salvage data, expectations with respect to future removal requirements and markets for retired equipment and materials.

The analyses of simulated cost of removal and salvage data are presented in the section titled “Net Salvage Statistics” for the plant accounts for which the net salvage estimate relied partially on those analyses. Statistical analyses of historical data for the period 2004 through 2019 was utilized to estimate the most reasonable net salvage percentages based on past and future retirements.

Vermont Gas Systems has established a level of cost of removal accruals which were based on labor practices of the operational personnel. These practices need to be utilized in order to determine the net salvage percentage by account. The historical retirements for the period 2004 through 2019 by account were recorded. A net salvage percentage by account was based on judgment which included estimates of other gas companies and practices of VGS personnel for removal of each asset class.

The combined analyses of Account 380.1, Services - Steel and Account 380.2, Services - Plastic, will be used to illustrate the manner at which the simulation was conducted. The industry range for net salvage percentages for other gas companies ranged from negative 20 percent to negative 200 percent. Based on the effort VGS personnel estimate for removal versus installation and any scrap value, the most

appropriate estimate for VGS is negative 50 percent. The simulated amounts by account are compared to the past accrual to establish reasonableness. The simulated amounts by account are less than the recorded net salvage, as the estimates of net salvage for accruals is conservative.

The net salvage estimates for the other plant accounts were estimated using the above-described process of historical indications, judgment and reviewing the typical range of estimates used by other gas companies.

Generally, the net salvage estimates for the general plant accounts were zero percent, consistent with amortization accounting.

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**PART V. CALCULATION OF ANNUAL AND  
ACCRUED DEPRECIATION**

## PART V. CALCULATION OF ANNUAL AND ACCRUED DEPRECIATION

### GROUP DEPRECIATION PROCEDURES

A group procedure for depreciation is appropriate when considering more than a single item of property. Normally the items within a group do not have identical service lives, but have lives that are dispersed over a range of time. There are two primary group procedures, namely, average service life and equal life group. In the average service life procedure, the rate of annual depreciation is based on the average life or average remaining life of the group, and this rate is applied to the surviving balances of the group's cost. A characteristic of this procedure is that the cost of plant retired prior to average life is not fully recouped at the time of retirement, whereas the cost of plant retired subsequent to average life is more than fully recouped. Over the entire life cycle, the portion of cost not recouped prior to average life is balanced by the cost recouped subsequent to average life.

#### Single Unit of Property

The calculation of straight line depreciation for a single unit of property is straightforward. For example, if a \$1,000 unit of property attains an age of four years and has a life expectancy of six years, the annual accrual over the total life is:

$$\frac{\$1,000}{(4 + 6)} = \$100 \text{ per year.}$$

The accrued depreciation is:

$$\$1,000 \left(1 - \frac{6}{10}\right) = \$400.$$

### **Remaining Life Annual Accruals**

For the purpose of calculating remaining life accruals as of September 30, 2019, the depreciation reserve for each plant account is allocated among vintages in proportion to the calculated accrued depreciation for the account. Explanations of remaining life accruals and calculated accrued depreciation follow. The detailed calculations as of September 30, 2019, are set forth in the Results of Study section of the report.

### **Average Service Life Procedure**

In the average service life procedure, the remaining life annual accrual for each vintage is determined by dividing future book accruals (original cost less book reserve) by the average remaining life of the vintage. The average remaining life is a directly weighted average derived from the estimated future survivor curve in accordance with the average service life procedure.

The calculated accrued depreciation for each depreciable property group represents that portion of the depreciable cost of the group which would not be allocated to expense through future depreciation accruals if current forecasts of life characteristics are used as the basis for such accruals. The accrued depreciation calculation consists of applying an appropriate ratio to the surviving original cost of each vintage of each account based upon the attained age and service life. The straight line accrued depreciation ratios are calculated as follows for the average service life procedure:

$$\text{Ratio} = 1 - \frac{\text{Average Remaining Life}}{\text{Average Service Life}}.$$

## CALCULATION OF ANNUAL AND ACCRUED AMORTIZATION

Amortization is the gradual extinguishment of an amount in an account by distributing such amount over a fixed period, over the life of the asset or liability to which it applies, or over the period during which it is anticipated the benefit will be realized. Normally, the distribution of the amount is in equal amounts to each year of the amortization period.

The calculation of annual and accrued amortization requires the selection of an amortization period. The amortization periods used in this report were based on judgment which incorporated a consideration of the period during which the assets will render most of their service, the amortization period and service lives used by other utilities, and the service life estimates previously used for the asset under depreciation accounting.

Amortization accounting is proposed for a number of accounts that represent numerous units of property, but a very small portion of depreciable gas plant in service. The accounts and their amortization periods are as follows:

<u>ACCT</u>	<u>TITLE</u>	<u>AMORTIZATION PERIOD, YEARS</u>
391.0,	Office Furniture and Equipment	20
391.1,	Computer Hardware - Mid Range	5
391.2,	Computer Software - Mid Range	5
391.3,	Network	7
391.4,	Telephone Equipment	7
391.6,	Computer Software - Desktop	5
391.7,	Computer Hardware - Desktop	5
393.0,	Stores Equipment	25
394.0,	Tools, Shop and Garage Equipment	20
397.0,	Communication Equipment	15
398.0,	Miscellaneous Equipment	20

For the purpose of calculating annual amortization amounts as of September 30, 2019, the book depreciation reserve for each plant account or subaccount is assigned or allocated to vintages. The book reserve assigned to vintages with an age greater than the amortization period is equal to the vintage's original cost. The remaining book reserve is allocated among vintages with an age less than the amortization period in proportion to the calculated accrued amortization. The calculated accrued amortization is equal to the original cost multiplied by the ratio of the vintage's age to its amortization period. The annual amortization amount is determined by dividing the future amortizations (original cost less allocated book reserve) by the remaining period of amortization for the vintage.

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## **PART VI. RESULTS OF STUDY**

## PART VI. RESULTS OF STUDY

### QUALIFICATION OF RESULTS

The calculated annual and accrued depreciation are the principal results of the study. Continued surveillance and periodic revisions are normally required to maintain continued use of appropriate annual depreciation accrual rates. An assumption that accrual rates can remain unchanged over a long period of time implies a disregard for the inherent variability in service lives and salvage and for the change of the composition of property in service. The annual accrual rates were calculated in accordance with the straight line remaining life method of depreciation, using the average service life procedure based on estimates which reflect considerations of current historical evidence and expected future conditions.

The annual depreciation accrual rates are applicable specifically to the gas plant in service as of September 30, 2019. For most plant accounts, the application of such rates to future balances that reflect additions subsequent to September 30, 2019, is reasonable for a period of three to five years.

### DESCRIPTION OF DETAILED TABULATIONS

Table 1 is a summary of the results of the study as applied to the original cost of gas plant at September 30, 2019, presented on pages VI-4 through VI-6 of this report.

The service life estimates were based on judgment that incorporated statistical analysis of retirement data, discussions with management and consideration of estimates made for other gas utilities. The results of the statistical analysis of service life are presented in the section beginning on page VII-2, within the supporting documents of this report.

For each depreciable group analyzed by the retirement rate method, a chart depicting the original and estimated survivor curves followed by a tabular presentation of the original life table(s) plotted on the chart. The survivor curves estimated for the depreciable groups are shown as dark smooth curves on the charts. Each smooth survivor curve is denoted by a numeral followed by the curve type designation. The numeral used is the average life derived from the entire curve from 100 percent to zero percent surviving. The titles of the chart indicate the group, the symbol used to plot the points of the original life table, and the experience and placement bands of the life tables which were plotted. The experience band indicates the range of years for which retirements were used to develop the stub survivor curve. The placements indicate, for the related experience band, the range of years of installations which appear in the experience.

The analyses of salvage data are presented in the section titled, "Net Salvage Statistics". The tabulations present simulated annual net salvage data based on the net salvage percent multiplied by the annual retirement.

The tables of the calculated annual depreciation applicable to depreciable assets as of September 30, 2019 are presented in account sequence starting on page IX-2 of the supporting documents. The tables indicate the estimated survivor curve and net salvage percent for the account and set forth, for each installation year, the original cost, the calculated accrued depreciation, the allocated book reserve, future accruals, the remaining life, and the calculated annual accrual amount.

## VERMONT GAS SYSTEMS, INC.

TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF SEPTEMBER 30, 2019

ACCOUNT (1)	SURVIVOR CURVE (2)	NET SALVAGE PERCENT (3)	ORIGINAL COST AS OF SEPTEMBER 30, 2019 (4)	BOOK RESERVE (5)	FUTURE ACCRUALS (6)	CALCULATED ANNUAL ACCRUAL AMOUNT (7)		COMPOSITE REMAINING LIFE (9)=(6)/(7)
						(8)=(7)/(4)	(8)	
<b>PRODUCTION PLANT</b>								
305.00 STRUCTURES AND IMPROVEMENTS	45 - R4	0	396,478.00	276,390	120,088	6,986	1.76	17.2
311.00 LIQUEFIED PETROLEUM GAS EQUIPMENT	35 - R2	(10)	2,842,083.07	1,919,667	1,206,624	71,421	2.51	16.9
<b>TOTAL PRODUCTION PLANT</b>			<b>3,238,561.07</b>	<b>2,196,057</b>	<b>1,326,712</b>	<b>78,407</b>	<b>2.42</b>	<b>16.9</b>
<b>OTHER STORAGE PLANT</b>								
363.30 COMPRESSOR EQUIPMENT	35 - R2.5	(5)	18,661.95	6,195	13,401	459	2.46	29.2
<b>TOTAL OTHER STORAGE PLANT</b>			<b>18,661.95</b>	<b>6,195</b>	<b>13,401</b>	<b>459</b>	<b>2.46</b>	<b>29.2</b>
<b>TRANSMISSION PLANT</b>								
365.20 RIGHTS OF WAY	70 - S4	0	13,889,732.49	614,054	13,275,678	200,322	1.44	66.3
366.00 STRUCTURES AND IMPROVEMENTS	45 - R3	0	747,684.51	43,502	704,182	17,125	2.29	41.1
367.00 MAINS	70 - S3	(20)	167,115,583.15	17,485,294	183,053,406	2,820,599	1.69	64.8
369.00 MEASURING AND REGULATING STATION EQUIPMENT	55 - R3	(25)	9,880,890.79	2,519,280	9,806,759	214,011	2.17	45.8
370.00 COMMUNICATION EQUIPMENT	25 - S4	0	562,411.21	212,932	349,479	15,558	2.77	22.5
<b>TOTAL TRANSMISSION PLANT</b>			<b>192,176,242.15</b>	<b>20,875,062</b>	<b>207,189,504</b>	<b>3,273,615</b>	<b>1.70</b>	<b>63.3</b>
<b>DISTRIBUTION PLANT</b>								
374.20 LAND RIGHTS	75 - R4	0	205,472.98	3,159	202,314	3,218	1.57	62.9
MAINS	55 - S2.5	(25)	12,770,063.75	7,057,770	8,904,810	304,466	2.36	29.5
STEEL	55 - S2.5	(25)	80,741,576.79	21,106,393	79,820,578	1,797,894	2.23	44.4
PLASTIC								
<b>TOTAL MAINS</b>			<b>93,511,640.54</b>	<b>28,164,163</b>	<b>88,725,388</b>	<b>2,099,360</b>	<b>2.25</b>	<b>42.3</b>
<b>MEASURING AND REGULATING STATION EQUIPMENT</b>								
378.00 SERVICES	25 - L2.5	(10)	109,203.98	71,981	48,144	4,661	4.27	10.3
STEEL	43 - R4	(50)	3,377,399.16	2,652,444	2,413,655	199,163	5.90	12.1
PLASTIC	43 - R4	(50)	52,191,609.95	20,418,816	57,368,598	1,895,810	3.63	30.5
<b>TOTAL SERVICES</b>			<b>55,569,009.11</b>	<b>23,071,260</b>	<b>60,282,253</b>	<b>2,094,973</b>	<b>3.77</b>	<b>28.8</b>
<b>WATER HEATERS</b>								
381.00 METERS	25 - R4	0	10,733,110.40	3,919,228	6,813,883	456,162	14.9	
METERS - ERTS	15 - S2.5	0	4,813,542.10	2,421,438	2,392,104	303,993	6.32	
METER INSTALLATIONS	28 - S4	(10)	11,734,458.79	4,339,175	8,568,729	442,876	3.77	
HOUSE REGULATORS	35 - L4	(5)	2,849,589.47	1,063,644	1,928,425	73,679	2.59	
INDUSTRIAL MEASURING AND REGULATING STATION EQUIPMENT	38 - R2.5	(10)	853,542.54	283,456	655,441	21,568	2.53	
WATER HEATERS	15 - S3	0	20,033,118.93	13,211,235	6,821,884	693,697	3.46	
CONVERSION BURNERS	12 - L4	0	6,766,498.03	5,098,482	1,668,016	262,182	3.87	
STEAM HEATERS	386.50	0	214,236.75	62,570	151,667	19,781	9.23	
<b>TOTAL DISTRIBUTION PLANT</b>			<b>207,393,423.62</b>	<b>81,709,791</b>	<b>178,288,248</b>	<b>6,476,150</b>	<b>3.12</b>	<b>27.5</b>

## VERMONT GAS SYSTEMS, INC.

TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF SEPTEMBER 30, 2019

ACCOUNT (1)	SURVIVOR CURVE (2)	NET SALVAGE PERCENT (3)	ORIGINAL COST AS OF SEPTEMBER 30, 2019 (4)	BOOK RESERVE (5)	FUTURE ACCRUALS (6)	CALCULATED ANNUAL ACCRUAL AMOUNT (7)		COMPOSITE REMAINING LIFE (9)=(6)/(7)
						(8)=(7)/(4)	(8)	
<b>GENERAL PLANT</b>								
390.00	STRUCTURES AND IMPROVEMENTS	50 - R4	0	4,861,272.24	1,832,814	3,028,458	80,943	1.67
391.00	OFFICE FURNITURE AND EQUIPMENT	FULLY ACCRUED 20 - SQ	0	370,700.73 564,730.70	370,701 146,250	418,481 0	28,260 0	- 5.00
	TOTAL OFFICE FURNITURE AND EQUIPMENT			935,431.43	516,951	418,481	28,260	14.8
391.10	COMPUTER HARDWARE - MID RANGE	FULLY ACCRUED 5 - SQ	0	105,122.85 156,692.74	105,123 121,640	0 35,053	0 31,332	- 20.00
	TOTAL COMPUTER HARDWARE - MID RANGE			261,815.59	226,763	35,053	31,332	1.1
391.20	COMPUTER SOFTWARE - MID RANGE	FULLY ACCRUED 5 - SQ	0	1,031,048.10 469,625.03	1,031,048 275,940	0 193,685	0 93,909	- 20.00
	TOTAL COMPUTER SOFTWARE - MID RANGE			1,500,673.13	1,306,988	193,685	93,909	2.1
391.30	NETWORK	7 - SQ	0	152,485.36	97,540	54,945	21,786	14.29
391.40	TELEPHONE EQUIPMENT	FULLY ACCRUED 7 - SQ	0	4,561.30 218,083.79	4,561 171,980	0 46,104	0 31,161	- 14.29
	TOTAL TELEPHONE EQUIPMENT			222,645.09	176,541	46,104	31,161	14.00
391.60	COMPUTER SOFTWARE - DESKTOP	FULLY ACCRUED 5 - SQ	0	157,527.82 368,752.15	157,528 181,250	0 187,502	0 73,735	- 20.00
	TOTAL COMPUTER SOFTWARE - DESKTOP			526,279.97	338,778	187,502	73,735	14.01
391.70	COMPUTER HARDWARE - DESKTOP	FULLY ACCRUED 5 - SQ	0	532,042.56 1,106,294.43	532,043 393,500	0 712,794	0 221,288	- 20.00
	TOTAL COMPUTER HARDWARE - DESKTOP			1,638,336.99	925,543	712,794	221,288	13.51
393.00	STORES EQUIPMENT	FULLY ACCRUED 25 - SQ	0	30,317.95 15,370.00	30,318 9,370	0 6,000	0 615	- 4.00
	TOTAL STORES EQUIPMENT			45,687.95	39,688	6,000	615	9.8
								9.8

VERMONT GAS SYSTEMS, INC.

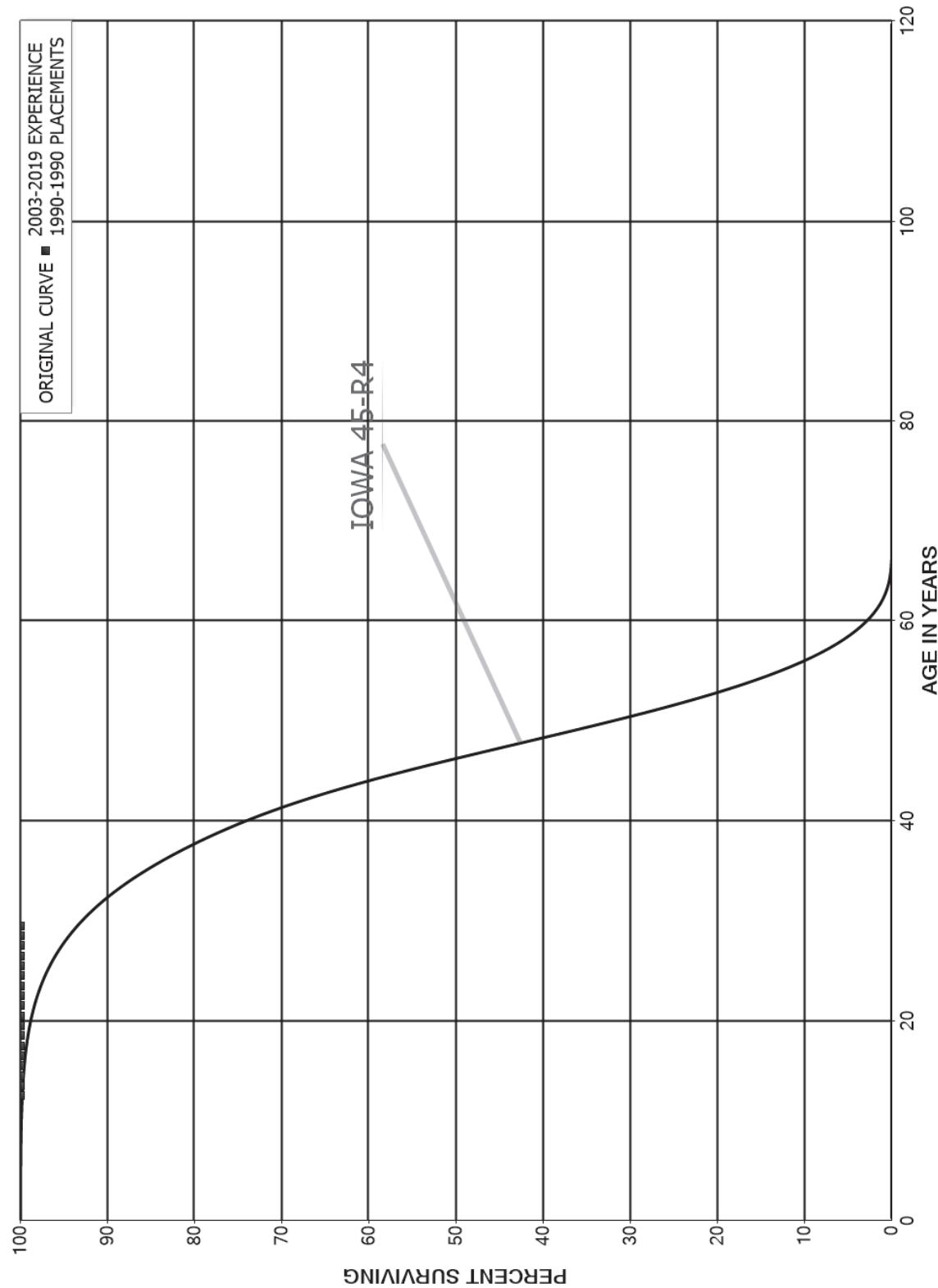
**TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION AMOUNTS RELATED TO GAS PLANT AS OF SEPTEMBER 30, 2019**

\* Rate for new additions as of October 1, 2019 is 5.00%, based on amortization period.  
 \*\* 5-year amortization of unrecouped reserve related to utilization of amortization accounting

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## **PART VII. SERVICE LIFE STATISTICS**

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 305 STRUCTURES AND IMPROVEMENTS  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 305 STRUCTURES AND IMPROVEMENTS

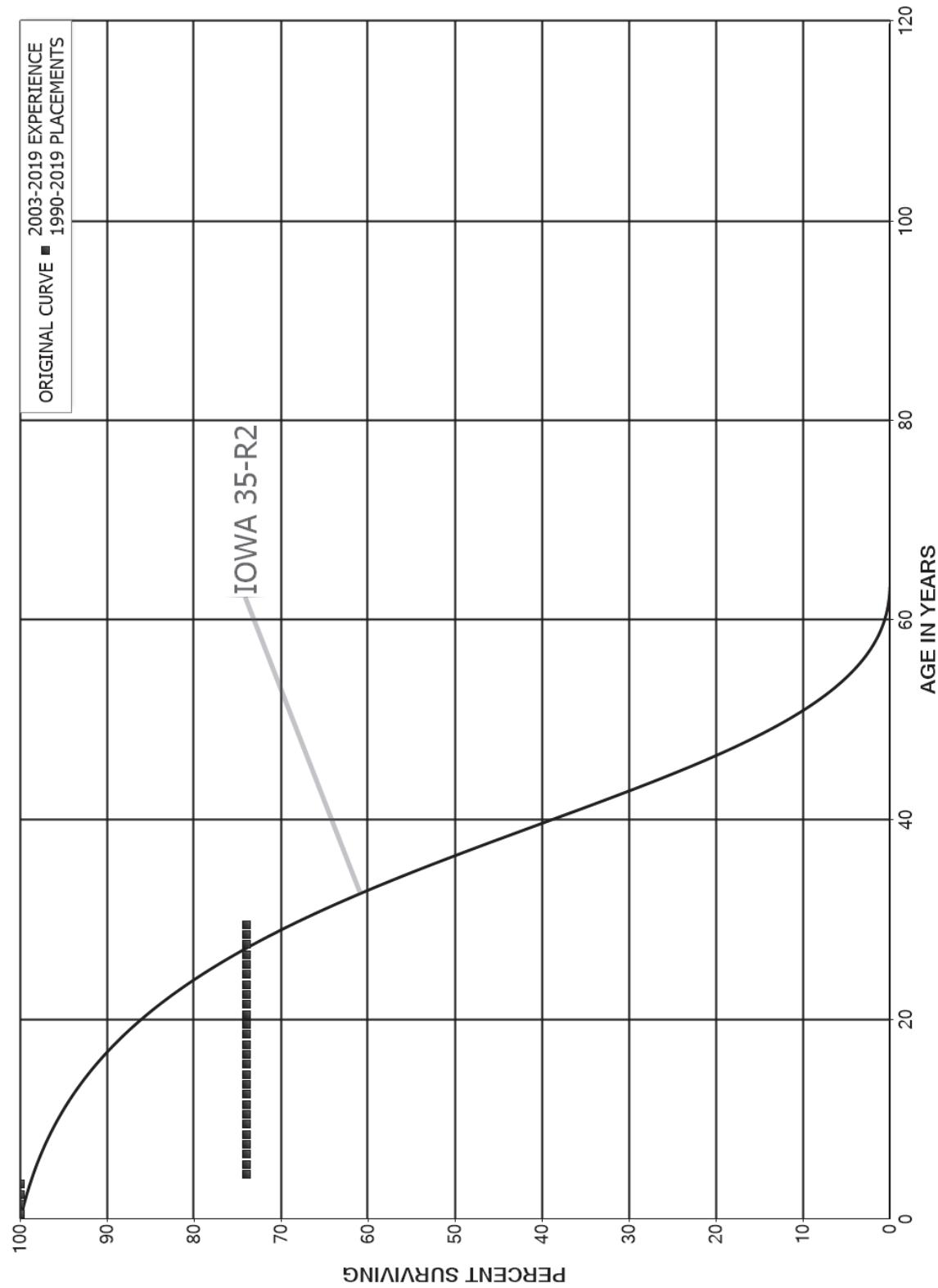
## ORIGINAL LIFE TABLE

PLACEMENT BAND 1990-1990

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0					
0.5					
1.5					
2.5					
3.5					
4.5					
5.5					
6.5					
7.5					
8.5					
9.5					
10.5					
11.5					
12.5	396,478	0.0000	1.0000	100.00	
13.5	396,478	0.0000	1.0000	100.00	
14.5	396,478	0.0000	1.0000	100.00	
15.5	396,478	0.0000	1.0000	100.00	
16.5	396,478	0.0000	1.0000	100.00	
17.5	396,478	0.0000	1.0000	100.00	
18.5	396,478	0.0000	1.0000	100.00	
19.5	396,478	0.0000	1.0000	100.00	
20.5	396,478	0.0000	1.0000	100.00	
21.5	396,478	0.0000	1.0000	100.00	
22.5	396,478	0.0000	1.0000	100.00	
23.5	396,478	0.0000	1.0000	100.00	
24.5	396,478	0.0000	1.0000	100.00	
25.5	396,478	0.0000	1.0000	100.00	
26.5	396,478	0.0000	1.0000	100.00	
27.5	396,478	0.0000	1.0000	100.00	
28.5	396,478	0.0000	1.0000	100.00	
29.5				100.00	

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 311 LIQUEFIED PETROLEUM GAS EQUIPMENT  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 311 LIQUEFIED PETROLEUM GAS EQUIPMENT

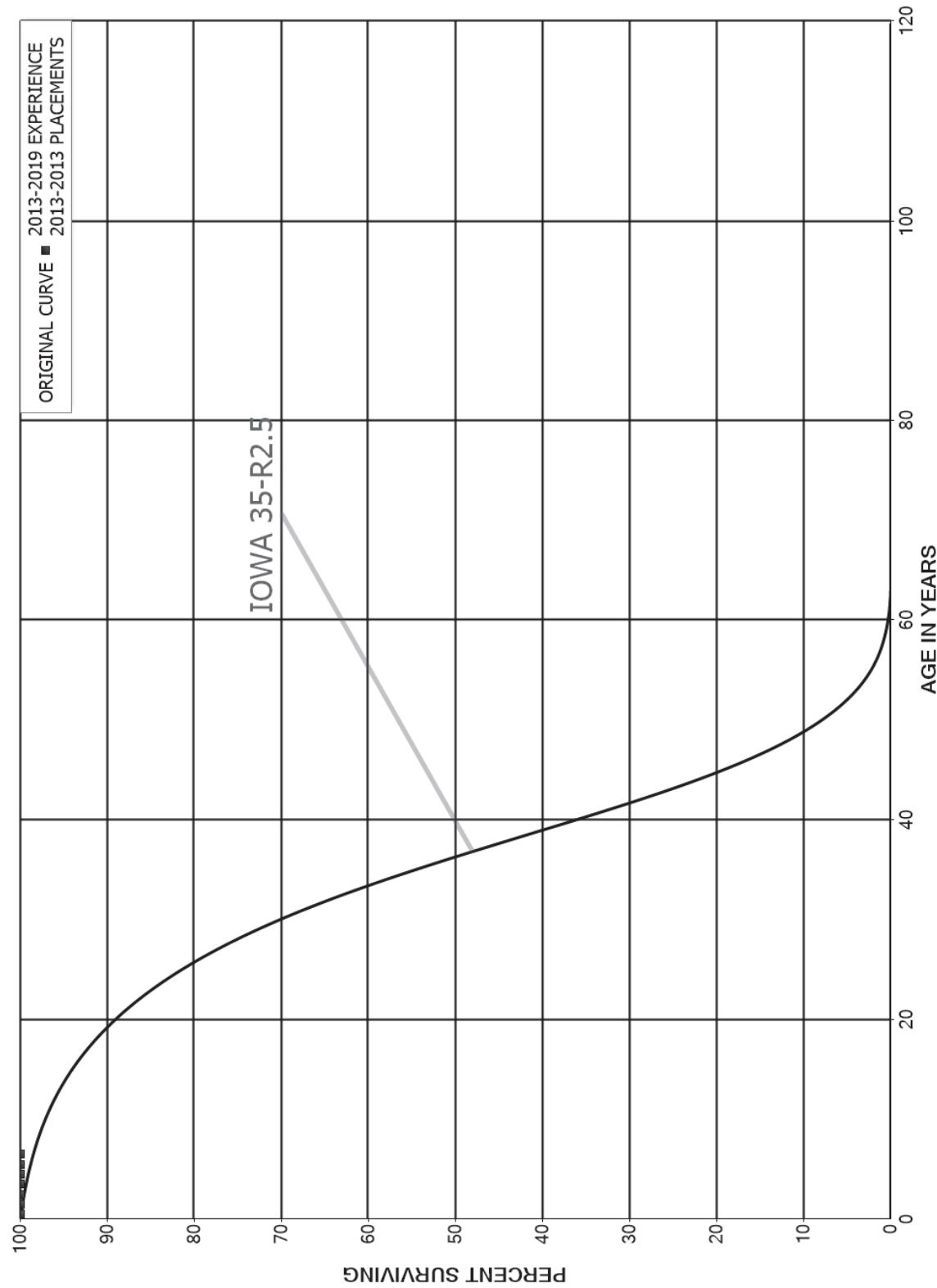
## ORIGINAL LIFE TABLE

PLACEMENT BAND 1990-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	722,641		0.0000	1.0000	100.00
0.5	648,548		0.0000	1.0000	100.00
1.5	740,221		0.0000	1.0000	100.00
2.5	906,627		0.0000	1.0000	100.00
3.5	888,509	231,041	0.2600	0.7400	100.00
4.5	596,563		0.0000	1.0000	74.00
5.5	680,147		0.0000	1.0000	74.00
6.5	679,564		0.0000	1.0000	74.00
7.5	638,453		0.0000	1.0000	74.00
8.5	636,951		0.0000	1.0000	74.00
9.5	619,875		0.0000	1.0000	74.00
10.5	617,103		0.0000	1.0000	74.00
11.5	576,839		0.0000	1.0000	74.00
12.5	2,385,740		0.0000	1.0000	74.00
13.5	2,374,777		0.0000	1.0000	74.00
14.5	2,364,899		0.0000	1.0000	74.00
15.5	2,357,039		0.0000	1.0000	74.00
16.5	2,350,484		0.0000	1.0000	74.00
17.5	2,342,417		0.0000	1.0000	74.00
18.5	2,225,354		0.0000	1.0000	74.00
19.5	2,058,947		0.0000	1.0000	74.00
20.5	2,058,947		0.0000	1.0000	74.00
21.5	2,058,947		0.0000	1.0000	74.00
22.5	1,966,760		0.0000	1.0000	74.00
23.5	1,966,760		0.0000	1.0000	74.00
24.5	1,966,760		0.0000	1.0000	74.00
25.5	1,966,760		0.0000	1.0000	74.00
26.5	1,966,760		0.0000	1.0000	74.00
27.5	1,966,760		0.0000	1.0000	74.00
28.5	1,966,760		0.0000	1.0000	74.00
29.5					74.00

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 363.3 COMPRESSOR EQUIPMENT  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 363.3 COMPRESSOR EQUIPMENT

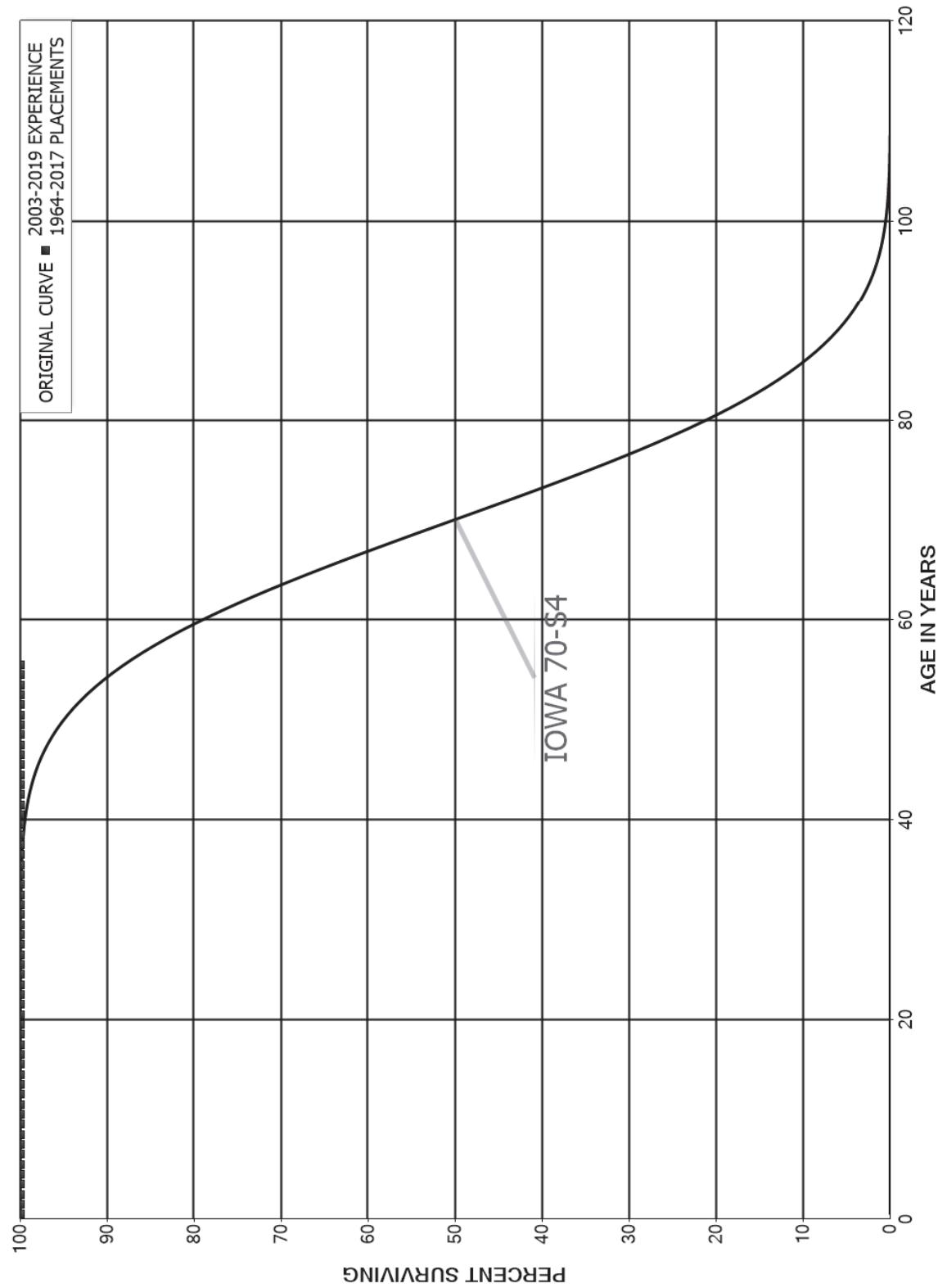
## ORIGINAL LIFE TABLE

PLACEMENT BAND 2013-2013

EXPERIENCE BAND 2013-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	18,662	0.0000	1.0000	100.00	
0.5	18,662	0.0000	1.0000	100.00	
1.5	18,662	0.0000	1.0000	100.00	
2.5	18,662	0.0000	1.0000	100.00	
3.5	18,662	0.0000	1.0000	100.00	
4.5	18,662	0.0000	1.0000	100.00	
5.5	18,662	0.0000	1.0000	100.00	
6.5					100.00

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 365.2 RIGHTS OF WAY  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 365.2 RIGHTS OF WAY

## ORIGINAL LIFE TABLE

PLACEMENT BAND 1964-2017

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	13,512,963		0.0000	1.0000	100.00
0.5	13,555,683		0.0000	1.0000	100.00
1.5	13,555,683		0.0000	1.0000	100.00
2.5	2,452,243		0.0000	1.0000	100.00
3.5	337,722		0.0000	1.0000	100.00
4.5	327,180		0.0000	1.0000	100.00
5.5	262,838		0.0000	1.0000	100.00
6.5	139,543		0.0000	1.0000	100.00
7.5	106,976		0.0000	1.0000	100.00
8.5	71,564		0.0000	1.0000	100.00
9.5	71,064		0.0000	1.0000	100.00
10.5	98,553		0.0000	1.0000	100.00
11.5	95,228		0.0000	1.0000	100.00
12.5	95,228		0.0000	1.0000	100.00
13.5	95,228		0.0000	1.0000	100.00
14.5	95,228		0.0000	1.0000	100.00
15.5	95,228		0.0000	1.0000	100.00
16.5	95,228		0.0000	1.0000	100.00
17.5	52,508		0.0000	1.0000	100.00
18.5	52,508		0.0000	1.0000	100.00
19.5	47,497		0.0000	1.0000	100.00
20.5	47,497		0.0000	1.0000	100.00
21.5	38,997		0.0000	1.0000	100.00
22.5	39,827		0.0000	1.0000	100.00
23.5	38,222		0.0000	1.0000	100.00
24.5	38,222		0.0000	1.0000	100.00
25.5	38,222		0.0000	1.0000	100.00
26.5	38,222		0.0000	1.0000	100.00
27.5	830		0.0000	1.0000	100.00
28.5	830		0.0000	1.0000	100.00
29.5	830		0.0000	1.0000	100.00
30.5	280,543		0.0000	1.0000	100.00
31.5	280,543		0.0000	1.0000	100.00
32.5	280,543		0.0000	1.0000	100.00
33.5	280,543		0.0000	1.0000	100.00
34.5	280,543		0.0000	1.0000	100.00
35.5	280,543		0.0000	1.0000	100.00
36.5	280,543		0.0000	1.0000	100.00
37.5	280,543		0.0000	1.0000	100.00
38.5	281,541		0.0000	1.0000	100.00

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 365.2 RIGHTS OF WAY

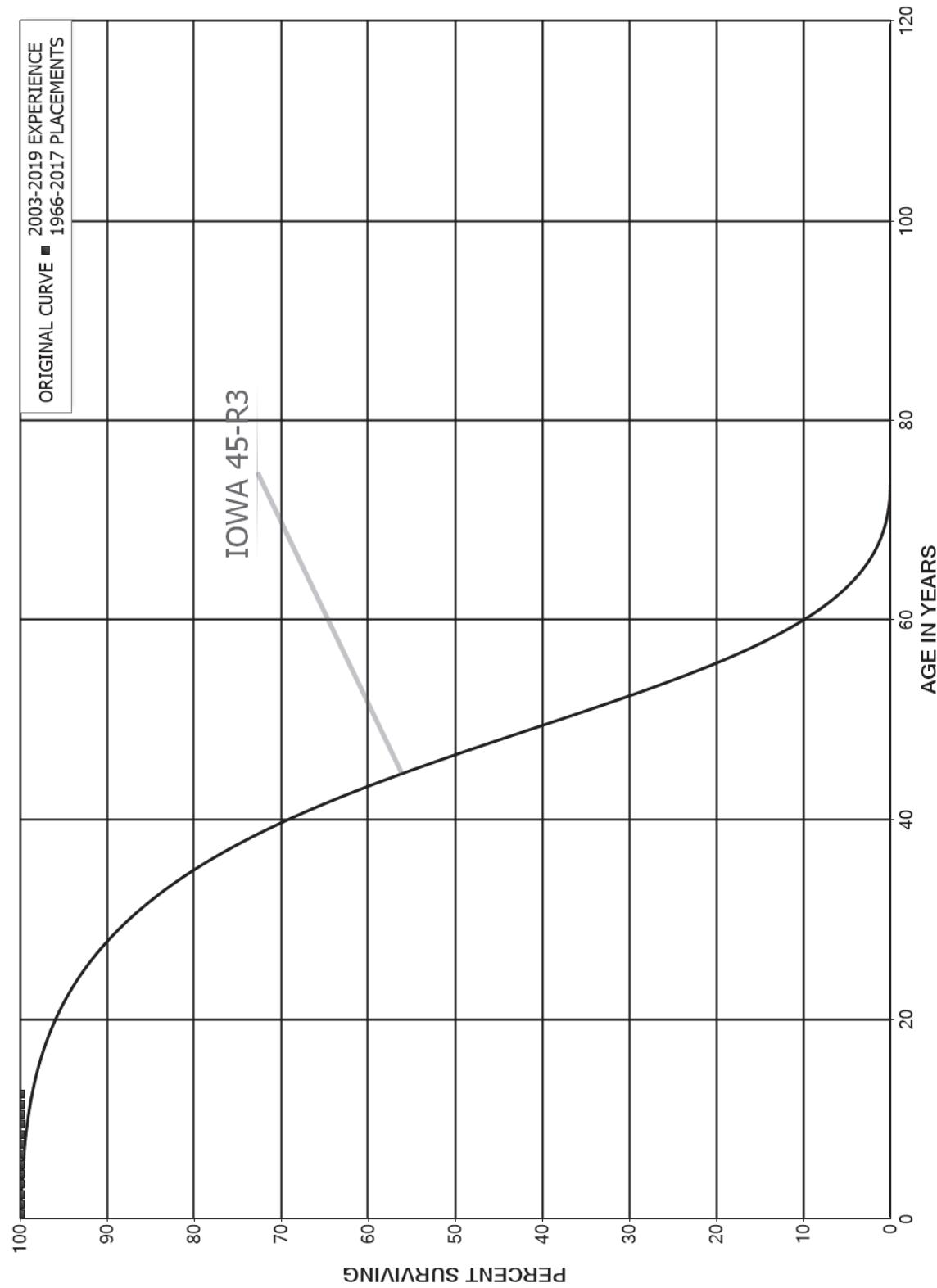
## ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1964-2017

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	280,711		0.0000	1.0000	100.00
40.5	280,711		0.0000	1.0000	100.00
41.5	280,711		0.0000	1.0000	100.00
42.5	280,711		0.0000	1.0000	100.00
43.5	280,711		0.0000	1.0000	100.00
44.5	280,711		0.0000	1.0000	100.00
45.5	280,711		0.0000	1.0000	100.00
46.5	280,711		0.0000	1.0000	100.00
47.5	999		0.0000	1.0000	100.00
48.5	999		0.0000	1.0000	100.00
49.5	999		0.0000	1.0000	100.00
50.5	999		0.0000	1.0000	100.00
51.5	999		0.0000	1.0000	100.00
52.5	999		0.0000	1.0000	100.00
53.5	999		0.0000	1.0000	100.00
54.5	999		0.0000	1.0000	100.00
55.5					100.00

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 366 STRUCTURES AND IMPROVEMENTS  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 366 STRUCTURES AND IMPROVEMENTS

## ORIGINAL LIFE TABLE

PLACEMENT BAND 1966-2017

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	747,685		0.0000	1.0000	100.00
0.5	747,685		0.0000	1.0000	100.00
1.5	747,685		0.0000	1.0000	100.00
2.5	420,614		0.0000	1.0000	100.00
3.5	270,614		0.0000	1.0000	100.00
4.5	135,307		0.0000	1.0000	100.00
5.5	135,307		0.0000	1.0000	100.00
6.5	135,307		0.0000	1.0000	100.00
7.5	130,377		0.0000	1.0000	100.00
8.5	7,045		0.0000	1.0000	100.00
9.5	7,045		0.0000	1.0000	100.00
10.5	7,045		0.0000	1.0000	100.00
11.5	7,045		0.0000	1.0000	100.00
12.5					100.00
13.5					
14.5					
15.5					
16.5					
17.5					
18.5					
19.5					
20.5					
21.5					
22.5					
23.5					
24.5					
25.5					
26.5					
27.5					
28.5					
29.5					
30.5					
31.5					
32.5					
33.5					
34.5					
35.5					
36.5	1,477		0.0000		
37.5	1,477		0.0000		
38.5	1,477		0.0000		

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 366 STRUCTURES AND IMPROVEMENTS

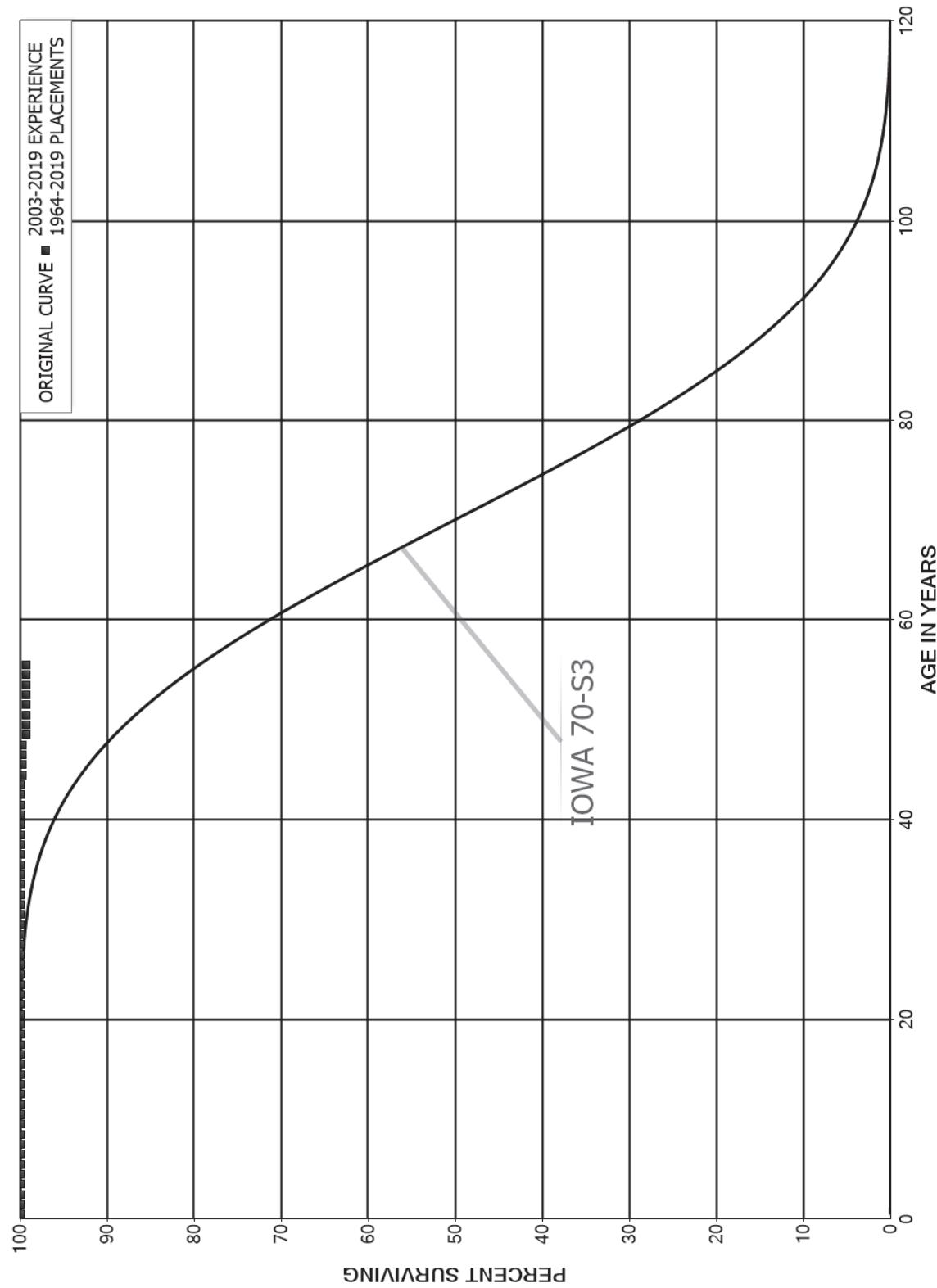
## ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1966-2017

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,477		0.0000		
40.5	1,477		0.0000		
41.5	1,477		0.0000		
42.5	1,477		0.0000		
43.5	1,477		0.0000		
44.5	1,477		0.0000		
45.5	1,477	1,477	1.0000		
46.5					

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 367 MAINS  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 367 MAINS

## ORIGINAL LIFE TABLE

PLACEMENT BAND 1964-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	151,729,017		0.0000	1.0000	100.00
0.5	154,969,408	94,539	0.0006	0.9994	100.00
1.5	154,894,771		0.0000	1.0000	99.94
2.5	75,782,069		0.0000	1.0000	99.94
3.5	29,992,537		0.0000	1.0000	99.94
4.5	29,913,359		0.0000	1.0000	99.94
5.5	22,266,264		0.0000	1.0000	99.94
6.5	16,909,936		0.0000	1.0000	99.94
7.5	18,435,926		0.0000	1.0000	99.94
8.5	18,397,793		0.0000	1.0000	99.94
9.5	18,382,776		0.0000	1.0000	99.94
10.5	17,555,595		0.0000	1.0000	99.94
11.5	17,266,116		0.0000	1.0000	99.94
12.5	16,973,593		0.0000	1.0000	99.94
13.5	17,002,541		0.0000	1.0000	99.94
14.5	16,803,552		0.0000	1.0000	99.94
15.5	12,770,056		0.0000	1.0000	99.94
16.5	12,677,458		0.0000	1.0000	99.94
17.5	9,412,046		0.0000	1.0000	99.94
18.5	9,394,249		0.0000	1.0000	99.94
19.5	9,313,157		0.0000	1.0000	99.94
20.5	5,064,745		0.0000	1.0000	99.94
21.5	4,954,094		0.0000	1.0000	99.94
22.5	2,625,513		0.0000	1.0000	99.94
23.5	2,614,713		0.0000	1.0000	99.94
24.5	178,299		0.0000	1.0000	99.94
25.5	178,299		0.0000	1.0000	99.94
26.5	178,299		0.0000	1.0000	99.94
27.5	145,767		0.0000	1.0000	99.94
28.5	145,767		0.0000	1.0000	99.94
29.5	135,361		0.0000	1.0000	99.94
30.5	8,559		0.0000	1.0000	99.94
31.5	329,497		0.0000	1.0000	99.94
32.5	329,361		0.0000	1.0000	99.94
33.5	323,042		0.0000	1.0000	99.94
34.5	323,042		0.0000	1.0000	99.94
35.5	320,938		0.0000	1.0000	99.94
36.5	2,808,319		0.0000	1.0000	99.94
37.5	2,808,319		0.0000	1.0000	99.94
38.5	2,821,482		0.0000	1.0000	99.94

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 367 MAINS

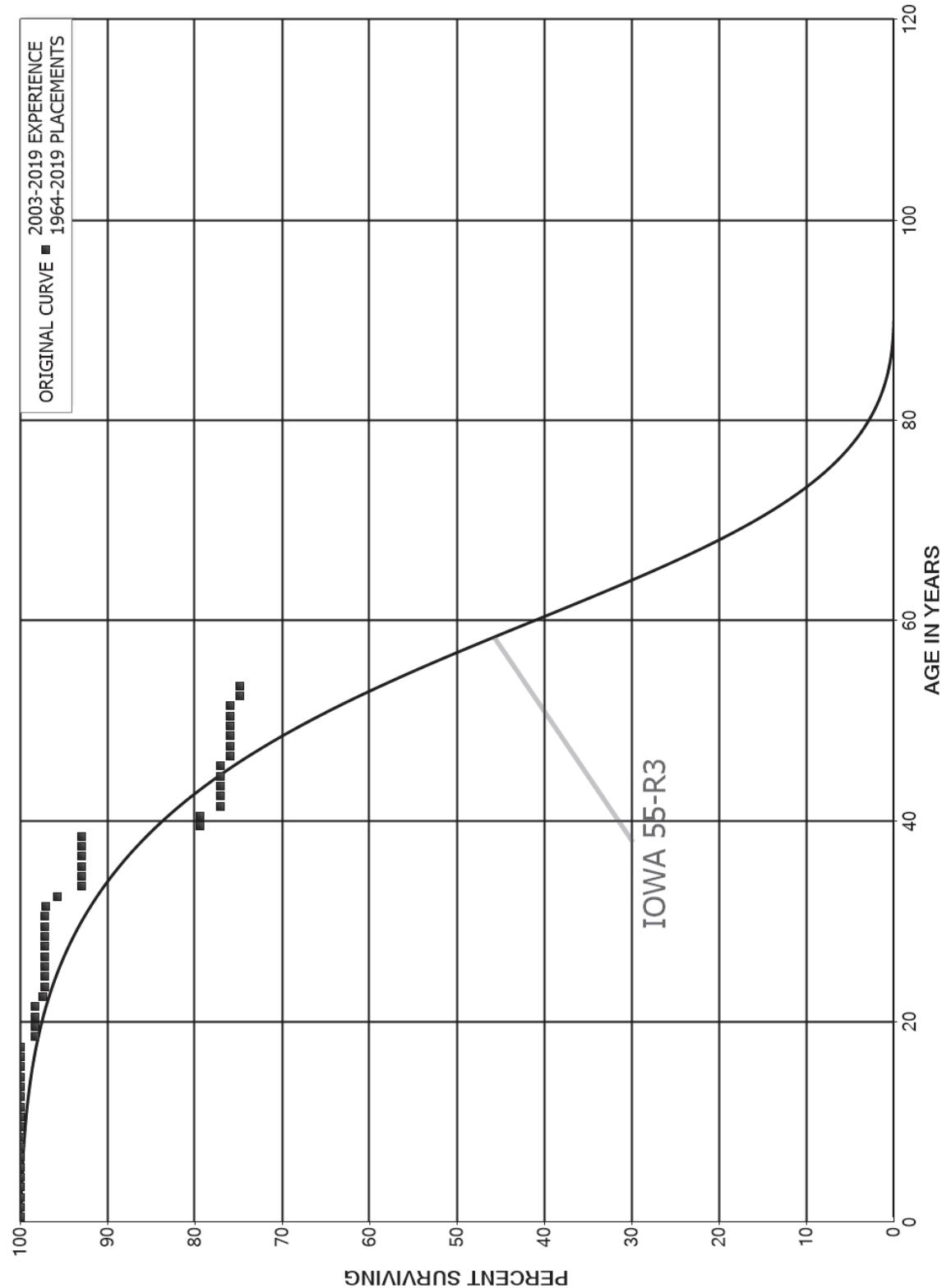
## ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1964-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	2,821,482		0.0000	1.0000	99.94
40.5	2,821,482		0.0000	1.0000	99.94
41.5	2,821,482		0.0000	1.0000	99.94
42.5	2,821,482		0.0000	1.0000	99.94
43.5	2,821,482	7,554	0.0027	0.9973	99.94
44.5	2,813,928		0.0000	1.0000	99.67
45.5	2,813,928		0.0000	1.0000	99.67
46.5	2,813,928		0.0000	1.0000	99.67
47.5	2,813,928	12,385	0.0044	0.9956	99.67
48.5	2,480,606		0.0000	1.0000	99.23
49.5	2,480,606		0.0000	1.0000	99.23
50.5	2,480,606		0.0000	1.0000	99.23
51.5	2,480,606		0.0000	1.0000	99.23
52.5	2,480,606		0.0000	1.0000	99.23
53.5	13,163		0.0000	1.0000	99.23
54.5	13,163		0.0000	1.0000	99.23
55.5					99.23

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 369 MEASURING AND REGULATING STATION EQUIPMENT  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 369 MEASURING AND REGULATING STATION EQUIPMENT

## ORIGINAL LIFE TABLE

PLACEMENT BAND 1964-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	7,705,077		0.0000	1.0000	100.00
0.5	7,305,623	2,923	0.0004	0.9996	100.00
1.5	7,384,393		0.0000	1.0000	99.96
2.5	6,847,333	57	0.0000	1.0000	99.96
3.5	5,525,273		0.0000	1.0000	99.96
4.5	5,494,206		0.0000	1.0000	99.96
5.5	5,335,492		0.0000	1.0000	99.96
6.5	5,160,030		0.0000	1.0000	99.96
7.5	5,125,523		0.0000	1.0000	99.96
8.5	4,040,045		0.0000	1.0000	99.96
9.5	4,009,110		0.0000	1.0000	99.96
10.5	3,249,604		0.0000	1.0000	99.96
11.5	3,047,312		0.0000	1.0000	99.96
12.5	2,651,663		0.0000	1.0000	99.96
13.5	2,729,040		0.0000	1.0000	99.96
14.5	2,705,174		0.0000	1.0000	99.96
15.5	1,994,488		0.0000	1.0000	99.96
16.5	1,921,524		0.0000	1.0000	99.96
17.5	1,388,101	23,116	0.0167	0.9833	99.96
18.5	1,291,146		0.0000	1.0000	98.29
19.5	841,211		0.0000	1.0000	98.29
20.5	453,625		0.0000	1.0000	98.29
21.5	448,919	3,888	0.0087	0.9913	98.29
22.5	406,068	1,180	0.0029	0.9971	97.44
23.5	351,410		0.0000	1.0000	97.16
24.5	328,353		0.0000	1.0000	97.16
25.5	310,938		0.0000	1.0000	97.16
26.5	310,938		0.0000	1.0000	97.16
27.5	309,516		0.0000	1.0000	97.16
28.5	258,459		0.0000	1.0000	97.16
29.5	249,723		0.0000	1.0000	97.16
30.5	159,835	144	0.0009	0.9991	97.16
31.5	137,037	1,967	0.0144	0.9856	97.07
32.5	125,563	3,525	0.0281	0.9719	95.68
33.5	100,146		0.0000	1.0000	92.99
34.5	83,301		0.0000	1.0000	92.99
35.5	75,448		0.0000	1.0000	92.99
36.5	247,863		0.0000	1.0000	92.99
37.5	247,447		0.0000	1.0000	92.99
38.5	265,957	38,995	0.1466	0.8534	92.99

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 369 MEASURING AND REGULATING STATION EQUIPMENT

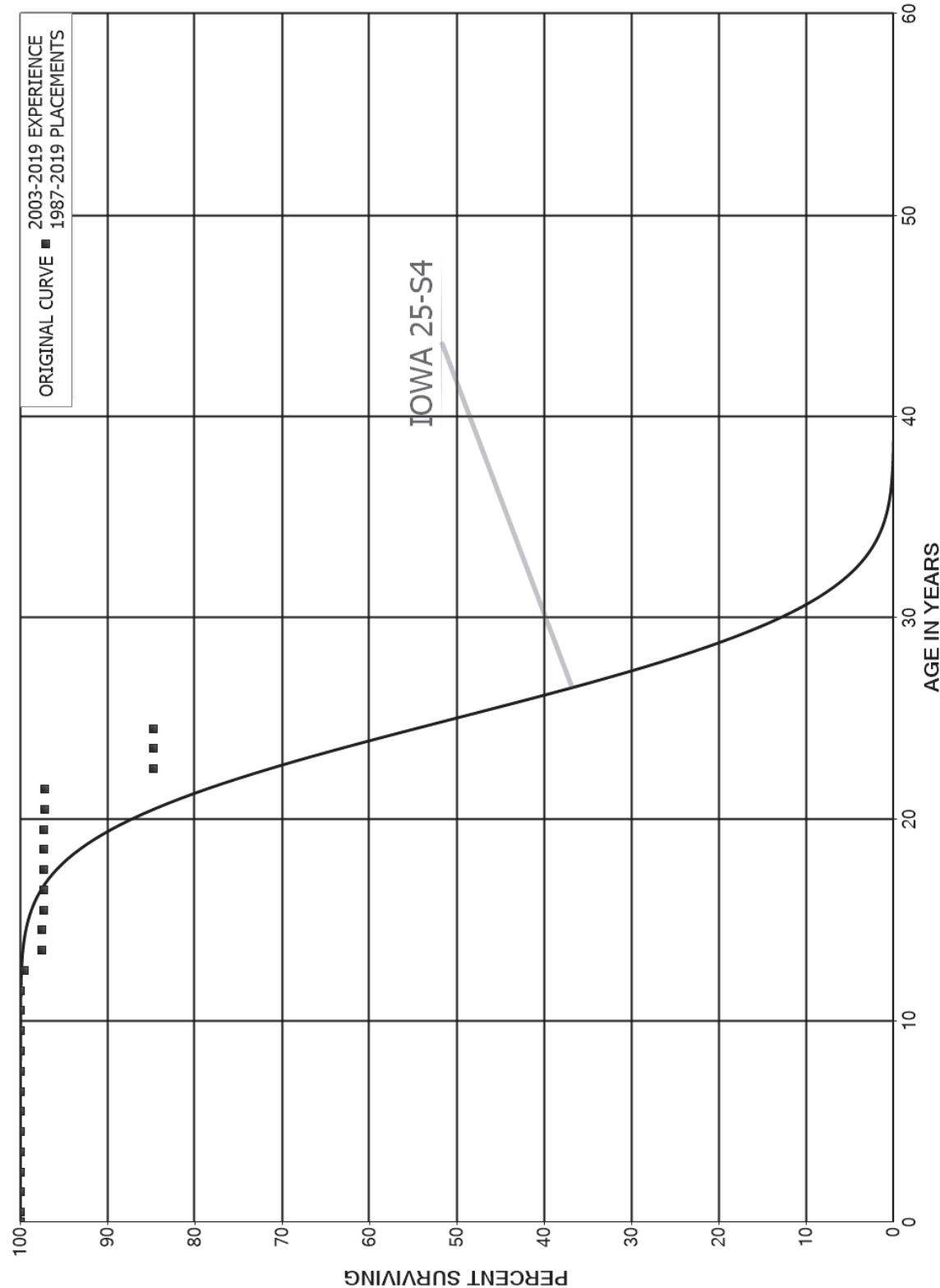
## ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1964-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	225,603		0.0000	1.0000	79.36
40.5	225,603	6,499	0.0288	0.9712	79.36
41.5	216,885		0.0000	1.0000	77.07
42.5	216,885		0.0000	1.0000	77.07
43.5	216,885		0.0000	1.0000	77.07
44.5	216,885		0.0000	1.0000	77.07
45.5	216,885	3,036	0.0140	0.9860	77.07
46.5	213,848		0.0000	1.0000	75.99
47.5	213,848		0.0000	1.0000	75.99
48.5	213,848		0.0000	1.0000	75.99
49.5	213,848		0.0000	1.0000	75.99
50.5	213,848		0.0000	1.0000	75.99
51.5	213,848	3,108	0.0145	0.9855	75.99
52.5	210,740		0.0000	1.0000	74.89
53.5	15,767		0.0000	1.0000	74.89
54.5	15,767		0.0000	1.0000	74.89
55.5					74.89

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 370 COMMUNICATION EQUIPMENT  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 370 COMMUNICATION EQUIPMENT

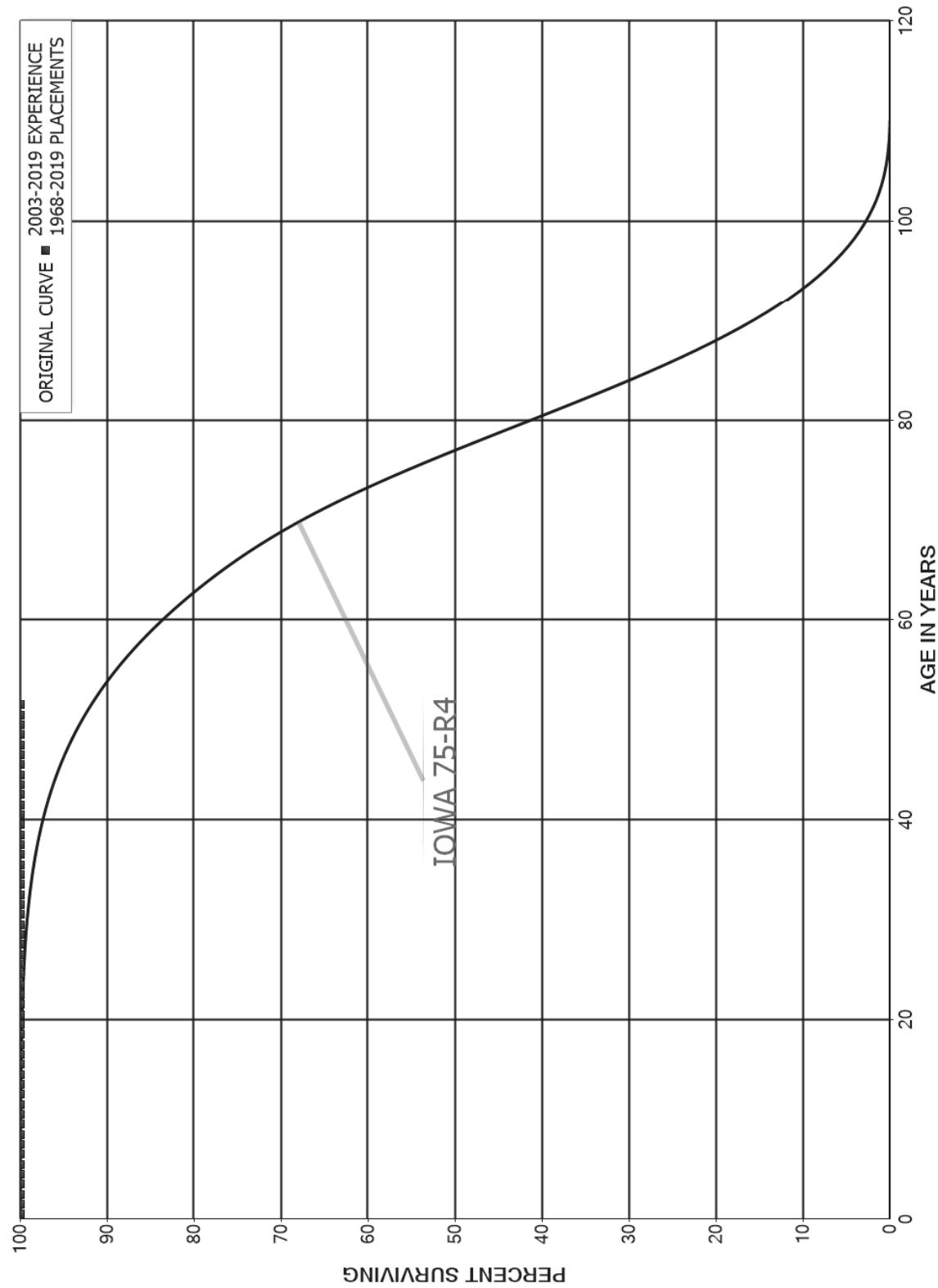
## ORIGINAL LIFE TABLE

PLACEMENT BAND 1987-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	449,256		0.0000	1.0000	100.00
0.5	195,083		0.0000	1.0000	100.00
1.5	195,083		0.0000	1.0000	100.00
2.5	161,621		0.0000	1.0000	100.00
3.5	161,621		0.0000	1.0000	100.00
4.5	161,621		0.0000	1.0000	100.00
5.5	162,256		0.0000	1.0000	100.00
6.5	137,713		0.0000	1.0000	100.00
7.5	248,056		0.0000	1.0000	100.00
8.5	133,687		0.0000	1.0000	100.00
9.5	132,592		0.0000	1.0000	100.00
10.5	132,592		0.0000	1.0000	100.00
11.5	132,592	636	0.0048	0.9952	100.00
12.5	116,572	2,417	0.0207	0.9793	99.52
13.5	111,331		0.0000	1.0000	97.46
14.5	111,331	250	0.0022	0.9978	97.46
15.5	130,371		0.0000	1.0000	97.24
16.5	129,785		0.0000	1.0000	97.24
17.5	129,785		0.0000	1.0000	97.24
18.5	129,785		0.0000	1.0000	97.24
19.5	129,785	151	0.0012	0.9988	97.24
20.5	129,633		0.0000	1.0000	97.13
21.5	129,633	16,478	0.1271	0.8729	97.13
22.5	113,155		0.0000	1.0000	84.78
23.5	113,155		0.0000	1.0000	84.78
24.5	2,811		0.0000	1.0000	84.78
25.5	2,811		0.0000	1.0000	84.78
26.5	2,811		0.0000	1.0000	84.78
27.5	2,811		0.0000	1.0000	84.78
28.5	2,811		0.0000	1.0000	84.78
29.5	2,811		0.0000	1.0000	84.78
30.5	2,811		0.0000	1.0000	84.78
31.5	2,811		0.0000	1.0000	84.78
32.5					84.78

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 374.2 LAND RIGHTS  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 374.2 LAND RIGHTS

## ORIGINAL LIFE TABLE

PLACEMENT BAND 1968-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	173,791		0.0000	1.0000	100.00
0.5	127,913		0.0000	1.0000	100.00
1.5	133,413		0.0000	1.0000	100.00
2.5	70,911		0.0000	1.0000	100.00
3.5	70,911		0.0000	1.0000	100.00
4.5	65,148		0.0000	1.0000	100.00
5.5	65,636		0.0000	1.0000	100.00
6.5	65,925		0.0000	1.0000	100.00
7.5	68,363		0.0000	1.0000	100.00
8.5	70,066		0.0000	1.0000	100.00
9.5	70,017		0.0000	1.0000	100.00
10.5	69,628		0.0000	1.0000	100.00
11.5	69,628		0.0000	1.0000	100.00
12.5	67,587		0.0000	1.0000	100.00
13.5	21,544		0.0000	1.0000	100.00
14.5	20,434		0.0000	1.0000	100.00
15.5	20,597		0.0000	1.0000	100.00
16.5	20,597		0.0000	1.0000	100.00
17.5	20,597		0.0000	1.0000	100.00
18.5	15,097		0.0000	1.0000	100.00
19.5	19,866		0.0000	1.0000	100.00
20.5	20,369		0.0000	1.0000	100.00
21.5	20,369		0.0000	1.0000	100.00
22.5	19,881		0.0000	1.0000	100.00
23.5	18,904		0.0000	1.0000	100.00
24.5	17,247		0.0000	1.0000	100.00
25.5	14,591		0.0000	1.0000	100.00
26.5	14,591		0.0000	1.0000	100.00
27.5	14,591		0.0000	1.0000	100.00
28.5	14,591		0.0000	1.0000	100.00
29.5	14,591		0.0000	1.0000	100.00
30.5	14,591		0.0000	1.0000	100.00
31.5	6,456		0.0000	1.0000	100.00
32.5	6,053		0.0000	1.0000	100.00
33.5	6,053		0.0000	1.0000	100.00
34.5	11,085		0.0000	1.0000	100.00
35.5	11,085		0.0000	1.0000	100.00
36.5	6,316		0.0000	1.0000	100.00
37.5	5,813		0.0000	1.0000	100.00
38.5	5,813		0.0000	1.0000	100.00

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 374.2 LAND RIGHTS

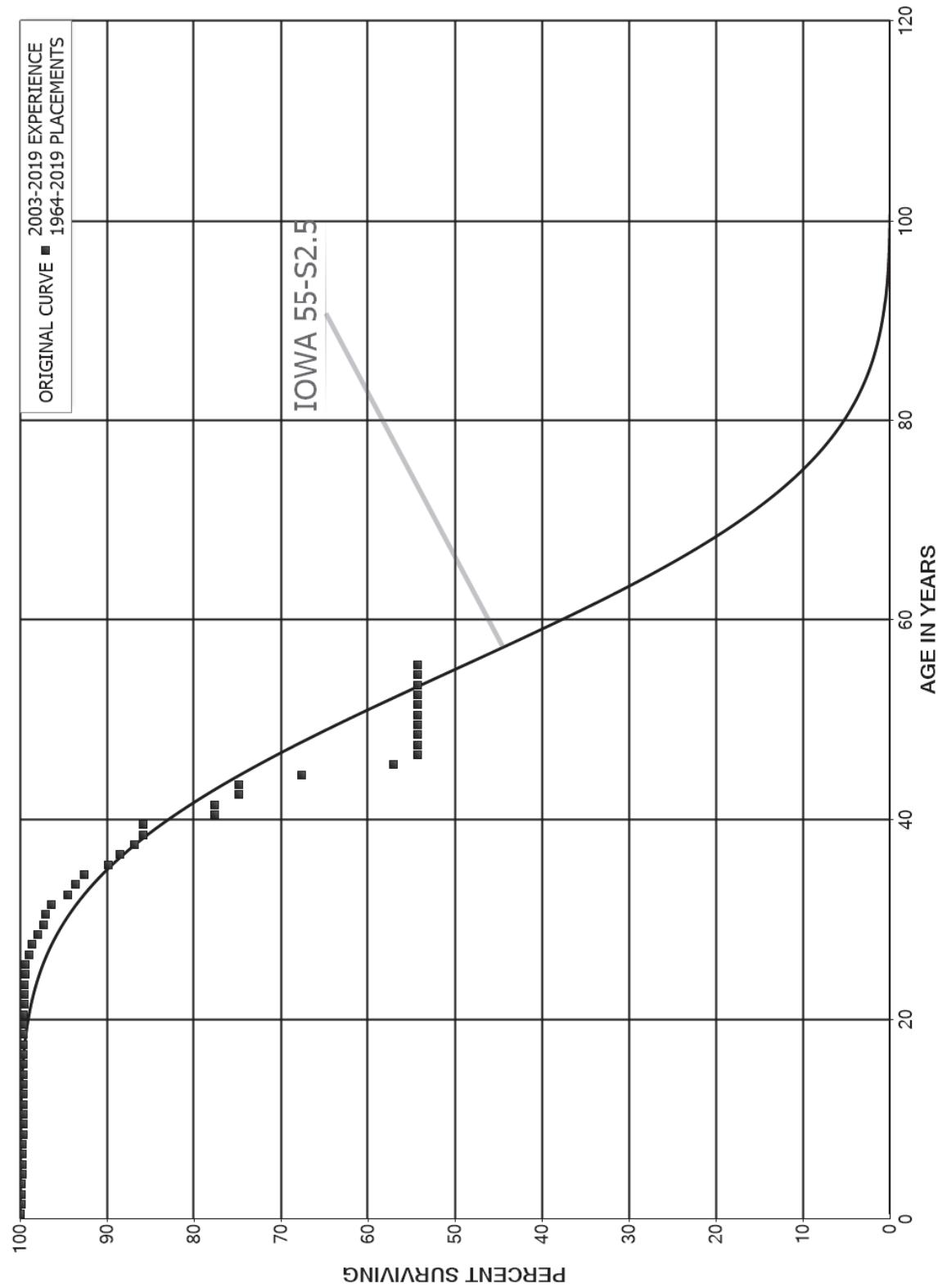
## ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1968-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	5,813		0.0000	1.0000	100.00
40.5	5,813		0.0000	1.0000	100.00
41.5	5,033		0.0000	1.0000	100.00
42.5	5,033		0.0000	1.0000	100.00
43.5	5,033		0.0000	1.0000	100.00
44.5	5,033		0.0000	1.0000	100.00
45.5	5,033		0.0000	1.0000	100.00
46.5	5,033		0.0000	1.0000	100.00
47.5	5,033		0.0000	1.0000	100.00
48.5	5,033		0.0000	1.0000	100.00
49.5	5,033		0.0000	1.0000	100.00
50.5	5,033		0.0000	1.0000	100.00
51.5					100.00

VERMONT GAS SYSTEMS, INC.  
ACCOUNTS 376.1 AND 376.2 MAINS  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNTS 376.1 AND 376.2 MAINS

## ORIGINAL LIFE TABLE

PLACEMENT BAND 1964-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	68,250,284		0.0000	1.0000	100.00
0.5	64,928,300	132,804	0.0020	0.9980	100.00
1.5	61,359,162		0.0000	1.0000	99.80
2.5	51,222,569	113	0.0000	1.0000	99.80
3.5	49,870,648	7,742	0.0002	0.9998	99.80
4.5	47,457,427	9,615	0.0002	0.9998	99.78
5.5	46,344,918	27,542	0.0006	0.9994	99.76
6.5	42,882,024	11,566	0.0003	0.9997	99.70
7.5	40,907,689	6,662	0.0002	0.9998	99.67
8.5	40,512,927		0.0000	1.0000	99.66
9.5	39,799,394	4,271	0.0001	0.9999	99.66
10.5	36,345,543		0.0000	1.0000	99.65
11.5	33,159,483		0.0000	1.0000	99.65
12.5	32,301,676		0.0000	1.0000	99.65
13.5	30,463,686		0.0000	1.0000	99.65
14.5	26,336,485		0.0000	1.0000	99.65
15.5	22,509,768		0.0000	1.0000	99.65
16.5	20,690,690		0.0000	1.0000	99.65
17.5	20,526,375	676	0.0000	1.0000	99.65
18.5	19,826,031		0.0000	1.0000	99.64
19.5	18,798,438		0.0000	1.0000	99.64
20.5	18,362,800	19,775	0.0011	0.9989	99.64
21.5	17,124,610	5,135	0.0003	0.9997	99.54
22.5	16,247,828	5,071	0.0003	0.9997	99.51
23.5	15,178,005	15,335	0.0010	0.9990	99.47
24.5	14,277,543	3,018	0.0002	0.9998	99.37
25.5	13,412,989	53,446	0.0040	0.9960	99.35
26.5	12,172,556	38,051	0.0031	0.9969	98.96
27.5	11,207,753	82,106	0.0073	0.9927	98.65
28.5	10,548,227	68,536	0.0065	0.9935	97.93
29.5	8,154,281	19,484	0.0024	0.9976	97.29
30.5	6,758,796	42,262	0.0063	0.9937	97.06
31.5	5,738,942	112,852	0.0197	0.9803	96.45
32.5	4,917,715	46,772	0.0095	0.9905	94.55
33.5	3,773,590	41,939	0.0111	0.9889	93.65
34.5	2,834,878	85,951	0.0303	0.9697	92.61
35.5	2,494,078	34,932	0.0140	0.9860	89.81
36.5	2,029,766	38,878	0.0192	0.9808	88.55
37.5	1,730,544	20,504	0.0118	0.9882	86.85
38.5	3,634,220		0.0000	1.0000	85.82

## VERMONT GAS SYSTEMS, INC.

## ACCOUNTS 376.1 AND 376.2 MAINS

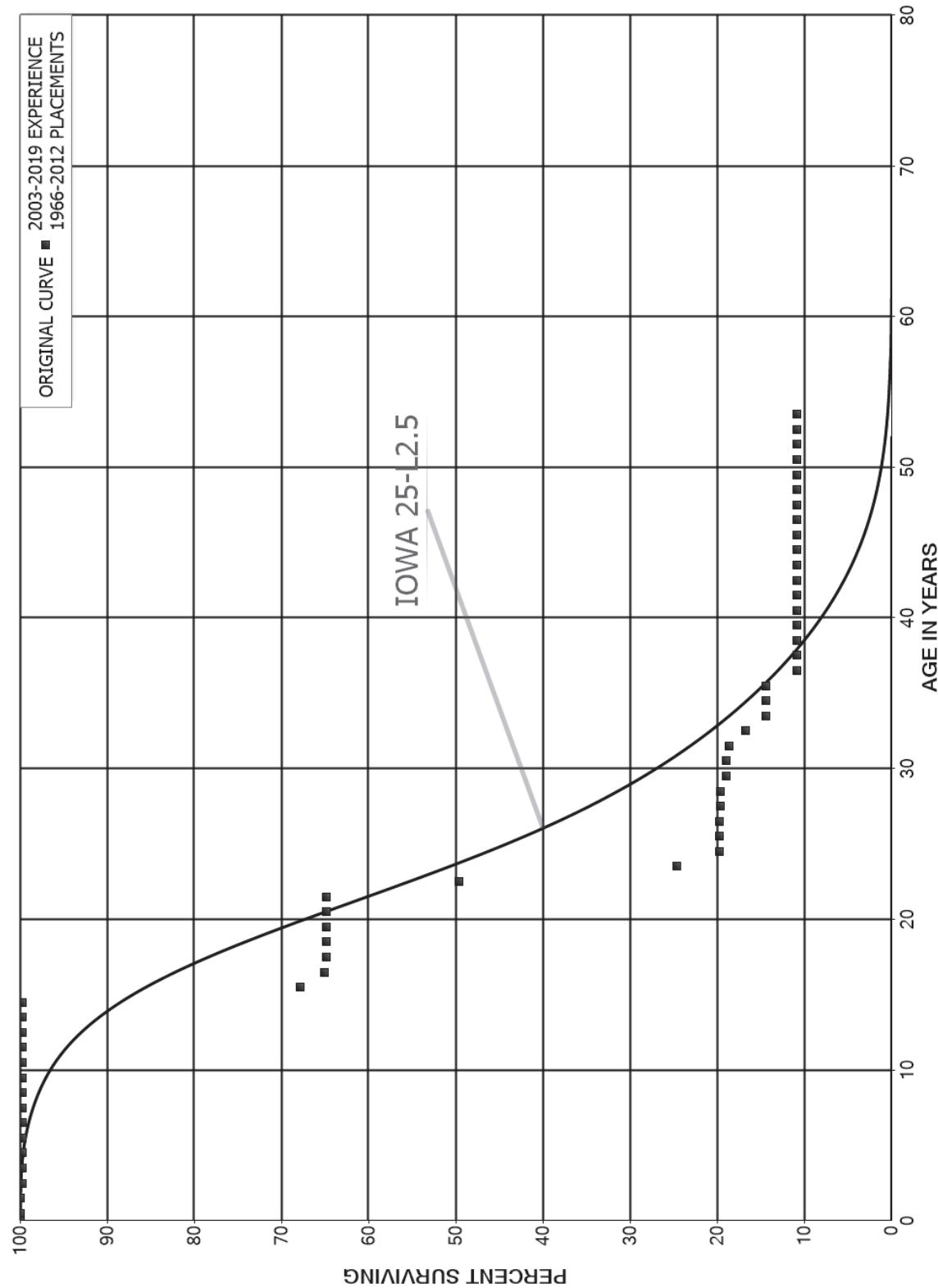
## ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1964-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	3,485,921	332,548	0.0954	0.9046	85.82
40.5	2,910,296		0.0000	1.0000	77.64
41.5	2,706,010	97,842	0.0362	0.9638	77.64
42.5	2,524,635		0.0000	1.0000	74.83
43.5	2,435,985	234,364	0.0962	0.9038	74.83
44.5	2,112,970	330,618	0.1565	0.8435	67.63
45.5	1,693,702	81,408	0.0481	0.9519	57.05
46.5	1,523,642		0.0000	1.0000	54.30
47.5	1,464,542		0.0000	1.0000	54.30
48.5	1,405,441		0.0000	1.0000	54.30
49.5	1,346,341		0.0000	1.0000	54.30
50.5	1,287,240		0.0000	1.0000	54.30
51.5	1,228,140		0.0000	1.0000	54.30
52.5	1,198,589		0.0000	1.0000	54.30
53.5	1,169,039		0.0000	1.0000	54.30
54.5	1,139,489		0.0000	1.0000	54.30
55.5					54.30

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 378 MEASURING AND REGULATING STATION EQUIPMENT - GENERAL  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

ACCOUNT 378 MEASURING AND REGULATING STATION EQUIPMENT - GENERAL

## ORIGINAL LIFE TABLE

PLACEMENT BAND 1966-2012

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	37,550		0.0000	1.0000	100.00
0.5	37,550		0.0000	1.0000	100.00
1.5	37,550	86	0.0023	0.9977	100.00
2.5	50,249		0.0000	1.0000	99.77
3.5	50,249		0.0000	1.0000	99.77
4.5	50,249		0.0000	1.0000	99.77
5.5	50,249		0.0000	1.0000	99.77
6.5	54,523		0.0000	1.0000	99.77
7.5	54,247		0.0000	1.0000	99.77
8.5	36,193		0.0000	1.0000	99.77
9.5	40,808		0.0000	1.0000	99.77
10.5	41,230		0.0000	1.0000	99.77
11.5	41,230		0.0000	1.0000	99.77
12.5	38,839		0.0000	1.0000	99.77
13.5	38,839		0.0000	1.0000	99.77
14.5	38,905	12,454	0.3201	0.6799	99.77
15.5	54,852	2,211	0.0403	0.9597	67.83
16.5	125,694	422	0.0034	0.9966	65.10
17.5	133,645		0.0000	1.0000	64.88
18.5	133,645		0.0000	1.0000	64.88
19.5	120,860		0.0000	1.0000	64.88
20.5	121,069	66	0.0005	0.9995	64.88
21.5	121,003	28,400	0.2347	0.7653	64.84
22.5	93,929	47,419	0.5048	0.4952	49.63
23.5	42,347	8,372	0.1977	0.8023	24.57
24.5	34,951		0.0000	1.0000	19.71
25.5	35,984		0.0000	1.0000	19.71
26.5	39,852	209	0.0053	0.9947	19.71
27.5	39,643		0.0000	1.0000	19.61
28.5	39,643	1,326	0.0335	0.9665	19.61
29.5	52,816		0.0000	1.0000	18.95
30.5	52,816	976	0.0185	0.9815	18.95
31.5	51,840	5,322	0.1027	0.8973	18.60
32.5	46,518	6,272	0.1348	0.8652	16.69
33.5	16,548		0.0000	1.0000	14.44
34.5	22,820		0.0000	1.0000	14.44
35.5	24,754	6,272	0.2534	0.7466	14.44
36.5	22,353		0.0000	1.0000	10.78
37.5	22,353		0.0000	1.0000	10.78
38.5	22,353		0.0000	1.0000	10.78

## VERMONT GAS SYSTEMS, INC.

ACCOUNT 378 MEASURING AND REGULATING STATION EQUIPMENT - GENERAL

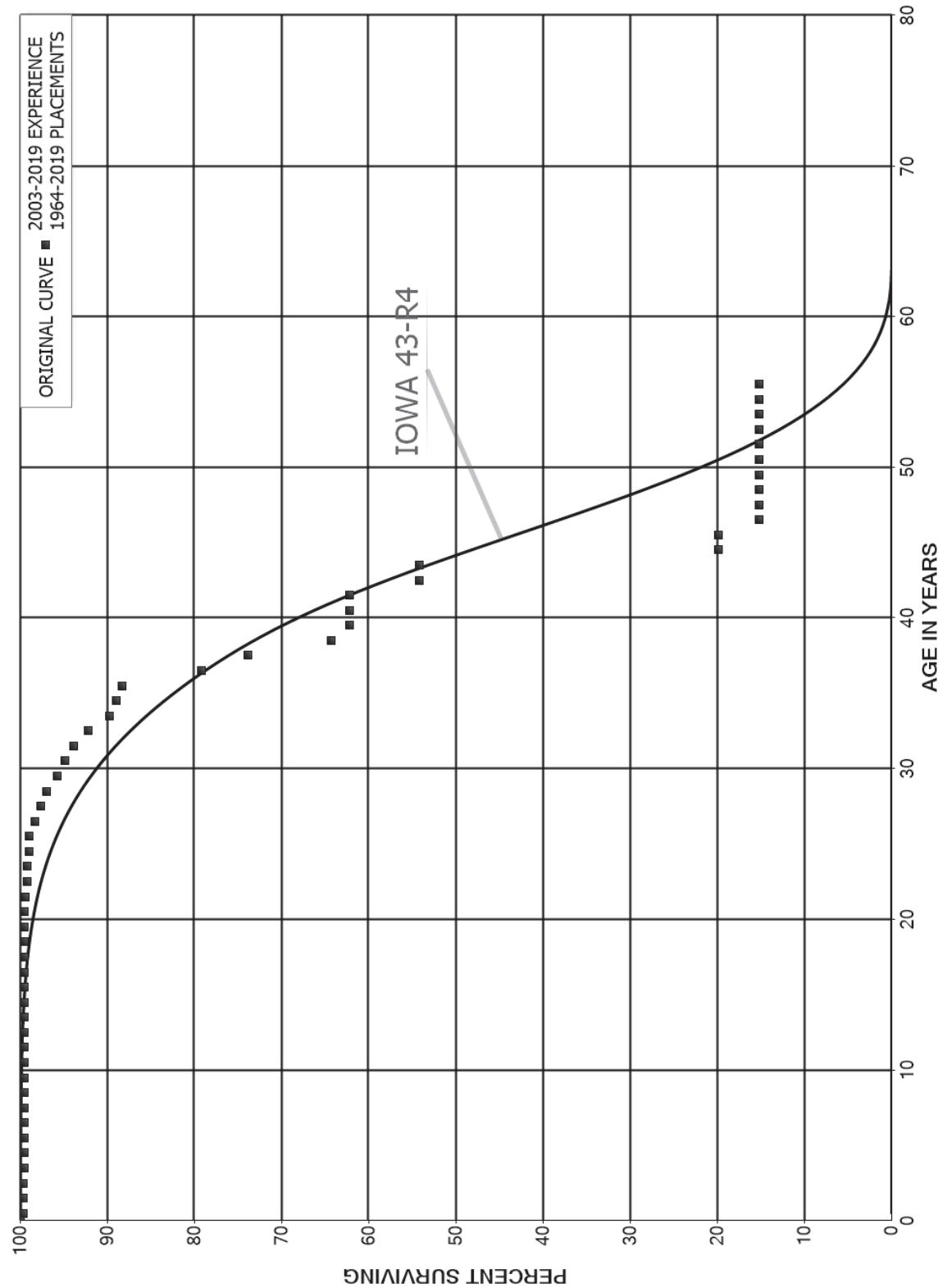
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1966-2012

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	22,353		0.0000	1.0000	10.78
40.5	22,241		0.0000	1.0000	10.78
41.5	22,241		0.0000	1.0000	10.78
42.5	22,241		0.0000	1.0000	10.78
43.5	22,241		0.0000	1.0000	10.78
44.5	22,241		0.0000	1.0000	10.78
45.5	22,241		0.0000	1.0000	10.78
46.5	14,014		0.0000	1.0000	10.78
47.5	14,014		0.0000	1.0000	10.78
48.5	14,014		0.0000	1.0000	10.78
49.5	14,014		0.0000	1.0000	10.78
50.5	12,077		0.0000	1.0000	10.78
51.5	5,805		0.0000	1.0000	10.78
52.5	3,871		0.0000	1.0000	10.78
53.5					10.78

VERMONT GAS SYSTEMS, INC.  
ACCOUNTS 380.1 AND 380.2 SERVICES  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNTS 380.1 AND 380.2 SERVICES

## ORIGINAL LIFE TABLE

PLACEMENT BAND 1964-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	38,649,641	167,509	0.0043	0.9957	100.00
0.5	37,348,055		0.0000	1.0000	99.57
1.5	34,980,493	1,101	0.0000	1.0000	99.57
2.5	33,101,738	1,232	0.0000	1.0000	99.56
3.5	32,033,874	2,890	0.0001	0.9999	99.56
4.5	30,477,766	4,871	0.0002	0.9998	99.55
5.5	29,139,120	669	0.0000	1.0000	99.53
6.5	27,734,239	4,249	0.0002	0.9998	99.53
7.5	26,390,219		0.0000	1.0000	99.52
8.5	25,190,428		0.0000	1.0000	99.52
9.5	24,186,463		0.0000	1.0000	99.52
10.5	22,962,617	5,516	0.0002	0.9998	99.52
11.5	20,742,001		0.0000	1.0000	99.49
12.5	20,098,956	2,445	0.0001	0.9999	99.49
13.5	19,386,682		0.0000	1.0000	99.48
14.5	17,555,399	1,191	0.0001	0.9999	99.48
15.5	16,204,230		0.0000	1.0000	99.47
16.5	15,024,440		0.0000	1.0000	99.47
17.5	14,723,156		0.0000	1.0000	99.47
18.5	14,233,772		0.0000	1.0000	99.47
19.5	13,304,284		0.0000	1.0000	99.47
20.5	12,749,848	7,696	0.0006	0.9994	99.47
21.5	12,091,266	23,127	0.0019	0.9981	99.41
22.5	11,598,229	10,617	0.0009	0.9991	99.22
23.5	10,827,494	18,690	0.0017	0.9983	99.13
24.5	10,146,370	6,901	0.0007	0.9993	98.96
25.5	9,266,024	53,986	0.0058	0.9942	98.90
26.5	8,320,595	61,032	0.0073	0.9927	98.32
27.5	7,555,105	46,946	0.0062	0.9938	97.60
28.5	6,709,561	83,864	0.0125	0.9875	96.99
29.5	5,702,479	56,331	0.0099	0.9901	95.78
30.5	4,725,342	49,529	0.0105	0.9895	94.83
31.5	3,882,381	70,867	0.0183	0.9817	93.84
32.5	3,161,805	82,927	0.0262	0.9738	92.13
33.5	2,519,307	22,714	0.0090	0.9910	89.71
34.5	2,045,733	14,854	0.0073	0.9927	88.90
35.5	1,665,091	170,477	0.1024	0.8976	88.26
36.5	1,264,506	86,762	0.0686	0.9314	79.22
37.5	890,873	115,131	0.1292	0.8708	73.78
38.5	1,183,923	38,732	0.0327	0.9673	64.25

## VERMONT GAS SYSTEMS, INC.

## ACCOUNTS 380.1 AND 380.2 SERVICES

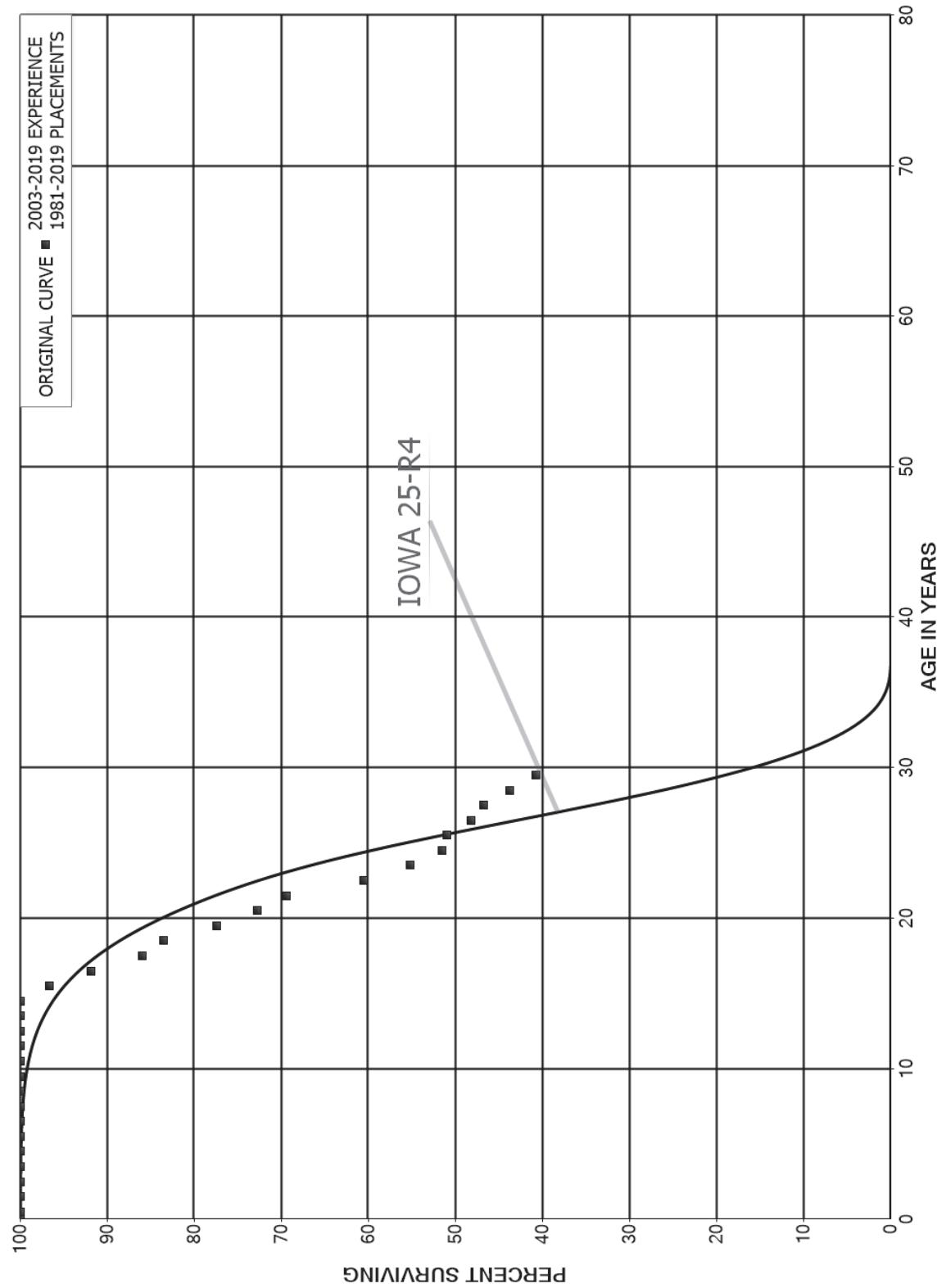
## ORIGINAL LIFE TABLE, CONT.

## PLACEMENT BAND 1964-2019

## EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,050,527		0.0000	1.0000	62.15
40.5	875,964		0.0000	1.0000	62.15
41.5	831,689	106,821	0.1284	0.8716	62.15
42.5	702,818		0.0000	1.0000	54.16
43.5	678,529	430,619	0.6346	0.3654	54.16
44.5	223,621		0.0000	1.0000	19.79
45.5	199,332	46,041	0.2310	0.7690	19.79
46.5	129,001		0.0000	1.0000	15.22
47.5	112,808		0.0000	1.0000	15.22
48.5	96,615		0.0000	1.0000	15.22
49.5	80,423		0.0000	1.0000	15.22
50.5	64,230		0.0000	1.0000	15.22
51.5	48,037		0.0000	1.0000	15.22
52.5	39,941		0.0000	1.0000	15.22
53.5	31,844		0.0000	1.0000	15.22
54.5	23,748		0.0000	1.0000	15.22
55.5					15.22

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 381 METERS  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

ACCOUNT 381 METERS

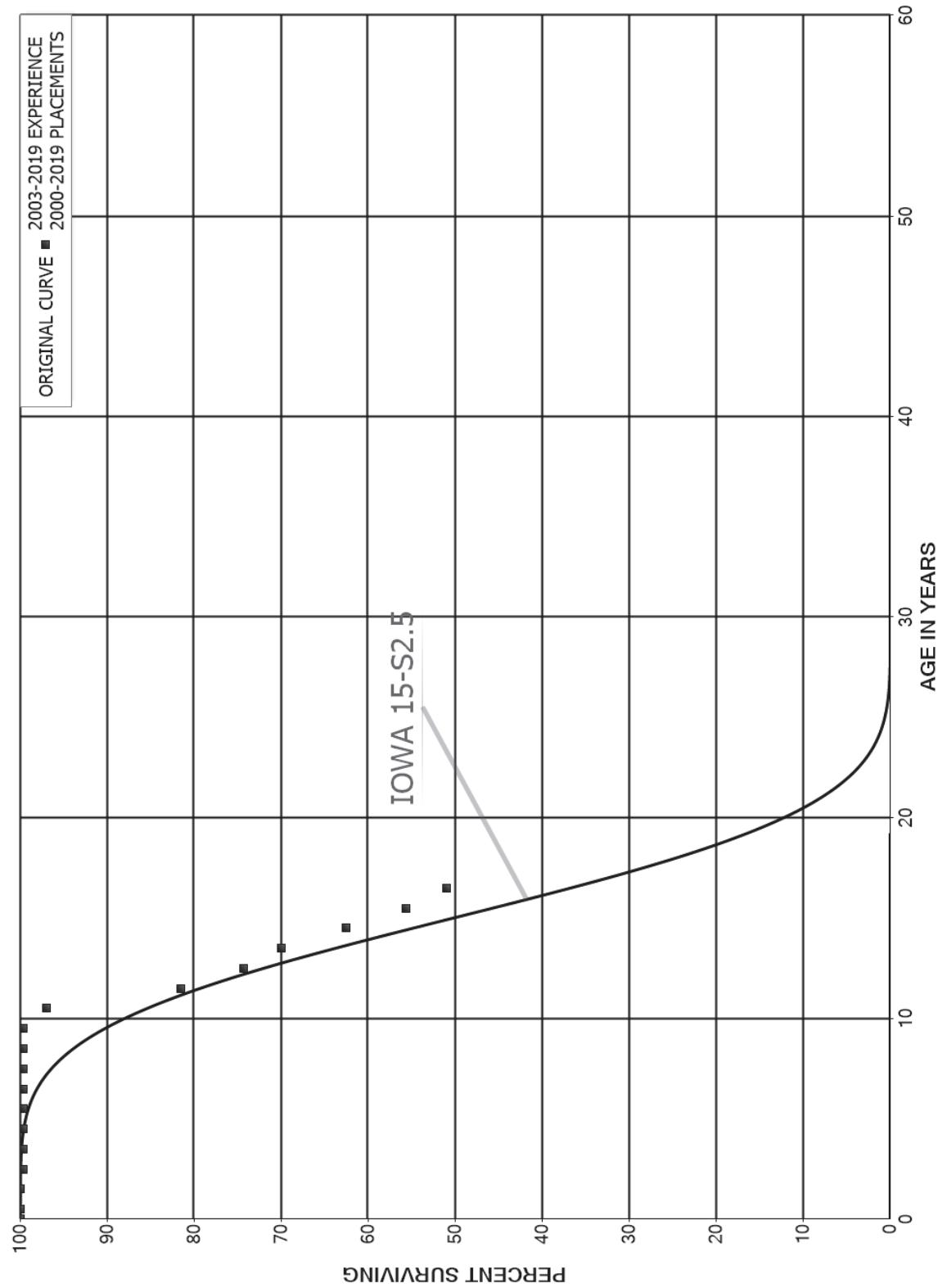
ORIGINAL LIFE TABLE

PLACEMENT BAND 1981-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	8,982,123		0.0000	1.0000	100.00
0.5	8,416,357		0.0000	1.0000	100.00
1.5	7,932,559		0.0000	1.0000	100.00
2.5	7,676,173		0.0000	1.0000	100.00
3.5	7,158,229		0.0000	1.0000	100.00
4.5	6,110,854		0.0000	1.0000	100.00
5.5	5,622,694	358	0.0001	0.9999	100.00
6.5	5,019,392		0.0000	1.0000	99.99
7.5	4,433,678		0.0000	1.0000	99.99
8.5	3,875,421		0.0000	1.0000	99.99
9.5	3,577,621		0.0000	1.0000	99.99
10.5	3,057,748		0.0000	1.0000	99.99
11.5	2,211,932		0.0000	1.0000	99.99
12.5	4,837,444		0.0000	1.0000	99.99
13.5	4,365,050		0.0000	1.0000	99.99
14.5	4,150,497	138,942	0.0335	0.9665	99.99
15.5	3,831,661	189,366	0.0494	0.9506	96.65
16.5	3,517,255	224,769	0.0639	0.9361	91.87
17.5	3,225,849	91,500	0.0284	0.9716	86.00
18.5	2,899,390	212,513	0.0733	0.9267	83.56
19.5	2,686,877	163,536	0.0609	0.9391	77.44
20.5	2,523,341	117,308	0.0465	0.9535	72.72
21.5	2,459,953	313,571	0.1275	0.8725	69.34
22.5	2,146,381	188,337	0.0877	0.9123	60.50
23.5	1,958,044	131,655	0.0672	0.9328	55.19
24.5	1,826,389	20,100	0.0110	0.9890	51.48
25.5	1,806,290	97,519	0.0540	0.9460	50.92
26.5	1,708,770	49,265	0.0288	0.9712	48.17
27.5	1,659,505	109,191	0.0658	0.9342	46.78
28.5	1,550,314	104,031	0.0671	0.9329	43.70
29.5					40.77

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 381.5 METERS - ERTS  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

ACCOUNT 381.5 METERS - ERTS

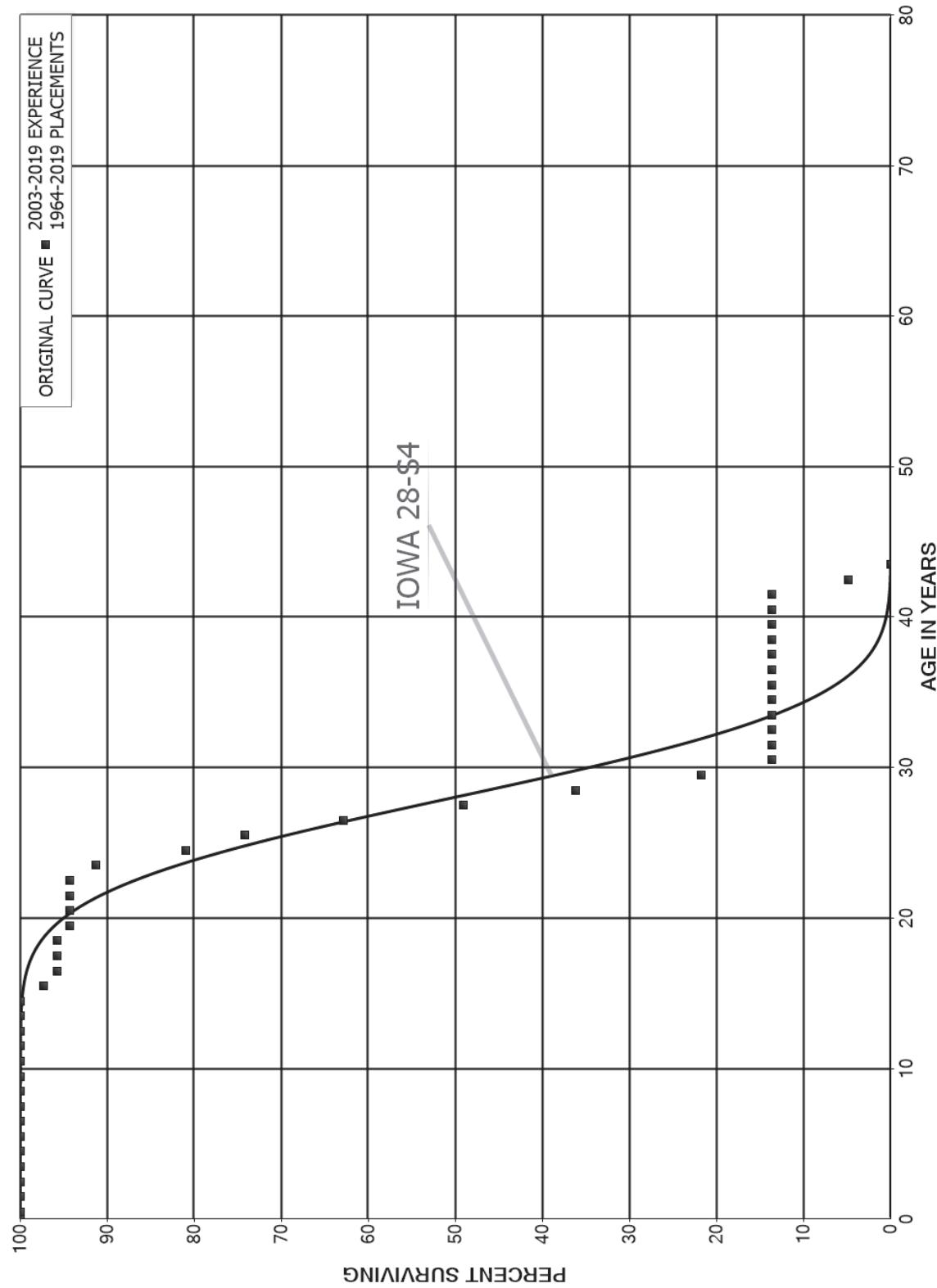
## ORIGINAL LIFE TABLE

PLACEMENT BAND 2000-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	5,053,936		0.0000	1.0000	100.00
0.5	5,084,819		0.0000	1.0000	100.00
1.5	5,248,549	18,936	0.0036	0.9964	100.00
2.5	5,172,583		0.0000	1.0000	99.64
3.5	4,954,752		0.0000	1.0000	99.64
4.5	4,839,523		0.0000	1.0000	99.64
5.5	4,521,989		0.0000	1.0000	99.64
6.5	4,242,366		0.0000	1.0000	99.64
7.5	3,627,326		0.0000	1.0000	99.64
8.5	3,323,756		0.0000	1.0000	99.64
9.5	3,243,365	85,927	0.0265	0.9735	99.64
10.5	2,885,613	461,290	0.1599	0.8401	97.00
11.5	2,240,288	198,730	0.0887	0.9113	81.49
12.5	1,823,227	105,023	0.0576	0.9424	74.26
13.5	1,621,121	173,185	0.1068	0.8932	69.99
14.5	1,430,347	158,557	0.1109	0.8891	62.51
15.5	333,876	28,098	0.0842	0.9158	55.58
16.5	17,453		0.0000	1.0000	50.90
17.5	5,871		0.0000	1.0000	50.90
18.5					50.90

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 382 METER INSTALLATIONS  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 382 METER INSTALLATIONS

## ORIGINAL LIFE TABLE

PLACEMENT BAND 1964-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	10,308,408		0.0000	1.0000	100.00
0.5	10,151,809		0.0000	1.0000	100.00
1.5	9,628,704		0.0000	1.0000	100.00
2.5	9,129,412		0.0000	1.0000	100.00
3.5	8,669,796		0.0000	1.0000	100.00
4.5	8,146,719		0.0000	1.0000	100.00
5.5	7,476,588		0.0000	1.0000	100.00
6.5	6,863,500		0.0000	1.0000	100.00
7.5	6,229,838		0.0000	1.0000	100.00
8.5	5,690,043		0.0000	1.0000	100.00
9.5	4,754,385		0.0000	1.0000	100.00
10.5	3,896,911		0.0000	1.0000	100.00
11.5	2,932,544		0.0000	1.0000	100.00
12.5	2,515,203		0.0000	1.0000	100.00
13.5	2,299,632		0.0000	1.0000	100.00
14.5	2,116,107	57,649	0.0272	0.9728	100.00
15.5	1,909,638	29,859	0.0156	0.9844	97.28
16.5	1,856,075		0.0000	1.0000	95.75
17.5	1,617,765		0.0000	1.0000	95.75
18.5	1,478,604	22,708	0.0154	0.9846	95.75
19.5	1,513,761		0.0000	1.0000	94.28
20.5	1,353,261		0.0000	1.0000	94.28
21.5	1,254,109		0.0000	1.0000	94.28
22.5	1,225,895	39,016	0.0318	0.9682	94.28
23.5	1,140,552	128,793	0.1129	0.8871	91.28
24.5	971,801	82,009	0.0844	0.9156	80.98
25.5	861,629	131,206	0.1523	0.8477	74.14
26.5	628,617	137,997	0.2195	0.7805	62.85
27.5	490,620	129,004	0.2629	0.7371	49.05
28.5	358,217	143,470	0.4005	0.5995	36.16
29.5	125,675	47,014	0.3741	0.6259	21.68
30.5	75,381		0.0000	1.0000	13.57
31.5	53,017		0.0000	1.0000	13.57
32.5	53,017		0.0000	1.0000	13.57
33.5	47,737		0.0000	1.0000	13.57
34.5	42,668		0.0000	1.0000	13.57
35.5	42,668		0.0000	1.0000	13.57
36.5	35,668		0.0000	1.0000	13.57
37.5	25,446		0.0000	1.0000	13.57
38.5	176,083		0.0000	1.0000	13.57

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 382 METER INSTALLATIONS

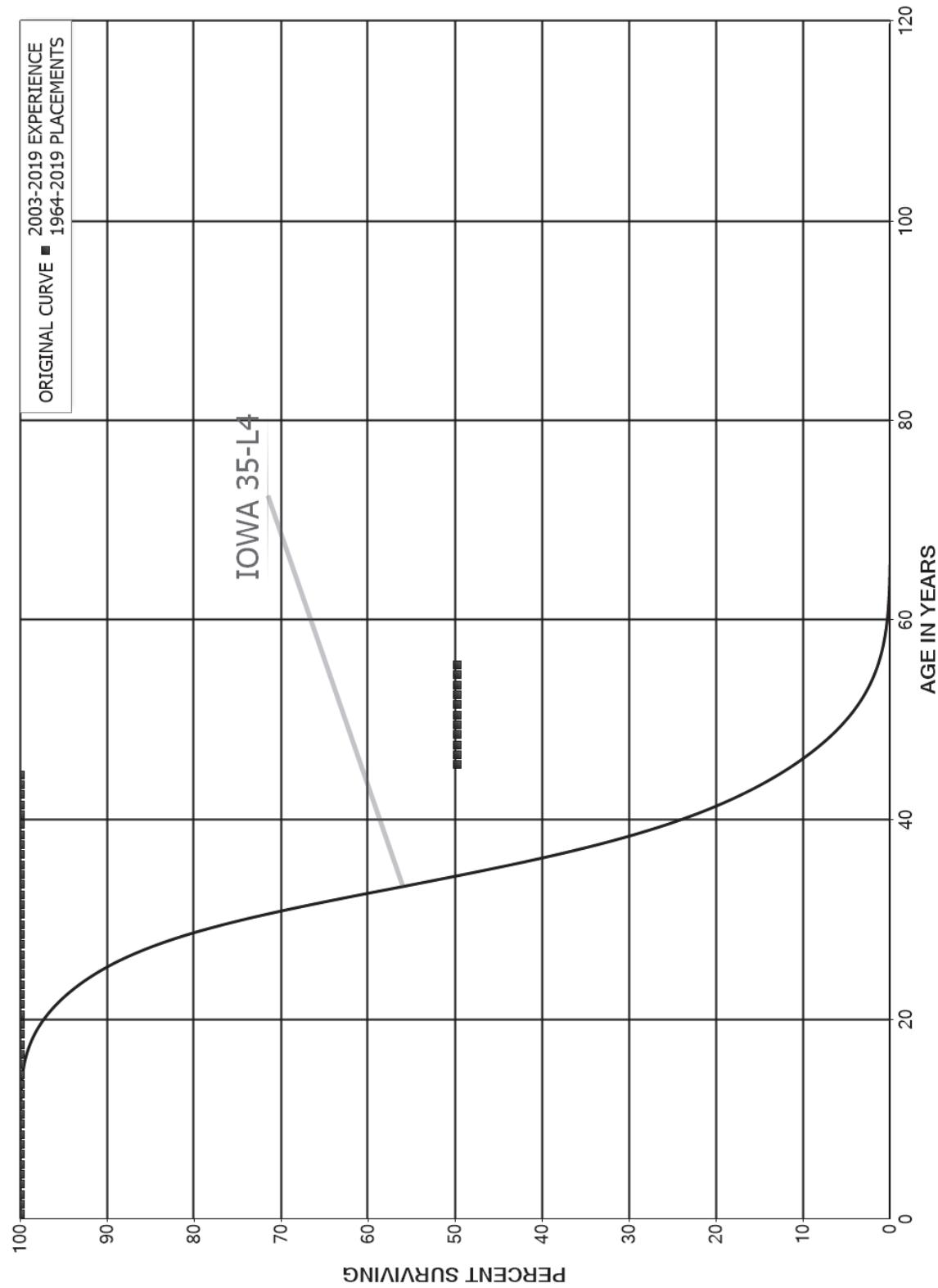
## ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1964-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	166,833		0.0000	1.0000	13.57
40.5	161,368		0.0000	1.0000	13.57
41.5	161,368	103,344	0.6404	0.3596	13.57
42.5	58,024	58,024	1.0000		4.88
43.5					

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 383 HOUSE REGULATORS  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

ACCOUNT 383 HOUSE REGULATORS

## ORIGINAL LIFE TABLE

PLACEMENT BAND 1964-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	2,251,382		0.0000	1.0000	100.00
0.5	2,087,708		0.0000	1.0000	100.00
1.5	1,940,558		0.0000	1.0000	100.00
2.5	1,848,627		0.0000	1.0000	100.00
3.5	1,712,473		0.0000	1.0000	100.00
4.5	1,619,032		0.0000	1.0000	100.00
5.5	1,488,196		0.0000	1.0000	100.00
6.5	1,362,004		0.0000	1.0000	100.00
7.5	1,169,399		0.0000	1.0000	100.00
8.5	1,031,841		0.0000	1.0000	100.00
9.5	775,757		0.0000	1.0000	100.00
10.5	688,222		0.0000	1.0000	100.00
11.5	593,328		0.0000	1.0000	100.00
12.5	498,079		0.0000	1.0000	100.00
13.5	425,672		0.0000	1.0000	100.00
14.5	432,498		0.0000	1.0000	100.00
15.5	441,528		0.0000	1.0000	100.00
16.5	434,593		0.0000	1.0000	100.00
17.5	456,664		0.0000	1.0000	100.00
18.5	442,997		0.0000	1.0000	100.00
19.5	442,155		0.0000	1.0000	100.00
20.5	423,793		0.0000	1.0000	100.00
21.5	422,195		0.0000	1.0000	100.00
22.5	396,916		0.0000	1.0000	100.00
23.5	381,244		0.0000	1.0000	100.00
24.5	362,420		0.0000	1.0000	100.00
25.5	320,518		0.0000	1.0000	100.00
26.5	307,672		0.0000	1.0000	100.00
27.5	307,672		0.0000	1.0000	100.00
28.5	270,564		0.0000	1.0000	100.00
29.5	235,447		0.0000	1.0000	100.00
30.5	197,478		0.0000	1.0000	100.00
31.5	163,900		0.0000	1.0000	100.00
32.5	131,214		0.0000	1.0000	100.00
33.5	114,493		0.0000	1.0000	100.00
34.5	80,967		0.0000	1.0000	100.00
35.5	67,453		0.0000	1.0000	100.00
36.5	57,379		0.0000	1.0000	100.00
37.5	50,850		0.0000	1.0000	100.00
38.5	131,481		0.0000	1.0000	100.00

## VERMONT GAS SYSTEMS, INC.

ACCOUNT 383 HOUSE REGULATORS

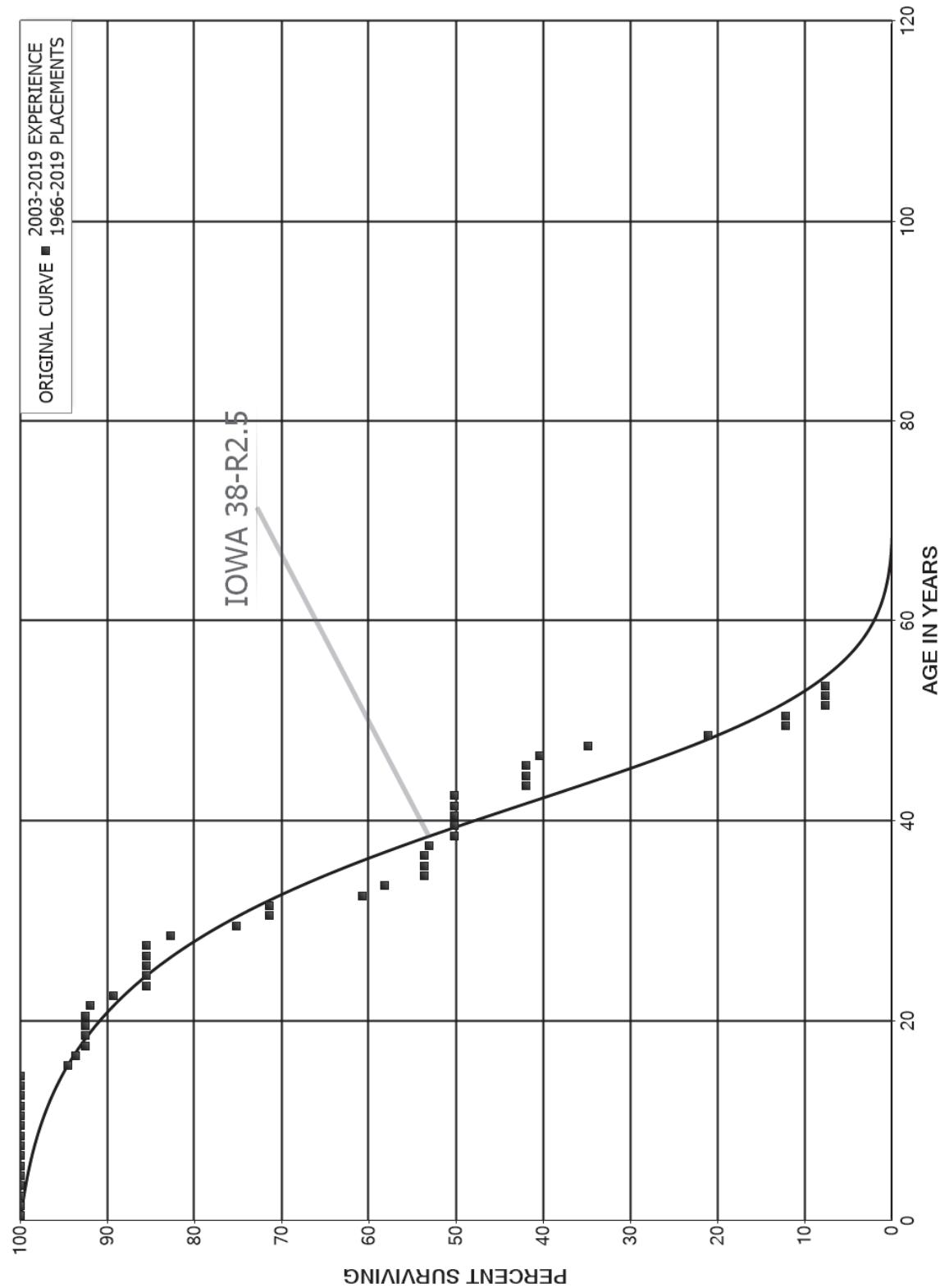
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1964-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	114,315		0.0000	1.0000	100.00
40.5	104,813		0.0000	1.0000	100.00
41.5	100,734		0.0000	1.0000	100.00
42.5	98,697		0.0000	1.0000	100.00
43.5	98,697		0.0000	1.0000	100.00
44.5	98,697	49,575	0.5023	0.4977	100.00
45.5	49,122		0.0000	1.0000	49.77
46.5	49,122		0.0000	1.0000	49.77
47.5	49,122		0.0000	1.0000	49.77
48.5	49,122		0.0000	1.0000	49.77
49.5	49,122		0.0000	1.0000	49.77
50.5	49,122		0.0000	1.0000	49.77
51.5	49,122		0.0000	1.0000	49.77
52.5	49,122		0.0000	1.0000	49.77
53.5	49,122		0.0000	1.0000	49.77
54.5	49,122		0.0000	1.0000	49.77
55.5					49.77

VERMONT GAS SYSTEMS, INC.  
 ACCOUNT 385 INDUSTRIAL MEASURING AND REGULATING STATION EQUIPMENT  
 ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

ACCOUNT 385 INDUSTRIAL MEASURING AND REGULATING STATION EQUIPMENT

## ORIGINAL LIFE TABLE

PLACEMENT BAND 1966-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	614,520		0.0000	1.0000	100.00
0.5	542,808		0.0000	1.0000	100.00
1.5	553,973		0.0000	1.0000	100.00
2.5	523,248		0.0000	1.0000	100.00
3.5	443,321		0.0000	1.0000	100.00
4.5	448,764		0.0000	1.0000	100.00
5.5	358,909		0.0000	1.0000	100.00
6.5	280,949		0.0000	1.0000	100.00
7.5	287,978		0.0000	1.0000	100.00
8.5	311,352		0.0000	1.0000	100.00
9.5	231,069		0.0000	1.0000	100.00
10.5	214,969		0.0000	1.0000	100.00
11.5	214,969		0.0000	1.0000	100.00
12.5	214,969		0.0000	1.0000	100.00
13.5	212,994		0.0000	1.0000	100.00
14.5	223,234	12,162	0.0545	0.9455	100.00
15.5	215,795	2,046	0.0095	0.9905	94.55
16.5	213,749	2,637	0.0123	0.9877	93.66
17.5	231,692		0.0000	1.0000	92.50
18.5	230,866		0.0000	1.0000	92.50
19.5	194,344		0.0000	1.0000	92.50
20.5	187,465	1,106	0.0059	0.9941	92.50
21.5	166,602	4,812	0.0289	0.9711	91.95
22.5	162,790	6,988	0.0429	0.9571	89.30
23.5	113,866		0.0000	1.0000	85.46
24.5	118,714		0.0000	1.0000	85.46
25.5	102,438		0.0000	1.0000	85.46
26.5	96,995		0.0000	1.0000	85.46
27.5	84,730	2,663	0.0314	0.9686	85.46
28.5	104,163	9,562	0.0918	0.9082	82.78
29.5	94,600	4,723	0.0499	0.9501	75.18
30.5	96,208		0.0000	1.0000	71.43
31.5	110,051	16,441	0.1494	0.8506	71.43
32.5	108,133	4,584	0.0424	0.9576	60.76
33.5	135,670	10,583	0.0780	0.9220	58.18
34.5	144,076		0.0000	1.0000	53.64
35.5	140,367		0.0000	1.0000	53.64
36.5	148,885	1,628	0.0109	0.9891	53.64
37.5	147,258	7,890	0.0536	0.9464	53.06
38.5	139,368		0.0000	1.0000	50.21

## VERMONT GAS SYSTEMS, INC.

ACCOUNT 385 INDUSTRIAL MEASURING AND REGULATING STATION EQUIPMENT

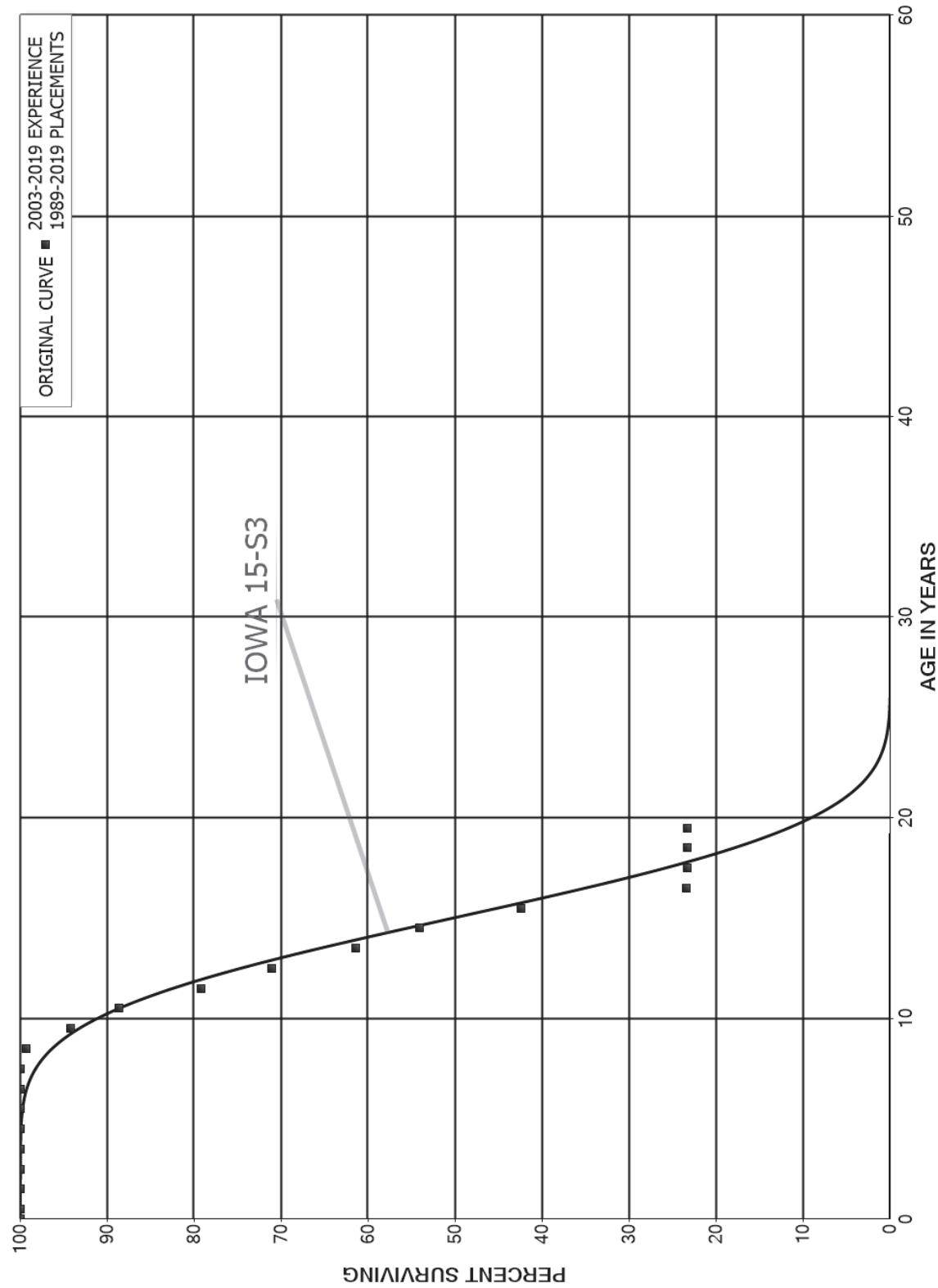
## ORIGINAL LIFE TABLE, CONT.

## PLACEMENT BAND 1966-2019

## EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	138,979		0.0000	1.0000	50.21
40.5	135,660		0.0000	1.0000	50.21
41.5	128,596		0.0000	1.0000	50.21
42.5	128,486	21,221	0.1652	0.8348	50.21
43.5	107,265		0.0000	1.0000	41.92
44.5	107,265		0.0000	1.0000	41.92
45.5	106,390	3,964	0.0373	0.9627	41.92
46.5	102,426	14,132	0.1380	0.8620	40.36
47.5	79,300	31,398	0.3959	0.6041	34.79
48.5	37,344	15,699	0.4204	0.5796	21.01
49.5	21,253		0.0000	1.0000	12.18
50.5	20,531	7,619	0.3711	0.6289	12.18
51.5	5,483		0.0000	1.0000	7.66
52.5	5,483		0.0000	1.0000	7.66
53.5					7.66

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 386.1 WATER HEATERS  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 386.1 WATER HEATERS

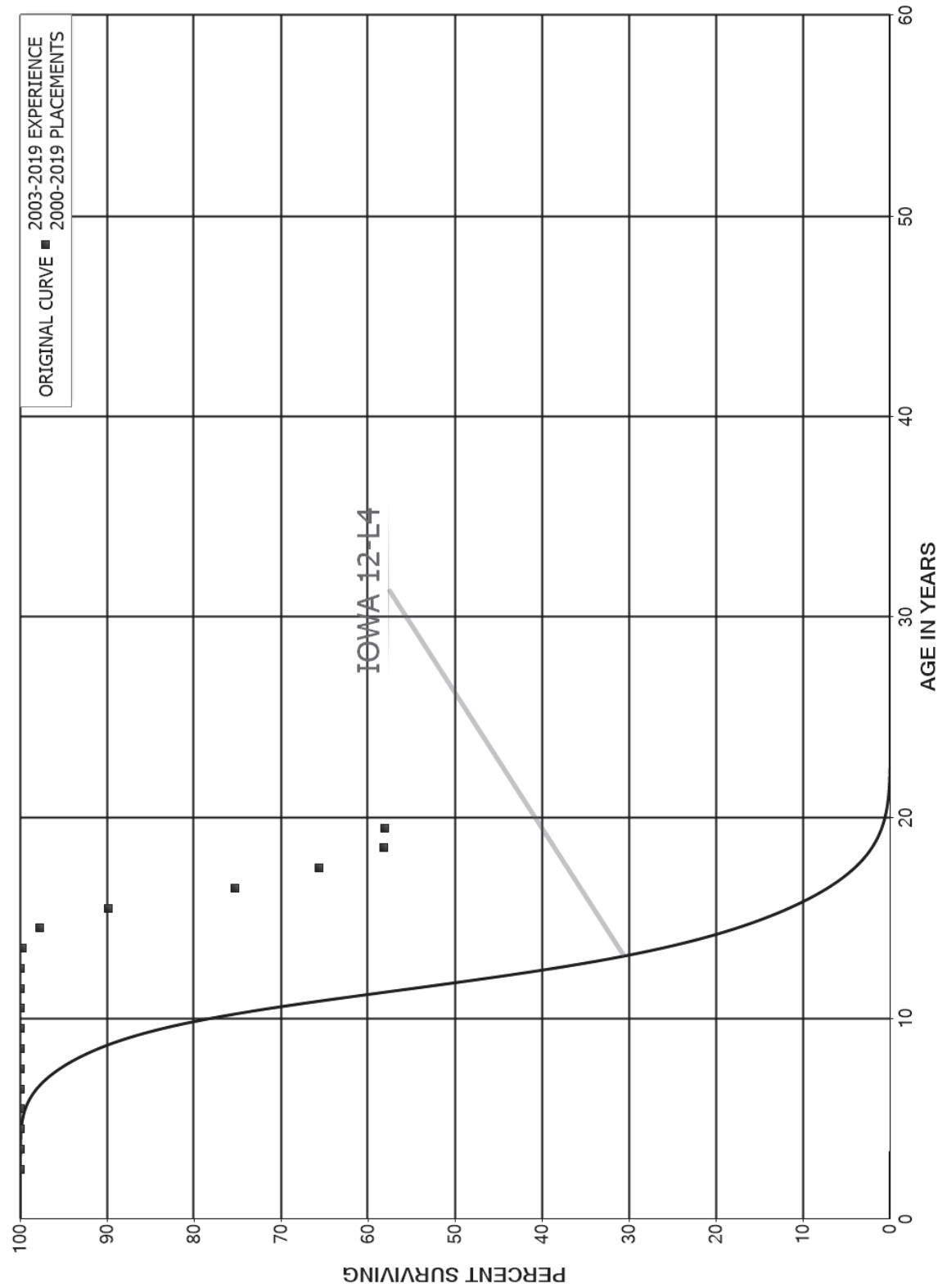
## ORIGINAL LIFE TABLE

PLACEMENT BAND 1989-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	20,414,132		0.0000	1.0000	100.00
0.5	20,342,886		0.0000	1.0000	100.00
1.5	19,835,668		0.0000	1.0000	100.00
2.5	20,752,419		0.0000	1.0000	100.00
3.5	20,465,780		0.0000	1.0000	100.00
4.5	20,649,884		0.0000	1.0000	100.00
5.5	20,243,431		0.0000	1.0000	100.00
6.5	19,437,866		0.0000	1.0000	100.00
7.5	18,320,693	132,918	0.0073	0.9927	100.00
8.5	17,065,324	870,708	0.0510	0.9490	99.27
9.5	14,949,268	882,164	0.0590	0.9410	94.21
10.5	13,115,325	1,396,420	0.1065	0.8935	88.65
11.5	10,439,310	1,067,734	0.1023	0.8977	79.21
12.5	7,731,980	1,053,419	0.1362	0.8638	71.11
13.5	5,073,085	610,251	0.1203	0.8797	61.42
14.5	3,210,416	693,370	0.2160	0.7840	54.03
15.5	1,404,884	628,257	0.4472	0.5528	42.36
16.5	652,117	2,467	0.0038	0.9962	23.42
17.5	267,774		0.0000	1.0000	23.33
18.5	238,447		0.0000	1.0000	23.33
19.5					23.33

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 386.2 CONVERSION BURNERS  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 386.2 CONVERSION BURNERS

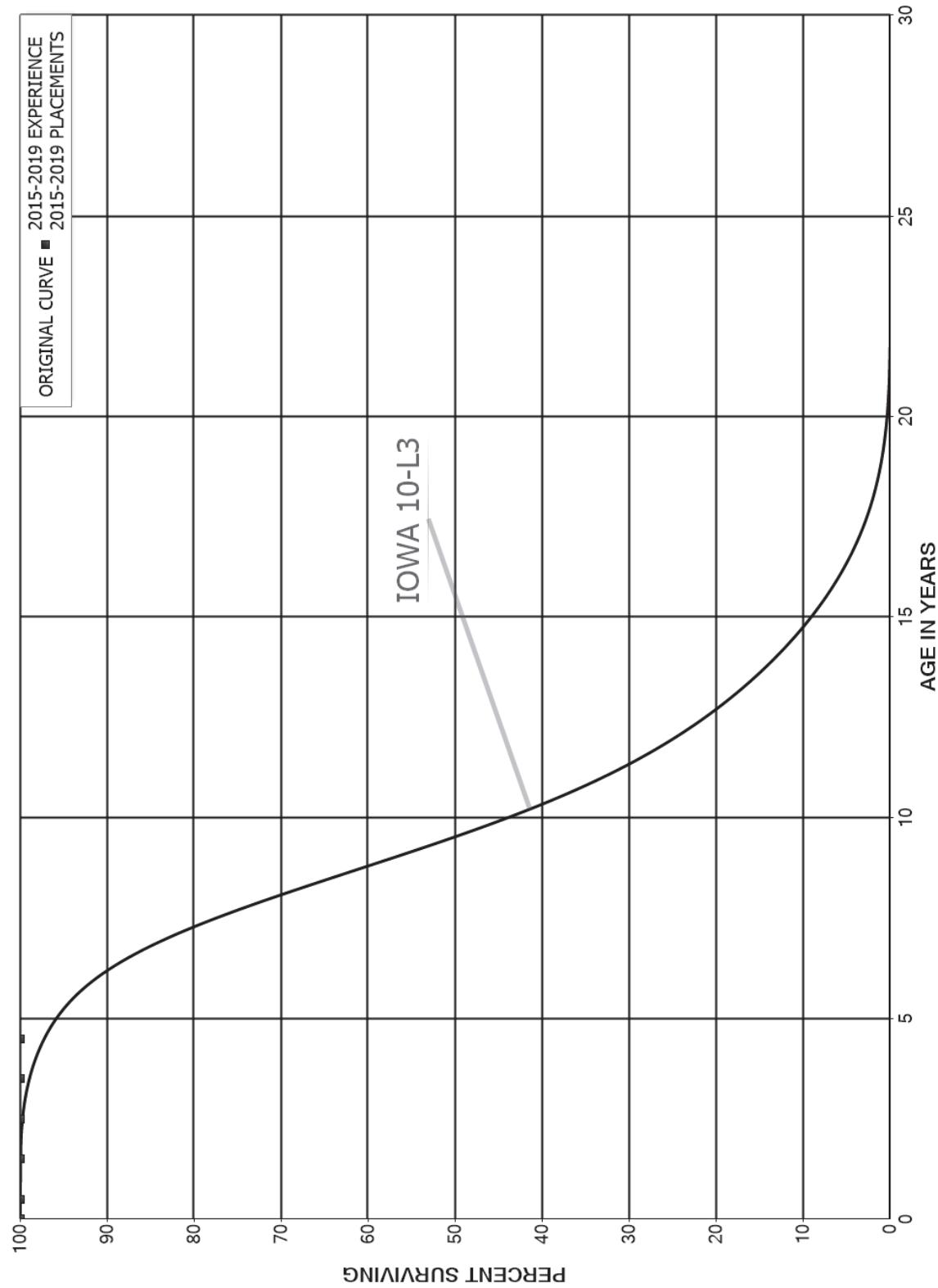
## ORIGINAL LIFE TABLE

## PLACEMENT BAND 2000-2019

## EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	6,356,913	0.0000			
0.5	6,329,137	0.0000			
1.5	6,167,993	0.0000			
2.5	6,593,657	0.0000	1.0000	100.00	
3.5	6,442,497	0.0000	1.0000	100.00	
4.5	6,134,584	0.0000	1.0000	100.00	
5.5	5,497,943	0.0000	1.0000	100.00	
6.5	4,851,740	0.0000	1.0000	100.00	
7.5	4,193,794	0.0000	1.0000	100.00	
8.5	3,523,129	0.0000	1.0000	100.00	
9.5	3,265,309	0.0000	1.0000	100.00	
10.5	2,750,362	0.0000	1.0000	100.00	
11.5	1,909,099	0.0000	1.0000	100.00	
12.5	1,599,720	3,629	0.0023	0.9977	100.00
13.5	1,217,908	25,172	0.0207	0.9793	99.77
14.5	990,712	80,372	0.0811	0.9189	97.71
15.5	779,483	125,594	0.1611	0.8389	89.78
16.5	623,772	79,974	0.1282	0.8718	75.32
17.5	505,613	58,042	0.1148	0.8852	65.66
18.5	375,561	345	0.0009	0.9991	58.12
19.5					58.07

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 386.5 STEAM HEATERS  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 386.5 STEAM HEATERS

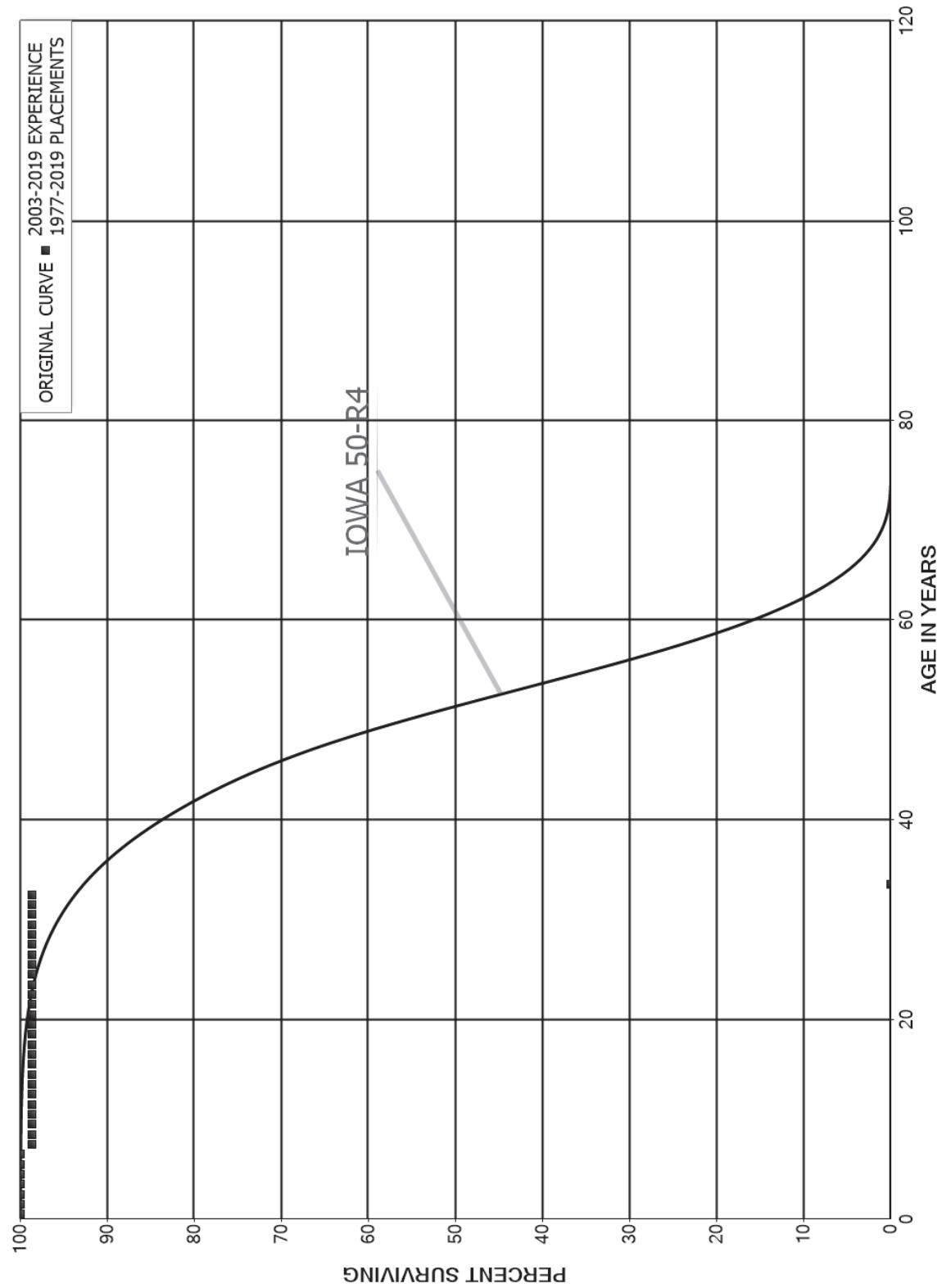
## ORIGINAL LIFE TABLE

PLACEMENT BAND 2015-2019

EXPERIENCE BAND 2015-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	214,237	0.0000	1.0000	100.00	
0.5	209,635	0.0000	1.0000	100.00	
1.5	140,109	0.0000	1.0000	100.00	
2.5	88,560	0.0000	1.0000	100.00	
3.5	26,191	0.0000	1.0000	100.00	
4.5					100.00

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 390 STRUCTURES AND IMPROVEMENTS  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 390 STRUCTURES AND IMPROVEMENTS

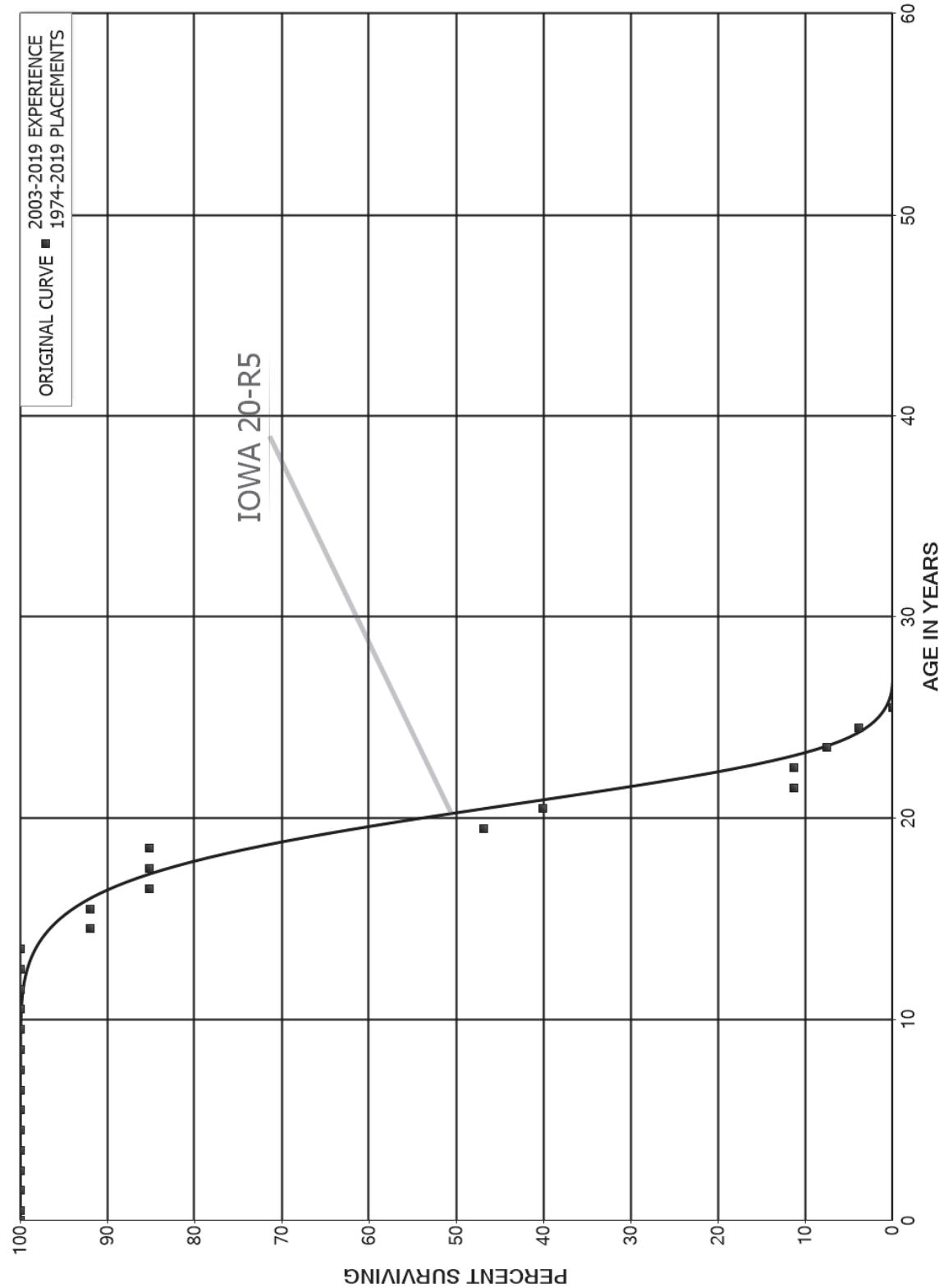
## ORIGINAL LIFE TABLE

PLACEMENT BAND 1977-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	3,122,548		0.0000	1.0000	100.00
0.5	2,983,128		0.0000	1.0000	100.00
1.5	2,934,051		0.0000	1.0000	100.00
2.5	3,044,532	6	0.0000	1.0000	100.00
3.5	2,702,738		0.0000	1.0000	100.00
4.5	2,093,492		0.0000	1.0000	100.00
5.5	1,950,888		0.0000	1.0000	100.00
6.5	1,857,386		24,998	0.0135	0.9865
7.5	1,675,487			0.0000	1.0000
8.5	1,651,132			0.0000	1.0000
9.5	1,464,089		0.0000	1.0000	98.65
10.5	1,388,220		0.0000	1.0000	98.65
11.5	1,288,928		0.0000	1.0000	98.65
12.5	968,465		0.0000	1.0000	98.65
13.5	520,394		0.0000	1.0000	98.65
14.5	474,919		0.0000	1.0000	98.65
15.5	1,791,104		0.0000	1.0000	98.65
16.5	1,763,729		0.0000	1.0000	98.65
17.5	1,719,156		0.0000	1.0000	98.65
18.5	1,701,243		0.0000	1.0000	98.65
19.5	1,437,219		0.0000	1.0000	98.65
20.5	1,435,801		0.0000	1.0000	98.65
21.5	1,426,551		0.0000	1.0000	98.65
22.5	1,392,565		0.0000	1.0000	98.65
23.5	1,373,974		0.0000	1.0000	98.65
24.5	1,362,638		0.0000	1.0000	98.65
25.5	1,394,401		0.0000	1.0000	98.65
26.5	1,394,401		0.0000	1.0000	98.65
27.5	1,394,401		0.0000	1.0000	98.65
28.5	1,394,401		0.0000	1.0000	98.65
29.5	1,394,401		0.0000	1.0000	98.65
30.5	1,394,401		0.0000	1.0000	98.65
31.5	1,394,401		0.0000	1.0000	98.65
32.5	38,568	38,568	1.0000		98.65
33.5					

VERMONT GAS SYSTEMS, INC.  
ACCOUNT 396 POWER OPERATED EQUIPMENT  
ORIGINAL AND SMOOTH SURVIVOR CURVES



## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 396 POWER OPERATED EQUIPMENT

## ORIGINAL LIFE TABLE

PLACEMENT BAND 1974-2019

EXPERIENCE BAND 2003-2019

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	270,688		0.0000	1.0000	100.00
0.5	228,595		0.0000	1.0000	100.00
1.5	175,725		0.0000	1.0000	100.00
2.5	138,907		0.0000	1.0000	100.00
3.5	70,107		0.0000	1.0000	100.00
4.5	59,410		0.0000	1.0000	100.00
5.5	58,210		0.0000	1.0000	100.00
6.5	60,561		0.0000	1.0000	100.00
7.5	63,370		0.0000	1.0000	100.00
8.5	52,511		0.0000	1.0000	100.00
9.5	50,083		0.0000	1.0000	100.00
10.5	38,728		0.0000	1.0000	100.00
11.5	38,257		0.0000	1.0000	100.00
12.5	34,859		0.0000	1.0000	100.00
13.5	34,859	2,808	0.0806	0.9194	100.00
14.5	32,051		0.0000	1.0000	91.94
15.5	32,051	2,351	0.0734	0.9266	91.94
16.5	31,172		0.0000	1.0000	85.20
17.5	35,256		0.0000	1.0000	85.20
18.5	33,056	14,881	0.4502	0.5498	85.20
19.5	18,174	2,625	0.1444	0.8556	46.84
20.5	15,549	11,183	0.7192	0.2808	40.08
21.5	4,366		0.0000	1.0000	11.25
22.5	4,366	1,472	0.3371	0.6629	11.25
23.5	5,984	2,894	0.4837	0.5163	7.46
24.5	3,090	3,090	1.0000		3.85
25.5					
26.5					
27.5					
28.5	2,613		0.0000		
29.5	2,613	2,613	1.0000		
30.5					

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## **PART VIII. NET SALVAGE STATISTICS**

**VERMONT GAS SYSTEMS, INC.**  
**SIMULATED NET SALVAGE ANALYSIS BY ACCOUNT**  
**FOR THE YEARS 2004 THROUGH 2019**

ACCOUNT	DESCRIPTION	YEAR	RETIREMENT AMOUNT	NET SALVAGE PERCENT		SIMULATED NET SALVAGE
				(25)	(83,137)	
376.00	MAINS	2004	332,548			
386.10	WATER HEATERS	2004	344,349	0	-	
396.00	POWER OPERATED EQUIPMENT	2004	6,892	10	689	
			<b>683,789</b>			<b>(82,448)</b>
386.10	WATER HEATERS	2005	365,824	0	-	
391.00	OFFICE FURNITURE AND EQUIPMENT	2005	26,487	0	-	
			<b>392,311</b>			<b>-</b>
376.00	MAINS	2006	97,842	(25)	(24,461)	
380.00	SERVICES	2006	106,821	(50)	(53,411)	
381.00	METERS	2006	202,231	0	-	
382.00	METER INSTALLATIONS	2006	103,344	(10)	(10,334)	
386.10	WATER HEATERS	2006	584,970	0	-	
			<b>1,095,208</b>			<b>(88,206)</b>
381.00	METERS	2007	224,769	0	-	
382.00	METER INSTALLATIONS	2007	114,857	(10)	(11,486)	
386.10	WATER HEATERS	2007	369,618	0	-	
			<b>709,244</b>			<b>(11,486)</b>



**VERMONT GAS SYSTEMS, INC.**  
**SIMULATED NET SALVAGE ANALYSIS BY ACCOUNT**  
**FOR THE YEARS 2004 THROUGH 2019**

ACCOUNT	DESCRIPTION	YEAR	RETIREMENT AMOUNT	SIMULATED NET SALVAGE	
				PERCENT	NET SALVAGE PERCENT
376.00	MAINS	2008	234,364	(25)	(58,591)
380.00	SERVICES	2008	659,437	(50)	(329,719)
381.00	METERS	2008	71,302	0	-
382.00	METER INSTALLATIONS	2008	36,435	(10)	(3,644)
386.10	WATER HEATERS	2008	370,465	0	-
			<b>1,372,004</b>		<b>(391,953)</b>
370.00	COMMUNICATION EQUIPMENT	2009	19,932	0	-
376.00	MAINS	2009	744,117	(25)	(186,029)
378.00	MEASURING AND REGULATING STATION EQUIPMENT - GENERAL	2009	119,808	(10)	(11,981)
380.00	SERVICES	2009	128,861	(50)	(64,431)
381.00	METERS	2009	210,872	0	-
382.00	METER INSTALLATIONS	2009	107,604	(10)	(10,760)
383.00	HOUSE REGULATORS	2009	49,575	(5)	(2,479)
386.10	WATER HEATERS	2009	633,968	0	-
391.00	OFFICE FURNITURE AND EQUIPMENT	2009	796,414	0	-
394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	2009	53,974	0	-
396.00	POWER OPERATED EQUIPMENT	2009	7,175	10	717
397.00	COMMUNICATION EQUIPMENT	2009	100,144	0	-
			<b>2,972,443</b>		<b>(274,962)</b>



**VERMONT GAS SYSTEMS, INC.**  
**SIMULATED NET SALVAGE ANALYSIS BY ACCOUNT**  
**FOR THE YEARS 2004 THROUGH 2019**

ACCOUNT	DESCRIPTION	YEAR	RETIREMENT	NET SALVAGE	SIMULATED
			AMOUNT	PERCENT	NET SALVAGE
367.00	MAINS	2010	7,554	(20)	(1,511)
369.00	MEASURING AND REGULATING STATION EQUIPMENT	2010	70,282	(25)	(17,570)
376.00	MAINS	2010	102,349	(25)	(25,587)
380.00	SERVICES	2010	53,765	(50)	(26,882)
381.00	METERS	2010	197,355	0	-
382.00	METER INSTALLATIONS	2010	98,678	(10)	(9,868)
386.10	WATER HEATERS	2010	600,090	0	-
390.00	STRUCTURES AND IMPROVEMENTS	2010	63,572	0	-
391.00	OFFICE FURNITURE AND EQUIPMENT	2010	122,936	0	-
				1,316,581	(81,419)
311.00	LIQUEFIED PETROLEUM GAS EQUIPMENT	2011	377,081	(10)	(37,708)
376.00	MAINS	2011	64,600	(25)	(16,150)
380.00	SERVICES	2011	81,576	(50)	(40,788)
381.00	METERS	2011	117,308	0	-
382.00	METER INSTALLATIONS	2011	58,556	(10)	(5,856)
386.10	WATER HEATERS	2011	496,669	0	-
391.00	OFFICE FURNITURE AND EQUIPMENT	2011	1,749,813	0	-
					2,945,602

**VERMONT GAS SYSTEMS, INC.**  
**SIMULATED NET SALVAGE ANALYSIS BY ACCOUNT**  
**FOR THE YEARS 2004 THROUGH 2019**

ACCOUNT	DESCRIPTION	YEAR	RETIREMENT AMOUNT	SIMULATED NET SALVAGE	
				PERCENT	NET SALVAGE PERCENT NET SALVAGE
376.00	MAINS	2012	30,422	(25)	(7,606)
380.00	SERVICES	2012	57,575	(50)	(28,788)
381.00	METERS	2012	313,571	0	-
382.00	METER INSTALLATIONS	2012	160,098	(10)	(16,010)
385.00	INDUSTRIAL MEASURING AND REGULATING STATION EQUIPMENT	2012	12,162	(10)	(1,216)
386.10	WATER HEATERS	2012	497,176	0	-
391.00	OFFICE FURNITURE AND EQUIPMENT	2012	1,161,001	0	-
393.00	STORES EQUIPMENT	2012	14,670	0	-
394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	2012	461,775	0	-
396.00	POWER OPERATED EQUIPMENT	2012	29,851	10	2,985
397.00	COMMUNICATION EQUIPMENT	2012	116,507	0	-
398.00	MISCELLANEOUS EQUIPMENT	2012	10	0	-
			<b>2,854,819</b>		<b>(50,634)</b>
376.00	MAINS	2013	24,340	(25)	(6,085)
380.00	SERVICES	2013	58,958	(50)	(29,479)
381.00	METERS	2013	188,337	0	-
382.00	METER INSTALLATIONS	2013	105,693	(10)	(10,569)
386.10	WATER HEATERS	2013	497,458	0	-
391.00	OFFICE FURNITURE AND EQUIPMENT	2013	1,352,748	0	-
394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	2013	35,023	0	-
397.00	COMMUNICATION EQUIPMENT	2013	10,032	0	-
			<b>2,272,590</b>		<b>(46,133)</b>

**VERMONT GAS SYSTEMS, INC.**  
**SIMULATED NET SALVAGE ANALYSIS BY ACCOUNT**  
**FOR THE YEARS 2004 THROUGH 2019**

ACCOUNT	DESCRIPTION	YEAR	RETIREMENT AMOUNT	SIMULATED NET SALVAGE	
				PERCENT	NET SALVAGE PERCENT NET SALVAGE
367.00	MAINS	2014	12,385	(20)	(2,477)
376.00	MAINS	2014	15,178	(25)	(3,795)
380.00	SERVICES	2014	49,872	(50)	(24,936)
381.00	METERS	2014	131,655	0	-
381.50	METERS - ERTS	2014	139,760	0	-
382.00	METER INSTALLATIONS	2014	67,085	(10)	(6,708)
386.10	WATER HEATERS	2014	568,759	0	-
391.00	OFFICE FURNITURE AND EQUIPMENT	2014	639,596	0	-
394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	2014	82,183	0	-
397.00	COMMUNICATION EQUIPMENT	2014	6,100	0	-
			<b>1,712,572</b>		<b>(37,916)</b>
376.00	MAINS	2015	85,951	(25)	(21,488)
380.00	SERVICES	2015	14,854	(50)	(7,427)
381.00	METERS	2015	139,191	0	-
381.50	METERS - ERTS	2015	115,503	0	-
382.00	METER INSTALLATIONS	2015	76,066	(10)	(7,607)
386.10	WATER HEATERS	2015	411,210	0	-
386.20	CONVERSION BURNERS	2015	67,781	0	-
391.00	OFFICE FURNITURE AND EQUIPMENT	2015	334,450	0	-
393.00	STORES EQUIPMENT	2015	349	0	-
394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	2015	79,416	0	-
397.00	COMMUNICATION EQUIPMENT	2015	1,649	0	-
			<b>1,326,421</b>		<b>(36,521)</b>



**VERMONT GAS SYSTEMS, INC.**  
**SIMULATED NET SALVAGE ANALYSIS BY ACCOUNT**  
**FOR THE YEARS 2004 THROUGH 2019**

ACCOUNT	DESCRIPTION	YEAR	RETIREMENT AMOUNT	SIMULATED NET SALVAGE	
				PERCENT	NET SALVAGE PERCENT
369.00	MEASURING AND REGULATING STATION EQUIPMENT	2016	15,047	(25)	(3,762)
380.00	SERVICES	2016	170,477	(50)	(85,239)
381.00	METERS	2016	94,148	0	-
381.50	METERS - ERTS	2016	105,746	0	-
382.00	METER INSTALLATIONS	2016	57,170	(10)	(5,717)
386.10	WATER HEATERS	2016	630,622	0	-
386.20	CONVERSION BURNERS	2016	91,161	0	-
391.00	OFFICE FURNITURE AND EQUIPMENT	2016	536,155	0	-
			<b>1,700,526</b>		
				<b>(94,717)</b>	
					<b>(94,717)</b>
376.00	MAINS	2017	171,682	(25)	(42,921)
380.00	SERVICES	2017	254,271	(50)	(127,136)
381.00	METERS	2017	47,758	0	-
381.50	METERS - ERTS	2017	114,946	0	-
382.00	METER INSTALLATIONS	2017	12,383	(10)	(1,238)
385.00	INDUSTRIAL MEASURING AND REGULATING STATION EQUIPMENT	2017	169,697	(10)	(16,970)
386.10	WATER HEATERS	2017	431,110	0	-
386.20	CONVERSION BURNERS	2017	79,974	0	-
391.00	OFFICE FURNITURE AND EQUIPMENT	2017	162,975	0	-
			<b>1,444,796</b>		
				<b>(188,264)</b>	
					<b>(188,264)</b>



**Gannett Fleming**

VIII-7

Vermont Gas Systems, Inc.  
September 30, 2019

**VERMONT GAS SYSTEMS, INC.**  
**SIMULATED NET SALVAGE ANALYSIS BY ACCOUNT**  
**FOR THE YEARS 2004 THROUGH 2019**

ACCOUNT	DESCRIPTION	YEAR	RETIREMENT AMOUNT	SIMULATED NET SALVAGE	
				PERCENT	NET SALVAGE PERCENT NET SALVAGE
367.00	MAINS	2018	94,539	(20)	(18,908)
369.00	MEASURING AND REGULATING STATION EQUIPMENT	2018	3,108	(25)	(777)
376.00	MAINS	2018	59,871	(25)	(14,968)
380.00	SERVICES	2018	90,829	(50)	(45,414)
381.00	METERS	2018	121,055	0	-
381.50	METERS - ERTS	2018	94,582	0	-
382.00	METER INSTALLATIONS	2018	65,209	(10)	(6,521)
386.10	WATER HEATERS	2018	345,473	0	-
386.20	CONVERSION BURNERS	2018	74,262	0	-
394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	2018	92,977	0	-
					<b>(86,588)</b>
					<b>1,041,905</b>
376.00	MAINS	2019	48,552	(25)	(12,138)
380.00	SERVICES	2019	69,041	(50)	(34,520)
381.00	METERS	2019	92,408	0	-
381.50	METERS - ERTS	2019	100,172	0	-
382.00	METER INSTALLATIONS	2019	46,914	(10)	(4,691)
386.10	WATER HEATERS	2019	189,950	0	-
386.20	CONVERSION BURNERS	2019	59,950	0	-
					<b>(51,350)</b>
					<b>606,988</b>
	<b>TOTAL 2004 - 2019</b>				<b>24,447,799</b>
					<b>(1,623,099)</b>



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**PART IX. DETAILED DEPRECIATION  
CALCULATIONS**

VERMONT GAS SYSTEMS, INC.

ACCOUNT 305 STRUCTURES AND IMPROVEMENTS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 45-R4						
NET SALVAGE PERCENT.. 0						
1990	396,478.00	245,023	276,390	120,088	17.19	6,986
	396,478.00	245,023	276,390	120,088		6,986
					COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 17.2	1.76

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 311 LIQUEFIED PETROLEUM GAS EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST (1)	CALCULATED ACCRUED (2)	ALLOC. RESERVE (3)	BOOK (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 35-R2							
NET SALVAGE PERCENT.. -10							
1990	1,966,759.88	1,378,412	1,579,161	584,275	12.70	46,006	
1997	92,187.11	51,890	59,447	41,959	17.09	2,455	
2000	166,406.75	82,737	94,787	88,260	19.18	4,602	
2001	117,062.99	55,518	63,603	65,166	19.91	3,273	
2002	8,067.25	3,641	4,171	4,703	20.64	228	
2003	6,555.21	2,804	3,212	3,999	21.39	187	
2004	7,860.22	3,174	3,636	5,010	22.15	226	
2005	9,877.45	3,747	4,293	6,572	22.93	287	
2006	10,962.71	3,890	4,457	7,602	23.71	321	
2007	157,858.82	52,093	59,680	113,965	24.50	4,652	
2008	40,264.28	12,262	14,048	30,243	25.31	1,195	
2009	2,772.00	774	887	2,162	26.12	83	
2010	17,076.26	4,320	4,949	13,835	26.95	513	
2011	1,501.79	341	391	1,261	27.78	45	
2012	41,111.28	8,230	9,428	35,794	28.63	1,250	
2013	582.88	101	116	525	29.48	18	
2014	8,603.07	1,290	1,478	7,985	30.23	264	
2015	60,904.53	7,255	8,311	58,684	31.21	1,880	
2016	18,118.53	1,657	1,898	18,032	32.09	562	
2018	25,390.42	902	1,034	26,895	33.87	794	
2019	82,159.64	594	680	89,695	34.77	2,580	
	2,842,083.07	1,675,632	1,919,667	1,206,624		71,421	
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 16.9      2.51							

VERMONT GAS SYSTEMS, INC.

ACCOUNT 363.3 COMPRESSOR EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 35-R2.5						
NET SALVAGE PERCENT.. -5						
2013	18,661.95	3,247	6,195	13,401	29.20	459
	18,661.95	3,247	6,195	13,401		459
					COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 29.2	2.46

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 365.2 RIGHTS OF WAY

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 70-S4						
NET SALVAGE PERCENT.. 0						
1964	998.73	750	659	340	17.42	20
1972	279,712.73	185,489	163,106	116,607	23.58	4,945
1980	830.00	464	408	422	30.90	14
1992	37,391.78	14,556	12,800	24,592	42.75	575
1996	1,605.28	533	469	1,136	46.75	24
1998	8,500.00	2,580	2,269	6,231	48.75	128
2000	5,011.00	1,378	1,212	3,799	50.75	75
2002	42,720.35	10,528	9,258	33,462	52.75	634
2008	3,325.00	534	470	2,855	58.75	49
2009	9,902.16	1,450	1,275	8,627	59.75	144
2010	500.00	66	58	442	60.75	7
2011	35,412.66	4,174	3,670	31,743	61.75	514
2012	32,566.54	3,373	2,966	29,601	62.75	472
2013	124,899.83	11,152	9,806	115,094	63.75	1,805
2014	64,342.60	4,936	4,340	60,003	64.63	928
2015	19,041.93	1,156	1,017	18,025	65.75	274
2016	2,114,521.20	98,177	86,329	2,028,192	66.75	30,385
2017	11,108,450.70	357,026	313,942	10,794,509	67.75	159,329
	13,889,732.49	698,322	614,054	13,275,678		200,322
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT ..						66.3      1.44

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 366 STRUCTURES AND IMPROVEMENTS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 45-R3						
NET SALVAGE PERCENT.. 0						
2007	7,045.13	1,843	1,257	5,788	33.23	174
2011	123,332.09	21,953	14,975	108,357	36.99	2,929
2012	4,930.00	772	527	4,403	37.95	116
2015	135,307.22	12,508	8,532	126,775	40.84	3,104
2016	150,000.00	10,634	7,254	142,746	41.81	3,414
2017	327,070.07	16,062	10,957	316,113	42.79	7,388
	747,684.51	63,772	43,502	704,182		17,125
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 41.1 2.29						

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 367 MAINS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST (1)	CALCULATED ACCRUED (2)	ALLOC. RESERVE (3)	BOOK (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 70-S3							
NET SALVAGE PERCENT.. -20							
1964	13,162.72	11,102		12,378	3,417	20.80	164
1966	2,467,442.81	2,030,784	2,264,191		696,740	21.99	31,684
1971	320,937.54	246,368	274,684		110,441	25.22	4,379
1984	2,104.43	1,245		1,388	1,137	35.50	32
1986	6,319.30	3,542		3,949	3,634	37.30	97
1987	135.39	74		83	79	38.21	2
1989	126,801.56	65,060		72,538	79,624	40.07	1,987
1990	10,406.54	5,172		5,766	6,722	41.01	164
1992	32,531.33	15,102		16,838	22,200	42.92	517
1995	2,436,414.92	1,009,085	1,125,064		1,798,634	45.84	39,237
1996	10,799.90	4,292		4,785	8,175	46.82	175
1997	2,328,580.50	886,183	988,036		1,806,261	47.80	37,788
1998	110,651.49	40,233		44,857	87,925	48.79	1,802
1999	4,248,411.79	1,472,635	1,641,891		3,456,203	49.78	69,430
2000	81,092.00	26,732		29,804	67,506	50.77	1,330
2001	19,901.54	6,223		6,938	16,944	51.76	327
2002	3,265,411.27	965,086	1,076,008		2,842,486	52.76	53,876
2003	98,917.80	27,539		30,704	87,997	53.76	1,637
2004	4,033,630.88	1,054,520	1,175,721		3,664,636	54.75	66,934
2005	198,989.62	48,610		54,197	184,591	55.75	3,311
2006	97,853.08	22,227		24,782	92,642	56.75	1,632
2007	302,929.71	63,615		70,927	292,589	57.75	5,066
2008	289,479.53	55,827		62,243	285,132	58.75	4,853
2009	859,711.62	151,065		168,428	863,226	59.75	14,447
2010	15,017.09	2,381		2,655	15,366	60.75	253
2011	38,133.59	5,393		6,013	39,747	61.75	644
2012	910,424.58	113,151		126,156	966,353	62.75	15,400
2013	5,367,128.40	575,077	641,173		5,799,381	63.75	90,971
2014	9,975,674.85	918,281	1,023,823		10,946,987	64.63	169,379
2015	189,829.87	13,829		15,418	212,378	65.75	3,230
2016	50,037,943.71	2,787,914	3,108,341		56,937,191	66.75	852,992
2017	79,193,793.72	3,054,346	3,405,396		91,627,156	67.75	1,352,430
2019	25,020.07	107		119	29,905	69.75	429
	167,115,583.15	15,682,800	17,485,294		183,053,406		2,826,599
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 64.8 1.69							

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 369 MEASURING AND REGULATING STATION EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 55-R3						
NET SALVAGE PERCENT.. -25						
1964	15,767.32	15,774	18,111	1,598	10.98	146
1966	194,972.71	190,764	219,023	24,693	11.95	2,066
1978	2,219.61	1,811	2,079	696	19.11	36
1980	1,359.50	1,066	1,224	475	20.51	23
1981	293.23	225	258	109	21.22	5
1982	415.58	312	358	161	21.95	7
1983	25,666.19	18,847	21,639	10,444	22.69	460
1984	7,853.05	5,633	6,467	3,349	23.44	143
1985	16,844.81	11,791	13,538	7,518	24.20	311
1986	21,892.33	14,942	17,155	10,210	24.97	409
1987	9,505.92	6,319	7,255	4,627	25.75	180
1988	61,649.11	39,875	45,782	31,279	26.54	1,179
1989	89,887.38	56,507	64,878	47,481	27.34	1,737
1990	8,736.73	5,331	6,121	4,800	28.15	171
1991	51,056.47	30,204	34,678	29,143	28.97	1,006
1992	7,921.26	4,538	5,210	4,692	29.79	158
1994	19,346.52	10,342	11,874	12,309	31.48	391
1995	27,244.06	14,037	16,116	17,939	32.33	555
1996	53,478.90	26,509	30,436	36,413	33.19	1,097
1997	40,321.97	19,190	22,033	28,369	34.06	833
1998	4,999.81	2,279	2,617	3,633	34.94	104
1999	388,000.74	169,047	194,090	290,911	35.83	8,119
2000	477,195.15	198,251	227,620	368,874	36.72	10,046
2001	81,692.19	32,268	37,048	65,067	37.62	1,730
2002	550,412.45	206,026	236,547	451,469	38.53	11,717
2003	94,855.55	33,544	38,513	80,056	39.44	2,030
2004	721,371.95	240,018	275,574	626,141	40.36	15,514
2005	85,515.10	26,645	30,592	76,302	41.29	1,848
2006	12,510.62	3,634	4,172	11,466	42.22	272
2007	404,385.82	108,815	124,935	380,547	43.16	8,817
2008	253,348.13	62,761	72,058	244,627	44.10	5,547
2009	790,543.10	178,771	205,254	782,925	45.05	17,379
2010	30,935.35	6,320	7,256	31,413	46.01	683
2011	1,108,712.21	202,589	232,601	1,153,289	46.96	24,559
2012	61,750.93	9,923	11,393	65,796	47.93	1,373
2013	228,941.01	31,791	36,500	249,676	48.89	5,107
2014	199,035.52	23,795	27,320	221,474	49.74	4,453
2015	36,067.45	3,418	3,924	41,160	50.83	810

VERMONT GAS SYSTEMS, INC.

ACCOUNT 369 MEASURING AND REGULATING STATION EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST (1)	CALCULATED ACCRUED (2)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 55-R3						
NET SALVAGE PERCENT.. -25						
2016	1,710,003.70	123,975	142,341	1,995,164	51.81	38,509
2017	1,014,255.36	50,941	58,488	1,209,331	52.79	22,908
2019	949,866.00	5,402	6,202	1,181,131	54.75	21,573
	9,860,830.79	2,194,230	2,519,280	9,806,759		214,011
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 45.8      2.17						

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 370 COMMUNICATION EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 25-S4						
NET SALVAGE PERCENT.. 0						
1987	2,811.37	2,628	2,811			
1995	110,343.78	93,616	110,344			
2003	585.97	376	586			
2006	2,975.25	1,573	2,617	358	11.78	30
2007	15,384.64	7,532	12,529	2,856	12.76	224
2010	1,095.00	405	674	421	15.75	27
2011	114,618.98	37,824	62,920	51,699	16.75	3,087
2013	26,960.68	6,740	11,212	15,749	18.75	840
2017	33,462.25	3,012	5,010	28,452	22.75	1,251
2019	254,173.29	2,542	4,229	249,944	24.75	10,099
	562,411.21	156,248	212,932	349,479		15,558
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 22.5 2.77						

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 374.2 LAND RIGHTS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 75-R4						
NET SALVAGE PERCENT.. 0						
1968	5,032.55	3,246	395	4,638	26.63	174
1978	780.30	416	51	729	35.03	21
1982	503.00	244	30	473	38.63	12
1983	4,769.24	2,254	275	4,494	39.55	114
1987	403.26	171	21	382	43.27	9
1988	8,135.60	3,339	407	7,729	44.22	175
1994	2,655.50	886	108	2,548	49.98	51
1995	2,437.67	782	95	2,343	50.95	46
1996	976.81	301	37	940	51.92	18
1997	488.25	144	18	470	52.90	9
2001	5,500.00	1,332	162	5,338	56.84	94
2004	240.00	49	6	234	59.80	4
2005	9,246.24	1,751	213	9,033	60.80	149
2006	46,042.33	8,109	987	45,055	61.79	729
2007	2,041.30	333	41	2,000	62.78	32
2009	388.88	53	6	383	64.77	6
2010	49.25	6	1	48	65.77	1
2011	952.34	105	13	939	66.76	14
2013	687.60	57	7	681	68.76	10
2015	5,763.00	327	40	5,723	70.75	81
2017	62,502.17	1,875	227	62,275	72.75	856
2019	45,877.69	153	19	45,859	74.75	613
	205,472.98	25,933	3,159	202,314		3,218
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 62.9 1.57						

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 376.1 MAINS - STEEL

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST (1)	CALCULATED ACCRUED (2)	ALLOC. RESERVE (3)	BOOK	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 55-S2.5							
NET SALVAGE PERCENT.. -25							
1964	1,408,684.06	1,366,740	1,322,009	438,846	12.31	35,650	
1965	18,782.45	18,061	17,470	6,008	12.69	473	
1966	18,782.45	17,890	17,304	6,174	13.09	472	
1967	18,782.45	17,720	17,140	6,338	13.49	470	
1968	37,564.91	35,080	33,932	13,024	13.91	936	
1969	37,564.91	34,705	33,569	13,387	14.35	933	
1970	37,564.91	34,321	33,198	13,758	14.80	930	
1971	37,564.91	33,928	32,818	14,138	15.26	926	
1972	37,564.91	33,518	32,421	14,535	15.74	923	
1973	56,347.36	49,637	48,012	22,422	16.24	1,381	
1974	56,347.36	48,983	47,380	23,054	16.75	1,376	
1975	56,347.36	48,318	46,737	23,697	17.27	1,372	
1976	56,347.37	47,614	46,056	24,378	17.82	1,368	
1977	83,532.74	69,522	67,247	37,169	18.38	2,022	
1978	204,285.69	167,374	161,896	93,461	18.95	4,932	
1979	243,076.91	195,844	189,434	114,412	19.55	5,852	
1980	280,013.38	221,718	214,462	135,555	20.16	6,724	
1981	305,709.12	237,620	229,843	152,293	20.80	7,322	
1982	289,892.96	221,043	213,809	148,557	21.45	6,926	
1983	493,088.16	368,583	356,520	259,840	22.11	11,752	
1984	284,398.74	208,127	201,315	154,183	22.80	6,762	
1985	745,684.63	533,845	516,373	415,733	23.50	17,691	
1986	277,541.96	194,089	187,737	159,190	24.23	6,570	
1987	148,481.01	101,338	98,021	87,580	24.97	3,507	
1988	22,457.57	14,939	14,450	13,622	25.73	529	
1989	512,863.06	332,194	321,322	319,757	26.50	12,066	
1990	941,264.51	592,573	573,179	603,402	27.30	22,103	
1991	80,624.38	49,273	47,660	53,120	28.11	1,890	
1992	369,619.84	219,000	211,833	250,192	28.93	8,648	
1993	1,217.74	698	675	847	29.78	28	
1994	36,236.60	20,070	19,413	25,883	30.63	845	
1995	84,453.39	45,086	43,610	61,957	31.51	1,966	
1996	52,503.37	26,980	26,097	39,532	32.39	1,221	
1997	40,508.01	19,987	19,333	31,302	33.29	940	
1998	235,511.06	111,332	107,688	186,701	34.20	5,459	
1999	13,888.90	6,275	6,070	11,291	35.12	321	
2000	131,690.01	56,717	54,861	109,752	36.05	3,044	
2001	8,759.21	3,585	3,468	7,481	36.99	202	
2002	95,018.76	36,841	35,635	83,138	37.94	2,191	
2003	619,550.53	226,701	219,282	555,156	38.90	14,271	
2004	801,661.25	275,661	266,639	735,438	39.87	18,446	
2005	1,767,393.35	568,769	550,155	1,659,087	40.84	40,624	
2006	446,538.04	133,861	129,480	428,693	41.81	10,253	

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 376.1 MAINS - STEEL

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST (1)	CALCULATED ACCRUED (2)	ALLOC. RESERVE (3)	BOOK (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 55-S2.5							
NET SALVAGE PERCENT.. -25							
2007	676,530.56	187,585	181,446	664,217	42.80	15,519	
2008	4,287.36	1,093	1,057	4,302	43.78	98	
2009	64,365.17	14,965	14,475	65,981	44.77	1,474	
2010	15,390.75	3,232	3,126	16,112	45.76	352	
2011	61,613.54	11,539	11,161	65,856	46.76	1,408	
2012	83,674.09	13,787	13,336	91,257	47.75	1,911	
2013	19,886.65	2,825	2,733	22,125	48.75	454	
2014	10,892.42	1,329	1,286	12,330	49.63	248	
2015	34,609.39	3,343	3,233	40,029	50.75	789	
2016	46,128.64	3,407	3,296	54,365	51.75	1,051	
2017	127,804.88	6,536	6,322	153,434	52.75	2,909	
2018	1,630.52	46	44	1,994	53.75	37	
2019	127,539.49	725	702	158,723	54.75	2,899	
	12,770,063.75	7,296,572	7,057,770	8,904,810		301,466	
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT ..							29.5      2.36

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 376.2 MAINS - PLASTIC

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST (1)	CALCULATED ACCRUED (2)	ALLOC. RESERVE (3)	BOOK (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 55-S2.5							
NET SALVAGE PERCENT.. -25							
1983	774.57	579	618	350	22.11	16	
1985	29,921.45	21,421	22,863	14,539	23.50	619	
1986	878,911.37	614,634	656,016	442,623	24.23	18,268	
1987	618,995.19	422,464	450,908	322,836	24.97	12,929	
1988	1,014,234.39	674,694	720,120	547,673	25.73	21,285	
1989	922,238.88	597,357	637,576	515,223	26.50	19,442	
1990	1,472,796.16	927,199	989,625	851,370	27.30	31,186	
1991	585,446.47	357,788	381,877	349,931	28.11	12,449	
1992	645,783.00	382,626	408,387	398,842	28.93	13,786	
1993	1,274,420.04	730,482	779,664	813,361	29.78	27,312	
1994	1,001,371.94	554,622	591,964	659,751	30.63	21,539	
1995	1,076,224.26	574,556	613,240	732,040	31.51	23,232	
1996	1,270,467.77	652,846	696,801	891,284	32.39	27,517	
1997	1,182,556.42	583,488	622,773	855,423	33.29	25,696	
1998	1,370,720.27	647,974	691,601	1,021,799	34.20	29,877	
1999	749,693.23	338,721	361,526	575,591	35.12	16,389	
2000	1,443,601.40	621,741	663,602	1,140,900	36.05	31,648	
2001	1,006,514.86	411,979	439,717	818,427	36.99	22,126	
2002	1,040,503.65	403,429	430,591	870,039	37.94	22,932	
2003	2,409,837.90	881,790	941,159	2,071,138	38.90	53,243	
2004	3,801,795.20	1,307,295	1,395,312	3,356,932	39.87	84,197	
2005	3,419,291.17	1,100,371	1,174,457	3,099,657	40.84	75,898	
2006	2,826,553.94	847,330	904,379	2,628,813	41.81	62,875	
2007	2,595,337.22	719,622	768,073	2,476,099	42.80	57,853	
2008	3,849,871.46	981,717	1,047,814	3,764,525	43.78	85,987	
2009	4,391,737.65	1,021,079	1,089,826	4,399,846	44.77	98,277	
2010	1,978,291.99	415,441	443,412	2,029,453	45.76	44,350	
2011	1,364,094.70	255,461	272,661	1,432,457	46.76	30,634	
2012	3,039,773.16	500,879	534,602	3,265,114	47.75	68,379	
2013	4,578,387.75	650,360	694,147	5,028,838	48.75	103,156	
2014	2,315,066.27	282,554	301,578	2,592,255	49.63	52,232	
2015	3,977,101.94	384,138	410,001	4,561,376	50.75	89,879	
2016	2,229,309.56	164,662	175,748	2,610,889	51.75	50,452	
2017	11,584,078.78	592,381	632,265	13,847,833	52.75	262,518	
2018	4,456,640.09	126,624	135,149	5,435,651	53.75	101,128	
2019	4,339,232.69	24,679	26,341	5,397,700	54.75	98,588	
	80,741,576.79	19,774,983	21,106,393	79,820,578		1,797,894	

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 44.4 2.23

## VERMONT GAS SYSTEMS, INC.

ACCOUNT 378 MEASURING AND REGULATING STATION EQUIPMENT - GENERAL

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 25-L2.5						
NET SALVAGE PERCENT.. -10						
1966	3,871.00	3,728	3,776	482	3.11	155
1967	1,934.00	1,850	1,874	253	3.26	78
1968	6,272.00	5,961	6,037	862	3.40	254
1969	1,937.00	1,829	1,852	279	3.54	79
1973	8,227.46	7,548	7,644	1,406	4.15	339
1979	111.43	97	98	25	5.27	5
1986	25,635.33	20,439	20,700	7,499	6.88	1,090
1993	2,403.65	1,757	1,779	865	8.39	103
1994	4,288.88	3,099	3,139	1,579	8.58	184
1996	4,274.50	3,017	3,055	1,647	8.96	184
2000	12,785.00	8,427	8,535	5,528	10.02	552
2007	2,390.57	1,172	1,187	1,443	13.86	104
2011	34,796.91	12,065	12,218	26,059	17.12	1,522
2012	276.25	85	87	217	18.01	12
	109,203.98	71,074	71,981	48,144		4,661
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 10.3      4.27						

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 380.1 SERVICES - STEEL

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. RESERVE	BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIVOR CURVE.. IOWA 43-R4						
NET SALVAGE PERCENT.. -50						
1964	169,618.31	240,701	192,052	62,375	2.32	26,886
1965	2,261.58	3,189	2,544	848	2.58	329
1966	2,261.58	3,168	2,528	864	2.85	303
1967	2,261.58	3,146	2,510	882	3.12	283
1968	4,523.15	6,250	4,987	1,798	3.39	530
1969	4,523.15	6,204	4,950	1,835	3.68	499
1970	4,523.15	6,158	4,913	1,872	3.97	472
1971	4,523.15	6,109	4,874	1,911	4.28	446
1972	4,523.15	6,057	4,833	1,952	4.61	423
1973	6,784.73	9,003	7,183	2,994	4.96	604
1974	6,784.73	8,916	7,114	3,063	5.33	575
1975	6,784.73	8,819	7,037	3,140	5.74	547
1976	6,784.75	8,714	6,953	3,224	6.18	522
1977	22,049.60	27,959	22,308	10,766	6.65	1,619
1978	44,275.62	55,340	44,155	22,258	7.17	3,104
1979	174,562.50	214,835	171,413	90,431	7.72	11,714
1980	232,471.85	281,400	224,525	124,183	8.30	14,962
1981	229,356.02	272,668	217,557	126,477	8.92	14,179
1982	294,968.30	343,980	274,456	167,996	9.57	17,554
1983	238,203.70	272,217	217,198	140,108	10.24	13,682
1984	373,885.10	418,405	333,839	226,989	10.92	20,787
1985	373,434.19	408,782	326,161	233,990	11.62	20,137
1986	145,949.86	156,098	124,548	94,377	12.34	7,648
1987	61,212.14	63,910	50,993	40,825	13.07	3,124
1988	31,891.24	32,462	25,901	21,936	13.82	1,587
1989	66,504.87	65,910	52,588	47,169	14.59	3,233
1990	49,798.99	47,981	38,283	36,415	15.38	2,368
1991	30,355.38	28,400	22,660	22,873	16.18	1,414
1992	14,682.98	13,317	10,625	11,399	17.00	671
1993	7,251.21	6,364	5,078	5,799	17.84	325
1994	12,541.22	10,635	8,486	10,326	18.69	552
1995	3,095.26	2,531	2,019	2,624	19.56	134
1996	1,408.11	1,108	884	1,228	20.44	60
1997	5,188.59	3,920	3,128	4,655	21.34	218
1998	3,303.22	2,391	1,908	3,047	22.25	137
1999	3,707.19	2,564	2,046	3,515	23.17	152
2000	2,828.43	1,865	1,488	2,755	24.10	114
2001	3,696.47	2,316	1,848	3,697	25.04	148
2002	46,191.28	27,424	21,881	47,406	25.98	1,825
2003	60,113.22	33,678	26,871	63,299	26.94	2,350
2004	125,205.86	65,951	52,621	135,188	27.90	4,845
2005	59,479.22	29,317	23,392	65,827	28.87	2,280
2006	101,324.46	46,479	37,085	114,902	29.85	3,849

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 380.1 SERVICES - STEEL

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 43-R4						
NET SALVAGE PERCENT.. -50						
2007	7,392.06	3,138	2,504	8,584	30.83	278
2008	4,382.59	1,711	1,365	5,209	31.81	164
2009	5,934.42	2,112	1,685	7,217	32.80	220
2010	48,478.35	15,575	12,427	60,291	33.79	1,784
2011	29,666.72	8,507	6,788	37,712	34.78	1,084
2012	24,992.43	6,303	5,029	32,460	35.77	907
2013	23,364.98	5,086	4,058	30,989	36.76	843
2014	45,039.58	8,421	6,719	60,840	37.64	1,616
2015	52,763.40	7,804	6,226	72,919	38.76	1,881
2016	57,940.46	6,569	5,241	81,670	39.75	2,055
2017	31,507.20	2,473	1,973	45,288	40.75	1,111
2019	843.15	7	6	1,259	42.75	29
	3,377,399.16	3,324,347	2,652,444	2,413,655		199,163
					COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT ..	12.1      5.90

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 380.2 SERVICES - PLASTIC

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 43-R4						
NET SALVAGE PERCENT.. -50						
1980	255,526.50	309,307	286,025	97,265	8.30	11,719
1985	93,617.62	102,479	94,765	45,661	11.62	3,930
1986	6,172.03	6,601	6,104	3,154	12.34	256
1987	604,689.14	631,341	583,818	323,216	13.07	24,730
1988	777,733.95	791,655	732,065	434,536	13.82	31,443
1989	870,494.34	862,703	797,765	507,977	14.59	34,817
1990	897,708.60	864,938	799,832	546,731	15.38	35,548
1991	792,531.07	741,476	685,663	503,134	16.18	31,096
1992	714,064.64	647,639	598,889	472,208	17.00	27,777
1993	908,480.22	797,355	737,336	625,384	17.84	35,055
1994	948,650.92	804,480	743,925	679,051	18.69	36,332
1995	767,580.36	627,635	580,391	570,980	19.56	29,191
1996	1,057,188.04	831,981	769,356	816,426	20.44	39,943
1997	1,024,639.34	774,197	715,921	821,038	21.34	38,474
1998	948,464.27	686,536	634,859	787,837	22.25	35,408
1999	886,124.93	612,968	566,828	762,359	23.17	32,903
2000	1,214,663.00	800,821	740,541	1,081,454	24.10	44,874
2001	885,618.63	554,844	513,079	815,349	25.04	32,562
2002	752,664.78	446,868	413,231	715,766	25.98	27,551
2003	1,710,677.38	958,381	886,241	1,679,775	26.94	62,352
2004	1,913,800.40	1,008,075	932,194	1,938,507	27.90	69,481
2005	2,594,990.80	1,279,071	1,182,792	2,709,694	28.87	93,858
2006	1,546,903.67	709,588	656,175	1,664,181	29.85	55,751
2007	1,583,558.17	672,268	621,665	1,753,672	30.83	56,882
2008	3,033,398.72	1,184,072	1,094,944	3,455,154	31.81	108,618
2009	1,945,867.62	692,369	640,253	2,278,548	32.80	69,468
2010	1,871,145.71	601,171	555,919	2,250,800	33.79	66,611
2011	2,133,576.56	611,782	565,732	2,634,633	34.78	75,751
2012	2,085,454.44	525,972	486,381	2,641,801	35.77	73,855
2013	2,441,887.92	531,550	491,539	3,171,293	36.76	86,270
2014	2,318,563.16	433,513	400,881	3,076,964	37.64	81,747
2015	2,452,221.88	362,684	335,383	3,342,950	38.76	86,247
2016	1,898,524.07	215,236	199,035	2,648,751	39.75	66,635
2017	3,063,638.88	240,480	222,378	4,373,080	40.75	107,315
2018	3,256,877.46	142,016	131,326	4,753,990	41.75	113,868
2019	1,933,910.73	16,854	15,585	2,885,281	42.75	67,492
	52,191,609.95	22,080,906	20,418,816	57,868,598		1,895,810

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 30.5 3.63

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 381 METERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST (1)	CALCULATED ACCRUED (2)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 25-R4						
NET SALVAGE PERCENT.. 0						
1990	1,446,283.14	1,323,060	1,279,701	166,582	2.13	78,208
2001	234,959.06	160,054	154,809	80,150	7.97	10,056
2002	66,636.82	43,314	41,894	24,743	8.75	2,828
2003	125,040.74	77,275	74,743	50,298	9.55	5,267
2004	179,893.63	105,202	101,754	78,140	10.38	7,528
2005	214,552.41	118,090	114,220	100,332	11.24	8,926
2006	472,393.96	243,377	235,401	236,993	12.12	19,554
2007	727,860.87	348,500	337,079	390,782	13.03	29,991
2008	868,037.44	383,673	371,099	496,938	13.95	35,623
2009	519,873.01	210,029	203,146	316,727	14.90	21,257
2010	297,800.03	108,995	105,423	192,377	15.85	12,137
2011	558,256.94	182,662	176,676	381,581	16.82	22,686
2012	585,713.45	168,685	163,157	422,556	17.80	23,739
2013	602,944.27	150,013	145,097	457,847	18.78	24,379
2014	488,159.96	104,466	101,042	387,118	19.65	19,701
2015	1,047,375.52	177,635	171,813	875,563	20.76	42,175
2016	518,192.94	67,158	64,957	453,236	21.76	20,829
2017	404,312.54	36,388	35,196	369,117	22.75	16,225
2018	742,420.16	37,121	35,904	706,516	23.75	29,748
2019	632,403.51	6,324	6,117	626,287	24.75	25,305
	10,733,110.40	4,052,021	3,919,228	6,813,883		456,162
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT ..						14.9      4.25

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 381.5 METERS - ERTS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST (1)	CALCULATED ACCRUED (2)	ALLOC. RESERVE (3)	BOOK (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 15-S2.5							
NET SALVAGE PERCENT.. 0							
2001	5,870.56	4,951	5,115	756	2.35	322	
2002	11,582.26	9,552	9,867	1,715	2.63	652	
2003	288,324.93	231,813	239,469	48,856	2.94	16,618	
2004	937,913.62	732,201	756,382	181,532	3.29	55,177	
2005	17,589.17	13,274	13,712	3,877	3.68	1,054	
2006	97,083.77	70,418	72,744	24,340	4.12	5,908	
2007	218,331.12	151,231	156,225	62,106	4.61	13,472	
2008	184,034.12	120,603	124,586	59,448	5.17	11,499	
2009	271,826.08	166,901	172,413	99,413	5.79	17,170	
2010	80,390.91	45,662	47,170	33,221	6.48	5,127	
2011	303,570.02	157,249	162,442	141,128	7.23	19,520	
2012	615,039.67	285,378	294,803	320,237	8.04	39,830	
2013	279,622.62	113,339	117,082	162,541	8.92	18,222	
2014	317,534.10	111,772	115,463	202,071	9.72	20,789	
2015	115,228.94	32,417	33,488	81,741	10.78	7,583	
2016	217,831.08	47,052	48,606	169,225	11.76	14,390	
2017	159,590.11	23,939	24,730	134,860	12.75	10,577	
2018	221,063.49	18,421	19,029	202,034	13.75	14,693	
2019	471,115.53	7,853	8,112	463,003	14.75	31,390	
	4,813,542.10	2,344,026	2,421,438	2,392,104		303,993	
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.9      6.32							

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 382 METER INSTALLATIONS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. RESERVE	BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIVOR CURVE.. IOWA 28-S4						
NET SALVAGE PERCENT.. -10						
1979	5,465.37	5,752	6,012			
1980	9,249.16	9,684	10,160	14	1.35	10
1981	10,731.26	11,176	11,725	79	1.49	53
1982	10,221.86	10,585	11,105	139	1.64	85
1983	6,999.99	7,202	7,556	144	1.81	80
1985	5,069.72	5,142	5,395	182	2.18	83
1986	5,279.45	5,312	5,573	234	2.39	98
1988	22,364.26	22,070	23,154	1,447	2.88	502
1989	3,280.37	3,201	3,358	250	3.16	79
1990	89,071.83	85,801	90,017	7,962	3.48	2,288
1991	3,398.96	3,229	3,388	351	3.82	92
1993	101,806.00	93,429	98,020	13,967	4.64	3,010
1994	57,626.38	51,821	54,367	9,022	5.11	1,766
1995	70,557.77	61,980	65,025	12,589	5.64	2,232
1996	93,852.14	80,267	84,211	19,026	6.23	3,054
1997	86,902.06	72,138	75,683	19,909	6.87	2,898
1998	158,871.93	127,511	133,776	40,983	7.57	5,414
1999	216,669.80	167,517	175,748	62,589	8.32	7,523
2000	4,223.88	3,130	3,284	1,362	9.14	149
2001	181,827.81	128,579	134,897	65,114	10.00	6,511
2002	286,047.36	192,161	201,603	113,049	10.90	10,371
2003	83,225.24	52,869	55,467	36,081	11.83	3,050
2004	201,837.00	120,604	126,530	95,491	12.79	7,466
2005	258,905.89	144,736	151,848	132,948	13.77	9,655
2006	294,232.26	153,044	160,564	163,091	14.76	11,050
2007	669,301.70	322,101	337,928	398,304	15.75	25,289
2008	1,020,807.82	451,165	473,334	649,555	16.75	38,779
2009	857,474.54	345,285	362,251	580,971	17.75	32,731
2010	1,037,463.65	377,010	395,535	745,675	18.75	39,769
2011	597,421.73	193,627	203,141	454,023	19.75	22,989
2012	704,218.99	200,578	210,434	564,207	20.75	27,191
2013	706,940.81	173,576	182,105	595,530	21.75	27,381
2014	757,032.63	159,710	167,558	665,178	22.63	29,394
2015	681,949.25	113,864	119,459	630,685	23.75	26,555
2016	694,703.01	88,698	93,056	671,117	24.75	27,116
2017	595,314.00	52,623	55,209	599,636	25.75	23,287
2018	701,466.27	34,445	36,138	735,475	26.75	27,494
2019	442,646.64	4,348	4,561	482,350	27.75	17,382
	11,734,458.79	4,135,970	4,339,175	8,568,729		442,876

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 19.3 3.77

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 383 HOUSE REGULATORS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. RESERVE	BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIVOR CURVE.. IOWA 35-L4						
NET SALVAGE PERCENT.. -5						
1964	49,122.07	46,966	51,578			
1977	2,037.13	1,789	2,079	60	5.73	10
1978	4,079.41	3,558	4,134	149	5.93	25
1979	9,501.52	8,232	9,564	413	6.12	67
1980	17,166.24	14,790	17,183	842	6.28	134
1981	18,065.75	15,484	17,990	979	6.43	152
1982	6,528.73	5,570	6,471	384	6.56	59
1983	10,074.35	8,553	9,937	641	6.70	96
1984	13,513.65	11,412	13,259	930	6.85	136
1985	33,526.53	28,142	32,696	2,507	7.02	357
1986	16,721.06	13,925	16,179	1,378	7.24	190
1987	32,685.63	26,965	31,329	2,991	7.50	399
1988	33,577.73	27,369	31,798	3,459	7.83	442
1989	37,969.70	30,494	35,429	4,439	8.23	539
1990	35,116.99	27,697	32,179	4,694	8.71	539
1991	37,107.47	28,654	33,291	5,672	9.26	613
1993	12,846.40	9,423	10,948	2,541	10.55	241
1994	43,938.39	31,293	36,357	9,778	11.26	868
1995	22,903.52	15,797	18,353	5,696	12.01	474
1996	25,173.39	16,773	19,487	6,945	12.79	543
1997	42,446.03	27,250	31,660	12,908	13.60	949
1998	19,663.59	12,134	14,098	6,549	14.43	454
1999	24,890.11	14,732	17,116	9,019	15.27	591
2000	10,916.72	6,173	7,172	4,291	16.15	266
2001	27,180.58	14,645	17,015	11,525	17.04	676
2002	11,455.30	5,859	6,807	5,221	17.95	291
2003	23,656.40	11,440	13,291	11,548	18.88	612
2004	23,655.55	10,766	12,508	12,330	19.83	622
2005	26,751.66	11,396	13,240	14,849	20.80	714
2006	110,376.44	43,808	50,898	64,997	21.77	2,986
2007	130,366.32	47,870	55,617	81,268	22.76	3,571
2008	132,002.05	44,551	51,761	86,841	23.75	3,656
2009	87,534.68	26,917	31,273	60,638	24.75	2,450
2010	268,930.29	74,629	86,707	195,670	25.75	7,599
2011	181,496.82	44,920	52,190	138,382	26.75	5,173
2012	215,508.42	46,872	54,457	171,827	27.75	6,192
2013	151,365.40	28,381	32,974	125,960	28.75	4,381
2014	173,281.27	27,916	32,434	149,511	29.63	5,046
2015	113,105.28	14,421	16,755	102,006	30.75	3,317
2016	161,043.94	15,702	18,243	150,853	31.75	4,751

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 383 HOUSE REGULATORS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
 RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 35-L4						
NET SALVAGE PERCENT.. -5						
2017	102,847.58	6,943	8,067	99,923	32.75	3,051
2018	174,330.18	6,537	7,595	175,452	33.75	5,199
2019	175,129.20	1,313	1,525	182,361	34.75	5,248
	2,849,589.47	918,061	1,063,644	1,928,425		73,679
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 26.2      2.59						

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 385 INDUSTRIAL MEASURING AND REGULATING STATION EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 38-R2.5						
NET SALVAGE PERCENT.. -10						
1966	5,482.56	5,356	6,031			
1968	7,428.81	7,157	8,172			
1969	722.65	691	795			
1970	391.00	371	430			
1971	10,557.65	9,939	11,613			
1972	8,994.00	8,396	9,893			
1974	875.13	802	963			
1977	109.93	98	118	3	7.33	
1978	7,064.23	6,194	7,485	286	7.71	37
1979	3,318.95	2,872	3,471	180	8.11	22
1980	389.26	332	401	27	8.52	3
1983	4,583.52	3,726	4,503	539	9.92	54
1984	3,709.16	2,960	3,577	503	10.43	48
1985	4,139.19	3,240	3,915	638	10.96	58
1988	678.08	497	601	145	12.68	11
1989	2,664.00	1,905	2,302	628	13.30	47
1992	12,264.64	8,077	9,760	3,731	15.25	245
1993	5,442.96	3,477	4,202	1,785	15.93	112
1994	16,386.75	10,137	12,250	5,775	16.63	347
1995	2,216.16	1,325	1,601	837	17.34	48
1996	53,144.58	30,660	37,049	21,410	18.07	1,185
1997	1,016.31	565	683	435	18.81	23
1998	19,756.93	10,546	12,744	8,989	19.56	460
1999	6,878.72	3,518	4,251	3,316	20.33	163
2000	51,688.59	25,287	30,557	26,300	21.10	1,246
2001	9,118.95	4,253	5,139	4,892	21.89	223
2006	7,303.00	2,533	3,061	4,972	26.02	191
2009	28,363.67	7,710	9,317	21,883	28.61	765
2010	85,726.77	21,093	25,488	68,811	29.50	2,333
2013	132,210.75	22,235	26,869	118,563	32.19	3,683
2014	103,033.23	14,942	18,056	95,281	32.99	2,888
2015	14,314.05	1,645	1,988	13,757	34.03	404
2016	86,805.65	7,664	9,261	86,225	34.95	2,467
2017	85,051.23	5,220	6,307	87,249	35.88	2,432
2019	71,711.48	499	603	78,279	37.76	2,073
	853,542.54	235,922	283,456	655,441		21,568
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 30.4      2.53						

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 386.1 WATER HEATERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST (1)	CALCULATED ACCRUED (2)	ALLOC. RESERVE (3)	BOOK (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 15-S3							
NET SALVAGE PERCENT.. 0							
2000	238,446.73	211,581		238,447			
2001	29,326.98	25,534		29,327			
2002	381,875.76	325,614		381,876			
2003	124,510.38	103,593		124,510			
2004	1,112,162.42	899,372		1,112,162			
2005	1,252,417.91	979,391		1,252,418			
2006	1,637,734.10	1,231,576		1,618,743	18,991	3.72	5,105
2007	1,699,595.63	1,220,310		1,603,935	95,661	4.23	22,615
2008	1,339,594.54	910,027		1,196,109	143,486	4.81	29,831
2009	1,011,778.42	642,813		844,892	166,886	5.47	30,509
2010	1,305,347.69	765,808		1,006,553	298,795	6.20	48,193
2011	1,182,451.01	629,856		827,862	354,589	7.01	50,583
2012	1,177,172.87	558,769		734,428	442,745	7.88	56,186
2013	1,073,776.34	443,115		582,416	491,360	8.81	55,773
2014	1,238,876.92	441,870		580,779	658,098	9.65	68,197
2015	1,027,975.34	290,578		381,926	646,049	10.76	60,042
2016	1,151,394.81	249,473		327,899	823,496	11.75	70,085
2017	1,126,922.07	169,038		222,178	904,744	12.75	70,960
2018	1,171,794.22	97,646		128,343	1,043,451	13.75	75,887
2019	749,964.79	12,502		16,432	733,533	14.75	49,731
	20,033,118.93	10,208,466		13,211,235	6,821,884		693,697
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.8      3.46							

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 386.2 CONVERSION BURNERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST (1)	CALCULATED ACCRUED (2)	ALLOC. RESERVE (3)	BOOK (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 12-L4							
NET SALVAGE PERCENT.. 0							
2000	375,216.57	343,323		375,217			
2001	72,009.70	64,868		72,010			
2002	38,184.41	33,793		38,184			
2003	30,116.33	26,151		30,116			
2004	130,857.21	111,229		130,857			
2005	202,024.37	168,185		202,024			
2006	378,182.88	309,478		378,183			
2007	309,378.60	249,566		306,940	2,439	2.32	1,051
2008	841,262.86	664,598		817,385	23,878	2.52	9,475
2009	514,947.07	391,360		481,331	33,616	2.88	11,672
2010	257,819.82	183,697		225,928	31,892	3.45	9,244
2011	670,665.32	437,609		538,212	132,453	4.17	31,763
2012	657,946.01	384,898		473,383	184,563	4.98	37,061
2013	646,202.73	331,179		407,315	238,888	5.85	40,836
2014	636,641.52	283,305		348,435	288,207	6.66	43,274
2015	307,912.81	109,053		134,123	173,790	7.75	22,425
2016	151,160.33	40,939		50,351	100,809	8.75	11,521
2017	246,856.16	46,286		56,927	189,929	9.75	19,480
2018	233,153.00	24,288		29,871	203,282	10.75	18,910
2019	65,960.33	1,374		1,690	64,270	11.75	5,470
	6,766,498.03	4,205,179		5,098,482	1,668,016		262,182
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.4      3.87							

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 386.5 STEAM HEATERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
 RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST (1)	CALCULATED ACCRUED (2)	ALLOC. RESERVE (3)	BOOK ACCRUALS (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 10-L3							
NET SALVAGE PERCENT.. 0							
2015	26,190.97	10,738	13,177	13,014	5.90	2,206	
2016	62,369.02	19,896	24,416	37,953	6.81	5,573	
2017	51,548.76	11,547	14,170	37,379	7.76	4,817	
2018	69,525.76	8,691	10,666	58,860	8.75	6,727	
2019	4,602.24	115	141	4,461	9.75	458	
	214,236.75	50,987	62,570	151,667		19,781	
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.7 9.23							

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 390 STRUCTURES AND IMPROVEMENTS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 50-R4						
NET SALVAGE PERCENT.. 0						
1987	1,355,833.29	832,482	1,059,643	296,190	19.30	15,347
1994	6,804.91	3,352	4,267	2,538	25.37	100
1995	11,336.10	5,376	6,843	4,493	26.29	171
1996	18,591.06	8,474	10,786	7,805	27.21	287
1997	33,985.68	14,859	18,914	15,072	28.14	536
1998	9,250.39	3,870	4,926	4,324	29.08	149
1999	1,417.20	566	720	697	30.03	23
2000	264,024.59	100,382	127,774	136,251	30.99	4,397
2001	17,913.18	6,467	8,232	9,681	31.95	303
2002	44,572.38	15,235	19,392	25,180	32.91	765
2003	27,374.81	8,820	11,227	16,148	33.89	476
2004	39,648.59	12,006	15,282	24,367	34.86	699
2005	45,474.76	12,878	16,392	29,083	35.84	811
2006	448,071.15	118,112	150,341	297,730	36.82	8,086
2007	320,463.01	78,129	99,448	221,015	37.81	5,845
2008	99,292.27	22,241	28,310	70,982	38.80	1,829
2009	75,868.53	15,492	19,719	56,150	39.79	1,411
2010	187,042.97	34,491	43,903	143,140	40.78	3,510
2011	31,160.22	5,129	6,529	24,631	41.77	590
2012	168,237.46	24,327	30,965	137,272	42.77	3,210
2013	112,093.29	13,989	17,806	94,287	43.76	2,155
2014	176,589.22	18,966	24,141	152,448	44.63	3,416
2015	618,496.80	52,449	66,761	551,736	45.76	12,057
2016	343,204.41	22,308	28,396	314,808	46.75	6,734
2017	153,543.50	6,909	8,794	144,750	47.75	3,031
2018	66,990.87	1,675	2,132	64,859	48.75	1,330
2019	183,991.60	920	1,171	182,820	49.75	3,675
	4,861,272.24	1,439,904	1,832,814	3,028,458		80,943
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 37.4 1.67						

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 391 OFFICE FURNITURE AND EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
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## FULLY ACCRUED

1987	7,758.40	7,758	7,758
1990	69,394.57	69,395	69,395
1991	8,199.28	8,199	8,199
1992	4,125.28	4,125	4,125
1993	1,516.05	1,516	1,516
1994	1,981.87	1,982	1,982
1995	112,595.90	112,596	112,596
1996	20,966.12	20,966	20,966
1997	91,321.82	91,322	91,322
1998	713.19	713	713
1999	52,128.25	52,128	52,128
	370,700.73	370,700	370,701

## AMORTIZED

SURVIVOR CURVE.. 20-SQUARE

NET SALVAGE PERCENT.. 0

2000	37,901.17	36,480	36,075	1,826	0.75	1,826
2002	4,007.95	3,457	3,419	589	2.75	214
2006	39.95	26	26	14	6.75	2
2010	376.30	174	172	204	10.75	19
2012	788.51	286	283	506	12.75	40
2013	58,044.26	18,139	17,938	40,107	13.75	2,917
2014	73,961.90	19,896	19,675	54,287	14.62	3,713
2015	194,640.45	41,361	40,902	153,739	15.75	9,761
2016	147,961.52	24,044	23,777	124,184	16.75	7,414
2017	30,427.77	3,423	3,385	27,043	17.75	1,524
2018	7,970.24	498	492	7,478	18.75	399
2019	8,610.68	108	107	8,504	19.75	431
	564,730.70	147,892	146,250	418,481		28,260
	935,431.43	518,592	516,951	418,481		28,260

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 14.8 3.02

## VERMONT GAS SYSTEMS, INC.

ACCOUNT 391.1 COMPUTER HARDWARE - MID RANGE

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
<b>FULLY ACCRUED</b>						
2010	483.03	483	483			
2011	9,065.27	9,065	9,065			
2012	7,114.58	7,115	7,115			
2014	88,459.97	88,460	88,460			
	<b>105,122.85</b>	<b>105,123</b>	<b>105,123</b>			
<b>AMORTIZED</b>						
SURVIVOR CURVE.. 5-SQUARE						
NET SALVAGE PERCENT.. 0						
2015	140,774.96	119,659	112,897	27,878	0.75	27,878
2016	10,521.42	6,839	6,453	4,069	1.75	2,325
2017	5,396.36	2,428	2,291	3,106	2.75	1,129
	<b>156,692.74</b>	<b>128,926</b>	<b>121,640</b>	<b>35,053</b>		<b>31,332</b>
	<b>261,815.59</b>	<b>234,049</b>	<b>226,763</b>	<b>35,053</b>		<b>31,332</b>
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 1.1    11.97						

## VERMONT GAS SYSTEMS, INC.

ACCOUNT 391.2 COMPUTER SOFTWARE - MID RANGE

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
<b>FULLY ACCRUED</b>						
2011	271,910.08	271,910	271,910			
2012	208,876.67	208,877	208,877			
2013	420,924.87	420,925	420,925			
2014	129,336.48	129,336	129,336			
	1,031,048.10	1,031,048	1,031,048			
<b>AMORTIZED</b>						
SURVIVOR CURVE.. 5-SQUARE						
NET SALVAGE PERCENT.. 0						
2015	144,836.35	123,111	118,532	26,305	0.75	26,305
2016	86,673.37	56,338	54,242	32,431	1.75	18,532
2017	238,115.31	107,152	103,166	134,949	2.75	49,072
	469,625.03	286,601	275,940	193,685		93,909
	1,500,673.13	1,317,649	1,306,988	193,685		93,909
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 2.1      6.26						

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 391.3 NETWORK

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
 RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST (1)	CALCULATED ACCRUED (2)	ALLOC. RESERVE (3)	BOOK ACCRUALS (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. 7-SQUARE							
NET SALVAGE PERCENT.. 0							
2013	37,813.26	33,762	33,002	4,811	0.75	4,811	
2014	18,781.10	14,435	14,110	4,671	1.62	2,883	
2015	66,197.24	40,191	39,287	26,910	2.75	9,785	
2016	21,328.54	9,903	9,681	11,648	3.75	3,106	
2018	8,365.22	1,494	1,460	6,905	5.75	1,201	
	152,485.36	99,785	97,540	54,945		21,786	
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT ..							14.29

VERMONT GAS SYSTEMS, INC.

ACCOUNT 391.4 TELEPHONE EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
<b>FULLY ACCRUED</b>						
2011	2,987.21	2,987		2,987		
2012	1,574.09	1,574		1,574		
	<b>4,561.30</b>	<b>4,561</b>		<b>4,561</b>		
<b>AMORTIZED</b>						
SURVIVOR CURVE.. 7-SQUARE						
NET SALVAGE PERCENT.. 0						
2013	95,154.74	84,960	82,878	12,277	0.75	12,277
2014	107,031.00	82,261	80,245	26,786	1.62	16,535
2015	13,301.49	8,076	7,878	5,423	2.75	1,972
2016	1,183.33	549	536	648	3.75	173
2017	1,413.23	454	443	970	4.75	204
	<b>218,083.79</b>	<b>176,300</b>	<b>171,980</b>	<b>46,104</b>		<b>31,161</b>
	<b>222,645.09</b>	<b>180,861</b>	<b>176,541</b>	<b>46,104</b>		<b>31,161</b>
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 1.5      14.00						

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 391.6 COMPUTER SOFTWARE - DESKTOP

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
<b>FULLY ACCRUED</b>						
2012	24,380.94	24,381	24,381			
2013	41,933.30	41,933	41,933			
2014	91,213.58	91,214	91,214			
	157,527.82	157,528	157,528			
<b>AMORTIZED</b>						
SURVIVOR CURVE.. 5-SQUARE						
NET SALVAGE PERCENT.. 0						
2015	117,693.92	100,040	95,834	21,860	0.75	21,860
2016	69,618.45	45,252	43,350	26,269	1.75	15,011
2017	48,903.47	22,007	21,082	27,822	2.75	10,117
2018	76,392.68	19,098	18,295	58,098	3.75	15,493
2019	56,143.63	2,807	2,689	53,455	4.75	11,254
	368,752.15	189,204	181,250	187,502		73,735
	526,279.97	346,732	338,778	187,502		73,735
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 2.5      14.01						

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 391.7 COMPUTER HARDWARE - DESKTOP

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
<b>FULLY ACCRUED</b>						
2010	10,470.34	10,470	10,470			
2011	119,142.53	119,143	119,143			
2012	96,605.86	96,606	96,606			
2013	119,405.27	119,405	119,405			
2014	186,418.56	186,419	186,419			
	532,042.56	532,043	532,043			
<b>AMORTIZED</b>						
SURVIVOR CURVE.. 5-SQUARE						
NET SALVAGE PERCENT.. 0						
2015	188,261.12	160,022	153,998	34,263	0.75	34,263
2016	59,209.41	38,486	37,037	22,172	1.75	12,670
2017	313,379.28	141,021	135,713	177,667	2.75	64,606
2018	210,451.58	52,613	50,632	159,819	3.75	42,618
2019	334,993.04	16,750	16,119	318,874	4.75	67,131
	1,106,294.43	408,892	393,500	712,794		221,288
	1,638,336.99	940,935	925,543	712,794		221,288
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 3.2    13.51						

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 393 STORES EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
<b>FULLY ACCRUED</b>						
1987	6,807.03	6,807	6,807			
1989	4,040.99	4,041	4,041			
1990	161.50	162	162			
1993	10,442.08	10,442	10,442			
1994	8,866.35	8,866	8,866			
	30,317.95	30,318	30,318			
<b>AMORTIZED</b>						
SURVIVOR CURVE.. 25-SQUARE						
NET SALVAGE PERCENT.. 0						
2004	15,370.00	9,376	9,370	6,000	9.75	615
	15,370.00	9,376	9,370	6,000		615
	45,687.95	39,694	39,688	6,000		615
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.8    1.35						

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 394 TOOLS, SHOP AND GARAGE EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST (1)	CALCULATED ACCRUED (2)	ALLOC. RESERVE (3)	BOOK (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. 20-SQUARE							
NET SALVAGE PERCENT.. 0							
2006	3,111.28	2,061	2,057	1,054	6.75	156	
2007	80,709.98	49,435	49,341	31,369	7.75	4,048	
2008	69,501.87	39,095	39,021	30,481	8.75	3,484	
2009	54,169.31	27,762	27,709	26,460	9.75	2,714	
2010	47,765.89	22,092	22,050	25,716	10.75	2,392	
2011	71,675.08	29,566	29,510	42,165	11.75	3,589	
2012	65,438.21	23,721	23,676	41,762	12.75	3,275	
2013	83,158.80	25,987	25,937	57,222	13.75	4,162	
2014	151,917.54	40,866	40,788	111,130	14.62	7,601	
2015	229,367.49	48,741	48,648	180,719	15.75	11,474	
2016	246,201.48	40,008	39,932	206,269	16.75	12,315	
2017	130,419.71	14,672	14,644	115,776	17.75	6,523	
2018	233,809.87	14,613	14,585	219,225	18.75	11,692	
2019	168,506.02	2,106	2,102	166,404	19.75	8,426	
	1,635,752.53	380,725	380,000	1,255,753		81,851	
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 15.3    5.00							

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 396 POWER OPERATED EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR	ORIGINAL COST (1)	CALCULATED ACCRUED (2)	ALLOC. RESERVE (3)	BOOK (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. IOWA 20-R5							
NET SALVAGE PERCENT.. +10							
2001	2,200.30	1,692	1,980				
2007	3,398.09	1,864	2,314	744	7.81	95	
2008	11,653.88	5,889	7,309	3,179	8.77	362	
2009	13,980.09	6,442	7,996	4,586	9.76	470	
2010	16,119.62	6,710	8,328	6,180	10.75	575	
2011	10,858.34	4,031	5,003	4,770	11.75	406	
2014	1,200.00	291	361	719	14.62	49	
2015	10,697.08	2,046	2,539	7,088	15.75	450	
2016	68,800.00	10,062	12,489	49,431	16.75	2,951	
2017	36,817.35	3,728	4,627	28,509	17.75	1,606	
2018	55,070.32	3,098	3,846	45,717	18.75	2,438	
2019	42,093.49	474	588	37,296	19.75	1,888	
	272,888.56	46,327	57,380	188,220		11,290	
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 16.7      4.14							

## VERMONT GAS SYSTEMS, INC.

## ACCOUNT 397 COMMUNICATION EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR CURVE.. 15-SQUARE						
NET SALVAGE PERCENT.. 0						
2005	2,314.13	2,198	2,196	118	0.75	118
2006	4,090.85	3,614	3,611	480	1.75	274
2007	27,193.47	22,208	22,187	5,006	2.75	1,820
2008	2,636.25	1,977	1,975	661	3.75	176
2009	56,519.10	38,621	38,584	17,935	4.75	3,776
2010	139,658.00	86,123	86,040	53,618	5.75	9,325
2011	56,343.84	30,989	30,959	25,385	6.75	3,761
2012	55,538.45	26,843	26,818	28,720	7.75	3,706
2013	13,749.43	5,729	5,723	8,026	8.75	917
2014	1,633.63	586	585	1,049	9.62	109
2015	5,385.95	1,526	1,525	3,861	10.75	359
2016	368.97	80	80	289	11.75	25
2017	36,484.35	5,473	5,468	31,016	12.75	2,433
2019	2,956.93	49	49	2,908	14.75	197
	404,873.35	226,016	225,800	179,073		26,996
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.6    6.67						

VERMONT GAS SYSTEMS, INC.

ACCOUNT 398 MISCELLANEOUS EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL  
RELATED TO ORIGINAL COST AS OF SEPTEMBER 30, 2019

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. RESERVE (4)	BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
FULLY ACCRUED						
1987	13,009.36	13,009	13,009			
	13,009.36	13,009	13,009			
						COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.0 0.00