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| KETTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. SQUARE | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2038 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1983 | 138,174.50 |  | 95,850 |  | 125,750 |  | 12,424 |  | 17.00 |  | 731 |  |
|  | | | | | | | | | | | | |
|  | 138,174.50 |  | 95,850 |  | 125,750 |  | 12,424 |  |  | | 731 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 17.0 0.53 | | | | | | | | | | | |

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| KETTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. SQUARE | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2038 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1983 | 10,000.00 |  | 6,937 |  | 3,259 |  | 6,741 |  | 17.00 |  | 397 |  |
| 2020 | 279,111.15 |  | 22,630 |  | 10,632 |  | 268,479 |  | 17.00 |  | 15,793 |  |
|  | | | | | | | | | | | | |
|  | 289,111.15 |  | 29,567 |  | 13,891 |  | 275,220 |  |  | | 16,190 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 17.0 5.60 | | | | | | | | | | | |

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| KETTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 75-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2038 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -5 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1983 | 19,438,723.86 |  | 14,244,191 |  | 18,190,493 |  | 2,220,167 |  | 15.68 |  | 141,592 |  |
| 1984 | 45,988.97 |  | 33,426 |  | 42,687 |  | 5,602 |  | 15.74 |  | 356 |  |
| 1985 | 579,051.87 |  | 417,407 |  | 533,048 |  | 74,956 |  | 15.79 |  | 4,747 |  |
| 1986 | 82,675.22 |  | 59,057 |  | 75,419 |  | 11,390 |  | 15.85 |  | 719 |  |
| 1987 | 18,470.17 |  | 13,073 |  | 16,695 |  | 2,699 |  | 15.90 |  | 170 |  |
| 1989 | 130,640.34 |  | 90,643 |  | 115,755 |  | 21,417 |  | 16.00 |  | 1,339 |  |
| 1992 | 37,117.47 |  | 24,883 |  | 31,777 |  | 7,197 |  | 16.15 |  | 446 |  |
| 1994 | 1,751.62 |  | 1,144 |  | 1,461 |  | 378 |  | 16.24 |  | 23 |  |
| 2001 | 9,987.39 |  | 5,766 |  | 7,363 |  | 3,123 |  | 16.52 |  | 189 |  |
| 2002 | 54,559.78 |  | 30,789 |  | 39,319 |  | 17,969 |  | 16.55 |  | 1,086 |  |
| 2003 | 747.01 |  | 411 |  | 525 |  | 259 |  | 16.58 |  | 16 |  |
| 2005 | 1,920.62 |  | 999 |  | 1,276 |  | 741 |  | 16.65 |  | 45 |  |
| 2007 | 40,820.57 |  | 19,846 |  | 25,344 |  | 17,517 |  | 16.70 |  | 1,049 |  |
| 2008 | 373,413.39 |  | 174,446 |  | 222,776 |  | 169,308 |  | 16.73 |  | 10,120 |  |
| 2009 | 21,777.27 |  | 9,737 |  | 12,435 |  | 10,432 |  | 16.76 |  | 622 |  |
| 2010 | 236,067.08 |  | 100,536 |  | 128,389 |  | 119,481 |  | 16.78 |  | 7,120 |  |
| 2012 | 104,084.80 |  | 39,367 |  | 50,273 |  | 59,016 |  | 16.82 |  | 3,509 |  |
| 2014 | 170,984.38 |  | 55,225 |  | 70,525 |  | 109,009 |  | 16.86 |  | 6,466 |  |
| 2015 | 2,597,860.62 |  | 757,524 |  | 967,393 |  | 1,760,360 |  | 16.88 |  | 104,287 |  |
| 2016 | 487,892.48 |  | 125,613 |  | 160,414 |  | 351,873 |  | 16.90 |  | 20,821 |  |
| 2017 | 263,027.18 |  | 58,047 |  | 74,129 |  | 202,050 |  | 16.91 |  | 11,949 |  |
| 2018 | 244,530.79 |  | 43,882 |  | 56,039 |  | 200,718 |  | 16.93 |  | 11,856 |  |
| 2019 | 45,351.03 |  | 6,124 |  | 7,821 |  | 39,798 |  | 16.94 |  | 2,349 |  |
| 2020 | 84,377.21 |  | 7,203 |  | 9,199 |  | 79,398 |  | 16.95 |  | 4,684 |  |
| 2021 | 216,451.07 |  | 6,509 |  | 8,312 |  | 218,961 |  | 16.96 |  | 12,910 |  |
|  | | | | | | | | | | | | |
|  | 25,288,272.19 |  | 16,325,848 |  | 20,848,866 |  | 5,703,820 |  |  | | 348,470 |  |

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| COLSTRIP 3 AND COMMON - IDAHO | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 75-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2027 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1984 | 16,491,756.21 |  | 14,620,968 |  | 15,096,613 |  | 1,889,895 |  | 5.86 |  | 322,508 |  |
| 1985 | 137,682.86 |  | 121,608 |  | 125,564 |  | 16,249 |  | 5.87 |  | 2,768 |  |
| 1987 | 240,876.56 |  | 211,096 |  | 217,963 |  | 30,140 |  | 5.88 |  | 5,126 |  |
| 1988 | 967.63 |  | 844 |  | 871 |  | 125 |  | 5.89 |  | 21 |  |
| 1989 | 183,788.73 |  | 159,614 |  | 164,807 |  | 24,496 |  | 5.90 |  | 4,152 |  |
| 1990 | 14,886.04 |  | 12,868 |  | 13,287 |  | 2,046 |  | 5.90 |  | 347 |  |
| 1991 | 37,591.79 |  | 32,324 |  | 33,376 |  | 5,344 |  | 5.91 |  | 904 |  |
| 1992 | 14,811.06 |  | 12,669 |  | 13,081 |  | 2,174 |  | 5.91 |  | 368 |  |
| 1993 | 20,578.84 |  | 17,497 |  | 18,066 |  | 3,130 |  | 5.92 |  | 529 |  |
| 1994 | 7,781.77 |  | 6,577 |  | 6,791 |  | 1,224 |  | 5.92 |  | 207 |  |
| 1998 | 18,751.35 |  | 15,384 |  | 15,884 |  | 3,429 |  | 5.94 |  | 577 |  |
| 1999 | 4,489.67 |  | 3,650 |  | 3,769 |  | 856 |  | 5.95 |  | 144 |  |
| 2000 | 4,349.61 |  | 3,502 |  | 3,616 |  | 864 |  | 5.95 |  | 145 |  |
| 2001 | 44,043.35 |  | 35,080 |  | 36,221 |  | 9,143 |  | 5.96 |  | 1,534 |  |
| 2002 | 40,910.53 |  | 32,219 |  | 33,267 |  | 8,871 |  | 5.96 |  | 1,488 |  |
| 2004 | 50,376.21 |  | 38,632 |  | 39,889 |  | 11,999 |  | 5.97 |  | 2,010 |  |
| 2005 | 4,831.25 |  | 3,649 |  | 3,768 |  | 1,208 |  | 5.97 |  | 202 |  |
| 2006 | 73.11 |  | 54 |  | 56 |  | 20 |  | 5.97 |  | 3 |  |
| 2007 | 5.20 |  | 4 |  | 4 |  | 1 |  | 5.98 |  |  |  |
| 2008 | 15,589.04 |  | 11,118 |  | 11,480 |  | 4,577 |  | 5.98 |  | 765 |  |
| 2009 | 14,065.83 |  | 9,792 |  | 10,111 |  | 4,377 |  | 5.98 |  | 732 |  |
| 2010 | 17,332.63 |  | 11,738 |  | 12,120 |  | 5,733 |  | 5.98 |  | 959 |  |
| 2011 | 103,196.76 |  | 67,635 |  | 69,835 |  | 36,457 |  | 5.99 |  | 6,086 |  |
| 2012 | 41,913.55 |  | 26,455 |  | 27,316 |  | 15,855 |  | 5.99 |  | 2,647 |  |
| 2017 | 2,186,046.33 |  | 963,764 |  | 995,117 |  | 1,256,511 |  | 6.00 |  | 209,418 |  |
| 2018 | 83,607.41 |  | 31,727 |  | 32,759 |  | 53,356 |  | 6.00 |  | 8,893 |  |
| 2019 | 41,099.75 |  | 12,451 |  | 12,856 |  | 29,477 |  | 6.00 |  | 4,913 |  |
| 2020 | 57,222.52 |  | 11,788 |  | 12,171 |  | 46,768 |  | 6.00 |  | 7,795 |  |
| 2021 | 274,110.49 |  | 21,717 |  | 22,423 |  | 259,910 |  | 6.00 |  | 43,318 |  |
|  | | | | | | | | | | | | |
|  | 20,152,736.08 |  | 16,496,424 |  | 17,033,081 |  | 3,724,237 |  |  | | 628,559 |  |

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| COLSTRIP 3 AND COMMON - WASHINGTON | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 75-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2025 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1900 | 25,184.57 |  | 24,810 |  | 25,080 |  | 860 |  | 3.26 |  | 264 |  |
| 1984 | 31,103,499.80 |  | 28,905,988 |  | 29,220,396 |  | 2,816,209 |  | 3.94 |  | 714,774 |  |
| 1985 | 259,670.28 |  | 240,728 |  | 243,346 |  | 24,114 |  | 3.94 |  | 6,120 |  |
| 1987 | 454,293.89 |  | 418,791 |  | 423,346 |  | 44,577 |  | 3.95 |  | 11,285 |  |
| 1988 | 1,824.96 |  | 1,677 |  | 1,695 |  | 184 |  | 3.95 |  | 47 |  |
| 1989 | 346,626.07 |  | 317,509 |  | 320,963 |  | 36,062 |  | 3.96 |  | 9,107 |  |
| 1990 | 28,075.11 |  | 25,632 |  | 25,911 |  | 3,007 |  | 3.96 |  | 759 |  |
| 1991 | 70,898.22 |  | 64,499 |  | 65,201 |  | 7,825 |  | 3.96 |  | 1,976 |  |
| 1992 | 27,933.71 |  | 25,318 |  | 25,593 |  | 3,178 |  | 3.96 |  | 803 |  |
| 1993 | 38,811.74 |  | 35,023 |  | 35,404 |  | 4,572 |  | 3.97 |  | 1,152 |  |
| 1994 | 14,676.44 |  | 13,187 |  | 13,330 |  | 1,786 |  | 3.97 |  | 450 |  |
| 1998 | 35,365.10 |  | 31,108 |  | 31,446 |  | 4,980 |  | 3.98 |  | 1,251 |  |
| 1999 | 8,467.53 |  | 7,401 |  | 7,482 |  | 1,240 |  | 3.98 |  | 312 |  |
| 2000 | 8,203.39 |  | 7,121 |  | 7,198 |  | 1,251 |  | 3.98 |  | 314 |  |
| 2001 | 83,065.89 |  | 71,573 |  | 72,351 |  | 13,206 |  | 3.98 |  | 3,318 |  |
| 2002 | 77,157.37 |  | 65,938 |  | 66,655 |  | 12,817 |  | 3.98 |  | 3,220 |  |
| 2004 | 95,009.68 |  | 79,623 |  | 80,489 |  | 17,371 |  | 3.99 |  | 4,354 |  |
| 2005 | 9,111.75 |  | 7,551 |  | 7,633 |  | 1,752 |  | 3.99 |  | 439 |  |
| 2006 | 137.89 |  | 113 |  | 114 |  | 28 |  | 3.99 |  | 7 |  |
| 2007 | 9.80 |  | 8 |  | 8 |  | 2 |  | 3.99 |  | 1 |  |
| 2008 | 29,400.96 |  | 23,363 |  | 23,617 |  | 6,666 |  | 3.99 |  | 1,671 |  |
| 2009 | 26,528.17 |  | 20,704 |  | 20,929 |  | 6,395 |  | 3.99 |  | 1,603 |  |
| 2010 | 32,689.37 |  | 24,986 |  | 25,258 |  | 8,412 |  | 3.99 |  | 2,108 |  |
| 2011 | 194,629.30 |  | 145,229 |  | 146,809 |  | 53,660 |  | 3.99 |  | 13,449 |  |
| 2012 | 53,864.48 |  | 39,017 |  | 39,441 |  | 16,039 |  | 4.00 |  | 4,010 |  |
| 2017 | 4,122,889.67 |  | 2,248,180 |  | 2,272,633 |  | 1,973,943 |  | 4.00 |  | 493,486 |  |
| 2018 | 144,795.04 |  | 69,599 |  | 70,356 |  | 78,783 |  | 4.00 |  | 19,696 |  |
| 2019 | 90,403.03 |  | 35,814 |  | 36,204 |  | 56,912 |  | 4.00 |  | 14,228 |  |
| 2020 | 108,112.75 |  | 30,370 |  | 30,700 |  | 80,656 |  | 4.00 |  | 20,164 |  |
| 2021 | 521,608.11 |  | 59,695 |  | 60,344 |  | 476,912 |  | 4.00 |  | 119,228 |  |
|  | | | | | | | | | | | | |
|  | 38,012,944.07 |  | 33,040,555 |  | 33,399,934 |  | 5,753,398 |  |  | | 1,449,596 |  |

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| COLSTRIP 4 - IDAHO | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 75-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2027 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1986 | 16,590,120.92 |  | 14,737,615 |  | 15,344,807 |  | 1,908,918 |  | 5.88 |  | 324,646 |  |
| 1987 | 12,672.74 |  | 11,214 |  | 11,676 |  | 1,504 |  | 5.88 |  | 256 |  |
| 1989 | 14,929.96 |  | 13,092 |  | 13,631 |  | 1,896 |  | 5.90 |  | 321 |  |
| 1990 | 17,733.17 |  | 15,478 |  | 16,116 |  | 2,327 |  | 5.90 |  | 394 |  |
| 1991 | 30,760.14 |  | 26,706 |  | 27,806 |  | 4,184 |  | 5.91 |  | 708 |  |
| 1992 | 52,524.57 |  | 45,364 |  | 47,233 |  | 7,393 |  | 5.91 |  | 1,251 |  |
| 1993 | 18,983.78 |  | 16,297 |  | 16,968 |  | 2,775 |  | 5.92 |  | 469 |  |
| 1994 | 8,438.40 |  | 7,201 |  | 7,498 |  | 1,278 |  | 5.92 |  | 216 |  |
| 1997 | 616.31 |  | 515 |  | 536 |  | 105 |  | 5.94 |  | 18 |  |
| 1998 | 1,283.87 |  | 1,064 |  | 1,108 |  | 227 |  | 5.94 |  | 38 |  |
| 1999 | 4,489.67 |  | 3,685 |  | 3,837 |  | 832 |  | 5.95 |  | 140 |  |
| 2000 | 8,481.97 |  | 6,896 |  | 7,180 |  | 1,641 |  | 5.95 |  | 276 |  |
| 2001 | 15,329.55 |  | 12,329 |  | 12,837 |  | 3,106 |  | 5.96 |  | 521 |  |
| 2002 | 40,910.53 |  | 32,532 |  | 33,872 |  | 8,675 |  | 5.96 |  | 1,456 |  |
| 2003 | 179,267.90 |  | 140,806 |  | 146,607 |  | 39,831 |  | 5.96 |  | 6,683 |  |
| 2004 | 55,771.54 |  | 43,185 |  | 44,964 |  | 13,038 |  | 5.97 |  | 2,184 |  |
| 2005 | 4,831.25 |  | 3,685 |  | 3,837 |  | 1,188 |  | 5.97 |  | 199 |  |
| 2006 | 73.11 |  | 55 |  | 57 |  | 19 |  | 5.97 |  | 3 |  |
| 2007 | 5.20 |  | 4 |  | 4 |  | 1 |  | 5.98 |  |  |  |
| 2008 | 15,589.39 |  | 11,226 |  | 11,689 |  | 4,524 |  | 5.98 |  | 757 |  |
| 2009 | 14,065.83 |  | 9,887 |  | 10,294 |  | 4,334 |  | 5.98 |  | 725 |  |
| 2010 | 17,332.63 |  | 11,852 |  | 12,340 |  | 5,686 |  | 5.98 |  | 951 |  |
| 2011 | 93,920.58 |  | 62,153 |  | 64,714 |  | 32,964 |  | 5.99 |  | 5,503 |  |
| 2012 | 35,882.89 |  | 22,869 |  | 23,811 |  | 13,507 |  | 5.99 |  | 2,255 |  |
| 2017 | 1,119,824.18 |  | 498,491 |  | 519,029 |  | 645,588 |  | 6.00 |  | 107,598 |  |
| 2018 | 88,135.38 |  | 33,770 |  | 35,161 |  | 56,499 |  | 6.00 |  | 9,416 |  |
| 2019 | 78,352.00 |  | 23,967 |  | 24,954 |  | 56,532 |  | 6.00 |  | 9,422 |  |
| 2020 | 46,675.20 |  | 9,708 |  | 10,108 |  | 38,434 |  | 6.00 |  | 6,406 |  |
| 2021 | 209,412.64 |  | 16,752 |  | 17,442 |  | 200,347 |  | 6.00 |  | 33,391 |  |
|  | | | | | | | | | | | | |
|  | 18,776,415.30 |  | 15,818,398 |  | 16,470,119 |  | 3,057,353 |  |  | | 516,203 |  |

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| COLSTRIP 4 - WASHINGTON | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 75-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2025 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1986 | 31,289,015.93 |  | 29,203,866 |  | 28,661,194 |  | 3,879,383 |  | 3.95 |  | 982,122 |  |
| 1987 | 23,900.82 |  | 22,247 |  | 21,834 |  | 3,023 |  | 3.95 |  | 765 |  |
| 1989 | 28,157.95 |  | 26,043 |  | 25,559 |  | 3,725 |  | 3.96 |  | 941 |  |
| 1990 | 33,444.81 |  | 30,831 |  | 30,258 |  | 4,525 |  | 3.96 |  | 1,143 |  |
| 1991 | 58,013.71 |  | 53,290 |  | 52,300 |  | 8,035 |  | 3.96 |  | 2,029 |  |
| 1992 | 99,061.49 |  | 90,657 |  | 88,972 |  | 14,052 |  | 3.96 |  | 3,548 |  |
| 1993 | 35,803.47 |  | 32,622 |  | 32,016 |  | 5,220 |  | 3.97 |  | 1,315 |  |
| 1994 | 15,914.85 |  | 14,439 |  | 14,171 |  | 2,381 |  | 3.97 |  | 600 |  |
| 1997 | 1,162.37 |  | 1,039 |  | 1,020 |  | 189 |  | 3.97 |  | 48 |  |
| 1998 | 2,421.37 |  | 2,151 |  | 2,111 |  | 407 |  | 3.98 |  | 102 |  |
| 1999 | 8,467.54 |  | 7,473 |  | 7,334 |  | 1,472 |  | 3.98 |  | 370 |  |
| 2000 | 15,997.03 |  | 14,022 |  | 13,761 |  | 2,875 |  | 3.98 |  | 722 |  |
| 2001 | 28,911.58 |  | 25,153 |  | 24,686 |  | 5,382 |  | 3.98 |  | 1,352 |  |
| 2002 | 77,157.37 |  | 66,578 |  | 65,341 |  | 14,903 |  | 3.98 |  | 3,744 |  |
| 2003 | 338,099.79 |  | 289,119 |  | 283,747 |  | 67,877 |  | 3.98 |  | 17,055 |  |
| 2004 | 105,185.29 |  | 89,006 |  | 87,352 |  | 22,041 |  | 3.99 |  | 5,524 |  |
| 2005 | 9,111.75 |  | 7,625 |  | 7,483 |  | 1,993 |  | 3.99 |  | 499 |  |
| 2006 | 137.89 |  | 114 |  | 112 |  | 32 |  | 3.99 |  | 8 |  |
| 2007 | 9.80 |  | 8 |  | 8 |  | 2 |  | 3.99 |  | 1 |  |
| 2008 | 29,401.61 |  | 23,590 |  | 23,152 |  | 7,426 |  | 3.99 |  | 1,861 |  |
| 2009 | 26,528.17 |  | 20,906 |  | 20,518 |  | 7,072 |  | 3.99 |  | 1,772 |  |
| 2010 | 32,689.37 |  | 25,228 |  | 24,759 |  | 9,238 |  | 3.99 |  | 2,315 |  |
| 2011 | 177,134.47 |  | 133,458 |  | 130,978 |  | 53,242 |  | 3.99 |  | 13,344 |  |
| 2012 | 67,675.22 |  | 49,497 |  | 48,577 |  | 21,805 |  | 4.00 |  | 5,451 |  |
| 2017 | 2,111,991.63 |  | 1,162,834 |  | 1,141,226 |  | 1,055,245 |  | 4.00 |  | 263,811 |  |
| 2018 | 149,732.74 |  | 72,671 |  | 71,321 |  | 84,401 |  | 4.00 |  | 21,100 |  |
| 2019 | 164,262.96 |  | 65,706 |  | 64,485 |  | 106,348 |  | 4.00 |  | 26,587 |  |
| 2020 | 88,185.22 |  | 25,013 |  | 24,548 |  | 67,164 |  | 4.00 |  | 16,791 |  |
| 2021 | 399,397.74 |  | 46,152 |  | 45,294 |  | 370,079 |  | 4.00 |  | 92,520 |  |
|  | | | | | | | | | | | | |
|  | 35,416,973.94 |  | 31,601,338 |  | 31,014,115 |  | 5,819,538 |  |  | | 1,467,440 |  |
|  | | | | | | | | | | | | |
|  | 137,647,341.58 |  | 113,282,563 |  | 118,766,116 |  | 24,058,346 |  |  | | 4,410,268 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.5 3.20 | | | | | | | | | | | |

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| KETTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-S3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2038 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1990 | 883,460.44 |  | 593,677 |  | 794,378 |  | 89,082 |  | 15.00 |  | 5,939 |  |
| 1991 | 753,698.55 |  | 499,619 |  | 668,523 |  | 85,176 |  | 15.18 |  | 5,611 |  |
| 1993 | 1,006,829.80 |  | 648,499 |  | 867,734 |  | 139,096 |  | 15.51 |  | 8,968 |  |
| 1999 | 308,503.84 |  | 178,611 |  | 238,993 |  | 69,511 |  | 16.29 |  | 4,267 |  |
| 2003 | 560,042.04 |  | 294,862 |  | 394,545 |  | 165,498 |  | 16.62 |  | 9,958 |  |
| 2004 | 24,078.00 |  | 12,317 |  | 16,481 |  | 7,597 |  | 16.69 |  | 455 |  |
| 2005 | 27,901.73 |  | 13,846 |  | 18,527 |  | 9,375 |  | 16.74 |  | 560 |  |
| 2007 | 17,536.29 |  | 8,113 |  | 10,856 |  | 6,681 |  | 16.83 |  | 397 |  |
| 2008 | 10,395.19 |  | 4,622 |  | 6,185 |  | 4,211 |  | 16.86 |  | 250 |  |
| 2009 | 14,860.89 |  | 6,320 |  | 8,457 |  | 6,404 |  | 16.89 |  | 379 |  |
| 2010 | 8,241.15 |  | 3,336 |  | 4,464 |  | 3,777 |  | 16.91 |  | 223 |  |
| 2011 | 16,864.72 |  | 6,456 |  | 8,639 |  | 8,226 |  | 16.93 |  | 486 |  |
| 2012 | 669.38 |  | 240 |  | 321 |  | 348 |  | 16.95 |  | 21 |  |
| 2021 | 15,769.14 |  | 451 |  | 603 |  | 15,166 |  | 17.00 |  | 892 |  |
|  | | | | | | | | | | | | |
|  | 3,648,851.16 |  | 2,270,969 |  | 3,038,704 |  | 610,147 |  |  | | 38,406 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 15.9 1.05 | | | | | | | | | | | |

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| KETTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2038 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -5 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1983 | 28,203,333.08 |  | 19,835,418 |  | 23,151,897 |  | 6,461,602 |  | 14.72 |  | 438,968 |  |
| 1984 | 287,713.29 |  | 200,669 |  | 234,221 |  | 67,878 |  | 14.79 |  | 4,589 |  |
| 1986 | 873,028.19 |  | 598,033 |  | 698,024 |  | 218,656 |  | 14.93 |  | 14,645 |  |
| 1987 | 13,547.23 |  | 9,190 |  | 10,727 |  | 3,498 |  | 15.00 |  | 233 |  |
| 1988 | 18,631.24 |  | 12,515 |  | 14,608 |  | 4,955 |  | 15.06 |  | 329 |  |
| 1990 | 58,645.05 |  | 38,554 |  | 45,000 |  | 16,577 |  | 15.18 |  | 1,092 |  |
| 1992 | 262,878.38 |  | 168,771 |  | 196,989 |  | 79,033 |  | 15.29 |  | 5,169 |  |
| 1994 | 65,243.65 |  | 40,779 |  | 47,597 |  | 20,909 |  | 15.40 |  | 1,358 |  |
| 1995 | 101,877.17 |  | 62,798 |  | 73,298 |  | 33,673 |  | 15.44 |  | 2,181 |  |
| 1998 | 1,159,154.25 |  | 680,232 |  | 793,967 |  | 423,145 |  | 15.58 |  | 27,159 |  |
| 2000 | 3,442.15 |  | 1,944 |  | 2,269 |  | 1,345 |  | 15.66 |  | 86 |  |
| 2001 | 188,672.94 |  | 104,311 |  | 121,752 |  | 76,355 |  | 15.70 |  | 4,863 |  |
| 2002 | 41,091.12 |  | 22,212 |  | 25,926 |  | 17,220 |  | 15.73 |  | 1,095 |  |
| 2003 | 68,015.41 |  | 35,844 |  | 41,837 |  | 29,579 |  | 15.77 |  | 1,876 |  |
| 2004 | 22,006.69 |  | 11,292 |  | 13,180 |  | 9,927 |  | 15.80 |  | 628 |  |
| 2005 | 395,813.71 |  | 197,250 |  | 230,230 |  | 185,374 |  | 15.83 |  | 11,710 |  |
| 2006 | 189,882.51 |  | 91,639 |  | 106,961 |  | 92,416 |  | 15.86 |  | 5,827 |  |
| 2007 | 114,691.56 |  | 53,448 |  | 62,384 |  | 58,042 |  | 15.89 |  | 3,653 |  |
| 2008 | 162,245.77 |  | 72,695 |  | 84,850 |  | 85,508 |  | 15.92 |  | 5,371 |  |
| 2009 | 576,445.13 |  | 247,403 |  | 288,769 |  | 316,499 |  | 15.94 |  | 19,856 |  |
| 2010 | 940,141.14 |  | 384,287 |  | 448,540 |  | 538,608 |  | 15.97 |  | 33,726 |  |
| 2011 | 138,659.27 |  | 53,684 |  | 62,660 |  | 82,932 |  | 15.99 |  | 5,186 |  |
| 2012 | 1,174,339.48 |  | 426,465 |  | 497,770 |  | 735,287 |  | 16.02 |  | 45,898 |  |
| 2013 | 564,965.02 |  | 191,050 |  | 222,994 |  | 370,220 |  | 16.04 |  | 23,081 |  |
| 2014 | 2,381,170.49 |  | 738,768 |  | 862,290 |  | 1,637,939 |  | 16.07 |  | 101,925 |  |
| 2015 | 1,174,024.48 |  | 329,508 |  | 384,602 |  | 848,124 |  | 16.09 |  | 52,711 |  |
| 2016 | 154,794.18 |  | 38,379 |  | 44,796 |  | 117,738 |  | 16.11 |  | 7,308 |  |
| 2017 | 537,458.92 |  | 114,373 |  | 133,496 |  | 430,836 |  | 16.13 |  | 26,710 |  |
| 2018 | 3,536,228.20 |  | 614,025 |  | 716,690 |  | 2,996,350 |  | 16.15 |  | 185,533 |  |
| 2019 | 2,187,766.31 |  | 284,801 |  | 332,420 |  | 1,964,735 |  | 16.18 |  | 121,430 |  |
| 2020 | 362,385.17 |  | 29,870 |  | 34,864 |  | 345,640 |  | 16.20 |  | 21,336 |  |
| 2021 | 843,394.42 |  | 24,424 |  | 28,508 |  | 857,056 |  | 16.22 |  | 52,839 |  |
|  | | | | | | | | | | | | |
|  | 46,801,685.60 |  | 25,714,631 |  | 30,014,114 |  | 19,127,656 |  |  | | 1,228,371 |  |

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| COLSTRIP 3 AND COMMON - IDAHO | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2027 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1984 | 21,877,622.96 |  | 19,074,539 |  | 19,891,813 |  | 2,642,139 |  | 5.74 |  | 460,303 |  |
| 1985 | 50,813.63 |  | 44,140 |  | 46,031 |  | 6,307 |  | 5.75 |  | 1,097 |  |
| 1986 | 315,401.86 |  | 272,915 |  | 284,608 |  | 40,256 |  | 5.76 |  | 6,989 |  |
| 1987 | 296,579.64 |  | 255,574 |  | 266,524 |  | 38,953 |  | 5.77 |  | 6,751 |  |
| 1988 | 38,365.12 |  | 32,917 |  | 34,327 |  | 5,189 |  | 5.78 |  | 898 |  |
| 1989 | 83,008.56 |  | 70,917 |  | 73,956 |  | 11,543 |  | 5.78 |  | 1,997 |  |
| 1990 | 22,718.96 |  | 19,315 |  | 20,143 |  | 3,258 |  | 5.79 |  | 563 |  |
| 1991 | 65,530.20 |  | 55,421 |  | 57,796 |  | 9,701 |  | 5.80 |  | 1,673 |  |
| 1992 | 24,429.90 |  | 20,553 |  | 21,434 |  | 3,729 |  | 5.80 |  | 643 |  |
| 1993 | 14,694.33 |  | 12,289 |  | 12,816 |  | 2,320 |  | 5.81 |  | 399 |  |
| 1994 | 4,890.06 |  | 4,064 |  | 4,238 |  | 799 |  | 5.82 |  | 137 |  |
| 1995 | 10,724.90 |  | 8,856 |  | 9,235 |  | 1,811 |  | 5.82 |  | 311 |  |
| 1996 | 28,147.85 |  | 23,076 |  | 24,065 |  | 4,928 |  | 5.83 |  | 845 |  |
| 1997 | 23,694.32 |  | 19,282 |  | 20,108 |  | 4,297 |  | 5.83 |  | 737 |  |
| 1999 | 33,301.62 |  | 26,640 |  | 27,781 |  | 6,519 |  | 5.84 |  | 1,116 |  |
| 2000 | 42,431.70 |  | 33,611 |  | 35,051 |  | 8,654 |  | 5.85 |  | 1,479 |  |
| 2001 | 338,431.67 |  | 265,318 |  | 276,686 |  | 71,899 |  | 5.85 |  | 12,290 |  |
| 2002 | 112,677.87 |  | 87,363 |  | 91,106 |  | 24,952 |  | 5.85 |  | 4,265 |  |
| 2003 | 189,234.02 |  | 144,838 |  | 151,044 |  | 43,867 |  | 5.86 |  | 7,486 |  |
| 2004 | 443,828.36 |  | 335,155 |  | 349,515 |  | 107,628 |  | 5.86 |  | 18,367 |  |
| 2005 | 154,735.65 |  | 115,093 |  | 120,024 |  | 39,353 |  | 5.86 |  | 6,716 |  |
| 2006 | 149,466.25 |  | 109,280 |  | 113,962 |  | 39,988 |  | 5.87 |  | 6,812 |  |
| 2007 | 317,932.98 |  | 228,129 |  | 237,903 |  | 89,567 |  | 5.87 |  | 15,258 |  |
| 2008 | 254,858.56 |  | 179,078 |  | 186,751 |  | 75,753 |  | 5.87 |  | 12,905 |  |
| 2009 | 271,110.25 |  | 185,845 |  | 193,808 |  | 85,436 |  | 5.88 |  | 14,530 |  |
| 2010 | 211,861.53 |  | 141,291 |  | 147,345 |  | 70,873 |  | 5.88 |  | 12,053 |  |
| 2011 | 156,682.91 |  | 101,249 |  | 105,587 |  | 55,796 |  | 5.88 |  | 9,489 |  |
| 2012 | 5,129.26 |  | 3,190 |  | 3,327 |  | 1,956 |  | 5.89 |  | 332 |  |
| 2016 | 133,878.22 |  | 64,994 |  | 67,779 |  | 70,116 |  | 5.90 |  | 11,884 |  |
| 2017 | 2,637,816.94 |  | 1,148,455 |  | 1,197,662 |  | 1,519,289 |  | 5.90 |  | 257,507 |  |
| 2018 | 927,711.59 |  | 347,378 |  | 362,262 |  | 593,281 |  | 5.90 |  | 100,556 |  |
| 2019 | 455,167.17 |  | 135,799 |  | 141,617 |  | 327,205 |  | 5.91 |  | 55,365 |  |
| 2020 | 154,022.56 |  | 31,254 |  | 32,593 |  | 126,050 |  | 5.91 |  | 21,328 |  |
| 2021 | 577,899.73 |  | 45,571 |  | 47,524 |  | 547,713 |  | 5.91 |  | 92,676 |  |
|  | | | | | | | | | | | | |
|  | 30,424,801.13 |  | 23,643,389 |  | 24,656,421 |  | 6,681,124 |  |  | | 1,145,757 |  |

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| COLSTRIP 3 AND COMMON - WASHINGTON | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2025 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1984 | 41,261,260.04 |  | 37,909,195 |  | 38,868,558 |  | 3,630,540 |  | 3.89 |  | 933,301 |  |
| 1985 | 95,834.64 |  | 87,838 |  | 90,061 |  | 8,649 |  | 3.89 |  | 2,223 |  |
| 1986 | 594,848.80 |  | 543,656 |  | 557,414 |  | 55,280 |  | 3.90 |  | 14,174 |  |
| 1987 | 559,350.07 |  | 509,829 |  | 522,731 |  | 53,399 |  | 3.90 |  | 13,692 |  |
| 1988 | 72,356.72 |  | 65,762 |  | 67,426 |  | 7,101 |  | 3.90 |  | 1,821 |  |
| 1989 | 156,554.39 |  | 141,804 |  | 145,393 |  | 15,858 |  | 3.91 |  | 4,056 |  |
| 1990 | 42,848.02 |  | 38,683 |  | 39,662 |  | 4,472 |  | 3.91 |  | 1,144 |  |
| 1991 | 123,590.16 |  | 111,190 |  | 114,004 |  | 13,294 |  | 3.91 |  | 3,400 |  |
| 1992 | 46,074.87 |  | 41,299 |  | 42,344 |  | 5,113 |  | 3.91 |  | 1,308 |  |
| 1993 | 27,713.55 |  | 24,732 |  | 25,358 |  | 3,187 |  | 3.92 |  | 813 |  |
| 1994 | 9,222.66 |  | 8,196 |  | 8,403 |  | 1,096 |  | 3.92 |  | 280 |  |
| 1995 | 20,227.19 |  | 17,893 |  | 18,346 |  | 2,488 |  | 3.92 |  | 635 |  |
| 1996 | 53,086.94 |  | 46,729 |  | 47,912 |  | 6,768 |  | 3.92 |  | 1,727 |  |
| 1997 | 44,687.55 |  | 39,111 |  | 40,101 |  | 5,927 |  | 3.93 |  | 1,508 |  |
| 1999 | 62,806.96 |  | 54,310 |  | 55,684 |  | 9,007 |  | 3.93 |  | 2,292 |  |
| 2000 | 80,026.30 |  | 68,736 |  | 70,475 |  | 11,952 |  | 3.93 |  | 3,041 |  |
| 2001 | 638,283.12 |  | 544,163 |  | 557,934 |  | 99,498 |  | 3.93 |  | 25,318 |  |
| 2002 | 212,510.78 |  | 179,614 |  | 184,159 |  | 34,727 |  | 3.94 |  | 8,814 |  |
| 2003 | 356,895.91 |  | 298,927 |  | 306,492 |  | 61,111 |  | 3.94 |  | 15,510 |  |
| 2004 | 837,061.58 |  | 694,257 |  | 711,826 |  | 150,347 |  | 3.94 |  | 38,159 |  |
| 2005 | 291,831.85 |  | 239,381 |  | 245,439 |  | 55,148 |  | 3.94 |  | 13,997 |  |
| 2006 | 281,893.75 |  | 228,413 |  | 234,193 |  | 56,157 |  | 3.94 |  | 14,253 |  |
| 2007 | 599,622.52 |  | 479,192 |  | 491,319 |  | 126,292 |  | 3.94 |  | 32,054 |  |
| 2008 | 480,663.94 |  | 378,140 |  | 387,710 |  | 107,374 |  | 3.94 |  | 27,252 |  |
| 2009 | 511,314.75 |  | 394,822 |  | 404,814 |  | 121,840 |  | 3.95 |  | 30,846 |  |
| 2010 | 399,571.47 |  | 302,232 |  | 309,881 |  | 101,678 |  | 3.95 |  | 25,741 |  |
| 2011 | 295,504.42 |  | 218,187 |  | 223,709 |  | 80,661 |  | 3.95 |  | 20,421 |  |
| 2012 | 9,673.77 |  | 6,943 |  | 7,119 |  | 2,845 |  | 3.95 |  | 720 |  |
| 2016 | 252,494.70 |  | 149,251 |  | 153,028 |  | 107,041 |  | 3.95 |  | 27,099 |  |
| 2017 | 3,541,437.37 |  | 1,911,530 |  | 1,959,905 |  | 1,687,776 |  | 3.96 |  | 426,206 |  |
| 2018 | 1,461,846.39 |  | 695,574 |  | 713,177 |  | 792,525 |  | 3.96 |  | 200,133 |  |
| 2019 | 1,146,266.95 |  | 450,125 |  | 461,516 |  | 719,139 |  | 3.96 |  | 181,601 |  |
| 2020 | 291,000.76 |  | 81,143 |  | 83,196 |  | 216,534 |  | 3.96 |  | 54,680 |  |
| 2021 | 1,102,499.89 |  | 125,038 |  | 128,202 |  | 1,007,373 |  | 3.96 |  | 254,387 |  |
|  | | | | | | | | | | | | |
|  | 55,960,862.78 |  | 47,085,895 |  | 48,277,491 |  | 9,362,198 |  |  | | 2,382,606 |  |

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| COLSTRIP 4 - IDAHO | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2027 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1986 | 12,931,872.47 |  | 11,298,494 |  | 11,465,449 |  | 1,983,699 |  | 5.76 |  | 344,392 |  |
| 1987 | 201,100.73 |  | 174,979 |  | 177,565 |  | 31,580 |  | 5.77 |  | 5,473 |  |
| 1989 | 30,379.15 |  | 26,206 |  | 26,593 |  | 5,001 |  | 5.78 |  | 865 |  |
| 1990 | 54,569.00 |  | 46,842 |  | 47,534 |  | 9,218 |  | 5.79 |  | 1,592 |  |
| 1991 | 33,203.76 |  | 28,354 |  | 28,773 |  | 5,759 |  | 5.80 |  | 993 |  |
| 1992 | 34,484.50 |  | 29,294 |  | 29,727 |  | 6,137 |  | 5.80 |  | 1,058 |  |
| 1993 | 3,138.00 |  | 2,650 |  | 2,689 |  | 574 |  | 5.81 |  | 99 |  |
| 1994 | 16,775.79 |  | 14,077 |  | 14,285 |  | 3,162 |  | 5.82 |  | 543 |  |
| 1995 | 10,435.91 |  | 8,701 |  | 8,830 |  | 2,024 |  | 5.82 |  | 348 |  |
| 1996 | 39,119.84 |  | 32,383 |  | 32,862 |  | 7,823 |  | 5.83 |  | 1,342 |  |
| 1999 | 17,733.51 |  | 14,324 |  | 14,536 |  | 3,907 |  | 5.84 |  | 669 |  |
| 2000 | 85,099.01 |  | 68,063 |  | 69,069 |  | 19,434 |  | 5.85 |  | 3,322 |  |
| 2001 | 31,825.73 |  | 25,192 |  | 25,564 |  | 7,535 |  | 5.85 |  | 1,288 |  |
| 2002 | 274,896.60 |  | 215,206 |  | 218,386 |  | 67,506 |  | 5.85 |  | 11,539 |  |
| 2003 | 358,680.64 |  | 277,197 |  | 281,293 |  | 91,735 |  | 5.86 |  | 15,654 |  |
| 2004 | 329,976.00 |  | 251,599 |  | 255,317 |  | 87,858 |  | 5.86 |  | 14,993 |  |
| 2005 | 244,839.50 |  | 183,881 |  | 186,598 |  | 68,035 |  | 5.86 |  | 11,610 |  |
| 2006 | 167,490.46 |  | 123,647 |  | 125,474 |  | 48,716 |  | 5.87 |  | 8,299 |  |
| 2007 | 182,998.61 |  | 132,584 |  | 134,543 |  | 55,775 |  | 5.87 |  | 9,502 |  |
| 2008 | 241,465.29 |  | 171,314 |  | 173,845 |  | 77,278 |  | 5.87 |  | 13,165 |  |
| 2009 | 698,661.81 |  | 483,580 |  | 490,726 |  | 235,883 |  | 5.88 |  | 40,116 |  |
| 2010 | 257,168.15 |  | 173,172 |  | 175,731 |  | 91,724 |  | 5.88 |  | 15,599 |  |
| 2011 | 169,970.35 |  | 110,901 |  | 112,540 |  | 64,229 |  | 5.88 |  | 10,923 |  |
| 2012 | 28,307.84 |  | 17,779 |  | 18,042 |  | 11,398 |  | 5.89 |  | 1,935 |  |
| 2016 | 471,107.28 |  | 230,929 |  | 234,341 |  | 255,610 |  | 5.90 |  | 43,324 |  |
| 2017 | 2,144,257.10 |  | 942,633 |  | 956,562 |  | 1,273,465 |  | 5.90 |  | 215,842 |  |
| 2018 | 942,758.90 |  | 356,440 |  | 361,707 |  | 618,762 |  | 5.90 |  | 104,875 |  |
| 2019 | 490,554.28 |  | 147,778 |  | 149,962 |  | 360,215 |  | 5.91 |  | 60,950 |  |
| 2020 | 197,093.66 |  | 40,383 |  | 40,980 |  | 163,998 |  | 5.91 |  | 27,749 |  |
| 2021 | 875,621.38 |  | 69,719 |  | 70,749 |  | 839,897 |  | 5.91 |  | 142,115 |  |
|  | | | | | | | | | | | | |
|  | 21,565,585.25 |  | 15,698,301 |  | 15,930,270 |  | 6,497,938 |  |  | | 1,110,174 |  |

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| COLSTRIP 4 - WASHINGTON | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2025 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1986 | 24,389,548.78 |  | 22,506,988 |  | 21,266,113 |  | 4,099,018 |  | 3.90 |  | 1,051,030 |  |
| 1987 | 379,276.55 |  | 349,055 |  | 329,811 |  | 64,637 |  | 3.90 |  | 16,574 |  |
| 1989 | 57,295.16 |  | 52,401 |  | 49,512 |  | 10,075 |  | 3.91 |  | 2,577 |  |
| 1990 | 102,917.28 |  | 93,815 |  | 88,643 |  | 18,391 |  | 3.91 |  | 4,704 |  |
| 1991 | 62,622.39 |  | 56,886 |  | 53,750 |  | 11,378 |  | 3.91 |  | 2,910 |  |
| 1992 | 65,037.88 |  | 58,862 |  | 55,617 |  | 12,023 |  | 3.91 |  | 3,075 |  |
| 1993 | 5,918.29 |  | 5,333 |  | 5,039 |  | 1,116 |  | 3.92 |  | 285 |  |
| 1994 | 31,639.18 |  | 28,390 |  | 26,825 |  | 6,080 |  | 3.92 |  | 1,551 |  |
| 1995 | 19,682.16 |  | 17,580 |  | 16,611 |  | 3,859 |  | 3.92 |  | 984 |  |
| 1996 | 73,780.12 |  | 65,575 |  | 61,960 |  | 14,772 |  | 3.92 |  | 3,768 |  |
| 1999 | 33,445.46 |  | 29,202 |  | 27,592 |  | 7,191 |  | 3.93 |  | 1,830 |  |
| 2000 | 160,496.99 |  | 139,192 |  | 131,518 |  | 35,399 |  | 3.93 |  | 9,007 |  |
| 2001 | 60,023.42 |  | 51,669 |  | 48,820 |  | 13,604 |  | 3.93 |  | 3,462 |  |
| 2002 | 518,455.78 |  | 442,452 |  | 418,058 |  | 121,136 |  | 3.94 |  | 30,745 |  |
| 2003 | 676,472.71 |  | 572,098 |  | 540,557 |  | 162,975 |  | 3.94 |  | 41,364 |  |
| 2004 | 622,335.70 |  | 521,175 |  | 492,441 |  | 154,788 |  | 3.94 |  | 39,286 |  |
| 2005 | 461,768.00 |  | 382,453 |  | 361,367 |  | 118,871 |  | 3.94 |  | 30,170 |  |
| 2006 | 315,887.54 |  | 258,443 |  | 244,194 |  | 84,329 |  | 3.94 |  | 21,403 |  |
| 2007 | 345,135.89 |  | 278,495 |  | 263,141 |  | 95,801 |  | 3.94 |  | 24,315 |  |
| 2008 | 455,404.21 |  | 361,747 |  | 341,803 |  | 131,818 |  | 3.94 |  | 33,456 |  |
| 2009 | 1,317,678.19 |  | 1,027,350 |  | 970,709 |  | 399,676 |  | 3.95 |  | 101,184 |  |
| 2010 | 485,019.85 |  | 370,426 |  | 350,003 |  | 154,417 |  | 3.95 |  | 39,093 |  |
| 2011 | 320,564.54 |  | 238,989 |  | 225,813 |  | 107,574 |  | 3.95 |  | 27,234 |  |
| 2012 | 53,388.66 |  | 38,692 |  | 36,559 |  | 18,965 |  | 3.95 |  | 4,801 |  |
| 2016 | 888,509.67 |  | 530,303 |  | 501,066 |  | 422,984 |  | 3.95 |  | 107,085 |  |
| 2017 | 2,741,338.07 |  | 1,494,034 |  | 1,411,664 |  | 1,439,328 |  | 3.96 |  | 363,467 |  |
| 2018 | 1,427,766.50 |  | 685,954 |  | 648,135 |  | 836,742 |  | 3.96 |  | 211,298 |  |
| 2019 | 1,275,466.32 |  | 505,722 |  | 477,840 |  | 848,645 |  | 3.96 |  | 214,304 |  |
| 2020 | 372,376.59 |  | 104,842 |  | 99,062 |  | 288,210 |  | 3.96 |  | 72,780 |  |
| 2021 | 1,672,639.65 |  | 191,541 |  | 180,981 |  | 1,558,564 |  | 3.96 |  | 393,577 |  |
|  | | | | | | | | | | | | |
|  | 39,391,891.53 |  | 31,459,664 |  | 29,725,202 |  | 11,242,365 |  |  | | 2,857,319 |  |
|  | | | | | | | | | | | | |
|  | 194,144,826.29 |  | 143,601,880 |  | 148,603,498 |  | 52,911,281 |  |  | | 8,724,227 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.1 4.49 | | | | | | | | | | | |

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| COLSTRIP 3 AND COMMON - IDAHO | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2027 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2011 | 1,172.90 |  | 766 |  | 661 |  | 547 |  | 5.95 |  | 92 |  |
| 2021 | 174,287.75 |  | 13,595 |  | 11,732 |  | 167,784 |  | 5.98 |  | 28,058 |  |
|  | | | | | | | | | | | | |
|  | 175,460.65 |  | 14,361 |  | 12,394 |  | 168,331 |  |  | | 28,150 |  |

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| COLSTRIP 3 AND COMMON - WASHINGTON | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2025 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2011 | 2,212.10 |  | 1,646 |  | 1,543 |  | 736 |  | 3.98 |  | 185 |  |
| 2021 | 330,910.55 |  | 37,956 |  | 35,577 |  | 305,261 |  | 3.99 |  | 76,507 |  |
|  | | | | | | | | | | | | |
|  | 333,122.65 |  | 39,602 |  | 37,119 |  | 305,997 |  |  | | 76,692 |  |

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| COLSTRIP 4 - IDAHO | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2027 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2011 | 1,172.90 |  | 773 |  | 1,220 |  |  |  |  |  |  |  |
| 2021 | 10,221.39 |  | 805 |  | 6,604 |  | 4,026 |  | 5.98 |  | 673 |  |
|  | | | | | | | | | | | | |
|  | 11,394.29 |  | 1,578 |  | 7,824 |  | 4,026 |  |  | | 673 |  |

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| COLSTRIP 4 - WASHINGTON | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2025 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2011 | 2,212.10 |  | 1,662 |  | 2,301 |  |  |  |  |  |  |  |
| 2021 | 18,870.62 |  | 2,185 |  | 24,178 |  | 4,553 | - |  |  |  |  |
|  | | | | | | | | | | | | |
|  | 21,082.72 |  | 3,847 |  | 26,479 |  | 4,553 | - |  | |  |  |
|  | | | | | | | | | | | | |
|  | 541,060.31 |  | 59,388 |  | 83,816 |  | 473,801 |  |  | | 105,515 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 4.5 19.50 | | | | | | | | | | | |

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| KETTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 37-R0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2038 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -5 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1983 | 10,985,668.05 |  | 7,642,136 |  | 9,691,308 |  | 1,843,643 |  | 11.94 |  | 154,409 |  |
| 1988 | 67,815.27 |  | 44,650 |  | 56,623 |  | 14,584 |  | 12.74 |  | 1,145 |  |
| 1993 | 1,769.00 |  | 1,092 |  | 1,385 |  | 473 |  | 13.41 |  | 35 |  |
| 1994 | 583,202.46 |  | 354,736 |  | 449,855 |  | 162,507 |  | 13.53 |  | 12,011 |  |
| 1998 | 273,930.09 |  | 155,799 |  | 197,575 |  | 90,051 |  | 13.97 |  | 6,446 |  |
| 1999 | 18,428.50 |  | 10,278 |  | 13,034 |  | 6,316 |  | 14.07 |  | 449 |  |
| 2003 | 127,085.31 |  | 64,646 |  | 81,980 |  | 51,459 |  | 14.43 |  | 3,566 |  |
| 2007 | 30,962.40 |  | 13,877 |  | 17,598 |  | 14,913 |  | 14.73 |  | 1,012 |  |
| 2009 | 121,846.55 |  | 50,213 |  | 63,677 |  | 64,262 |  | 14.86 |  | 4,324 |  |
| 2011 | 71,733.33 |  | 26,635 |  | 33,777 |  | 41,543 |  | 14.97 |  | 2,775 |  |
| 2014 | 478,816.20 |  | 142,486 |  | 180,692 |  | 322,065 |  | 15.12 |  | 21,301 |  |
| 2015 | 239,967.65 |  | 64,629 |  | 81,959 |  | 170,007 |  | 15.16 |  | 11,214 |  |
| 2017 | 4,377,326.20 |  | 891,523 |  | 1,130,577 |  | 3,465,615 |  | 15.25 |  | 227,253 |  |
| 2018 | 66,004.34 |  | 10,953 |  | 13,890 |  | 55,415 |  | 15.29 |  | 3,624 |  |
| 2019 | 881,266.84 |  | 110,142 |  | 139,676 |  | 785,655 |  | 15.32 |  | 51,283 |  |
| 2020 | 306,266.71 |  | 24,202 |  | 30,692 |  | 290,888 |  | 15.36 |  | 18,938 |  |
|  | | | | | | | | | | | | |
|  | 18,632,088.90 |  | 9,607,997 |  | 12,184,298 |  | 7,379,396 |  |  | | 519,785 |  |

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| COLSTRIP 3 AND COMMON - IDAHO | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 37-R0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2027 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1984 | 3,735,579.08 |  | 3,194,855 |  | 3,440,649 |  | 406,997 |  | 5.39 |  | 75,510 |  |
| 1985 | 5,076.70 |  | 4,325 |  | 4,658 |  | 571 |  | 5.42 |  | 105 |  |
| 1987 | 2,862.61 |  | 2,420 |  | 2,606 |  | 342 |  | 5.46 |  | 63 |  |
| 1988 | 12,477.50 |  | 10,505 |  | 11,313 |  | 1,539 |  | 5.48 |  | 281 |  |
| 1989 | 10,989.13 |  | 9,211 |  | 9,920 |  | 1,399 |  | 5.50 |  | 254 |  |
| 1990 | 14,243.55 |  | 11,882 |  | 12,796 |  | 1,875 |  | 5.52 |  | 340 |  |
| 1991 | 13,843.18 |  | 11,489 |  | 12,373 |  | 1,886 |  | 5.54 |  | 340 |  |
| 1992 | 137,169.93 |  | 113,220 |  | 121,931 |  | 19,355 |  | 5.56 |  | 3,481 |  |
| 1993 | 193,196.13 |  | 158,599 |  | 170,801 |  | 28,191 |  | 5.57 |  | 5,061 |  |
| 1994 | 85,200.87 |  | 69,507 |  | 74,854 |  | 12,902 |  | 5.59 |  | 2,308 |  |
| 1995 | 73,037.69 |  | 59,210 |  | 63,765 |  | 11,464 |  | 5.60 |  | 2,047 |  |
| 1996 | 17,825.90 |  | 14,346 |  | 15,450 |  | 2,911 |  | 5.62 |  | 518 |  |
| 1997 | 19,647.87 |  | 15,696 |  | 16,904 |  | 3,334 |  | 5.63 |  | 592 |  |
| 1998 | 55,859.50 |  | 44,269 |  | 47,675 |  | 9,860 |  | 5.64 |  | 1,748 |  |
| 2001 | 40,020.06 |  | 30,810 |  | 33,180 |  | 8,040 |  | 5.68 |  | 1,415 |  |
| 2002 | 2,200.92 |  | 1,676 |  | 1,805 |  | 462 |  | 5.69 |  | 81 |  |
| 2003 | 120,443.05 |  | 90,544 |  | 97,510 |  | 26,546 |  | 5.70 |  | 4,657 |  |
| 2004 | 295,179.11 |  | 218,893 |  | 235,733 |  | 68,301 |  | 5.71 |  | 11,962 |  |
| 2005 | 25,827.76 |  | 18,863 |  | 20,314 |  | 6,288 |  | 5.72 |  | 1,099 |  |
| 2006 | 132,752.46 |  | 95,325 |  | 102,659 |  | 34,076 |  | 5.73 |  | 5,947 |  |
| 2007 | 627,874.63 |  | 442,654 |  | 476,709 |  | 170,002 |  | 5.73 |  | 29,669 |  |
| 2008 | 82,771.23 |  | 57,114 |  | 61,508 |  | 23,746 |  | 5.74 |  | 4,137 |  |
| 2009 | 111,657.89 |  | 75,194 |  | 80,979 |  | 34,029 |  | 5.75 |  | 5,918 |  |
| 2010 | 7,642.07 |  | 5,010 |  | 5,395 |  | 2,476 |  | 5.75 |  | 431 |  |
| 2011 | 1,441,839.63 |  | 915,205 |  | 985,616 |  | 499,479 |  | 5.76 |  | 86,715 |  |
| 2012 | 128,670.11 |  | 78,734 |  | 84,791 |  | 47,739 |  | 5.76 |  | 8,288 |  |
| 2017 | 750,129.44 |  | 321,215 |  | 345,927 |  | 426,706 |  | 5.79 |  | 73,697 |  |
| 2020 | 3,919.23 |  | 785 |  | 845 |  | 3,191 |  | 5.80 |  | 550 |  |
| 2021 | 182,870.95 |  | 14,097 |  | 15,182 |  | 173,176 |  | 5.81 |  | 29,807 |  |
|  | | | | | | | | | | | | |
|  | 8,330,808.18 |  | 6,085,653 |  | 6,553,849 |  | 2,026,883 |  |  | | 357,021 |  |

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| COLSTRIP 3 AND COMMON - WASHINGTON | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 37-R0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2025 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1984 | 7,045,312.92 |  | 6,381,300 |  | 5,981,447 |  | 1,275,225 |  | 3.73 |  | 341,883 |  |
| 1985 | 9,574.68 |  | 8,652 |  | 8,110 |  | 1,752 |  | 3.74 |  | 468 |  |
| 1987 | 5,398.90 |  | 4,853 |  | 4,549 |  | 1,012 |  | 3.76 |  | 269 |  |
| 1988 | 23,532.61 |  | 21,092 |  | 19,770 |  | 4,468 |  | 3.77 |  | 1,185 |  |
| 1989 | 20,725.54 |  | 18,518 |  | 17,358 |  | 3,990 |  | 3.78 |  | 1,056 |  |
| 1990 | 26,863.38 |  | 23,923 |  | 22,424 |  | 5,245 |  | 3.79 |  | 1,384 |  |
| 1991 | 26,108.28 |  | 23,168 |  | 21,716 |  | 5,175 |  | 3.80 |  | 1,362 |  |
| 1992 | 258,702.87 |  | 228,794 |  | 214,458 |  | 52,006 |  | 3.80 |  | 13,686 |  |
| 1993 | 364,368.47 |  | 320,930 |  | 300,821 |  | 74,479 |  | 3.81 |  | 19,548 |  |
| 1994 | 160,689.08 |  | 140,908 |  | 132,079 |  | 33,431 |  | 3.82 |  | 8,752 |  |
| 1995 | 137,749.29 |  | 120,224 |  | 112,691 |  | 29,191 |  | 3.83 |  | 7,622 |  |
| 1996 | 33,619.70 |  | 29,206 |  | 27,376 |  | 7,252 |  | 3.83 |  | 1,893 |  |
| 1997 | 37,055.95 |  | 32,015 |  | 30,009 |  | 8,159 |  | 3.84 |  | 2,125 |  |
| 1998 | 105,351.19 |  | 90,520 |  | 84,848 |  | 23,664 |  | 3.84 |  | 6,162 |  |
| 2001 | 75,477.96 |  | 63,520 |  | 59,540 |  | 18,202 |  | 3.86 |  | 4,716 |  |
| 2002 | 4,150.93 |  | 3,466 |  | 3,249 |  | 1,027 |  | 3.86 |  | 266 |  |
| 2003 | 227,155.95 |  | 187,914 |  | 176,139 |  | 57,831 |  | 3.87 |  | 14,943 |  |
| 2004 | 556,708.64 |  | 456,119 |  | 427,539 |  | 145,871 |  | 3.87 |  | 37,693 |  |
| 2005 | 48,711.24 |  | 39,453 |  | 36,981 |  | 13,192 |  | 3.88 |  | 3,400 |  |
| 2006 | 250,371.54 |  | 200,344 |  | 187,790 |  | 70,092 |  | 3.88 |  | 18,065 |  |
| 2007 | 1,184,173.37 |  | 934,789 |  | 876,215 |  | 343,484 |  | 3.88 |  | 88,527 |  |
| 2008 | 156,106.77 |  | 121,253 |  | 113,655 |  | 47,135 |  | 3.89 |  | 12,117 |  |
| 2009 | 210,587.11 |  | 160,692 |  | 150,623 |  | 66,282 |  | 3.89 |  | 17,039 |  |
| 2010 | 14,412.93 |  | 10,776 |  | 10,101 |  | 4,745 |  | 3.89 |  | 1,220 |  |
| 2011 | 2,719,313.68 |  | 1,985,357 |  | 1,860,954 |  | 939,939 |  | 3.89 |  | 241,630 |  |
| 2012 | 242,672.21 |  | 172,030 |  | 161,251 |  | 88,702 |  | 3.90 |  | 22,744 |  |
| 2018 | 1,414,746.29 |  | 665,848 |  | 624,126 |  | 833,063 |  | 3.91 |  | 213,060 |  |
| 2020 | 7,404.73 |  | 2,042 |  | 1,914 |  | 5,713 |  | 3.91 |  | 1,461 |  |
| 2021 | 347,307.53 |  | 38,298 |  | 35,898 |  | 321,829 |  | 3.92 |  | 82,099 |  |
|  | | | | | | | | | | | | |
|  | 15,714,353.74 |  | 12,486,004 |  | 11,703,630 |  | 4,482,154 |  |  | | 1,166,375 |  |

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| COLSTRIP 4 - IDAHO | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 37-R0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2027 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1986 | 2,246,229.84 |  | 1,925,069 |  | 1,785,836 |  | 550,243 |  | 5.44 |  | 101,148 |  |
| 1987 | 7,819.65 |  | 6,676 |  | 6,193 |  | 1,939 |  | 5.46 |  | 355 |  |
| 1989 | 10,722.89 |  | 9,075 |  | 8,419 |  | 2,733 |  | 5.50 |  | 497 |  |
| 1990 | 2,312.84 |  | 1,948 |  | 1,807 |  | 598 |  | 5.52 |  | 108 |  |
| 1991 | 12,644.80 |  | 10,596 |  | 9,830 |  | 3,321 |  | 5.54 |  | 599 |  |
| 1992 | 17,943.27 |  | 14,954 |  | 13,872 |  | 4,789 |  | 5.56 |  | 861 |  |
| 1993 | 67,419.97 |  | 55,884 |  | 51,842 |  | 18,275 |  | 5.57 |  | 3,281 |  |
| 1994 | 34,990.95 |  | 28,823 |  | 26,738 |  | 9,652 |  | 5.59 |  | 1,727 |  |
| 1995 | 212,335.95 |  | 173,808 |  | 161,237 |  | 59,592 |  | 5.60 |  | 10,641 |  |
| 1996 | 284,231.12 |  | 230,958 |  | 214,254 |  | 81,347 |  | 5.62 |  | 14,475 |  |
| 1997 | 157,887.93 |  | 127,358 |  | 118,147 |  | 46,057 |  | 5.63 |  | 8,181 |  |
| 1998 | 39,787.92 |  | 31,838 |  | 29,535 |  | 11,844 |  | 5.64 |  | 2,100 |  |
| 1999 | 15,223.48 |  | 12,070 |  | 11,197 |  | 4,635 |  | 5.66 |  | 819 |  |
| 2000 | 97,286.80 |  | 76,408 |  | 70,882 |  | 30,297 |  | 5.67 |  | 5,343 |  |
| 2001 | 82,946.46 |  | 64,477 |  | 59,814 |  | 26,451 |  | 5.68 |  | 4,657 |  |
| 2002 | 34,525.29 |  | 26,539 |  | 24,620 |  | 11,287 |  | 5.69 |  | 1,984 |  |
| 2003 | 130,997.18 |  | 99,434 |  | 92,242 |  | 43,995 |  | 5.70 |  | 7,718 |  |
| 2004 | 11,870.33 |  | 8,888 |  | 8,245 |  | 4,100 |  | 5.71 |  | 718 |  |
| 2005 | 168,447.85 |  | 124,215 |  | 115,231 |  | 59,955 |  | 5.72 |  | 10,482 |  |
| 2006 | 152,006.43 |  | 110,210 |  | 102,239 |  | 55,848 |  | 5.73 |  | 9,747 |  |
| 2007 | 51,629.53 |  | 36,752 |  | 34,094 |  | 19,601 |  | 5.73 |  | 3,421 |  |
| 2008 | 70,826.31 |  | 49,347 |  | 45,778 |  | 27,881 |  | 5.74 |  | 4,857 |  |
| 2009 | 420,748.38 |  | 286,097 |  | 265,405 |  | 172,174 |  | 5.75 |  | 29,943 |  |
| 2010 | 6,926.53 |  | 4,585 |  | 4,253 |  | 2,950 |  | 5.75 |  | 513 |  |
| 2011 | 9,598.83 |  | 6,152 |  | 5,707 |  | 4,276 |  | 5.76 |  | 742 |  |
| 2012 | 7,955.58 |  | 4,915 |  | 4,560 |  | 3,714 |  | 5.76 |  | 645 |  |
| 2014 | 184,355.97 |  | 103,145 |  | 95,685 |  | 96,045 |  | 5.78 |  | 16,617 |  |
| 2017 | 664,605.90 |  | 287,355 |  | 266,572 |  | 424,618 |  | 5.79 |  | 73,336 |  |
| 2020 | 3,919.23 |  | 793 |  | 736 |  | 3,340 |  | 5.80 |  | 576 |  |
| 2021 | 809,903.70 |  | 63,038 |  | 58,479 |  | 783,821 |  | 5.81 |  | 134,909 |  |
|  | | | | | | | | | | | | |
|  | 6,018,100.91 |  | 3,981,407 |  | 3,693,446 |  | 2,565,379 |  |  | | 451,000 |  |

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| COLSTRIP 4 - WASHINGTON | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 37-R0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2025 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1986 | 4,236,395.97 |  | 3,855,297 |  | 3,166,818 |  | 1,239,034 |  | 3.75 |  | 330,409 |  |
| 1987 | 14,747.89 |  | 13,385 |  | 10,995 |  | 4,343 |  | 3.76 |  | 1,155 |  |
| 1989 | 20,223.40 |  | 18,245 |  | 14,987 |  | 6,046 |  | 3.78 |  | 1,599 |  |
| 1990 | 4,362.01 |  | 3,922 |  | 3,222 |  | 1,315 |  | 3.79 |  | 347 |  |
| 1991 | 23,848.14 |  | 21,367 |  | 17,551 |  | 7,251 |  | 3.80 |  | 1,908 |  |
| 1992 | 33,841.07 |  | 30,219 |  | 24,822 |  | 10,372 |  | 3.80 |  | 2,729 |  |
| 1993 | 127,154.27 |  | 113,083 |  | 92,889 |  | 39,352 |  | 3.81 |  | 10,329 |  |
| 1994 | 65,993.04 |  | 58,431 |  | 47,996 |  | 20,636 |  | 3.82 |  | 5,402 |  |
| 1995 | 400,466.22 |  | 352,908 |  | 289,886 |  | 126,599 |  | 3.83 |  | 33,055 |  |
| 1996 | 536,060.71 |  | 470,209 |  | 386,239 |  | 171,264 |  | 3.83 |  | 44,716 |  |
| 1997 | 297,777.09 |  | 259,763 |  | 213,375 |  | 96,314 |  | 3.84 |  | 25,082 |  |
| 1998 | 75,040.13 |  | 65,102 |  | 53,476 |  | 24,566 |  | 3.84 |  | 6,397 |  |
| 1999 | 28,711.54 |  | 24,748 |  | 20,329 |  | 9,532 |  | 3.85 |  | 2,476 |  |
| 2000 | 183,483.20 |  | 157,139 |  | 129,077 |  | 61,745 |  | 3.85 |  | 16,038 |  |
| 2001 | 156,437.26 |  | 132,931 |  | 109,192 |  | 53,503 |  | 3.86 |  | 13,861 |  |
| 2002 | 65,114.81 |  | 54,899 |  | 45,095 |  | 22,624 |  | 3.86 |  | 5,861 |  |
| 2003 | 247,061.07 |  | 206,364 |  | 169,512 |  | 87,432 |  | 3.87 |  | 22,592 |  |
| 2004 | 22,387.49 |  | 18,520 |  | 15,213 |  | 8,070 |  | 3.87 |  | 2,085 |  |
| 2005 | 317,693.15 |  | 259,807 |  | 213,411 |  | 116,990 |  | 3.88 |  | 30,152 |  |
| 2006 | 286,684.57 |  | 231,628 |  | 190,264 |  | 107,888 |  | 3.88 |  | 27,806 |  |
| 2007 | 97,373.47 |  | 77,613 |  | 63,753 |  | 37,516 |  | 3.88 |  | 9,669 |  |
| 2008 | 133,578.69 |  | 104,762 |  | 86,054 |  | 52,868 |  | 3.89 |  | 13,591 |  |
| 2009 | 793,532.62 |  | 611,396 |  | 502,213 |  | 323,061 |  | 3.89 |  | 83,049 |  |
| 2010 | 13,063.47 |  | 9,862 |  | 8,101 |  | 5,485 |  | 3.89 |  | 1,410 |  |
| 2011 | 18,103.41 |  | 13,346 |  | 10,963 |  | 7,865 |  | 3.89 |  | 2,022 |  |
| 2012 | 15,004.22 |  | 10,740 |  | 8,822 |  | 6,782 |  | 3.90 |  | 1,739 |  |
| 2014 | 347,695.88 |  | 230,902 |  | 189,668 |  | 171,936 |  | 3.90 |  | 44,086 |  |
| 2017 | 1,253,448.65 |  | 675,871 |  | 555,174 |  | 748,413 |  | 3.91 |  | 191,410 |  |
| 2020 | 7,404.73 |  | 2,062 |  | 1,694 |  | 6,007 |  | 3.91 |  | 1,536 |  |
| 2021 | 1,538,363.36 |  | 171,285 |  | 140,697 |  | 1,459,201 |  | 3.92 |  | 372,245 |  |
|  | | | | | | | | | | | | |
|  | 11,361,051.53 |  | 8,255,806 |  | 6,781,484 |  | 5,034,010 |  |  | | 1,304,756 |  |
|  | | | | | | | | | | | | |
|  | 60,056,403.26 |  | 40,416,867 |  | 40,916,707 |  | 21,487,822 |  |  | | 3,798,937 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.7 6.33 | | | | | | | | | | | |

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| KETTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-S1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2038 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -5 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1983 | 5,991,076.91 |  | 4,394,257 |  | 4,652,762 |  | 1,637,868 |  | 13.40 |  | 122,229 |  |
| 1984 | 446,300.13 |  | 324,858 |  | 343,969 |  | 124,646 |  | 13.51 |  | 9,226 |  |
| 1985 | 647,237.29 |  | 467,197 |  | 494,681 |  | 184,918 |  | 13.63 |  | 13,567 |  |
| 1986 | 13,182.92 |  | 9,436 |  | 9,991 |  | 3,851 |  | 13.74 |  | 280 |  |
| 1994 | 70,641.79 |  | 46,408 |  | 49,138 |  | 25,036 |  | 14.58 |  | 1,717 |  |
| 1995 | 35,183.22 |  | 22,798 |  | 24,139 |  | 12,803 |  | 14.68 |  | 872 |  |
| 2003 | 49,245.22 |  | 27,412 |  | 29,025 |  | 22,683 |  | 15.44 |  | 1,469 |  |
| 2008 | 90,296.04 |  | 42,768 |  | 45,284 |  | 49,527 |  | 15.88 |  | 3,119 |  |
| 2009 | 537,541.47 |  | 243,846 |  | 258,191 |  | 306,228 |  | 15.96 |  | 19,187 |  |
| 2012 | 375,685.56 |  | 144,005 |  | 152,477 |  | 241,993 |  | 16.21 |  | 14,929 |  |
| 2013 | 619,791.06 |  | 221,148 |  | 234,158 |  | 416,623 |  | 16.28 |  | 25,591 |  |
| 2014 | 115,327.43 |  | 37,750 |  | 39,971 |  | 81,123 |  | 16.36 |  | 4,959 |  |
| 2015 | 1,070,017.13 |  | 316,371 |  | 334,982 |  | 788,536 |  | 16.43 |  | 47,994 |  |
| 2016 | 642,330.05 |  | 167,998 |  | 177,881 |  | 496,566 |  | 16.49 |  | 30,113 |  |
| 2017 | 993,010.90 |  | 222,014 |  | 235,075 |  | 807,587 |  | 16.56 |  | 48,767 |  |
| 2018 | 398,203.85 |  | 72,564 |  | 76,833 |  | 341,281 |  | 16.62 |  | 20,534 |  |
| 2020 | 283,713.26 |  | 24,511 |  | 25,953 |  | 271,946 |  | 16.73 |  | 16,255 |  |
| 2021 | 217,264.78 |  | 6,602 |  | 6,990 |  | 221,138 |  | 16.78 |  | 13,179 |  |
|  | | | | | | | | | | | | |
|  | 12,596,049.01 |  | 6,791,943 |  | 7,191,500 |  | 6,034,352 |  |  | | 393,987 |  |

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| COLSTRIP 3 AND COMMON - IDAHO | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-S1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2027 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1984 | 2,668,969.62 |  | 2,348,944 |  | 2,397,769 |  | 351,270 |  | 5.58 |  | 62,952 |  |
| 1985 | 789.12 |  | 692 |  | 706 |  | 106 |  | 5.60 |  | 19 |  |
| 1986 | 80,025.11 |  | 69,952 |  | 71,406 |  | 11,020 |  | 5.61 |  | 1,964 |  |
| 1987 | 4,792.76 |  | 4,173 |  | 4,260 |  | 677 |  | 5.63 |  | 120 |  |
| 1988 | 4,949.88 |  | 4,294 |  | 4,383 |  | 715 |  | 5.64 |  | 127 |  |
| 1990 | 1,552.00 |  | 1,335 |  | 1,363 |  | 236 |  | 5.67 |  | 42 |  |
| 1991 | 2,403.91 |  | 2,057 |  | 2,100 |  | 376 |  | 5.69 |  | 66 |  |
| 1992 | 206.87 |  | 176 |  | 180 |  | 33 |  | 5.70 |  | 6 |  |
| 1993 | 5,465.68 |  | 4,627 |  | 4,723 |  | 906 |  | 5.72 |  | 158 |  |
| 1994 | 1,507.06 |  | 1,268 |  | 1,294 |  | 258 |  | 5.73 |  | 45 |  |
| 1995 | 466.71 |  | 390 |  | 398 |  | 83 |  | 5.74 |  | 14 |  |
| 1996 | 1,053.20 |  | 875 |  | 893 |  | 192 |  | 5.76 |  | 33 |  |
| 1997 | 2,437.61 |  | 2,010 |  | 2,052 |  | 459 |  | 5.77 |  | 80 |  |
| 1998 | 6,026.67 |  | 4,931 |  | 5,033 |  | 1,174 |  | 5.78 |  | 203 |  |
| 1999 | 1,703.27 |  | 1,382 |  | 1,411 |  | 344 |  | 5.79 |  | 59 |  |
| 2000 | 45.25 |  | 36 |  | 37 |  | 10 |  | 5.81 |  | 2 |  |
| 2004 | 54,527.29 |  | 41,797 |  | 42,666 |  | 13,497 |  | 5.85 |  | 2,307 |  |
| 2005 | 113,625.33 |  | 85,804 |  | 87,588 |  | 29,447 |  | 5.86 |  | 5,025 |  |
| 2006 | 274,453.29 |  | 203,684 |  | 207,918 |  | 74,769 |  | 5.88 |  | 12,716 |  |
| 2007 | 17,996.86 |  | 13,108 |  | 13,380 |  | 5,156 |  | 5.89 |  | 875 |  |
| 2009 | 1,860.71 |  | 1,295 |  | 1,322 |  | 595 |  | 5.91 |  | 101 |  |
| 2010 | 1,182.95 |  | 801 |  | 818 |  | 401 |  | 5.92 |  | 68 |  |
| 2011 | 58,164.95 |  | 38,141 |  | 38,934 |  | 20,976 |  | 5.93 |  | 3,537 |  |
| 2017 | 43,273.52 |  | 19,157 |  | 19,555 |  | 25,017 |  | 5.97 |  | 4,190 |  |
| 2018 | 94,189.79 |  | 35,818 |  | 36,563 |  | 60,453 |  | 5.98 |  | 10,109 |  |
| 2019 | 35,160.73 |  | 10,634 |  | 10,855 |  | 25,361 |  | 5.99 |  | 4,234 |  |
| 2020 | 37,264.40 |  | 7,687 |  | 7,847 |  | 30,536 |  | 5.99 |  | 5,098 |  |
| 2021 | 361,845.77 |  | 28,713 |  | 29,310 |  | 343,391 |  | 5.99 |  | 57,327 |  |
|  | | | | | | | | | | | | |
|  | 3,875,940.31 |  | 2,933,781 |  | 2,994,762 |  | 997,457 |  |  | | 171,477 |  |

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| COLSTRIP 3 AND COMMON - WASHINGTON | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-S1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2025 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1984 | 5,033,684.40 |  | 4,650,412 |  | 4,576,390 |  | 608,305 |  | 3.82 |  | 159,242 |  |
| 1985 | 1,488.10 |  | 1,372 |  | 1,350 |  | 183 |  | 3.82 |  | 48 |  |
| 1986 | 150,927.58 |  | 138,797 |  | 136,588 |  | 18,868 |  | 3.83 |  | 4,926 |  |
| 1987 | 9,039.15 |  | 8,290 |  | 8,158 |  | 1,152 |  | 3.84 |  | 300 |  |
| 1988 | 9,335.49 |  | 8,540 |  | 8,404 |  | 1,211 |  | 3.84 |  | 315 |  |
| 1990 | 2,927.09 |  | 2,661 |  | 2,619 |  | 396 |  | 3.86 |  | 103 |  |
| 1991 | 4,533.79 |  | 4,108 |  | 4,043 |  | 627 |  | 3.86 |  | 162 |  |
| 1992 | 390.17 |  | 352 |  | 346 |  | 55 |  | 3.87 |  | 14 |  |
| 1993 | 10,308.30 |  | 9,269 |  | 9,121 |  | 1,496 |  | 3.88 |  | 386 |  |
| 1994 | 2,842.33 |  | 2,546 |  | 2,505 |  | 422 |  | 3.88 |  | 109 |  |
| 1995 | 880.22 |  | 785 |  | 773 |  | 134 |  | 3.89 |  | 34 |  |
| 1996 | 1,986.33 |  | 1,763 |  | 1,735 |  | 311 |  | 3.89 |  | 80 |  |
| 1997 | 4,597.33 |  | 4,058 |  | 3,993 |  | 742 |  | 3.90 |  | 190 |  |
| 1998 | 11,366.32 |  | 9,973 |  | 9,814 |  | 1,893 |  | 3.91 |  | 484 |  |
| 1999 | 3,212.38 |  | 2,802 |  | 2,757 |  | 551 |  | 3.91 |  | 141 |  |
| 2000 | 85.33 |  | 74 |  | 73 |  | 15 |  | 3.92 |  | 4 |  |
| 2004 | 102,838.63 |  | 86,089 |  | 84,719 |  | 21,205 |  | 3.94 |  | 5,382 |  |
| 2005 | 214,297.67 |  | 177,482 |  | 174,657 |  | 46,070 |  | 3.94 |  | 11,693 |  |
| 2006 | 517,619.71 |  | 423,293 |  | 416,555 |  | 116,593 |  | 3.95 |  | 29,517 |  |
| 2007 | 33,942.14 |  | 27,385 |  | 26,949 |  | 8,011 |  | 3.95 |  | 2,028 |  |
| 2009 | 3,509.29 |  | 2,737 |  | 2,693 |  | 921 |  | 3.96 |  | 233 |  |
| 2010 | 2,231.05 |  | 1,704 |  | 1,677 |  | 621 |  | 3.97 |  | 156 |  |
| 2011 | 109,699.24 |  | 81,817 |  | 80,515 |  | 32,476 |  | 3.97 |  | 8,180 |  |
| 2018 | 198,133.54 |  | 95,363 |  | 93,845 |  | 110,232 |  | 3.99 |  | 27,627 |  |
| 2019 | 193,749.46 |  | 76,566 |  | 75,347 |  | 124,215 |  | 4.00 |  | 31,054 |  |
| 2020 | 70,405.05 |  | 19,778 |  | 19,463 |  | 53,054 |  | 4.00 |  | 13,264 |  |
| 2021 | 689,214.03 |  | 78,876 |  | 77,621 |  | 632,270 |  | 4.00 |  | 158,068 |  |
|  | | | | | | | | | | | | |
|  | 7,383,244.12 |  | 5,916,892 |  | 5,822,711 |  | 1,782,030 |  |  | | 453,740 |  |

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| COLSTRIP 4 - IDAHO | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-S1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2027 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1986 | 1,835,308.81 |  | 1,619,855 |  | 1,581,168 |  | 327,553 |  | 5.61 |  | 58,387 |  |
| 1987 | 5,420.35 |  | 4,765 |  | 4,651 |  | 986 |  | 5.63 |  | 175 |  |
| 1989 | 1,968.92 |  | 1,717 |  | 1,676 |  | 372 |  | 5.66 |  | 66 |  |
| 1990 | 1,754.79 |  | 1,524 |  | 1,488 |  | 337 |  | 5.67 |  | 59 |  |
| 1991 | 2,403.91 |  | 2,077 |  | 2,027 |  | 473 |  | 5.69 |  | 83 |  |
| 1992 | 213.95 |  | 184 |  | 180 |  | 43 |  | 5.70 |  | 8 |  |
| 1993 | 877.93 |  | 750 |  | 732 |  | 181 |  | 5.72 |  | 32 |  |
| 1994 | 3,049.83 |  | 2,592 |  | 2,530 |  | 642 |  | 5.73 |  | 112 |  |
| 1995 | 1,295.97 |  | 1,094 |  | 1,068 |  | 280 |  | 5.74 |  | 49 |  |
| 1996 | 1,053.19 |  | 883 |  | 862 |  | 233 |  | 5.76 |  | 40 |  |
| 1997 | 390.53 |  | 325 |  | 317 |  | 89 |  | 5.77 |  | 15 |  |
| 1998 | 5,999.51 |  | 4,956 |  | 4,838 |  | 1,402 |  | 5.78 |  | 243 |  |
| 1999 | 1,703.28 |  | 1,395 |  | 1,362 |  | 410 |  | 5.79 |  | 71 |  |
| 2000 | 45.25 |  | 37 |  | 36 |  | 11 |  | 5.81 |  | 2 |  |
| 2004 | 54,527.29 |  | 42,203 |  | 41,195 |  | 15,513 |  | 5.85 |  | 2,652 |  |
| 2005 | 111,192.54 |  | 84,782 |  | 82,757 |  | 32,883 |  | 5.86 |  | 5,611 |  |
| 2006 | 271,250.60 |  | 203,262 |  | 198,407 |  | 83,693 |  | 5.88 |  | 14,234 |  |
| 2007 | 6,403.73 |  | 4,709 |  | 4,597 |  | 2,063 |  | 5.89 |  | 350 |  |
| 2009 | 6,120.75 |  | 4,302 |  | 4,199 |  | 2,166 |  | 5.91 |  | 366 |  |
| 2017 | 71,865.81 |  | 32,123 |  | 31,356 |  | 43,385 |  | 5.97 |  | 7,267 |  |
| 2018 | 90,701.75 |  | 34,827 |  | 33,995 |  | 60,335 |  | 5.98 |  | 10,089 |  |
| 2019 | 35,160.91 |  | 10,737 |  | 10,481 |  | 26,087 |  | 5.99 |  | 4,355 |  |
| 2020 | 36,369.14 |  | 7,575 |  | 7,394 |  | 30,430 |  | 5.99 |  | 5,080 |  |
| 2021 | 132,678.18 |  | 10,630 |  | 10,376 |  | 127,609 |  | 5.99 |  | 21,304 |  |
|  | | | | | | | | | | | | |
|  | 2,677,756.92 |  | 2,077,304 |  | 2,027,692 |  | 757,176 |  |  | | 130,650 |  |

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| COLSTRIP 4 - WASHINGTON | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-S1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2025 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1986 | 3,461,397.71 |  | 3,214,093 |  | 2,989,707 |  | 610,147 |  | 3.83 |  | 159,307 |  |
| 1987 | 10,222.81 |  | 9,467 |  | 8,806 |  | 1,826 |  | 3.84 |  | 476 |  |
| 1989 | 3,713.39 |  | 3,420 |  | 3,181 |  | 681 |  | 3.85 |  | 177 |  |
| 1990 | 3,309.55 |  | 3,038 |  | 2,826 |  | 616 |  | 3.86 |  | 160 |  |
| 1991 | 4,533.79 |  | 4,148 |  | 3,858 |  | 857 |  | 3.86 |  | 222 |  |
| 1992 | 403.51 |  | 368 |  | 342 |  | 77 |  | 3.87 |  | 20 |  |
| 1993 | 1,655.77 |  | 1,503 |  | 1,398 |  | 324 |  | 3.88 |  | 84 |  |
| 1994 | 5,751.98 |  | 5,202 |  | 4,839 |  | 1,143 |  | 3.88 |  | 295 |  |
| 1995 | 2,444.20 |  | 2,200 |  | 2,046 |  | 496 |  | 3.89 |  | 128 |  |
| 1996 | 1,986.33 |  | 1,780 |  | 1,656 |  | 410 |  | 3.89 |  | 105 |  |
| 1997 | 736.55 |  | 656 |  | 610 |  | 156 |  | 3.90 |  | 40 |  |
| 1998 | 11,315.10 |  | 10,025 |  | 9,325 |  | 2,443 |  | 3.91 |  | 625 |  |
| 1999 | 3,212.38 |  | 2,829 |  | 2,631 |  | 709 |  | 3.91 |  | 181 |  |
| 2000 | 85.33 |  | 75 |  | 70 |  | 19 |  | 3.92 |  | 5 |  |
| 2004 | 102,838.62 |  | 86,924 |  | 80,856 |  | 26,097 |  | 3.94 |  | 6,624 |  |
| 2005 | 209,709.46 |  | 175,368 |  | 163,125 |  | 54,973 |  | 3.94 |  | 13,953 |  |
| 2006 | 511,579.40 |  | 422,415 |  | 392,925 |  | 139,118 |  | 3.95 |  | 35,220 |  |
| 2007 | 12,077.27 |  | 9,839 |  | 9,152 |  | 3,408 |  | 3.95 |  | 863 |  |
| 2009 | 11,543.75 |  | 9,092 |  | 8,457 |  | 3,548 |  | 3.96 |  | 896 |  |
| 2017 | 135,539.13 |  | 74,636 |  | 69,425 |  | 71,535 |  | 3.99 |  | 17,929 |  |
| 2018 | 109,941.70 |  | 53,430 |  | 49,700 |  | 64,639 |  | 3.99 |  | 16,200 |  |
| 2019 | 61,122.94 |  | 24,389 |  | 22,686 |  | 40,882 |  | 4.00 |  | 10,220 |  |
| 2020 | 68,713.59 |  | 19,490 |  | 18,129 |  | 53,333 |  | 4.00 |  | 13,333 |  |
| 2021 | 252,807.29 |  | 29,213 |  | 27,174 |  | 235,746 |  | 4.00 |  | 58,936 |  |
|  | | | | | | | | | | | | |
|  | 4,986,641.55 |  | 4,163,600 |  | 3,872,925 |  | 1,313,182 |  |  | | 335,999 |  |
|  | | | | | | | | | | | | |
|  | 31,519,631.91 |  | 21,883,520 |  | 21,909,590 |  | 10,884,197 |  |  | | 1,485,853 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.3 4.71 | | | | | | | | | | | |

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| KETTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-R2 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2038 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -5 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1983 | 1,521,902.23 |  | 1,102,394 |  | 1,329,579 |  | 268,419 |  | 15.02 |  | 17,871 |  |
| 1984 | 24,803.23 |  | 17,813 |  | 21,484 |  | 4,559 |  | 15.11 |  | 302 |  |
| 1985 | 392,806.50 |  | 279,655 |  | 337,287 |  | 75,160 |  | 15.19 |  | 4,948 |  |
| 1986 | 16,652.52 |  | 11,746 |  | 14,167 |  | 3,318 |  | 15.27 |  | 217 |  |
| 1990 | 4,207.41 |  | 2,848 |  | 3,435 |  | 983 |  | 15.55 |  | 63 |  |
| 1991 | 9,781.31 |  | 6,544 |  | 7,893 |  | 2,378 |  | 15.62 |  | 152 |  |
| 1997 | 10,314.77 |  | 6,341 |  | 7,648 |  | 3,183 |  | 15.95 |  | 200 |  |
| 2000 | 1,832.00 |  | 1,065 |  | 1,284 |  | 639 |  | 16.09 |  | 40 |  |
| 2001 | 83,497.52 |  | 47,520 |  | 57,313 |  | 30,359 |  | 16.13 |  | 1,882 |  |
| 2002 | 7,641.00 |  | 4,250 |  | 5,126 |  | 2,897 |  | 16.17 |  | 179 |  |
| 2003 | 98,802.29 |  | 53,604 |  | 64,651 |  | 39,092 |  | 16.21 |  | 2,412 |  |
| 2006 | 18,644.01 |  | 9,260 |  | 11,168 |  | 8,408 |  | 16.31 |  | 516 |  |
| 2007 | 9,547.92 |  | 4,574 |  | 5,517 |  | 4,509 |  | 16.35 |  | 276 |  |
| 2008 | 139,153.71 |  | 64,121 |  | 77,335 |  | 68,776 |  | 16.38 |  | 4,199 |  |
| 2009 | 137,372.77 |  | 60,602 |  | 73,091 |  | 71,150 |  | 16.41 |  | 4,336 |  |
|  | | | | | | | | | | | | |
|  | 2,476,959.19 |  | 1,672,337 |  | 2,016,977 |  | 583,830 |  |  | | 37,593 |  |

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| COLSTRIP 3 AND COMMON - IDAHO | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-R2 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2027 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1984 | 1,434,136.73 |  | 1,263,608 |  | 1,377,924 |  | 99,237 |  | 5.79 |  | 17,139 |  |
| 1985 | 304,176.62 |  | 267,027 |  | 291,184 |  | 22,118 |  | 5.80 |  | 3,813 |  |
| 1986 | 959,614.69 |  | 839,164 |  | 915,081 |  | 73,322 |  | 5.81 |  | 12,620 |  |
| 1987 | 56,401.37 |  | 49,120 |  | 53,564 |  | 4,530 |  | 5.82 |  | 778 |  |
| 1988 | 16,198.48 |  | 14,046 |  | 15,317 |  | 1,368 |  | 5.83 |  | 235 |  |
| 1989 | 13,460.70 |  | 11,618 |  | 12,669 |  | 1,195 |  | 5.84 |  | 205 |  |
| 1990 | 12,857.64 |  | 11,047 |  | 12,046 |  | 1,197 |  | 5.84 |  | 205 |  |
| 1991 | 18,821.10 |  | 16,087 |  | 17,542 |  | 1,843 |  | 5.85 |  | 315 |  |
| 1992 | 16,455.53 |  | 13,988 |  | 15,253 |  | 1,696 |  | 5.86 |  | 289 |  |
| 1993 | 8,761.53 |  | 7,403 |  | 8,073 |  | 952 |  | 5.87 |  | 162 |  |
| 1994 | 35,669.80 |  | 29,962 |  | 32,673 |  | 4,067 |  | 5.87 |  | 693 |  |
| 1995 | 14,165.78 |  | 11,819 |  | 12,888 |  | 1,703 |  | 5.88 |  | 290 |  |
| 1996 | 8,177.18 |  | 6,776 |  | 7,389 |  | 1,033 |  | 5.88 |  | 176 |  |
| 1997 | 13,439.82 |  | 11,050 |  | 12,050 |  | 1,793 |  | 5.89 |  | 304 |  |
| 1998 | 9,798.73 |  | 7,992 |  | 8,715 |  | 1,378 |  | 5.89 |  | 234 |  |
| 1999 | 11,440.74 |  | 9,247 |  | 10,084 |  | 1,700 |  | 5.90 |  | 288 |  |
| 2000 | 16,500.68 |  | 13,210 |  | 14,405 |  | 2,591 |  | 5.90 |  | 439 |  |
| 2001 | 7,723.91 |  | 6,118 |  | 6,671 |  | 1,284 |  | 5.91 |  | 217 |  |
| 2002 | 10,074.96 |  | 7,891 |  | 8,605 |  | 1,772 |  | 5.91 |  | 300 |  |
| 2003 | 12,757.24 |  | 9,865 |  | 10,757 |  | 2,382 |  | 5.92 |  | 402 |  |
| 2004 | 11,256.96 |  | 8,587 |  | 9,364 |  | 2,231 |  | 5.92 |  | 377 |  |
| 2005 | 3,819.13 |  | 2,870 |  | 3,130 |  | 804 |  | 5.92 |  | 136 |  |
| 2006 | 22,721.29 |  | 16,779 |  | 18,297 |  | 5,106 |  | 5.93 |  | 861 |  |
| 2007 | 6,723.82 |  | 4,873 |  | 5,314 |  | 1,612 |  | 5.93 |  | 272 |  |
| 2008 | 10,472.96 |  | 7,427 |  | 8,099 |  | 2,688 |  | 5.94 |  | 453 |  |
| 2009 | 9,458.05 |  | 6,548 |  | 7,140 |  | 2,601 |  | 5.94 |  | 438 |  |
| 2010 | 140.68 |  | 95 |  | 104 |  | 41 |  | 5.94 |  | 7 |  |
| 2011 | 6,739.37 |  | 4,398 |  | 4,796 |  | 2,146 |  | 5.94 |  | 361 |  |
| 2012 | 21,245.55 |  | 13,345 |  | 14,552 |  | 7,331 |  | 5.95 |  | 1,232 |  |
| 2016 | 17,503.44 |  | 8,578 |  | 9,354 |  | 8,675 |  | 5.96 |  | 1,456 |  |
| 2017 | 227,295.01 |  | 99,948 |  | 108,990 |  | 125,124 |  | 5.96 |  | 20,994 |  |
| 2018 | 289.62 |  | 110 |  | 120 |  | 178 |  | 5.96 |  | 30 |  |
| 2020 | 3.52 |  | 1 |  | 1 |  | 3 |  | 5.97 |  | 1 |  |
| 2021 | 174,287.75 |  | 13,616 |  | 14,848 |  | 164,669 |  | 5.97 |  | 27,583 |  |
|  | | | | | | | | | | | | |
|  | 3,492,590.38 |  | 2,794,213 |  | 3,046,999 |  | 550,369 |  |  | | 93,305 |  |

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| COLSTRIP 3 AND COMMON - WASHINGTON | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-R2 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2025 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1984 | 2,704,786.00 |  | 2,502,851 |  | 2,524,165 |  | 261,764 |  | 3.91 |  | 66,947 |  |
| 1985 | 573,677.99 |  | 529,572 |  | 534,082 |  | 56,806 |  | 3.91 |  | 14,528 |  |
| 1986 | 1,809,836.08 |  | 1,665,937 |  | 1,680,124 |  | 184,007 |  | 3.92 |  | 46,941 |  |
| 1987 | 106,373.14 |  | 97,650 |  | 98,482 |  | 11,083 |  | 3.92 |  | 2,827 |  |
| 1988 | 30,550.38 |  | 27,956 |  | 28,194 |  | 3,273 |  | 3.93 |  | 833 |  |
| 1989 | 25,386.92 |  | 23,159 |  | 23,356 |  | 2,792 |  | 3.93 |  | 710 |  |
| 1990 | 24,249.55 |  | 22,050 |  | 22,238 |  | 2,739 |  | 3.93 |  | 697 |  |
| 1991 | 35,496.64 |  | 32,154 |  | 32,428 |  | 4,134 |  | 3.94 |  | 1,049 |  |
| 1992 | 31,035.17 |  | 28,008 |  | 28,247 |  | 3,720 |  | 3.94 |  | 944 |  |
| 1993 | 16,524.27 |  | 14,853 |  | 14,979 |  | 2,041 |  | 3.94 |  | 518 |  |
| 1994 | 67,273.34 |  | 60,212 |  | 60,725 |  | 8,567 |  | 3.94 |  | 2,174 |  |
| 1995 | 26,716.70 |  | 23,794 |  | 23,997 |  | 3,522 |  | 3.95 |  | 892 |  |
| 1996 | 15,422.18 |  | 13,668 |  | 13,784 |  | 2,100 |  | 3.95 |  | 532 |  |
| 1997 | 25,347.54 |  | 22,344 |  | 22,534 |  | 3,574 |  | 3.95 |  | 905 |  |
| 1998 | 18,480.42 |  | 16,197 |  | 16,335 |  | 2,700 |  | 3.95 |  | 684 |  |
| 1999 | 21,577.27 |  | 18,784 |  | 18,944 |  | 3,281 |  | 3.96 |  | 829 |  |
| 2000 | 31,120.32 |  | 26,909 |  | 27,138 |  | 4,916 |  | 3.96 |  | 1,241 |  |
| 2001 | 14,567.33 |  | 12,503 |  | 12,609 |  | 2,395 |  | 3.96 |  | 605 |  |
| 2002 | 19,001.39 |  | 16,175 |  | 16,313 |  | 3,259 |  | 3.96 |  | 823 |  |
| 2003 | 24,060.18 |  | 20,299 |  | 20,472 |  | 4,310 |  | 3.96 |  | 1,088 |  |
| 2004 | 21,230.66 |  | 17,724 |  | 17,875 |  | 3,993 |  | 3.97 |  | 1,006 |  |
| 2005 | 7,202.87 |  | 5,947 |  | 5,998 |  | 1,421 |  | 3.97 |  | 358 |  |
| 2006 | 42,852.42 |  | 34,949 |  | 35,247 |  | 8,891 |  | 3.97 |  | 2,240 |  |
| 2007 | 12,681.18 |  | 10,200 |  | 10,287 |  | 2,775 |  | 3.97 |  | 699 |  |
| 2008 | 19,752.04 |  | 15,641 |  | 15,774 |  | 4,570 |  | 3.97 |  | 1,151 |  |
| 2009 | 17,837.95 |  | 13,873 |  | 13,991 |  | 4,382 |  | 3.97 |  | 1,104 |  |
| 2010 | 265.32 |  | 202 |  | 204 |  | 70 |  | 3.97 |  | 18 |  |
| 2011 | 12,710.45 |  | 9,443 |  | 9,523 |  | 3,568 |  | 3.98 |  | 896 |  |
| 2012 | 40,069.18 |  | 28,939 |  | 29,185 |  | 12,086 |  | 3.98 |  | 3,037 |  |
| 2016 | 33,011.55 |  | 19,636 |  | 19,803 |  | 14,199 |  | 3.98 |  | 3,568 |  |
| 2018 | 429,225.25 |  | 205,918 |  | 207,672 |  | 234,430 |  | 3.98 |  | 58,902 |  |
| 2020 | 6.65 |  | 2 |  | 2 |  | 5 |  | 3.99 |  | 1 |  |
| 2021 | 330,910.59 |  | 37,281 |  | 37,598 |  | 303,239 |  | 3.99 |  | 76,000 |  |
|  | | | | | | | | | | | | |
|  | 6,589,238.92 |  | 5,574,830 |  | 5,622,305 |  | 1,164,611 |  |  | | 294,747 |  |

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| COLSTRIP 4 - IDAHO | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-R2 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2027 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1986 | 1,125,701.88 |  | 993,961 |  | 1,036,372 |  | 134,358 |  | 5.81 |  | 23,125 |  |
| 1987 | 35,948.65 |  | 31,612 |  | 32,961 |  | 4,426 |  | 5.82 |  | 760 |  |
| 1988 | 10,093.60 |  | 8,838 |  | 9,215 |  | 1,282 |  | 5.83 |  | 220 |  |
| 1989 | 12,351.05 |  | 10,764 |  | 11,223 |  | 1,622 |  | 5.84 |  | 278 |  |
| 1990 | 13,795.25 |  | 11,968 |  | 12,479 |  | 1,868 |  | 5.84 |  | 320 |  |
| 1991 | 17,897.91 |  | 15,446 |  | 16,105 |  | 2,509 |  | 5.85 |  | 429 |  |
| 1992 | 16,455.53 |  | 14,124 |  | 14,727 |  | 2,387 |  | 5.86 |  | 407 |  |
| 1993 | 13,419.23 |  | 11,449 |  | 11,938 |  | 2,018 |  | 5.87 |  | 344 |  |
| 1994 | 35,352.69 |  | 29,984 |  | 31,263 |  | 5,503 |  | 5.87 |  | 937 |  |
| 1995 | 15,928.99 |  | 13,419 |  | 13,992 |  | 2,575 |  | 5.88 |  | 438 |  |
| 1996 | 8,109.15 |  | 6,784 |  | 7,073 |  | 1,360 |  | 5.88 |  | 231 |  |
| 1997 | 13,443.56 |  | 11,160 |  | 11,636 |  | 2,345 |  | 5.89 |  | 398 |  |
| 1998 | 9,704.98 |  | 7,992 |  | 8,333 |  | 1,760 |  | 5.89 |  | 299 |  |
| 1999 | 11,232.60 |  | 9,166 |  | 9,557 |  | 2,125 |  | 5.90 |  | 360 |  |
| 2000 | 16,506.91 |  | 13,344 |  | 13,913 |  | 3,254 |  | 5.90 |  | 552 |  |
| 2001 | 7,723.91 |  | 6,177 |  | 6,441 |  | 1,592 |  | 5.91 |  | 269 |  |
| 2002 | 10,074.96 |  | 7,968 |  | 8,308 |  | 2,170 |  | 5.91 |  | 367 |  |
| 2003 | 12,757.24 |  | 9,960 |  | 10,385 |  | 2,883 |  | 5.92 |  | 487 |  |
| 2004 | 4,148.45 |  | 3,195 |  | 3,331 |  | 983 |  | 5.92 |  | 166 |  |
| 2005 | 3,819.13 |  | 2,898 |  | 3,022 |  | 950 |  | 5.92 |  | 160 |  |
| 2006 | 22,721.29 |  | 16,942 |  | 17,665 |  | 5,965 |  | 5.93 |  | 1,006 |  |
| 2007 | 6,723.82 |  | 4,920 |  | 5,130 |  | 1,863 |  | 5.93 |  | 314 |  |
| 2008 | 10,472.96 |  | 7,499 |  | 7,819 |  | 3,073 |  | 5.94 |  | 517 |  |
| 2009 | 9,457.96 |  | 6,612 |  | 6,894 |  | 2,942 |  | 5.94 |  | 495 |  |
| 2010 | 140.68 |  | 96 |  | 100 |  | 46 |  | 5.94 |  | 8 |  |
| 2011 | 6,739.37 |  | 4,441 |  | 4,630 |  | 2,378 |  | 5.94 |  | 400 |  |
| 2012 | 10,823.00 |  | 6,864 |  | 7,157 |  | 4,099 |  | 5.95 |  | 689 |  |
| 2016 | 17,414.79 |  | 8,618 |  | 8,986 |  | 9,126 |  | 5.96 |  | 1,531 |  |
| 2017 | 84,814.13 |  | 37,657 |  | 39,264 |  | 48,943 |  | 5.96 |  | 8,212 |  |
| 2018 | 289.62 |  | 111 |  | 116 |  | 185 |  | 5.96 |  | 31 |  |
| 2021 | 10,221.42 |  | 806 |  | 840 |  | 9,790 |  | 5.97 |  | 1,640 |  |
|  | | | | | | | | | | | | |
|  | 1,574,284.71 |  | 1,314,775 |  | 1,370,875 |  | 266,381 |  |  | | 45,390 |  |

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| COLSTRIP 4 - WASHINGTON | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-R2 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2025 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1986 | 2,123,076.99 |  | 1,973,246 |  | 1,883,227 |  | 324,773 |  | 3.92 |  | 82,850 |  |
| 1987 | 67,799.25 |  | 62,844 |  | 59,977 |  | 10,534 |  | 3.92 |  | 2,687 |  |
| 1988 | 19,036.57 |  | 17,589 |  | 16,787 |  | 3,011 |  | 3.93 |  | 766 |  |
| 1989 | 23,294.12 |  | 21,457 |  | 20,478 |  | 3,748 |  | 3.93 |  | 954 |  |
| 1990 | 26,017.87 |  | 23,888 |  | 22,798 |  | 4,260 |  | 3.93 |  | 1,084 |  |
| 1991 | 33,755.52 |  | 30,873 |  | 29,465 |  | 5,641 |  | 3.94 |  | 1,432 |  |
| 1992 | 31,035.17 |  | 28,280 |  | 26,990 |  | 5,287 |  | 3.94 |  | 1,342 |  |
| 1993 | 25,308.70 |  | 22,970 |  | 21,922 |  | 4,399 |  | 3.94 |  | 1,116 |  |
| 1994 | 66,675.27 |  | 60,256 |  | 57,507 |  | 11,835 |  | 3.94 |  | 3,004 |  |
| 1995 | 30,042.13 |  | 27,016 |  | 25,784 |  | 5,460 |  | 3.95 |  | 1,382 |  |
| 1996 | 15,293.88 |  | 13,686 |  | 13,062 |  | 2,844 |  | 3.95 |  | 720 |  |
| 1997 | 25,354.58 |  | 22,567 |  | 21,538 |  | 4,831 |  | 3.95 |  | 1,223 |  |
| 1998 | 18,303.61 |  | 16,197 |  | 15,458 |  | 3,578 |  | 3.95 |  | 906 |  |
| 1999 | 21,184.72 |  | 18,621 |  | 17,772 |  | 4,261 |  | 3.96 |  | 1,076 |  |
| 2000 | 31,132.09 |  | 27,180 |  | 25,940 |  | 6,437 |  | 3.96 |  | 1,626 |  |
| 2001 | 14,567.33 |  | 12,624 |  | 12,048 |  | 3,102 |  | 3.96 |  | 783 |  |
| 2002 | 19,001.39 |  | 16,332 |  | 15,587 |  | 4,175 |  | 3.96 |  | 1,054 |  |
| 2003 | 24,060.18 |  | 20,496 |  | 19,561 |  | 5,462 |  | 3.96 |  | 1,379 |  |
| 2004 | 7,824.00 |  | 6,595 |  | 6,294 |  | 1,843 |  | 3.97 |  | 464 |  |
| 2005 | 7,202.87 |  | 6,005 |  | 5,731 |  | 1,760 |  | 3.97 |  | 443 |  |
| 2006 | 42,852.42 |  | 35,289 |  | 33,679 |  | 10,887 |  | 3.97 |  | 2,742 |  |
| 2007 | 12,681.18 |  | 10,299 |  | 9,829 |  | 3,359 |  | 3.97 |  | 846 |  |
| 2008 | 19,752.04 |  | 15,792 |  | 15,072 |  | 5,471 |  | 3.97 |  | 1,378 |  |
| 2009 | 17,838.04 |  | 14,008 |  | 13,369 |  | 5,183 |  | 3.97 |  | 1,306 |  |
| 2010 | 265.32 |  | 204 |  | 195 |  | 81 |  | 3.97 |  | 20 |  |
| 2011 | 12,710.45 |  | 9,535 |  | 9,100 |  | 4,119 |  | 3.98 |  | 1,035 |  |
| 2012 | 20,412.21 |  | 14,886 |  | 14,207 |  | 7,022 |  | 3.98 |  | 1,764 |  |
| 2016 | 32,844.33 |  | 19,726 |  | 18,826 |  | 15,332 |  | 3.98 |  | 3,852 |  |
| 2017 | 159,959.70 |  | 87,817 |  | 83,811 |  | 82,547 |  | 3.98 |  | 20,740 |  |
| 2018 | 546.21 |  | 265 |  | 253 |  | 315 |  | 3.98 |  | 79 |  |
| 2021 | 18,870.62 |  | 2,147 |  | 2,049 |  | 17,576 |  | 3.99 |  | 4,405 |  |
|  | | | | | | | | | | | | |
|  | 2,968,698.76 |  | 2,638,690 |  | 2,518,314 |  | 569,133 |  |  | | 144,458 |  |
|  | | | | | | | | | | | | |
|  | 17,101,771.96 |  | 13,994,845 |  | 14,575,471 |  | 3,134,324 |  |  | | 615,493 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.1 3.60 | | | | | | | | | | | |

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| LITTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. SQUARE | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2059 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1995 | 1,700,000.00 |  | 901,000 |  | 907,486 |  | 792,514 |  | 23.50 |  | 33,724 |  |
| 1996 | 1,000,000.00 |  | 510,000 |  | 513,671 |  | 486,329 |  | 24.50 |  | 19,850 |  |
| 1998 | 302,000.00 |  | 141,940 |  | 142,962 |  | 159,038 |  | 26.50 |  | 6,001 |  |
| 1999 | 1,198,000.00 |  | 539,100 |  | 542,981 |  | 655,019 |  | 27.50 |  | 23,819 |  |
|  | | | | | | | | | | | | |
|  | 4,200,000.00 |  | 2,092,040 |  | 2,107,100 |  | 2,092,900 |  |  | | 83,394 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 25.1 1.99 | | | | | | | | | | | |

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| LITTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 100-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2059 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1926 | 5,741.60 |  | 4,781 |  | 4,539 |  | 1,202 |  | 16.72 |  | 72 |  |
| 1927 | 5,348.00 |  | 4,425 |  | 4,201 |  | 1,147 |  | 17.23 |  | 67 |  |
| 1931 | 260.00 |  | 210 |  | 199 |  | 61 |  | 19.34 |  | 3 |  |
| 1932 | 2,284.00 |  | 1,828 |  | 1,736 |  | 548 |  | 19.88 |  | 28 |  |
|  | | | | | | | | | | | | |
|  | 13,633.60 |  | 11,244 |  | 10,676 |  | 2,958 |  |  | | 170 |  |

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| LONG LAKE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 100-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2055 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1949 | 146,645.53 |  | 105,375 |  | 94,018 |  | 52,628 |  | 26.75 |  | 1,967 |  |
| 1950 | 19,045.80 |  | 13,595 |  | 12,130 |  | 6,916 |  | 27.08 |  | 255 |  |
| 1951 | 1,650.37 |  | 1,170 |  | 1,044 |  | 606 |  | 27.40 |  | 22 |  |
| 1952 | 942.98 |  | 664 |  | 592 |  | 351 |  | 27.71 |  | 13 |  |
| 1953 | 347.99 |  | 243 |  | 217 |  | 131 |  | 28.00 |  | 5 |  |
| 1962 | 2,446.88 |  | 1,607 |  | 1,434 |  | 1,013 |  | 30.16 |  | 34 |  |
|  | | | | | | | | | | | | |
|  | 171,079.55 |  | 122,654 |  | 109,434 |  | 61,645 |  |  | | 2,296 |  |

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| SPOKANE UPPER FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 100-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1922 | 41,747.26 |  | 35,559 |  | 36,559 |  | 5,189 |  | 14.82 |  | 350 |  |
| 1923 | 1,343.00 |  | 1,138 |  | 1,170 |  | 173 |  | 15.29 |  | 11 |  |
| 1924 | 776.00 |  | 654 |  | 672 |  | 104 |  | 15.77 |  | 7 |  |
| 1925 | 8,152.00 |  | 6,826 |  | 7,018 |  | 1,134 |  | 16.26 |  | 70 |  |
| 1926 | 1,929.00 |  | 1,605 |  | 1,650 |  | 279 |  | 16.76 |  | 17 |  |
| 1933 | 9,616.50 |  | 7,636 |  | 7,851 |  | 1,766 |  | 20.52 |  | 86 |  |
|  | | | | | | | | | | | | |
|  | 63,563.76 |  | 53,418 |  | 54,920 |  | 8,644 |  |  | | 541 |  |

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| NINE MILE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 100-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1925 | 3,500.00 |  | 2,931 |  | 3,500 |  |  |  |  |  |  |  |
| 1990 | 6,436.75 |  | 2,912 |  | 4,247 |  | 2,190 |  | 37.95 |  | 58 |  |
|  | | | | | | | | | | | | |
|  | 9,936.75 |  | 5,843 |  | 7,747 |  | 2,190 |  |  | | 58 |  |

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| POST FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 100-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1906 | 106.36 |  | 97 |  | 92 |  | 14 |  | 8.95 |  | 2 |  |
| 1907 | 129.18 |  | 117 |  | 111 |  | 18 |  | 9.25 |  | 2 |  |
| 1908 | 2,569.44 |  | 2,324 |  | 2,214 |  | 356 |  | 9.55 |  | 37 |  |
| 1909 | 2,750.84 |  | 2,479 |  | 2,361 |  | 390 |  | 9.87 |  | 40 |  |
| 1910 | 1,802.90 |  | 1,619 |  | 1,542 |  | 261 |  | 10.19 |  | 26 |  |
| 1911 | 1,462.48 |  | 1,309 |  | 1,247 |  | 216 |  | 10.51 |  | 21 |  |
| 1912 | 2,790.82 |  | 2,488 |  | 2,370 |  | 421 |  | 10.85 |  | 39 |  |
| 1913 | 362.92 |  | 322 |  | 307 |  | 56 |  | 11.20 |  | 5 |  |
| 1914 | 246.62 |  | 218 |  | 208 |  | 39 |  | 11.55 |  | 3 |  |
| 1915 | 59.58 |  | 52 |  | 50 |  | 10 |  | 11.92 |  | 1 |  |
| 1916 | 70.64 |  | 62 |  | 59 |  | 12 |  | 12.30 |  | 1 |  |
| 1917 | 43.56 |  | 38 |  | 36 |  | 7 |  | 12.69 |  | 1 |  |
| 1918 | 660.71 |  | 574 |  | 547 |  | 114 |  | 13.09 |  | 9 |  |
| 1920 | 26.65 |  | 23 |  | 22 |  | 5 |  | 13.93 |  |  |  |
| 1921 | 244.93 |  | 210 |  | 200 |  | 45 |  | 14.37 |  | 3 |  |
| 1922 | 130.36 |  | 111 |  | 106 |  | 25 |  | 14.82 |  | 2 |  |
| 1923 | 108.22 |  | 92 |  | 88 |  | 21 |  | 15.29 |  | 1 |  |
| 1924 | 3.29 |  | 3 |  | 3 |  |  |  |  |  |  |  |
| 1925 | 12.90 |  | 11 |  | 10 |  | 2 |  | 16.26 |  |  |  |
| 1926 | 78.00 |  | 65 |  | 62 |  | 16 |  | 16.76 |  | 1 |  |
| 1927 | 43.10 |  | 36 |  | 34 |  | 9 |  | 17.27 |  | 1 |  |
| 1928 | 136.20 |  | 112 |  | 107 |  | 30 |  | 17.79 |  | 2 |  |
| 1929 | 166.23 |  | 136 |  | 130 |  | 37 |  | 18.33 |  | 2 |  |
| 1930 | 21.00 |  | 17 |  | 16 |  | 5 |  | 18.87 |  |  |  |
| 1931 | 7.69 |  | 6 |  | 6 |  | 2 |  | 19.41 |  |  |  |
| 1932 | 2.85 |  | 2 |  | 2 |  | 1 |  | 19.97 |  |  |  |
| 1933 | 10.14 |  | 8 |  | 8 |  | 3 |  | 20.52 |  |  |  |
| 1934 | 19.77 |  | 16 |  | 15 |  | 5 |  | 21.08 |  |  |  |
| 1939 | 7.43 |  | 6 |  | 6 |  | 2 |  | 23.83 |  |  |  |
| 1942 | 1,872.11 |  | 1,390 |  | 1,324 |  | 548 |  | 25.40 |  | 22 |  |
| 1943 | 24.98 |  | 18 |  | 17 |  | 8 |  | 25.91 |  |  |  |
| 1944 | 15.37 |  | 11 |  | 10 |  | 5 |  | 26.41 |  |  |  |
| 1945 | 145.95 |  | 106 |  | 101 |  | 45 |  | 26.91 |  | 2 |  |
| 1946 | 8.57 |  | 6 |  | 6 |  | 3 |  | 27.39 |  |  |  |
| 1947 | 13.69 |  | 10 |  | 10 |  | 4 |  | 27.86 |  |  |  |
| 1948 | 0.29 |  |  |  | 0 |  |  |  |  |  |  |  |
| 1949 | 4.89 |  | 3 |  | 3 |  | 2 |  | 28.76 |  |  |  |
| 1951 | 28.26 |  | 20 |  | 19 |  | 9 |  | 29.63 |  |  |  |
| 1952 | 2.42 |  | 2 |  | 2 |  |  |  |  |  |  |  |
| 1953 | 355.69 |  | 242 |  | 230 |  | 125 |  | 30.44 |  | 4 |  |
| 1954 | 11.83 |  | 8 |  | 8 |  | 4 |  | 30.82 |  |  |  |
| 1955 | 113.91 |  | 76 |  | 72 |  | 42 |  | 31.19 |  | 1 |  |
| 1957 | 1.29 |  | 1 |  | 1 |  |  |  |  |  |  |  |
| 1958 | 25.55 |  | 17 |  | 16 |  | 9 |  | 32.23 |  |  |  |
| 1962 | 343.42 |  | 217 |  | 207 |  | 137 |  | 33.44 |  | 4 |  |
| 1976 | 60.71 |  | 34 |  | 32 |  | 28 |  | 36.38 |  | 1 |  |
| 1979 | 1,160.48 |  | 619 |  | 589 |  | 571 |  | 36.81 |  | 16 |  |
| 1980 | 64.02 |  | 34 |  | 32 |  | 32 |  | 36.94 |  | 1 |  |
| 1986 | 2,503.59 |  | 1,212 |  | 1,154 |  | 1,350 |  | 37.61 |  | 36 |  |
| 1987 | 2,334.63 |  | 1,112 |  | 1,059 |  | 1,276 |  | 37.70 |  | 34 |  |
| 1991 | 0.43 |  |  |  |  |  |  |  |  |  |  |  |
|  | | | | | | | | | | | | |
|  | 23,166.89 |  | 17,691 |  | 16,851 |  | 6,316 |  |  | | 320 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 100-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1952 | 5,283,375.84 |  | 3,500,870 |  | 1,998,152 |  | 3,285,224 |  | 33.36 |  | 98,478 |  |
| 1953 | 895,974.31 |  | 587,481 |  | 335,310 |  | 560,664 |  | 33.99 |  | 16,495 |  |
| 1954 | 9,808.42 |  | 6,365 |  | 3,633 |  | 6,176 |  | 34.60 |  | 178 |  |
| 1955 | 119,053.27 |  | 76,436 |  | 43,627 |  | 75,427 |  | 35.21 |  | 2,142 |  |
| 1956 | 124,315.68 |  | 78,959 |  | 45,067 |  | 79,249 |  | 35.81 |  | 2,213 |  |
| 1957 | 50,790.90 |  | 31,912 |  | 18,214 |  | 32,577 |  | 36.40 |  | 895 |  |
| 1958 | 11,608.43 |  | 7,214 |  | 4,117 |  | 7,491 |  | 36.98 |  | 203 |  |
| 1959 | 3,693.94 |  | 2,270 |  | 1,296 |  | 2,398 |  | 37.55 |  | 64 |  |
| 1960 | 6,662.94 |  | 4,049 |  | 2,311 |  | 4,352 |  | 38.11 |  | 114 |  |
| 1961 | 4,636.17 |  | 2,786 |  | 1,590 |  | 3,046 |  | 38.65 |  | 79 |  |
| 1962 | 859.66 |  | 511 |  | 292 |  | 568 |  | 39.18 |  | 14 |  |
| 1968 | 1,256.29 |  | 695 |  | 397 |  | 860 |  | 42.06 |  | 20 |  |
| 1973 | 12,810.28 |  | 6,653 |  | 3,797 |  | 9,013 |  | 44.04 |  | 205 |  |
| 1979 | 120,672.61 |  | 57,604 |  | 32,878 |  | 87,795 |  | 45.94 |  | 1,911 |  |
| 1980 | 1,992.62 |  | 937 |  | 535 |  | 1,458 |  | 46.21 |  | 32 |  |
| 1986 | 135,725.53 |  | 57,721 |  | 32,945 |  | 102,781 |  | 47.61 |  | 2,159 |  |
|  | | | | | | | | | | | | |
|  | 6,783,236.89 |  | 4,422,463 |  | 2,524,159 |  | 4,259,077 |  |  | | 125,202 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 100-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1959 | 27,118,321.26 |  | 16,403,059 |  | 8,621,153 |  | 18,497,168 |  | 39.07 |  | 473,437 |  |
| 1960 | 1,167,859.00 |  | 697,621 |  | 366,657 |  | 801,202 |  | 39.75 |  | 20,156 |  |
| 1961 | 545,597.00 |  | 321,820 |  | 169,143 |  | 376,454 |  | 40.42 |  | 9,314 |  |
| 1962 | 306,780.00 |  | 178,653 |  | 93,897 |  | 212,883 |  | 41.08 |  | 5,182 |  |
| 1963 | 30,386.38 |  | 17,464 |  | 9,179 |  | 21,208 |  | 41.74 |  | 508 |  |
| 1964 | 169,423.00 |  | 96,104 |  | 50,511 |  | 118,912 |  | 42.38 |  | 2,806 |  |
| 1965 | 67,184.00 |  | 37,605 |  | 19,765 |  | 47,419 |  | 43.01 |  | 1,103 |  |
| 1966 | 8,071.00 |  | 4,458 |  | 2,343 |  | 5,728 |  | 43.62 |  | 131 |  |
|  | | | | | | | | | | | | |
|  | 29,413,621.64 |  | 17,756,784 |  | 9,332,647 |  | 20,080,975 |  |  | | 512,637 |  |
|  | | | | | | | | | | | | |
|  | 36,478,239.08 |  | 22,390,097 |  | 12,056,434 |  | 24,421,805 |  |  | | 641,224 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 38.1 1.76 | | | | | | | | | | | |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 100-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2005 | 242,033.02 |  | 59,927 |  | 60,609 |  | 181,424 |  | 50.08 |  | 3,623 |  |
|  | | | | | | | | | | | | |
|  | 242,033.02 |  | 59,927 |  | 60,609 |  | 181,424 |  |  | | 3,623 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 50.1 1.50 | | | | | | | | | | | |

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| LITTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 90-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2059 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1910 | 1,963.67 |  | 1,834 |  | 1,964 |  |  |  |  |  |  |  |
| 1911 | 5.00 |  | 5 |  | 5 |  |  |  |  |  |  |  |
| 1924 | 1,637.00 |  | 1,453 |  | 1,637 |  |  |  |  |  |  |  |
| 1925 | 21.00 |  | 19 |  | 21 |  |  |  |  |  |  |  |
|  | | | | | | | | | | | | |
|  | 3,626.67 |  | 3,311 |  | 3,627 |  |  |  |  | |  |  |

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| LONG LAKE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 90-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2055 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1915 | 94,755.26 |  | 87,049 |  | 94,755 |  |  |  |  |  |  |  |
| 1916 | 21,284.75 |  | 19,487 |  | 21,285 |  |  |  |  |  |  |  |
| 1920 | 31,938.00 |  | 28,815 |  | 31,938 |  |  |  |  |  |  |  |
| 1921 | 7,819.00 |  | 7,027 |  | 7,819 |  |  |  |  |  |  |  |
| 1922 | 6,468.00 |  | 5,789 |  | 6,468 |  |  |  |  |  |  |  |
| 1923 | 45.00 |  | 40 |  | 45 |  |  |  |  |  |  |  |
| 1924 | 1,179.00 |  | 1,046 |  | 1,179 |  |  |  |  |  |  |  |
| 1925 | 346.00 |  | 306 |  | 346 |  |  |  |  |  |  |  |
| 1938 | 120.00 |  | 98 |  | 120 |  |  |  |  |  |  |  |
| 1939 | 71.00 |  | 58 |  | 71 |  |  |  |  |  |  |  |
| 1949 | 70,732.26 |  | 53,071 |  | 65,203 |  | 5,530 |  | 22.14 |  | 250 |  |
| 1950 | 9,170.20 |  | 6,823 |  | 8,383 |  | 788 |  | 22.64 |  | 35 |  |
| 1951 | 794.63 |  | 586 |  | 720 |  | 75 |  | 23.13 |  | 3 |  |
| 1952 | 454.02 |  | 332 |  | 408 |  | 46 |  | 23.60 |  | 2 |  |
| 1953 | 207.01 |  | 150 |  | 184 |  | 23 |  | 24.07 |  | 1 |  |
| 1962 | 1,178.12 |  | 792 |  | 973 |  | 205 |  | 27.66 |  | 7 |  |
|  | | | | | | | | | | | | |
|  | 246,562.25 |  | 211,469 |  | 239,896 |  | 6,666 |  |  | | 298 |  |

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| NINE MILE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 90-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1925 | 979.50 |  | 865 |  | 980 |  |  |  |  |  |  |  |
|  | | | | | | | | | | | | |
|  | 979.50 |  | 865 |  | 980 |  |  |  |  | |  |  |

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| POST FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 90-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1906 | 4,288.64 |  | 4,055 |  | 4,289 |  |  |  |  |  |  |  |
| 1907 | 5,208.82 |  | 4,910 |  | 5,209 |  |  |  |  |  |  |  |
| 1908 | 102,784.60 |  | 96,595 |  | 102,785 |  |  |  |  |  |  |  |
| 1909 | 110,920.16 |  | 103,908 |  | 110,920 |  |  |  |  |  |  |  |
| 1910 | 72,697.10 |  | 67,891 |  | 72,697 |  |  |  |  |  |  |  |
| 1911 | 58,970.52 |  | 54,895 |  | 58,971 |  |  |  |  |  |  |  |
| 1912 | 112,532.18 |  | 104,417 |  | 112,532 |  |  |  |  |  |  |  |
| 1913 | 14,634.08 |  | 13,535 |  | 14,603 |  | 31 |  | 6.76 |  | 5 |  |
| 1914 | 9,944.46 |  | 9,167 |  | 9,890 |  | 54 |  | 7.04 |  | 8 |  |
| 1915 | 2,402.42 |  | 2,207 |  | 2,381 |  | 21 |  | 7.32 |  | 3 |  |
| 1916 | 2,848.36 |  | 2,608 |  | 2,814 |  | 35 |  | 7.60 |  | 5 |  |
| 1917 | 1,756.44 |  | 1,602 |  | 1,728 |  | 28 |  | 7.90 |  | 4 |  |
| 1918 | 26,641.29 |  | 24,217 |  | 26,127 |  | 514 |  | 8.19 |  | 63 |  |
| 1920 | 1,074.35 |  | 969 |  | 1,045 |  | 29 |  | 8.80 |  | 3 |  |
| 1921 | 9,876.07 |  | 8,875 |  | 9,575 |  | 301 |  | 9.12 |  | 33 |  |
| 1922 | 5,256.63 |  | 4,705 |  | 5,076 |  | 181 |  | 9.45 |  | 19 |  |
| 1923 | 4,363.78 |  | 3,890 |  | 4,197 |  | 167 |  | 9.78 |  | 17 |  |
| 1924 | 132.71 |  | 118 |  | 127 |  | 5 |  | 10.13 |  |  |  |
| 1925 | 520.10 |  | 459 |  | 495 |  | 25 |  | 10.49 |  | 2 |  |
| 1926 | 3,145.00 |  | 2,765 |  | 2,983 |  | 162 |  | 10.86 |  | 15 |  |
| 1927 | 1,737.90 |  | 1,521 |  | 1,641 |  | 97 |  | 11.25 |  | 9 |  |
| 1928 | 5,491.81 |  | 4,781 |  | 5,158 |  | 334 |  | 11.65 |  | 29 |  |
| 1929 | 6,702.77 |  | 5,805 |  | 6,263 |  | 440 |  | 12.06 |  | 36 |  |
| 1930 | 847.00 |  | 729 |  | 787 |  | 60 |  | 12.49 |  | 5 |  |
| 1931 | 310.31 |  | 266 |  | 287 |  | 23 |  | 12.94 |  | 2 |  |
| 1932 | 115.14 |  | 98 |  | 106 |  | 9 |  | 13.40 |  | 1 |  |
| 1933 | 408.86 |  | 346 |  | 373 |  | 36 |  | 13.88 |  | 3 |  |
| 1934 | 797.23 |  | 670 |  | 723 |  | 74 |  | 14.37 |  | 5 |  |
| 1939 | 299.57 |  | 243 |  | 262 |  | 37 |  | 17.07 |  | 2 |  |
| 1942 | 75,487.89 |  | 59,668 |  | 64,375 |  | 11,113 |  | 18.83 |  | 590 |  |
| 1943 | 1,007.03 |  | 789 |  | 851 |  | 156 |  | 19.42 |  | 8 |  |
| 1944 | 619.63 |  | 481 |  | 519 |  | 101 |  | 20.02 |  | 5 |  |
| 1945 | 5,885.05 |  | 4,532 |  | 4,889 |  | 996 |  | 20.62 |  | 48 |  |
| 1946 | 345.43 |  | 264 |  | 285 |  | 61 |  | 21.22 |  | 3 |  |
| 1947 | 552.30 |  | 418 |  | 451 |  | 101 |  | 21.82 |  | 5 |  |
| 1948 | 11.70 |  | 9 |  | 10 |  | 2 |  | 22.41 |  |  |  |
| 1949 | 197.12 |  | 146 |  | 158 |  | 40 |  | 23.00 |  | 2 |  |
| 1951 | 1,139.73 |  | 831 |  | 897 |  | 243 |  | 24.15 |  | 10 |  |
| 1952 | 97.58 |  | 70 |  | 76 |  | 22 |  | 24.72 |  | 1 |  |
| 1953 | 14,342.31 |  | 10,261 |  | 11,070 |  | 3,272 |  | 25.28 |  | 129 |  |
| 1954 | 477.17 |  | 338 |  | 365 |  | 113 |  | 25.84 |  | 4 |  |
| 1955 | 4,593.09 |  | 3,224 |  | 3,478 |  | 1,115 |  | 26.38 |  | 42 |  |
| 1957 | 51.71 |  | 36 |  | 39 |  | 13 |  | 27.44 |  |  |  |
| 1958 | 1,030.45 |  | 702 |  | 757 |  | 273 |  | 27.95 |  | 10 |  |
| 1962 | 13,847.57 |  | 9,069 |  | 9,784 |  | 4,063 |  | 29.87 |  | 136 |  |
| 1976 | 2,447.99 |  | 1,376 |  | 1,485 |  | 963 |  | 34.74 |  | 28 |  |
| 1979 | 46,793.24 |  | 25,329 |  | 27,327 |  | 19,466 |  | 35.44 |  | 549 |  |
| 1980 | 2,581.20 |  | 1,379 |  | 1,488 |  | 1,093 |  | 35.66 |  | 31 |  |
| 1986 | 313,400.98 |  | 153,278 |  | 165,368 |  | 148,033 |  | 36.74 |  | 4,029 |  |
| 1987 | 94,137.78 |  | 45,288 |  | 48,860 |  | 45,278 |  | 36.89 |  | 1,227 |  |
| 1989 | 1,452,014.32 |  | 674,664 |  | 727,880 |  | 724,134 |  | 37.17 |  | 19,482 |  |
| 1991 | 17.56 |  | 8 |  | 9 |  | 9 |  | 37.42 |  |  |  |
| 1994 | 110,649.98 |  | 46,514 |  | 50,183 |  | 60,467 |  | 37.74 |  | 1,602 |  |
|  | | | | | | | | | | | | |
|  | 2,708,437.11 |  | 1,564,921 |  | 1,684,647 |  | 1,023,791 |  |  | | 28,210 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 90-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1952 | 285,018.42 |  | 203,295 |  | 130,866 |  | 154,153 |  | 25.78 |  | 5,980 |  |
| 1953 | 48,330.89 |  | 34,092 |  | 21,946 |  | 26,385 |  | 26.48 |  | 996 |  |
| 1954 | 529.09 |  | 369 |  | 238 |  | 292 |  | 27.18 |  | 11 |  |
| 1955 | 6,422.00 |  | 4,428 |  | 2,850 |  | 3,572 |  | 27.88 |  | 128 |  |
| 1956 | 6,705.88 |  | 4,570 |  | 2,942 |  | 3,764 |  | 28.59 |  | 132 |  |
| 1957 | 2,739.78 |  | 1,845 |  | 1,188 |  | 1,552 |  | 29.29 |  | 53 |  |
| 1958 | 626.19 |  | 417 |  | 268 |  | 358 |  | 29.99 |  | 12 |  |
| 1959 | 199.25 |  | 131 |  | 84 |  | 115 |  | 30.69 |  | 4 |  |
| 1960 | 359.41 |  | 233 |  | 150 |  | 209 |  | 31.39 |  | 7 |  |
| 1961 | 250.09 |  | 160 |  | 103 |  | 147 |  | 32.08 |  | 5 |  |
| 1962 | 46.38 |  | 29 |  | 19 |  | 28 |  | 32.77 |  | 1 |  |
| 1968 | 67.77 |  | 40 |  | 26 |  | 42 |  | 36.75 |  | 1 |  |
| 1973 | 691.02 |  | 375 |  | 241 |  | 450 |  | 39.74 |  | 11 |  |
| 1979 | 6,509.35 |  | 3,213 |  | 2,068 |  | 4,441 |  | 42.79 |  | 104 |  |
| 1980 | 107.48 |  | 52 |  | 33 |  | 74 |  | 43.24 |  | 2 |  |
| 1986 | 7,321.35 |  | 3,188 |  | 2,052 |  | 5,269 |  | 45.53 |  | 116 |  |
|  | | | | | | | | | | | | |
|  | 365,924.35 |  | 256,437 |  | 165,075 |  | 200,850 |  |  | | 7,563 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 90-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1959 | 8,209.79 |  | 5,373 |  | 5,008 |  | 3,202 |  | 31.07 |  | 103 |  |
| 1963 | 2,397.62 |  | 1,486 |  | 1,385 |  | 1,013 |  | 34.12 |  | 30 |  |
| 2015 | 70,262.50 |  | 7,202 |  | 6,712 |  | 63,550 |  | 56.83 |  | 1,118 |  |
|  | | | | | | | | | | | | |
|  | 80,869.91 |  | 14,061 |  | 13,105 |  | 67,765 |  |  | | 1,251 |  |
|  | | | | | | | | | | | | |
|  | 3,406,399.79 |  | 2,051,064 |  | 2,107,329 |  | 1,299,072 |  |  | | 37,322 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 34.8 1.10 | | | | | | | | | | | |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 90-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2002 | 91,873.21 |  | 26,052 |  | 23,773 |  | 68,101 |  | 49.14 |  | 1,386 |  |
| 2005 | 242,033.14 |  | 60,370 |  | 55,088 |  | 186,945 |  | 49.53 |  | 3,774 |  |
| 2011 | 116,479.71 |  | 20,147 |  | 18,384 |  | 98,095 |  | 50.11 |  | 1,958 |  |
| 2014 | 390,987.38 |  | 50,727 |  | 46,289 |  | 344,699 |  | 50.31 |  | 6,852 |  |
| 2017 | 198,683.07 |  | 16,262 |  | 14,839 |  | 183,844 |  | 50.48 |  | 3,642 |  |
| 2018 | 952,151.53 |  | 61,519 |  | 56,137 |  | 896,015 |  | 50.53 |  | 17,732 |  |
|  | | | | | | | | | | | | |
|  | 1,992,208.04 |  | 235,077 |  | 214,510 |  | 1,777,698 |  |  | | 35,344 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 90-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2001 | 550,000.00 |  | 149,721 |  | 150,223 |  | 399,777 |  | 54.62 |  | 7,319 |  |
| 2012 | 432,234.97 |  | 62,160 |  | 62,369 |  | 369,866 |  | 56.50 |  | 6,546 |  |
|  | | | | | | | | | | | | |
|  | 982,234.97 |  | 211,881 |  | 212,592 |  | 769,643 |  |  | | 13,865 |  |
|  | | | | | | | | | | | | |
|  | 2,974,443.01 |  | 446,958 |  | 427,102 |  | 2,547,341 |  |  | | 49,209 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 51.8 1.65 | | | | | | | | | | | |

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| MONROE STREET | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -7 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1992 | 7,510,318.12 |  | 2,881,804 |  | 1,754,281 |  | 6,281,760 |  | 46.27 |  | 135,763 |  |
| 1994 | 94,450.97 |  | 34,641 |  | 21,087 |  | 79,975 |  | 46.44 |  | 1,722 |  |
| 1995 | 200.00 |  | 72 |  | 44 |  | 170 |  | 46.52 |  | 4 |  |
| 1999 | 24,469.44 |  | 7,834 |  | 4,769 |  | 21,413 |  | 46.84 |  | 457 |  |
| 2004 | 43,516.48 |  | 11,624 |  | 7,076 |  | 39,487 |  | 47.19 |  | 837 |  |
| 2006 | 204,147.06 |  | 49,725 |  | 30,270 |  | 188,168 |  | 47.33 |  | 3,976 |  |
| 2007 | 13,578.74 |  | 3,143 |  | 1,913 |  | 12,616 |  | 47.39 |  | 266 |  |
| 2009 | 14,696.51 |  | 3,023 |  | 1,840 |  | 13,885 |  | 47.52 |  | 292 |  |
| 2010 | 953.84 |  | 183 |  | 111 |  | 909 |  | 47.58 |  | 19 |  |
| 2014 | 20,262.07 |  | 2,717 |  | 1,654 |  | 20,026 |  | 47.81 |  | 419 |  |
| 2016 | 123,935.66 |  | 12,621 |  | 7,683 |  | 124,928 |  | 47.92 |  | 2,607 |  |
| 2018 | 192.80 |  | 13 |  | 8 |  | 198 |  | 48.03 |  | 4 |  |
| 2020 | 8,123.62 |  | 242 |  | 147 |  | 8,545 |  | 48.13 |  | 178 |  |
| 2021 | 140,141.04 |  | 1,419 |  | 864 |  | 149,087 |  | 48.18 |  | 3,094 |  |
|  | | | | | | | | | | | | |
|  | 8,198,986.35 |  | 3,009,061 |  | 1,831,747 |  | 6,941,168 |  |  | | 149,638 |  |

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| LITTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2059 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -5 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1910 | 351,355.14 |  | 276,526 |  | 327,048 |  | 41,874 |  | 26.48 |  | 1,581 |  |
| 1911 | 5,236.00 |  | 4,108 |  | 4,859 |  | 639 |  | 26.67 |  | 24 |  |
| 1913 | 433.04 |  | 338 |  | 400 |  | 55 |  | 27.03 |  | 2 |  |
| 1914 | 1,126.00 |  | 875 |  | 1,035 |  | 147 |  | 27.21 |  | 5 |  |
| 1916 | 8,214.00 |  | 6,345 |  | 7,504 |  | 1,120 |  | 27.57 |  | 41 |  |
| 1917 | 60.00 |  | 46 |  | 54 |  | 9 |  | 27.74 |  |  |  |
| 1921 | 188.00 |  | 143 |  | 169 |  | 28 |  | 28.43 |  | 1 |  |
| 1924 | 632.00 |  | 475 |  | 562 |  | 102 |  | 28.93 |  | 4 |  |
| 1925 | 132.00 |  | 99 |  | 117 |  | 22 |  | 29.09 |  | 1 |  |
| 1926 | 2,493.00 |  | 1,862 |  | 2,202 |  | 415 |  | 29.25 |  | 14 |  |
| 1927 | 2,290.00 |  | 1,704 |  | 2,015 |  | 389 |  | 29.41 |  | 13 |  |
| 1930 | 2,027.00 |  | 1,492 |  | 1,765 |  | 364 |  | 29.87 |  | 12 |  |
| 1932 | 182.00 |  | 133 |  | 157 |  | 34 |  | 30.17 |  | 1 |  |
| 1935 | 64.00 |  | 46 |  | 54 |  | 13 |  | 30.60 |  |  |  |
| 1937 | 753.00 |  | 539 |  | 637 |  | 153 |  | 30.88 |  | 5 |  |
| 1938 | 1,864.00 |  | 1,330 |  | 1,573 |  | 384 |  | 31.01 |  | 12 |  |
| 1939 | 753.65 |  | 535 |  | 633 |  | 159 |  | 31.15 |  | 5 |  |
| 1940 | 478.00 |  | 338 |  | 400 |  | 102 |  | 31.28 |  | 3 |  |
| 1941 | 149.26 |  | 105 |  | 124 |  | 33 |  | 31.41 |  | 1 |  |
| 1948 | 1,073.69 |  | 732 |  | 866 |  | 262 |  | 32.26 |  | 8 |  |
| 1949 | 946.00 |  | 641 |  | 758 |  | 235 |  | 32.37 |  | 7 |  |
| 1951 | 6,313.00 |  | 4,236 |  | 5,010 |  | 1,619 |  | 32.59 |  | 50 |  |
| 1952 | 95.91 |  | 64 |  | 76 |  | 25 |  | 32.70 |  | 1 |  |
| 1953 | 4,381.00 |  | 2,908 |  | 3,439 |  | 1,161 |  | 32.80 |  | 35 |  |
| 1954 | 2,911.00 |  | 1,922 |  | 2,273 |  | 783 |  | 32.90 |  | 24 |  |
| 1956 | 1,639.71 |  | 1,070 |  | 1,265 |  | 456 |  | 33.10 |  | 14 |  |
| 1957 | 6,435.18 |  | 4,175 |  | 4,938 |  | 1,819 |  | 33.20 |  | 55 |  |
| 1958 | 7,365.00 |  | 4,748 |  | 5,615 |  | 2,118 |  | 33.30 |  | 64 |  |
| 1962 | 3,065.00 |  | 1,926 |  | 2,278 |  | 940 |  | 33.66 |  | 28 |  |
| 1986 | 84,471.49 |  | 41,879 |  | 49,530 |  | 39,165 |  | 35.28 |  | 1,110 |  |
| 1988 | 5,581.46 |  | 2,684 |  | 3,174 |  | 2,686 |  | 35.38 |  | 76 |  |
| 1990 | 66,493.68 |  | 30,925 |  | 36,575 |  | 33,243 |  | 35.48 |  | 937 |  |
| 1991 | 92,144.27 |  | 42,106 |  | 49,799 |  | 46,953 |  | 35.52 |  | 1,322 |  |
| 1993 | 10.88 |  | 5 |  | 6 |  | 6 |  | 35.61 |  |  |  |
| 1995 | 7,161.11 |  | 3,019 |  | 3,571 |  | 3,949 |  | 35.70 |  | 111 |  |
| 1997 | 6,573.46 |  | 2,644 |  | 3,127 |  | 3,775 |  | 35.78 |  | 106 |  |
| 1999 | 2,248.12 |  | 858 |  | 1,015 |  | 1,346 |  | 35.86 |  | 38 |  |
| 2000 | 341.63 |  | 127 |  | 150 |  | 209 |  | 35.90 |  | 6 |  |
| 2003 | 3,202.14 |  | 1,076 |  | 1,273 |  | 2,090 |  | 36.01 |  | 58 |  |
| 2005 | 1,724.81 |  | 536 |  | 634 |  | 1,177 |  | 36.07 |  | 33 |  |
| 2006 | 27,394.26 |  | 8,147 |  | 9,635 |  | 19,128 |  | 36.11 |  | 530 |  |
| 2008 | 10,281.47 |  | 2,768 |  | 3,274 |  | 7,522 |  | 36.17 |  | 208 |  |
| 2009 | 293,718.35 |  | 74,631 |  | 88,266 |  | 220,138 |  | 36.21 |  | 6,079 |  |
| 2011 | 3,067.85 |  | 682 |  | 807 |  | 2,415 |  | 36.27 |  | 67 |  |
| 2013 | 4,240.91 |  | 796 |  | 941 |  | 3,512 |  | 36.33 |  | 97 |  |
| 2014 | 876,290.79 |  | 148,367 |  | 175,474 |  | 744,631 |  | 36.36 |  | 20,479 |  |
| 2015 | 350,435.61 |  | 52,530 |  | 62,127 |  | 305,830 |  | 36.39 |  | 8,404 |  |
| 2016 | 1,004,180.80 |  | 130,407 |  | 154,233 |  | 900,157 |  | 36.42 |  | 24,716 |  |
| 2017 | 323,038.73 |  | 35,205 |  | 41,637 |  | 297,554 |  | 36.44 |  | 8,166 |  |
| 2018 | 325,384.48 |  | 28,193 |  | 33,344 |  | 308,310 |  | 36.47 |  | 8,454 |  |
| 2019 | 333,099.11 |  | 21,073 |  | 24,923 |  | 324,831 |  | 36.50 |  | 8,899 |  |
| 2020 | 3,572.85 |  | 138 |  | 163 |  | 3,588 |  | 36.53 |  | 98 |  |
| 2021 | 1,234,615.70 |  | 16,464 |  | 19,472 |  | 1,276,874 |  | 36.55 |  | 34,935 |  |
|  | | | | | | | | | | | | |
|  | 5,471,929.54 |  | 964,721 |  | 1,140,980 |  | 4,604,546 |  |  | | 126,940 |  |

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| LONG LAKE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2055 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1915 | 731,926.38 |  | 584,651 |  | 503,576 |  | 272,266 |  | 25.51 |  | 10,673 |  |
| 1916 | 4,034.00 |  | 3,213 |  | 2,767 |  | 1,509 |  | 25.66 |  | 59 |  |
| 1917 | 2,238.00 |  | 1,778 |  | 1,531 |  | 841 |  | 25.80 |  | 33 |  |
| 1918 | 7,942.00 |  | 6,290 |  | 5,418 |  | 3,001 |  | 25.95 |  | 116 |  |
| 1919 | 14,798.00 |  | 11,687 |  | 10,066 |  | 5,620 |  | 26.09 |  | 215 |  |
| 1920 | 11,914.00 |  | 9,382 |  | 8,081 |  | 4,548 |  | 26.23 |  | 173 |  |
| 1921 | 6,762.00 |  | 5,309 |  | 4,573 |  | 2,595 |  | 26.37 |  | 98 |  |
| 1922 | 15,297.00 |  | 11,974 |  | 10,314 |  | 5,901 |  | 26.51 |  | 223 |  |
| 1924 | 2,887.00 |  | 2,246 |  | 1,935 |  | 1,126 |  | 26.78 |  | 42 |  |
| 1926 | 9,910.19 |  | 7,662 |  | 6,599 |  | 3,905 |  | 27.05 |  | 144 |  |
| 1927 | 1,454.00 |  | 1,121 |  | 966 |  | 576 |  | 27.17 |  | 21 |  |
| 1928 | 453.00 |  | 348 |  | 300 |  | 180 |  | 27.30 |  | 7 |  |
| 1929 | 1,557.00 |  | 1,192 |  | 1,027 |  | 624 |  | 27.43 |  | 23 |  |
| 1930 | 786.00 |  | 600 |  | 517 |  | 316 |  | 27.55 |  | 11 |  |
| 1935 | 33.00 |  | 25 |  | 22 |  | 13 |  | 28.15 |  |  |  |
| 1936 | 1,113.02 |  | 832 |  | 717 |  | 463 |  | 28.26 |  | 16 |  |
| 1939 | 519.22 |  | 384 |  | 331 |  | 220 |  | 28.59 |  | 8 |  |
| 1940 | 505.06 |  | 372 |  | 320 |  | 215 |  | 28.70 |  | 7 |  |
| 1941 | 888.75 |  | 652 |  | 562 |  | 380 |  | 28.80 |  | 13 |  |
| 1942 | 1,894.23 |  | 1,383 |  | 1,191 |  | 817 |  | 28.90 |  | 28 |  |
| 1944 | 476.79 |  | 345 |  | 297 |  | 208 |  | 29.10 |  | 7 |  |
| 1945 | 1,009.00 |  | 728 |  | 627 |  | 442 |  | 29.20 |  | 15 |  |
| 1946 | 1,191.50 |  | 856 |  | 737 |  | 526 |  | 29.30 |  | 18 |  |
| 1947 | 2,700.37 |  | 1,931 |  | 1,663 |  | 1,199 |  | 29.39 |  | 41 |  |
| 1950 | 21,190.70 |  | 14,943 |  | 12,871 |  | 9,591 |  | 29.66 |  | 323 |  |
| 1958 | 6,044.84 |  | 4,090 |  | 3,523 |  | 2,885 |  | 30.31 |  | 95 |  |
| 1966 | 38,136.89 |  | 24,543 |  | 21,140 |  | 19,286 |  | 30.86 |  | 625 |  |
| 1969 | 61,745.14 |  | 38,883 |  | 33,491 |  | 31,959 |  | 31.04 |  | 1,030 |  |
| 1983 | 1,269.70 |  | 699 |  | 602 |  | 744 |  | 31.75 |  | 23 |  |
| 1985 | 33,914.87 |  | 18,201 |  | 15,677 |  | 20,273 |  | 31.84 |  | 637 |  |
| 1987 | 1,326.24 |  | 693 |  | 597 |  | 809 |  | 31.91 |  | 25 |  |
| 1989 | 2,152.79 |  | 1,091 |  | 940 |  | 1,342 |  | 31.99 |  | 42 |  |
| 1990 | 17,133.67 |  | 8,542 |  | 7,357 |  | 10,804 |  | 32.03 |  | 337 |  |
| 1991 | 9,995.77 |  | 4,901 |  | 4,221 |  | 6,374 |  | 32.06 |  | 199 |  |
| 1992 | 103,505.57 |  | 49,851 |  | 42,938 |  | 66,778 |  | 32.10 |  | 2,080 |  |
| 1994 | 6,674.88 |  | 3,094 |  | 2,665 |  | 4,410 |  | 32.17 |  | 137 |  |
| 1997 | 14,375.67 |  | 6,245 |  | 5,379 |  | 9,859 |  | 32.26 |  | 306 |  |
| 1998 | 35,177.85 |  | 14,913 |  | 12,845 |  | 24,444 |  | 32.29 |  | 757 |  |
| 1999 | 19,669.10 |  | 8,126 |  | 6,999 |  | 13,850 |  | 32.32 |  | 429 |  |
| 2002 | 11,983.95 |  | 4,531 |  | 3,903 |  | 8,800 |  | 32.41 |  | 272 |  |
| 2004 | 5,258.49 |  | 1,853 |  | 1,596 |  | 3,978 |  | 32.47 |  | 123 |  |
| 2007 | 6,561.94 |  | 2,035 |  | 1,753 |  | 5,203 |  | 32.55 |  | 160 |  |
| 2008 | 71,163.13 |  | 20,994 |  | 18,083 |  | 57,350 |  | 32.57 |  | 1,761 |  |
| 2009 | 1,935.35 |  | 540 |  | 465 |  | 1,586 |  | 32.60 |  | 49 |  |
| 2010 | 30,228.20 |  | 7,931 |  | 6,831 |  | 25,211 |  | 32.62 |  | 773 |  |
| 2012 | 150,973.82 |  | 34,232 |  | 29,485 |  | 130,547 |  | 32.67 |  | 3,996 |  |
| 2013 | 162,494.42 |  | 33,763 |  | 29,081 |  | 143,163 |  | 32.69 |  | 4,379 |  |
| 2014 | 1,582,166.80 |  | 296,611 |  | 255,479 |  | 1,421,618 |  | 32.72 |  | 43,448 |  |
| 2015 | 63,914.46 |  | 10,640 |  | 9,165 |  | 58,585 |  | 32.74 |  | 1,789 |  |
| 2016 | 438,083.29 |  | 63,293 |  | 54,516 |  | 409,852 |  | 32.76 |  | 12,511 |  |
| 2017 | 47,029.17 |  | 5,709 |  | 4,917 |  | 44,934 |  | 32.78 |  | 1,371 |  |
| 2018 | 3,470,068.67 |  | 337,150 |  | 290,396 |  | 3,387,876 |  | 32.80 |  | 103,289 |  |
| 2019 | 392,239.00 |  | 27,882 |  | 24,016 |  | 391,758 |  | 32.83 |  | 11,933 |  |
| 2020 | 31,297.59 |  | 1,375 |  | 1,184 |  | 31,991 |  | 32.85 |  | 974 |  |
| 2021 | 26,250.54 |  | 392 |  | 338 |  | 27,488 |  | 32.87 |  | 836 |  |
|  | | | | | | | | | | | | |
|  | 7,686,252.01 |  | 1,702,707 |  | 1,466,588 |  | 6,680,839 |  |  | | 206,700 |  |

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| SPOKANE UPPER FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1922 | 334,364.31 |  | 254,304 |  | 336,342 |  | 18,084 |  | 29.08 |  | 622 |  |
| 1923 | 824.00 |  | 624 |  | 825 |  | 48 |  | 29.26 |  | 2 |  |
| 1924 | 341.00 |  | 258 |  | 341 |  | 20 |  | 29.43 |  | 1 |  |
| 1930 | 953.00 |  | 704 |  | 931 |  | 79 |  | 30.42 |  | 3 |  |
| 1940 | 185.00 |  | 131 |  | 173 |  | 23 |  | 31.90 |  | 1 |  |
| 1942 | 192.00 |  | 135 |  | 179 |  | 25 |  | 32.17 |  | 1 |  |
| 1945 | 626.62 |  | 434 |  | 574 |  | 90 |  | 32.56 |  | 3 |  |
| 1950 | 855.00 |  | 577 |  | 763 |  | 143 |  | 33.16 |  | 4 |  |
| 1951 | 142.00 |  | 95 |  | 126 |  | 25 |  | 33.28 |  | 1 |  |
| 1952 | 279.00 |  | 186 |  | 246 |  | 50 |  | 33.39 |  | 1 |  |
| 1953 | 2,176.17 |  | 1,446 |  | 1,912 |  | 394 |  | 33.50 |  | 12 |  |
| 1954 | 920.00 |  | 608 |  | 804 |  | 171 |  | 33.61 |  | 5 |  |
| 1957 | 514.00 |  | 334 |  | 442 |  | 103 |  | 33.92 |  | 3 |  |
| 1966 | 2,906.35 |  | 1,773 |  | 2,345 |  | 736 |  | 34.76 |  | 21 |  |
| 1982 | 10,196.78 |  | 5,317 |  | 7,032 |  | 3,776 |  | 35.90 |  | 105 |  |
| 1994 | 1,875.33 |  | 803 |  | 1,062 |  | 926 |  | 36.52 |  | 25 |  |
| 1998 | 14,368.94 |  | 5,596 |  | 7,401 |  | 7,830 |  | 36.69 |  | 213 |  |
| 1999 | 19,085.85 |  | 7,233 |  | 9,566 |  | 10,665 |  | 36.73 |  | 290 |  |
| 2002 | 31,174.13 |  | 10,767 |  | 14,240 |  | 18,804 |  | 36.85 |  | 510 |  |
| 2008 | 46,456.93 |  | 12,373 |  | 16,365 |  | 32,880 |  | 37.07 |  | 887 |  |
| 2009 | 44,341.57 |  | 11,151 |  | 14,748 |  | 32,254 |  | 37.10 |  | 869 |  |
| 2012 | 348,085.01 |  | 70,650 |  | 93,442 |  | 275,529 |  | 37.20 |  | 7,407 |  |
| 2014 | 25,792.13 |  | 4,314 |  | 5,706 |  | 21,634 |  | 37.26 |  | 581 |  |
| 2016 | 66,347.05 |  | 8,499 |  | 11,241 |  | 59,087 |  | 37.32 |  | 1,583 |  |
| 2019 | 60,943.49 |  | 3,803 |  | 5,030 |  | 59,570 |  | 37.41 |  | 1,592 |  |
| 2020 | 46,747.42 |  | 1,786 |  | 2,362 |  | 47,190 |  | 37.44 |  | 1,260 |  |
| 2021 | 53,886.53 |  | 693 |  | 917 |  | 56,203 |  | 37.47 |  | 1,500 |  |
|  | | | | | | | | | | | | |
|  | 1,114,579.61 |  | 404,594 |  | 535,115 |  | 646,339 |  |  | | 17,502 |  |

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| NINE MILE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1908 | 126,339.99 |  | 98,660 |  | 61,006 |  | 70,388 |  | 26.49 |  | 2,657 |  |
| 1925 | 1,223.96 |  | 904 |  | 559 |  | 714 |  | 29.60 |  | 24 |  |
| 1927 | 12,989.00 |  | 9,520 |  | 5,887 |  | 7,622 |  | 29.93 |  | 255 |  |
| 1928 | 19,335.78 |  | 14,119 |  | 8,730 |  | 11,379 |  | 30.09 |  | 378 |  |
| 1929 | 27,981.00 |  | 20,353 |  | 12,585 |  | 16,515 |  | 30.26 |  | 546 |  |
| 1930 | 8,044.00 |  | 5,829 |  | 3,604 |  | 4,761 |  | 30.42 |  | 157 |  |
| 1931 | 15.00 |  | 11 |  | 7 |  | 9 |  | 30.57 |  |  |  |
| 1938 | 237.00 |  | 166 |  | 103 |  | 144 |  | 31.62 |  | 5 |  |
| 1940 | 126.00 |  | 88 |  | 54 |  | 77 |  | 31.90 |  | 2 |  |
| 1941 | 179.17 |  | 124 |  | 77 |  | 110 |  | 32.03 |  | 3 |  |
| 1947 | 292.03 |  | 197 |  | 122 |  | 182 |  | 32.80 |  | 6 |  |
| 1953 | 1,033.84 |  | 674 |  | 417 |  | 658 |  | 33.50 |  | 20 |  |
| 1955 | 400.25 |  | 258 |  | 160 |  | 257 |  | 33.71 |  | 8 |  |
| 1956 | 701.00 |  | 449 |  | 278 |  | 451 |  | 33.82 |  | 13 |  |
| 1961 | 9,818.34 |  | 6,092 |  | 3,767 |  | 6,444 |  | 34.31 |  | 188 |  |
| 1963 | 80.86 |  | 49 |  | 30 |  | 54 |  | 34.49 |  | 2 |  |
| 1966 | 144.00 |  | 86 |  | 53 |  | 97 |  | 34.76 |  | 3 |  |
| 1967 | 3,350.00 |  | 1,990 |  | 1,231 |  | 2,253 |  | 34.84 |  | 65 |  |
| 1971 | 2,905.00 |  | 1,669 |  | 1,032 |  | 1,989 |  | 35.16 |  | 57 |  |
| 1972 | 3,476.58 |  | 1,980 |  | 1,224 |  | 2,391 |  | 35.23 |  | 68 |  |
| 1980 | 411.42 |  | 216 |  | 134 |  | 294 |  | 35.77 |  | 8 |  |
| 1981 | 9,922.05 |  | 5,139 |  | 3,178 |  | 7,141 |  | 35.84 |  | 199 |  |
| 1984 | 26,115.12 |  | 13,014 |  | 8,047 |  | 19,113 |  | 36.01 |  | 531 |  |
| 1985 | 723.40 |  | 355 |  | 220 |  | 533 |  | 36.07 |  | 15 |  |
| 1986 | 21,186.25 |  | 10,262 |  | 6,345 |  | 15,688 |  | 36.12 |  | 434 |  |
| 1987 | 114.96 |  | 55 |  | 34 |  | 86 |  | 36.18 |  | 2 |  |
| 1994 | 2,577,412.48 |  | 1,083,060 |  | 669,702 |  | 2,010,807 |  | 36.52 |  | 55,060 |  |
| 1995 | 226,189.23 |  | 93,013 |  | 57,514 |  | 177,723 |  | 36.56 |  | 4,861 |  |
| 1997 | 1,627.42 |  | 638 |  | 395 |  | 1,298 |  | 36.65 |  | 35 |  |
| 1998 | 8,156.07 |  | 3,116 |  | 1,927 |  | 6,556 |  | 36.69 |  | 179 |  |
| 1999 | 5,309.51 |  | 1,974 |  | 1,221 |  | 4,301 |  | 36.73 |  | 117 |  |
| 2000 | 9,543.30 |  | 3,448 |  | 2,132 |  | 7,793 |  | 36.77 |  | 212 |  |
| 2001 | 1,425.08 |  | 499 |  | 309 |  | 1,174 |  | 36.81 |  | 32 |  |
| 2005 | 8,887.43 |  | 2,686 |  | 1,661 |  | 7,582 |  | 36.96 |  | 205 |  |
| 2013 | 368,816.25 |  | 67,144 |  | 41,518 |  | 342,051 |  | 37.23 |  | 9,188 |  |
| 2014 | 2,440,050.62 |  | 400,391 |  | 247,579 |  | 2,290,074 |  | 37.26 |  | 61,462 |  |
| 2015 | 1,926,956.79 |  | 280,144 |  | 173,225 |  | 1,830,810 |  | 37.29 |  | 49,097 |  |
| 2016 | 6,815,497.13 |  | 856,599 |  | 529,672 |  | 6,558,445 |  | 37.32 |  | 175,735 |  |
| 2017 | 4,933,773.91 |  | 519,783 |  | 321,404 |  | 4,809,721 |  | 37.35 |  | 128,774 |  |
| 2018 | 423,778.50 |  | 35,554 |  | 21,985 |  | 418,745 |  | 37.38 |  | 11,202 |  |
| 2019 | 15,943.96 |  | 976 |  | 604 |  | 15,978 |  | 37.41 |  | 427 |  |
| 2020 | 7,633.33 |  | 286 |  | 177 |  | 7,762 |  | 37.44 |  | 207 |  |
| 2021 | 912.51 |  | 12 |  | 7 |  | 942 |  | 37.47 |  | 25 |  |
|  | | | | | | | | | | | | |
|  | 20,049,059.52 |  | 3,541,582 |  | 2,189,911 |  | 18,661,111 |  |  | | 502,464 |  |

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| POST FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1906 | 100,200.31 |  | 78,718 |  | 90,812 |  | 13,396 |  | 26.10 |  | 513 |  |
| 1907 | 3,539.46 |  | 2,772 |  | 3,198 |  | 483 |  | 26.30 |  | 18 |  |
| 1908 | 2,812.29 |  | 2,196 |  | 2,533 |  | 391 |  | 26.49 |  | 15 |  |
| 1909 | 163.00 |  | 127 |  | 147 |  | 23 |  | 26.69 |  | 1 |  |
| 1910 | 29,239.00 |  | 22,692 |  | 26,178 |  | 4,230 |  | 26.88 |  | 157 |  |
| 1911 | 8,493.00 |  | 6,571 |  | 7,581 |  | 1,252 |  | 27.07 |  | 46 |  |
| 1912 | 254.00 |  | 196 |  | 226 |  | 38 |  | 27.26 |  | 1 |  |
| 1913 | 1,627.00 |  | 1,251 |  | 1,443 |  | 249 |  | 27.45 |  | 9 |  |
| 1914 | 713.00 |  | 546 |  | 630 |  | 112 |  | 27.64 |  | 4 |  |
| 1921 | 237.00 |  | 177 |  | 204 |  | 42 |  | 28.91 |  | 1 |  |
| 1922 | 359.00 |  | 268 |  | 309 |  | 64 |  | 29.08 |  | 2 |  |
| 1923 | 1,424.00 |  | 1,059 |  | 1,222 |  | 259 |  | 29.26 |  | 9 |  |
| 1925 | 143.00 |  | 106 |  | 122 |  | 26 |  | 29.60 |  | 1 |  |
| 1926 | 7,044.00 |  | 5,182 |  | 5,978 |  | 1,348 |  | 29.76 |  | 45 |  |
| 1927 | 2,171.00 |  | 1,591 |  | 1,835 |  | 422 |  | 29.93 |  | 14 |  |
| 1928 | 61.00 |  | 45 |  | 52 |  | 12 |  | 30.09 |  |  |  |
| 1929 | 24,275.00 |  | 17,657 |  | 20,370 |  | 4,876 |  | 30.26 |  | 161 |  |
| 1932 | 75.00 |  | 54 |  | 62 |  | 16 |  | 30.73 |  | 1 |  |
| 1936 | 78.00 |  | 55 |  | 63 |  | 18 |  | 31.33 |  | 1 |  |
| 1939 | 127.00 |  | 89 |  | 103 |  | 29 |  | 31.76 |  | 1 |  |
| 1940 | 328.92 |  | 229 |  | 264 |  | 78 |  | 31.90 |  | 2 |  |
| 1941 | 160.34 |  | 111 |  | 128 |  | 39 |  | 32.03 |  | 1 |  |
| 1942 | 11.00 |  | 8 |  | 9 |  | 2 |  | 32.17 |  |  |  |
| 1943 | 653.00 |  | 448 |  | 517 |  | 162 |  | 32.30 |  | 5 |  |
| 1945 | 2,507.00 |  | 1,703 |  | 1,965 |  | 643 |  | 32.56 |  | 20 |  |
| 1946 | 2,671.50 |  | 1,806 |  | 2,083 |  | 695 |  | 32.68 |  | 21 |  |
| 1947 | 1,298.24 |  | 874 |  | 1,008 |  | 342 |  | 32.80 |  | 10 |  |
| 1948 | 1,334.77 |  | 894 |  | 1,031 |  | 357 |  | 32.92 |  | 11 |  |
| 1949 | 1,189.68 |  | 792 |  | 914 |  | 324 |  | 33.04 |  | 10 |  |
| 1951 | 2,121.49 |  | 1,398 |  | 1,613 |  | 594 |  | 33.28 |  | 18 |  |
| 1952 | 564.44 |  | 370 |  | 427 |  | 160 |  | 33.39 |  | 5 |  |
| 1953 | 76.00 |  | 50 |  | 58 |  | 21 |  | 33.50 |  | 1 |  |
| 1954 | 22.00 |  | 14 |  | 16 |  | 7 |  | 33.61 |  |  |  |
| 1955 | 2,332.00 |  | 1,503 |  | 1,734 |  | 691 |  | 33.71 |  | 20 |  |
| 1956 | 756.00 |  | 484 |  | 558 |  | 228 |  | 33.82 |  | 7 |  |
| 1957 | 178.00 |  | 113 |  | 130 |  | 55 |  | 33.92 |  | 2 |  |
| 1958 | 819.15 |  | 518 |  | 598 |  | 254 |  | 34.02 |  | 7 |  |
| 1959 | 1,406.00 |  | 884 |  | 1,020 |  | 442 |  | 34.12 |  | 13 |  |
| 1963 | 998.00 |  | 611 |  | 705 |  | 333 |  | 34.49 |  | 10 |  |
| 1964 | 29,385.00 |  | 17,856 |  | 20,599 |  | 9,961 |  | 34.58 |  | 288 |  |
| 1965 | 1,638.00 |  | 988 |  | 1,140 |  | 564 |  | 34.67 |  | 16 |  |
| 1966 | 682.72 |  | 409 |  | 472 |  | 238 |  | 34.76 |  | 7 |  |
| 1968 | 1,307.00 |  | 770 |  | 888 |  | 471 |  | 34.92 |  | 13 |  |
| 1980 | 125.13 |  | 66 |  | 76 |  | 54 |  | 35.77 |  | 2 |  |
| 1981 | 1,894.68 |  | 981 |  | 1,132 |  | 839 |  | 35.84 |  | 23 |  |
| 1982 | 31,717.08 |  | 16,227 |  | 18,720 |  | 14,266 |  | 35.90 |  | 397 |  |
| 1984 | 18,588.50 |  | 9,263 |  | 10,686 |  | 8,646 |  | 36.01 |  | 240 |  |
| 1985 | 18,140.23 |  | 8,914 |  | 10,284 |  | 8,582 |  | 36.07 |  | 238 |  |
| 1986 | 231.93 |  | 112 |  | 129 |  | 112 |  | 36.12 |  | 3 |  |
| 1988 | 12,367.93 |  | 5,808 |  | 6,700 |  | 6,162 |  | 36.23 |  | 170 |  |
| 1989 | 22,560.55 |  | 10,423 |  | 12,024 |  | 11,439 |  | 36.28 |  | 315 |  |
| 1990 | 2,287.23 |  | 1,039 |  | 1,199 |  | 1,180 |  | 36.33 |  | 32 |  |
| 1991 | 1,312.50 |  | 585 |  | 675 |  | 690 |  | 36.38 |  | 19 |  |
| 1992 | 11,114.19 |  | 4,865 |  | 5,612 |  | 5,946 |  | 36.42 |  | 163 |  |
| 1993 | 13,497.07 |  | 5,792 |  | 6,682 |  | 7,355 |  | 36.47 |  | 202 |  |
| 1994 | 3,107.28 |  | 1,306 |  | 1,507 |  | 1,725 |  | 36.52 |  | 47 |  |
| 1998 | 129,973.74 |  | 49,664 |  | 57,294 |  | 77,878 |  | 36.69 |  | 2,123 |  |
| 1999 | 32,441.94 |  | 12,063 |  | 13,916 |  | 19,823 |  | 36.73 |  | 540 |  |
| 2004 | 1,619.10 |  | 510 |  | 588 |  | 1,096 |  | 36.92 |  | 30 |  |
| 2006 | 81,785.53 |  | 23,638 |  | 27,270 |  | 57,787 |  | 37.00 |  | 1,562 |  |
| 2007 | 220,514.81 |  | 60,772 |  | 70,109 |  | 159,227 |  | 37.03 |  | 4,300 |  |
| 2008 | 297,987.67 |  | 77,867 |  | 89,830 |  | 220,077 |  | 37.07 |  | 5,937 |  |
| 2009 | 12,328.51 |  | 3,042 |  | 3,509 |  | 9,312 |  | 37.10 |  | 251 |  |
| 2013 | 111,058.77 |  | 20,218 |  | 23,324 |  | 92,177 |  | 37.23 |  | 2,476 |  |
| 2014 | 55,146.73 |  | 9,049 |  | 10,439 |  | 46,913 |  | 37.26 |  | 1,259 |  |
| 2015 | 4,316.87 |  | 628 |  | 724 |  | 3,765 |  | 37.29 |  | 101 |  |
| 2016 | 1,643,728.12 |  | 206,590 |  | 238,330 |  | 1,471,147 |  | 37.32 |  | 39,420 |  |
| 2017 | 177,264.67 |  | 18,675 |  | 21,544 |  | 162,811 |  | 37.35 |  | 4,359 |  |
| 2018 | 77,988.95 |  | 6,543 |  | 7,548 |  | 73,560 |  | 37.38 |  | 1,968 |  |
| 2019 | 6,826.48 |  | 418 |  | 482 |  | 6,617 |  | 37.41 |  | 177 |  |
| 2020 | 249,222.56 |  | 9,344 |  | 10,780 |  | 248,412 |  | 37.44 |  | 6,635 |  |
| 2021 | 3,277,042.10 |  | 41,341 |  | 47,693 |  | 3,360,431 |  | 37.47 |  | 89,683 |  |
|  | | | | | | | | | | | | |
|  | 6,751,666.16 |  | 779,928 |  | 899,754 |  | 6,121,978 |  |  | | 164,159 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1952 | 5,998,653.03 |  | 3,899,048 |  | 3,602,049 |  | 3,176,429 |  | 40.89 |  | 77,682 |  |
| 1953 | 876,812.58 |  | 565,974 |  | 522,863 |  | 467,936 |  | 41.08 |  | 11,391 |  |
| 1955 | 437.80 |  | 279 |  | 258 |  | 237 |  | 41.44 |  | 6 |  |
| 1956 | 499.92 |  | 316 |  | 292 |  | 273 |  | 41.62 |  | 7 |  |
| 1957 | 4,670.00 |  | 2,928 |  | 2,705 |  | 2,572 |  | 41.80 |  | 62 |  |
| 1969 | 1,173.01 |  | 663 |  | 612 |  | 713 |  | 43.69 |  | 16 |  |
| 1970 | 7,790.00 |  | 4,361 |  | 4,029 |  | 4,774 |  | 43.83 |  | 109 |  |
| 1971 | 7,941.43 |  | 4,400 |  | 4,065 |  | 4,909 |  | 43.97 |  | 112 |  |
| 1972 | 3,210.00 |  | 1,760 |  | 1,626 |  | 2,001 |  | 44.10 |  | 45 |  |
| 1981 | 4,749.00 |  | 2,331 |  | 2,153 |  | 3,213 |  | 45.20 |  | 71 |  |
| 1983 | 18,010.60 |  | 8,586 |  | 7,932 |  | 12,420 |  | 45.41 |  | 274 |  |
| 1984 | 165,494.62 |  | 77,700 |  | 71,781 |  | 115,228 |  | 45.51 |  | 2,532 |  |
| 1985 | 10,700.38 |  | 4,943 |  | 4,566 |  | 7,525 |  | 45.62 |  | 165 |  |
| 1986 | 244.02 |  | 111 |  | 103 |  | 173 |  | 45.72 |  | 4 |  |
| 1987 | 7,986.76 |  | 3,568 |  | 3,296 |  | 5,729 |  | 45.81 |  | 125 |  |
| 1989 | 42,610.77 |  | 18,352 |  | 16,954 |  | 31,196 |  | 46.00 |  | 678 |  |
| 1991 | 206,498.04 |  | 85,455 |  | 78,946 |  | 154,397 |  | 46.19 |  | 3,343 |  |
| 1992 | 214,186.39 |  | 86,795 |  | 80,184 |  | 161,847 |  | 46.27 |  | 3,498 |  |
| 1993 | 38,273.42 |  | 15,167 |  | 14,012 |  | 29,237 |  | 46.36 |  | 631 |  |
| 1995 | 22,254.07 |  | 8,411 |  | 7,770 |  | 17,377 |  | 46.52 |  | 374 |  |
| 1996 | 2,711.18 |  | 998 |  | 922 |  | 2,142 |  | 46.61 |  | 46 |  |
| 1997 | 39,433.38 |  | 14,141 |  | 13,064 |  | 31,496 |  | 46.68 |  | 675 |  |
| 1999 | 137,169.01 |  | 46,379 |  | 42,846 |  | 112,155 |  | 46.84 |  | 2,394 |  |
| 2000 | 118,554.70 |  | 38,836 |  | 35,878 |  | 98,089 |  | 46.91 |  | 2,091 |  |
| 2001 | 64,510.48 |  | 20,435 |  | 18,878 |  | 54,018 |  | 46.98 |  | 1,150 |  |
| 2003 | 46,834.81 |  | 13,769 |  | 12,720 |  | 40,203 |  | 47.12 |  | 853 |  |
| 2004 | 115,843.91 |  | 32,679 |  | 30,190 |  | 100,714 |  | 47.19 |  | 2,134 |  |
| 2005 | 12,313.24 |  | 3,323 |  | 3,070 |  | 10,844 |  | 47.26 |  | 229 |  |
| 2006 | 37,486.23 |  | 9,643 |  | 8,908 |  | 33,451 |  | 47.33 |  | 707 |  |
| 2007 | 28,597.16 |  | 6,990 |  | 6,458 |  | 25,857 |  | 47.39 |  | 546 |  |
| 2009 | 29,129.21 |  | 6,328 |  | 5,846 |  | 27,070 |  | 47.52 |  | 570 |  |
| 2010 | 580,761.64 |  | 117,904 |  | 108,923 |  | 547,338 |  | 47.58 |  | 11,504 |  |
| 2011 | 24,182.09 |  | 4,555 |  | 4,208 |  | 23,118 |  | 47.64 |  | 485 |  |
| 2013 | 1,352,670.16 |  | 213,442 |  | 197,184 |  | 1,331,334 |  | 47.75 |  | 27,881 |  |
| 2014 | 26,377.30 |  | 3,735 |  | 3,450 |  | 26,356 |  | 47.81 |  | 551 |  |
| 2015 | 413,820.69 |  | 51,620 |  | 47,688 |  | 419,929 |  | 47.87 |  | 8,772 |  |
| 2016 | 1,058,776.35 |  | 113,863 |  | 105,190 |  | 1,091,227 |  | 47.92 |  | 22,772 |  |
| 2017 | 2,993,553.20 |  | 267,505 |  | 247,129 |  | 3,135,587 |  | 47.98 |  | 65,352 |  |
| 2018 | 1,017,731.48 |  | 72,050 |  | 66,562 |  | 1,083,475 |  | 48.03 |  | 22,558 |  |
| 2019 | 6,659,013.75 |  | 343,502 |  | 317,337 |  | 7,207,349 |  | 48.08 |  | 149,903 |  |
| 2020 | 180,420.40 |  | 5,682 |  | 5,249 |  | 198,626 |  | 48.13 |  | 4,127 |  |
| 2021 | 862,782.49 |  | 9,223 |  | 8,520 |  | 966,424 |  | 48.18 |  | 20,059 |  |
|  | | | | | | | | | | | | |
|  | 23,434,868.70 |  | 6,187,750 |  | 5,716,415 |  | 20,764,986 |  |  | | 446,484 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1959 | 6,197,842.76 |  | 3,901,633 |  | 3,205,921 |  | 4,293,468 |  | 46.18 |  | 92,972 |  |
| 1960 | 250,457.46 |  | 156,318 |  | 128,444 |  | 174,609 |  | 46.39 |  | 3,764 |  |
| 1961 | 5,133.03 |  | 3,175 |  | 2,609 |  | 3,602 |  | 46.61 |  | 77 |  |
| 1962 | 20,854.55 |  | 12,782 |  | 10,503 |  | 14,731 |  | 46.82 |  | 315 |  |
| 1965 | 3,207.21 |  | 1,910 |  | 1,569 |  | 2,311 |  | 47.43 |  | 49 |  |
| 1966 | 4,775.16 |  | 2,817 |  | 2,315 |  | 3,463 |  | 47.62 |  | 73 |  |
| 1968 | 367.70 |  | 212 |  | 174 |  | 271 |  | 48.01 |  | 6 |  |
| 1970 | 2,295.75 |  | 1,298 |  | 1,067 |  | 1,711 |  | 48.38 |  | 35 |  |
| 1971 | 372.90 |  | 209 |  | 172 |  | 279 |  | 48.56 |  | 6 |  |
| 1973 | 1,097.39 |  | 600 |  | 493 |  | 835 |  | 48.91 |  | 17 |  |
| 1977 | 1,701,943.79 |  | 884,245 |  | 726,573 |  | 1,332,779 |  | 49.57 |  | 26,887 |  |
| 1978 | 362,980.42 |  | 186,026 |  | 152,855 |  | 286,351 |  | 49.73 |  | 5,758 |  |
| 1980 | 768.01 |  | 383 |  | 315 |  | 615 |  | 50.03 |  | 12 |  |
| 1983 | 3,784.84 |  | 1,801 |  | 1,480 |  | 3,100 |  | 50.47 |  | 61 |  |
| 1985 | 15,044.70 |  | 6,925 |  | 5,690 |  | 12,514 |  | 50.74 |  | 247 |  |
| 1986 | 767,053.21 |  | 346,779 |  | 284,944 |  | 643,191 |  | 50.88 |  | 12,641 |  |
| 1987 | 5,148.85 |  | 2,286 |  | 1,878 |  | 4,352 |  | 51.01 |  | 85 |  |
| 1988 | 14,450.80 |  | 6,295 |  | 5,173 |  | 12,313 |  | 51.14 |  | 241 |  |
| 1989 | 19,436.91 |  | 8,303 |  | 6,822 |  | 16,696 |  | 51.26 |  | 326 |  |
| 1990 | 4,932.08 |  | 2,063 |  | 1,695 |  | 4,273 |  | 51.39 |  | 83 |  |
| 1991 | 137,177.47 |  | 56,174 |  | 46,157 |  | 119,827 |  | 51.51 |  | 2,326 |  |
| 1992 | 81,589.33 |  | 32,686 |  | 26,858 |  | 71,865 |  | 51.62 |  | 1,392 |  |
| 1993 | 31,804.21 |  | 12,445 |  | 10,226 |  | 28,257 |  | 51.74 |  | 546 |  |
| 1995 | 93,989.82 |  | 34,989 |  | 28,750 |  | 84,978 |  | 51.96 |  | 1,635 |  |
| 1996 | 14,153.04 |  | 5,129 |  | 4,214 |  | 12,911 |  | 52.07 |  | 248 |  |
| 1997 | 265,922.66 |  | 93,676 |  | 76,972 |  | 244,794 |  | 52.18 |  | 4,691 |  |
| 1998 | 143,677.23 |  | 49,140 |  | 40,378 |  | 133,472 |  | 52.28 |  | 2,553 |  |
| 1999 | 176,353.93 |  | 58,449 |  | 48,027 |  | 165,361 |  | 52.38 |  | 3,157 |  |
| 2000 | 8,388.81 |  | 2,690 |  | 2,210 |  | 7,940 |  | 52.48 |  | 151 |  |
| 2001 | 5,128.92 |  | 1,588 |  | 1,305 |  | 4,901 |  | 52.58 |  | 93 |  |
| 2002 | 4,075.68 |  | 1,215 |  | 998 |  | 3,933 |  | 52.68 |  | 75 |  |
| 2003 | 83.76 |  | 24 |  | 20 |  | 82 |  | 52.77 |  | 2 |  |
| 2004 | 56,777.43 |  | 15,583 |  | 12,804 |  | 55,896 |  | 52.87 |  | 1,057 |  |
| 2005 | 29,010.35 |  | 7,606 |  | 6,250 |  | 28,853 |  | 52.96 |  | 545 |  |
| 2006 | 152,228.54 |  | 38,029 |  | 31,248 |  | 152,949 |  | 53.04 |  | 2,884 |  |
| 2007 | 696,234.05 |  | 164,891 |  | 135,489 |  | 706,954 |  | 53.13 |  | 13,306 |  |
| 2008 | 8,317.99 |  | 1,859 |  | 1,528 |  | 8,537 |  | 53.22 |  | 160 |  |
| 2009 | 193,050.15 |  | 40,533 |  | 33,305 |  | 200,285 |  | 53.30 |  | 3,758 |  |
| 2010 | 792,771.86 |  | 155,284 |  | 127,595 |  | 831,659 |  | 53.38 |  | 15,580 |  |
| 2011 | 827,975.25 |  | 150,067 |  | 123,308 |  | 878,542 |  | 53.47 |  | 16,431 |  |
| 2012 | 86,624.05 |  | 14,433 |  | 11,859 |  | 92,956 |  | 53.54 |  | 1,736 |  |
| 2013 | 168,519.90 |  | 25,489 |  | 20,944 |  | 182,965 |  | 53.62 |  | 3,412 |  |
| 2014 | 1,347,044.43 |  | 182,486 |  | 149,946 |  | 1,479,977 |  | 53.70 |  | 27,560 |  |
| 2015 | 1,726,747.78 |  | 205,970 |  | 169,243 |  | 1,920,122 |  | 53.77 |  | 35,710 |  |
| 2016 | 547,708.76 |  | 56,100 |  | 46,097 |  | 616,631 |  | 53.85 |  | 11,451 |  |
| 2017 | 161,911.87 |  | 13,781 |  | 11,324 |  | 184,590 |  | 53.92 |  | 3,423 |  |
| 2018 | 2,022,254.85 |  | 136,098 |  | 111,830 |  | 2,335,098 |  | 53.99 |  | 43,251 |  |
| 2019 | 1,513,634.28 |  | 74,121 |  | 60,904 |  | 1,770,593 |  | 54.06 |  | 32,752 |  |
| 2020 | 770,088.68 |  | 22,997 |  | 18,896 |  | 912,911 |  | 54.13 |  | 16,865 |  |
| 2021 | 42,567.25 |  | 434 |  | 357 |  | 51,150 |  | 54.20 |  | 944 |  |
|  | | | | | | | | | | | | |
|  | 21,487,759.85 |  | 7,180,026 |  | 5,899,734 |  | 20,100,455 |  |  | | 391,349 |  |
|  | | | | | | | | | | | | |
|  | 94,195,101.74 |  | 23,770,369 |  | 19,680,245 |  | 84,521,422 |  |  | | 2,005,236 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 42.2 2.13 | | | | | | | | | | | |

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| LONG LAKE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-S2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2055 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1993 | 64,872.23 |  | 36,119 |  | 64,871 |  | 3,893 |  | 24.62 |  | 158 |  |
| 2021 | 1,506.10 |  | 24 |  | 43 |  | 1,553 |  | 33.38 |  | 47 |  |
|  | | | | | | | | | | | | |
|  | 66,378.33 |  | 36,143 |  | 64,914 |  | 5,447 |  |  | | 205 |  |

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| POST FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-S2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2000 | 2,664.78 |  | 1,141 |  | 2,565 |  | 207 |  | 30.10 |  | 7 |  |
| 2021 | 3,516.31 |  | 48 |  | 108 |  | 3,549 |  | 37.75 |  | 94 |  |
|  | | | | | | | | | | | | |
|  | 6,181.09 |  | 1,189 |  | 2,673 |  | 3,756 |  |  | | 101 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-S2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1994 | 1,140.98 |  | 621 |  | 802 |  | 487 |  | 28.33 |  | 17 |  |
| 2003 | 9,469.03 |  | 3,647 |  | 4,712 |  | 5,988 |  | 35.32 |  | 170 |  |
| 2010 | 12,927.68 |  | 3,231 |  | 4,175 |  | 10,434 |  | 40.39 |  | 258 |  |
| 2012 | 4,846.30 |  | 1,015 |  | 1,311 |  | 4,165 |  | 41.69 |  | 100 |  |
| 2015 | 3,266.08 |  | 480 |  | 620 |  | 3,071 |  | 43.47 |  | 71 |  |
|  | | | | | | | | | | | | |
|  | 31,650.07 |  | 8,994 |  | 11,620 |  | 24,144 |  |  | | 616 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-S2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1994 | 1,448.95 |  | 839 |  | 504 |  | 1,249 |  | 28.62 |  | 44 |  |
| 2001 | 6,257.99 |  | 2,789 |  | 1,677 |  | 5,895 |  | 34.50 |  | 171 |  |
| 2006 | 89,764.55 |  | 30,838 |  | 18,543 |  | 90,072 |  | 38.79 |  | 2,322 |  |
| 2013 | 644,322.07 |  | 124,982 |  | 75,152 |  | 704,477 |  | 44.47 |  | 15,842 |  |
| 2014 | 155,921.29 |  | 26,809 |  | 16,120 |  | 172,544 |  | 45.22 |  | 3,816 |  |
| 2017 | 28,063.21 |  | 2,946 |  | 1,771 |  | 32,185 |  | 47.36 |  | 680 |  |
| 2020 | 37,187.00 |  | 1,329 |  | 799 |  | 44,197 |  | 49.30 |  | 896 |  |
| 2021 | 127,156.01 |  | 1,526 |  | 918 |  | 152,941 |  | 49.90 |  | 3,065 |  |
|  | | | | | | | | | | | | |
|  | 1,090,121.07 |  | 192,058 |  | 115,486 |  | 1,203,561 |  |  | | 26,836 |  |
|  | | | | | | | | | | | | |
|  | 1,194,330.56 |  | 238,384 |  | 194,693 |  | 1,236,908 |  |  | | 27,758 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 44.6 2.32 | | | | | | | | | | | |

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| MONROE STREET | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -7 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1975 | 7,680.00 |  | 5,973 |  | 4,706 |  | 3,511 |  | 13.66 |  | 257 |  |
| 1992 | 412,574.09 |  | 224,749 |  | 177,090 |  | 264,364 |  | 24.52 |  | 10,782 |  |
| 1993 | 55,868.81 |  | 29,542 |  | 23,278 |  | 36,502 |  | 25.26 |  | 1,445 |  |
| 1994 | 31,578.47 |  | 16,197 |  | 12,762 |  | 21,027 |  | 25.99 |  | 809 |  |
| 2014 | 3,529,323.57 |  | 561,660 |  | 442,558 |  | 3,333,818 |  | 40.18 |  | 82,972 |  |
|  | | | | | | | | | | | | |
|  | 4,037,024.94 |  | 838,121 |  | 660,395 |  | 3,659,222 |  |  | | 96,265 |  |

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| LONG LAKE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2055 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1993 | 34,452.43 |  | 18,819 |  | 22,000 |  | 14,520 |  | 23.41 |  | 620 |  |
| 1994 | 24,243.94 |  | 12,908 |  | 15,090 |  | 10,609 |  | 23.92 |  | 444 |  |
| 2004 | 6,495.09 |  | 2,498 |  | 2,920 |  | 3,965 |  | 28.22 |  | 141 |  |
| 2006 | 57,517.50 |  | 20,224 |  | 23,643 |  | 37,326 |  | 28.89 |  | 1,292 |  |
| 2007 | 82,524.79 |  | 27,601 |  | 32,266 |  | 55,210 |  | 29.20 |  | 1,891 |  |
| 2012 | 66,777.77 |  | 16,065 |  | 18,781 |  | 52,004 |  | 30.52 |  | 1,704 |  |
| 2013 | 250,211.63 |  | 54,986 |  | 64,280 |  | 200,944 |  | 30.74 |  | 6,537 |  |
| 2014 | 257,679.55 |  | 51,083 |  | 59,718 |  | 213,423 |  | 30.95 |  | 6,896 |  |
| 2015 | 652,299.53 |  | 114,467 |  | 133,816 |  | 557,622 |  | 31.15 |  | 17,901 |  |
| 2018 | 202,584.43 |  | 20,591 |  | 24,072 |  | 190,668 |  | 31.68 |  | 6,019 |  |
| 2020 | 12,694.92 |  | 580 |  | 678 |  | 12,779 |  | 31.99 |  | 399 |  |
| 2021 | 73,200.33 |  | 1,142 |  | 1,335 |  | 76,257 |  | 32.13 |  | 2,373 |  |
|  | | | | | | | | | | | | |
|  | 1,720,681.91 |  | 340,964 |  | 398,598 |  | 1,425,325 |  |  | | 46,217 |  |

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| SPOKANE UPPER FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1974 | 5,979.70 |  | 4,673 |  | 6,401 |  | 62 | - |  |  |  |  |
|  | | | | | | | | | | | | |
|  | 5,979.70 |  | 4,673 |  | 6,401 |  | 62 | - |  | |  |  |

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| NINE MILE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2014 | 176,785.92 |  | 31,361 |  | 48,774 |  | 135,083 |  | 34.38 |  | 3,929 |  |
| 2015 | 110,074.63 |  | 17,247 |  | 26,823 |  | 87,654 |  | 34.67 |  | 2,528 |  |
| 2019 | 83,891.11 |  | 5,477 |  | 8,518 |  | 78,729 |  | 35.68 |  | 2,207 |  |
|  | | | | | | | | | | | | |
|  | 370,751.66 |  | 54,085 |  | 84,116 |  | 301,466 |  |  | | 8,664 |  |

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| POST FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1990 | 3,716.97 |  | 2,106 |  | 1,817 |  | 2,049 |  | 22.54 |  | 91 |  |
| 2006 | 198,854.47 |  | 64,499 |  | 55,651 |  | 151,158 |  | 31.44 |  | 4,808 |  |
| 2012 | 43,537.76 |  | 9,457 |  | 8,160 |  | 37,120 |  | 33.75 |  | 1,100 |  |
| 2014 | 32,396.62 |  | 5,747 |  | 4,959 |  | 28,734 |  | 34.38 |  | 836 |  |
| 2015 | 361,091.33 |  | 56,578 |  | 48,816 |  | 326,719 |  | 34.67 |  | 9,424 |  |
| 2016 | 2,761.44 |  | 373 |  | 322 |  | 2,550 |  | 34.94 |  | 73 |  |
| 2017 | 180,519.52 |  | 20,353 |  | 17,561 |  | 170,179 |  | 35.20 |  | 4,835 |  |
| 2018 | 48,978.25 |  | 4,374 |  | 3,774 |  | 47,163 |  | 35.45 |  | 1,330 |  |
| 2019 | 10,913.58 |  | 713 |  | 615 |  | 10,735 |  | 35.68 |  | 301 |  |
| 2020 | 13,400.64 |  | 534 |  | 461 |  | 13,476 |  | 35.90 |  | 375 |  |
| 2021 | 5,008.16 |  | 68 |  | 59 |  | 5,150 |  | 36.10 |  | 143 |  |
|  | | | | | | | | | | | | |
|  | 901,178.74 |  | 164,802 |  | 142,194 |  | 795,032 |  |  | | 23,316 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1993 | 16,949.60 |  | 9,465 |  | 12,520 |  | 6,633 |  | 25.26 |  | 263 |  |
| 1994 | 786.81 |  | 426 |  | 563 |  | 326 |  | 25.99 |  | 13 |  |
| 1995 | 5,000.00 |  | 2,622 |  | 3,468 |  | 2,182 |  | 26.74 |  | 82 |  |
| 2000 | 15,100.89 |  | 6,593 |  | 8,721 |  | 8,343 |  | 30.48 |  | 274 |  |
| 2001 | 294,941.72 |  | 123,395 |  | 163,221 |  | 170,063 |  | 31.23 |  | 5,446 |  |
| 2002 | 8,994.62 |  | 3,599 |  | 4,761 |  | 5,403 |  | 31.98 |  | 169 |  |
| 2004 | 204,365.84 |  | 74,277 |  | 98,250 |  | 132,683 |  | 33.45 |  | 3,967 |  |
| 2006 | 23,947.47 |  | 7,803 |  | 10,321 |  | 16,739 |  | 34.90 |  | 480 |  |
| 2007 | 64,984.82 |  | 19,947 |  | 26,385 |  | 47,048 |  | 35.61 |  | 1,321 |  |
| 2008 | 11,275.05 |  | 3,243 |  | 4,290 |  | 8,451 |  | 36.31 |  | 233 |  |
| 2009 | 71,020.92 |  | 19,042 |  | 25,188 |  | 55,066 |  | 37.00 |  | 1,488 |  |
| 2011 | 41,933.76 |  | 9,603 |  | 12,702 |  | 34,683 |  | 38.32 |  | 905 |  |
| 2012 | 169,622.14 |  | 35,415 |  | 46,845 |  | 144,828 |  | 38.96 |  | 3,717 |  |
| 2013 | 9,829.48 |  | 1,854 |  | 2,452 |  | 8,655 |  | 39.58 |  | 219 |  |
| 2015 | 8,357.12 |  | 1,229 |  | 1,626 |  | 7,818 |  | 40.76 |  | 192 |  |
| 2016 | 198,015.48 |  | 24,877 |  | 32,906 |  | 190,851 |  | 41.33 |  | 4,618 |  |
| 2017 | 103,696.27 |  | 10,774 |  | 14,251 |  | 102,925 |  | 41.87 |  | 2,458 |  |
| 2018 | 45,127.67 |  | 3,683 |  | 4,872 |  | 46,123 |  | 42.39 |  | 1,088 |  |
| 2019 | 30,213.22 |  | 1,788 |  | 2,365 |  | 31,776 |  | 42.88 |  | 741 |  |
| 2020 | 37,273.43 |  | 1,336 |  | 1,767 |  | 40,352 |  | 43.36 |  | 931 |  |
| 2021 | 992,605.95 |  | 12,159 |  | 16,083 |  | 1,105,561 |  | 43.81 |  | 25,235 |  |
|  | | | | | | | | | | | | |
|  | 2,354,042.26 |  | 373,130 |  | 493,559 |  | 2,166,509 |  |  | | 53,840 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1990 | 7,180.92 |  | 4,673 |  | 4,848 |  | 3,841 |  | 23.11 |  | 166 |  |
| 1992 | 10,530.55 |  | 6,478 |  | 6,721 |  | 6,021 |  | 24.58 |  | 245 |  |
| 1993 | 5,983.25 |  | 3,574 |  | 3,708 |  | 3,532 |  | 25.32 |  | 139 |  |
| 1994 | 17,352.07 |  | 10,042 |  | 10,418 |  | 10,578 |  | 26.08 |  | 406 |  |
| 1995 | 16,535.20 |  | 9,265 |  | 9,612 |  | 10,396 |  | 26.84 |  | 387 |  |
| 2000 | 52,789.66 |  | 24,519 |  | 25,437 |  | 38,438 |  | 30.77 |  | 1,249 |  |
| 2002 | 38,409.96 |  | 16,312 |  | 16,923 |  | 29,553 |  | 32.38 |  | 913 |  |
| 2003 | 4,027.16 |  | 1,630 |  | 1,691 |  | 3,182 |  | 33.18 |  | 96 |  |
| 2004 | 299,668.32 |  | 115,212 |  | 119,527 |  | 243,072 |  | 33.99 |  | 7,151 |  |
| 2006 | 206,696.01 |  | 71,012 |  | 73,672 |  | 176,431 |  | 35.61 |  | 4,955 |  |
| 2007 | 180,618.34 |  | 58,300 |  | 60,484 |  | 158,065 |  | 36.42 |  | 4,340 |  |
| 2009 | 77,021.38 |  | 21,628 |  | 22,438 |  | 70,758 |  | 38.02 |  | 1,861 |  |
| 2010 | 77,628.62 |  | 20,166 |  | 20,921 |  | 73,009 |  | 38.81 |  | 1,881 |  |
| 2011 | 6,778.08 |  | 1,615 |  | 1,675 |  | 6,526 |  | 39.60 |  | 165 |  |
| 2012 | 44,775.09 |  | 9,705 |  | 10,068 |  | 44,109 |  | 40.37 |  | 1,093 |  |
| 2013 | 3,545.23 |  | 691 |  | 717 |  | 3,573 |  | 41.14 |  | 87 |  |
| 2014 | 65,636.65 |  | 11,371 |  | 11,797 |  | 67,623 |  | 41.89 |  | 1,614 |  |
| 2015 | 30,401.58 |  | 4,592 |  | 4,764 |  | 32,022 |  | 42.63 |  | 751 |  |
| 2016 | 222,038.84 |  | 28,522 |  | 29,590 |  | 239,077 |  | 43.36 |  | 5,514 |  |
| 2017 | 29,790.80 |  | 3,157 |  | 3,275 |  | 32,772 |  | 44.07 |  | 744 |  |
| 2018 | 458,353.87 |  | 38,079 |  | 39,505 |  | 515,103 |  | 44.76 |  | 11,508 |  |
| 2019 | 339,830.66 |  | 20,305 |  | 21,065 |  | 390,130 |  | 45.43 |  | 8,587 |  |
| 2020 | 64,477.28 |  | 2,332 |  | 2,419 |  | 75,598 |  | 46.09 |  | 1,640 |  |
| 2021 | 72,239.99 |  | 889 |  | 922 |  | 86,488 |  | 46.72 |  | 1,851 |  |
|  | | | | | | | | | | | | |
|  | 2,332,309.51 |  | 484,069 |  | 502,199 |  | 2,319,895 |  |  | | 57,343 |  |
|  | | | | | | | | | | | | |
|  | 11,721,968.72 |  | 2,259,844 |  | 2,287,462 |  | 10,667,387 |  |  | | 285,645 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 37.3 2.44 | | | | | | | | | | | |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2004 | 24,242.30 |  | 9,162 |  | 16,805 |  | 10,588 |  | 33.09 |  | 320 |  |
| 2018 | 4,172.82 |  | 348 |  | 638 |  | 4,077 |  | 43.20 |  | 94 |  |
| 2020 | 9,495.79 |  | 345 |  | 633 |  | 10,097 |  | 44.28 |  | 228 |  |
|  | | | | | | | | | | | | |
|  | 37,910.91 |  | 9,855 |  | 18,077 |  | 24,763 |  |  | | 642 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2004 | 11,358.62 |  | 4,571 |  | 5,990 |  | 7,754 |  | 33.35 |  | 233 |  |
| 2020 | 2,246.94 |  | 83 |  | 109 |  | 2,610 |  | 46.84 |  | 56 |  |
|  | | | | | | | | | | | | |
|  | 13,605.56 |  | 4,654 |  | 6,099 |  | 10,364 |  |  | | 289 |  |
|  | | | | | | | | | | | | |
|  | 51,516.47 |  | 14,509 |  | 24,175 |  | 35,127 |  |  | | 931 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 37.7 1.81 | | | | | | | | | | | |

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| MONROE STREET | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -7 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1972 | 1,527,619.08 |  | 772,637 |  | 435,752 |  | 1,198,801 |  | 43.93 |  | 27,289 |  |
| 1973 | 955,021.89 |  | 477,889 |  | 269,520 |  | 752,354 |  | 44.03 |  | 17,087 |  |
| 1974 | 20,646.77 |  | 10,219 |  | 5,763 |  | 16,329 |  | 44.13 |  | 370 |  |
| 1975 | 509.80 |  | 249 |  | 140 |  | 405 |  | 44.23 |  | 9 |  |
| 1992 | 2,497,418.44 |  | 936,112 |  | 527,948 |  | 2,144,289 |  | 45.66 |  | 46,962 |  |
| 1994 | 240,802.88 |  | 86,324 |  | 48,685 |  | 208,974 |  | 45.79 |  | 4,564 |  |
| 1995 | 2,739,018.41 |  | 958,267 |  | 540,443 |  | 2,390,306 |  | 45.86 |  | 52,122 |  |
| 1997 | 43,306.50 |  | 14,378 |  | 8,109 |  | 38,229 |  | 45.99 |  | 831 |  |
| 1998 | 6,833.48 |  | 2,206 |  | 1,244 |  | 6,068 |  | 46.05 |  | 132 |  |
| 1999 | 946.12 |  | 296 |  | 167 |  | 845 |  | 46.12 |  | 18 |  |
| 2010 | 9,557.31 |  | 1,801 |  | 1,016 |  | 9,211 |  | 46.74 |  | 197 |  |
| 2011 | 1,930,338.85 |  | 337,848 |  | 190,539 |  | 1,874,923 |  | 46.79 |  | 40,071 |  |
|  | | | | | | | | | | | | |
|  | 9,972,019.53 |  | 3,598,226 |  | 2,029,327 |  | 8,640,734 |  |  | | 189,652 |  |

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| LITTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2059 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -5 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1910 | 611,600.16 |  | 467,860 |  | 642,180 |  |  |  |  |  |  |  |
| 1911 | 2,825.00 |  | 2,155 |  | 2,966 |  |  |  |  |  |  |  |
| 1912 | 3,289.00 |  | 2,502 |  | 3,453 |  |  |  |  |  |  |  |
| 1913 | 423.06 |  | 321 |  | 444 |  |  |  |  |  |  |  |
| 1914 | 259.00 |  | 196 |  | 272 |  |  |  |  |  |  |  |
| 1916 | 8,598.73 |  | 6,466 |  | 9,029 |  |  |  |  |  |  |  |
| 1920 | 952.03 |  | 707 |  | 1,000 |  |  |  |  |  |  |  |
| 1921 | 109.00 |  | 81 |  | 114 |  |  |  |  |  |  |  |
| 1923 | 330.00 |  | 243 |  | 347 |  |  |  |  |  |  |  |
| 1925 | 2,383.00 |  | 1,743 |  | 2,502 |  |  |  |  |  |  |  |
| 1926 | 890.00 |  | 649 |  | 935 |  |  |  |  |  |  |  |
| 1927 | 859.00 |  | 624 |  | 902 |  |  |  |  |  |  |  |
| 1934 | 260.00 |  | 184 |  | 273 |  |  |  |  |  |  |  |
| 1942 | 499.00 |  | 342 |  | 524 |  |  |  |  |  |  |  |
| 1943 | 450.00 |  | 307 |  | 473 |  |  |  |  |  |  |  |
| 1944 | 249.00 |  | 169 |  | 261 |  |  |  |  |  |  |  |
| 1945 | 393.00 |  | 266 |  | 412 |  | 1 |  | 32.29 |  |  |  |
| 1946 | 3,015.00 |  | 2,032 |  | 3,144 |  | 22 |  | 32.38 |  | 1 |  |
| 1952 | 176.00 |  | 115 |  | 178 |  | 7 |  | 32.89 |  |  |  |
| 1954 | 663.00 |  | 429 |  | 664 |  | 32 |  | 33.05 |  | 1 |  |
| 1955 | 889.00 |  | 572 |  | 885 |  | 48 |  | 33.13 |  | 1 |  |
| 1956 | 13,912.00 |  | 8,904 |  | 13,777 |  | 830 |  | 33.21 |  | 25 |  |
| 1957 | 4,697.00 |  | 2,989 |  | 4,625 |  | 307 |  | 33.28 |  | 9 |  |
| 1958 | 2,795.00 |  | 1,768 |  | 2,736 |  | 199 |  | 33.35 |  | 6 |  |
| 1960 | 410.00 |  | 256 |  | 396 |  | 34 |  | 33.50 |  | 1 |  |
| 1962 | 8,912.00 |  | 5,496 |  | 8,504 |  | 854 |  | 33.64 |  | 25 |  |
| 1963 | 17,387.00 |  | 10,650 |  | 16,479 |  | 1,777 |  | 33.70 |  | 53 |  |
| 1966 | 1,479.00 |  | 887 |  | 1,372 |  | 180 |  | 33.90 |  | 5 |  |
| 1970 | 17,295.00 |  | 10,048 |  | 15,547 |  | 2,612 |  | 34.14 |  | 77 |  |
| 1973 | 5,689.33 |  | 3,220 |  | 4,982 |  | 991 |  | 34.31 |  | 29 |  |
| 1974 | 758.50 |  | 425 |  | 658 |  | 139 |  | 34.37 |  | 4 |  |
| 1977 | 7,577.12 |  | 4,125 |  | 6,383 |  | 1,573 |  | 34.52 |  | 46 |  |
| 1984 | 920.27 |  | 461 |  | 713 |  | 253 |  | 34.85 |  | 7 |  |
| 1987 | 16,462.87 |  | 7,906 |  | 12,233 |  | 5,053 |  | 34.98 |  | 144 |  |
| 1988 | 24,486.96 |  | 11,578 |  | 17,915 |  | 7,796 |  | 35.02 |  | 223 |  |
| 1989 | 17,631.63 |  | 8,202 |  | 12,691 |  | 5,822 |  | 35.06 |  | 166 |  |
| 1994 | 61,907.68 |  | 26,243 |  | 40,606 |  | 24,397 |  | 35.24 |  | 692 |  |
| 1995 | 2,253.91 |  | 935 |  | 1,447 |  | 920 |  | 35.27 |  | 26 |  |
| 1997 | 410,414.98 |  | 162,484 |  | 251,415 |  | 179,521 |  | 35.34 |  | 5,080 |  |
| 1999 | 1,657,476.43 |  | 622,732 |  | 963,566 |  | 776,784 |  | 35.41 |  | 21,937 |  |
| 2000 | 762,281.39 |  | 278,289 |  | 430,602 |  | 369,793 |  | 35.44 |  | 10,434 |  |
| 2001 | 1,182,979.51 |  | 418,920 |  | 648,204 |  | 593,925 |  | 35.47 |  | 16,744 |  |
| 2005 | 35,540.52 |  | 10,882 |  | 16,838 |  | 20,480 |  | 35.59 |  | 575 |  |
| 2015 | 6,941.38 |  | 1,028 |  | 1,591 |  | 5,698 |  | 35.87 |  | 159 |  |
| 2017 | 152,635.39 |  | 16,342 |  | 25,286 |  | 134,981 |  | 35.93 |  | 3,757 |  |
| 2018 | 53,954.35 |  | 4,617 |  | 7,144 |  | 49,508 |  | 35.95 |  | 1,377 |  |
| 2019 | 1,273,641.26 |  | 79,691 |  | 123,308 |  | 1,214,016 |  | 35.98 |  | 33,741 |  |
|  | | | | | | | | | | | | |
|  | 6,379,552.46 |  | 2,187,041 |  | 3,299,976 |  | 3,398,554 |  |  | | 95,345 |  |

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| LONG LAKE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2055 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1915 | 2,576,037.01 |  | 2,010,568 |  | 2,730,599 |  |  |  |  |  |  |  |
| 1916 | 3,271.00 |  | 2,546 |  | 3,467 |  |  |  |  |  |  |  |
| 1917 | 1,530.00 |  | 1,188 |  | 1,622 |  |  |  |  |  |  |  |
| 1918 | 64,061.00 |  | 49,610 |  | 67,905 |  |  |  |  |  |  |  |
| 1919 | 93,808.00 |  | 72,446 |  | 99,436 |  |  |  |  |  |  |  |
| 1920 | 23,359.00 |  | 17,992 |  | 24,761 |  |  |  |  |  |  |  |
| 1921 | 15,521.00 |  | 11,922 |  | 16,452 |  |  |  |  |  |  |  |
| 1922 | 3,110.00 |  | 2,382 |  | 3,297 |  |  |  |  |  |  |  |
| 1923 | 62,619.00 |  | 47,830 |  | 66,376 |  |  |  |  |  |  |  |
| 1924 | 12,500.00 |  | 9,520 |  | 13,250 |  |  |  |  |  |  |  |
| 1925 | 2,785.00 |  | 2,115 |  | 2,952 |  |  |  |  |  |  |  |
| 1926 | 1,997.00 |  | 1,512 |  | 2,117 |  |  |  |  |  |  |  |
| 1929 | 243.00 |  | 182 |  | 258 |  |  |  |  |  |  |  |
| 1930 | 58,587.00 |  | 43,814 |  | 62,102 |  |  |  |  |  |  |  |
| 1934 | 3,256.00 |  | 2,403 |  | 3,451 |  |  |  |  |  |  |  |
| 1940 | 659.00 |  | 476 |  | 699 |  |  |  |  |  |  |  |
| 1946 | 183.00 |  | 129 |  | 194 |  |  |  |  |  |  |  |
| 1949 | 135,867.42 |  | 94,608 |  | 142,250 |  | 1,770 |  | 29.76 |  | 59 |  |
| 1950 | 6,787.32 |  | 4,704 |  | 7,073 |  | 122 |  | 29.83 |  | 4 |  |
| 1951 | 26,173.19 |  | 18,055 |  | 27,147 |  | 597 |  | 29.90 |  | 20 |  |
| 1952 | 8,384.51 |  | 5,757 |  | 8,656 |  | 232 |  | 29.96 |  | 8 |  |
| 1955 | 1,231.16 |  | 833 |  | 1,252 |  | 53 |  | 30.15 |  | 2 |  |
| 1960 | 5,951.45 |  | 3,915 |  | 5,886 |  | 422 |  | 30.45 |  | 14 |  |
| 1961 | 25,831.00 |  | 16,896 |  | 25,404 |  | 1,977 |  | 30.50 |  | 65 |  |
| 1962 | 18,134.00 |  | 11,788 |  | 17,724 |  | 1,498 |  | 30.56 |  | 49 |  |
| 1963 | 19,741.00 |  | 12,753 |  | 19,175 |  | 1,750 |  | 30.61 |  | 57 |  |
| 1964 | 71.06 |  | 46 |  | 69 |  | 6 |  | 30.66 |  |  |  |
| 1969 | 2,353.00 |  | 1,458 |  | 2,192 |  | 302 |  | 30.91 |  | 10 |  |
| 1971 | 7,096.11 |  | 4,331 |  | 6,512 |  | 1,010 |  | 31.00 |  | 33 |  |
| 1987 | 413,923.95 |  | 212,952 |  | 320,188 |  | 118,572 |  | 31.61 |  | 3,751 |  |
| 1988 | 385,288.23 |  | 195,279 |  | 293,615 |  | 114,790 |  | 31.65 |  | 3,627 |  |
| 1989 | 671,078.82 |  | 335,000 |  | 503,695 |  | 207,648 |  | 31.68 |  | 6,555 |  |
| 1990 | 1,917,672.47 |  | 942,070 |  | 1,416,466 |  | 616,267 |  | 31.71 |  | 19,434 |  |
| 1992 | 2,090,902.34 |  | 992,795 |  | 1,492,734 |  | 723,622 |  | 31.76 |  | 22,784 |  |
| 1993 | 63,488.82 |  | 29,586 |  | 44,485 |  | 22,814 |  | 31.79 |  | 718 |  |
| 1994 | 2,168,656.90 |  | 991,186 |  | 1,490,315 |  | 808,461 |  | 31.82 |  | 25,407 |  |
| 1995 | 634,895.44 |  | 284,257 |  | 427,400 |  | 245,590 |  | 31.85 |  | 7,711 |  |
| 1996 | 25,228.73 |  | 11,055 |  | 16,622 |  | 10,121 |  | 31.87 |  | 318 |  |
| 1997 | 586,378.29 |  | 251,086 |  | 377,525 |  | 244,036 |  | 31.90 |  | 7,650 |  |
| 1999 | 1,999,403.05 |  | 814,409 |  | 1,224,519 |  | 894,848 |  | 31.95 |  | 28,008 |  |
| 2000 | 1,407,141.49 |  | 557,370 |  | 838,043 |  | 653,527 |  | 31.98 |  | 20,435 |  |
| 2001 | 59,796.76 |  | 23,012 |  | 34,600 |  | 28,784 |  | 32.00 |  | 900 |  |
| 2002 | 350.72 |  | 131 |  | 197 |  | 175 |  | 32.02 |  | 5 |  |
| 2004 | 131,851.04 |  | 45,856 |  | 68,948 |  | 70,815 |  | 32.07 |  | 2,208 |  |
| 2011 | 34,640.08 |  | 8,380 |  | 12,600 |  | 24,119 |  | 32.23 |  | 748 |  |
| 2013 | 277,129.01 |  | 56,754 |  | 85,333 |  | 208,423 |  | 32.28 |  | 6,457 |  |
| 2014 | 373,634.16 |  | 69,214 |  | 104,068 |  | 291,984 |  | 32.30 |  | 9,040 |  |
| 2015 | 698,947.32 |  | 115,022 |  | 172,943 |  | 567,941 |  | 32.32 |  | 17,572 |  |
| 2016 | 16,452,667.07 |  | 2,351,412 |  | 3,535,507 |  | 13,904,321 |  | 32.34 |  | 429,942 |  |
| 2017 | 1,012,534.38 |  | 121,475 |  | 182,646 |  | 890,641 |  | 32.36 |  | 27,523 |  |
| 2018 | 1,350,265.40 |  | 129,459 |  | 194,650 |  | 1,236,631 |  | 32.38 |  | 38,191 |  |
| 2019 | 383,827.03 |  | 27,076 |  | 40,711 |  | 366,146 |  | 32.40 |  | 11,301 |  |
| 2021 | 1,374,026.24 |  | 20,361 |  | 30,614 |  | 1,425,854 |  | 32.45 |  | 43,940 |  |
|  | | | | | | | | | | | | |
|  | 37,694,874.97 |  | 11,036,976 |  | 16,270,701 |  | 23,685,866 |  |  | | 734,546 |  |

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| SPOKANE UPPER FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1922 | 476,615.72 |  | 352,916 |  | 430,780 |  | 74,433 |  | 30.41 |  | 2,448 |  |
| 1923 | 29,805.45 |  | 22,001 |  | 26,855 |  | 4,739 |  | 30.53 |  | 155 |  |
| 1924 | 2,210.00 |  | 1,626 |  | 1,985 |  | 358 |  | 30.66 |  | 12 |  |
| 1925 | 425.00 |  | 312 |  | 381 |  | 70 |  | 30.79 |  | 2 |  |
| 1926 | 3,128.00 |  | 2,286 |  | 2,790 |  | 525 |  | 30.91 |  | 17 |  |
| 1927 | 342.00 |  | 249 |  | 304 |  | 59 |  | 31.03 |  | 2 |  |
| 1928 | 40.00 |  | 29 |  | 35 |  | 7 |  | 31.15 |  |  |  |
| 1930 | 927.00 |  | 668 |  | 815 |  | 167 |  | 31.39 |  | 5 |  |
| 1932 | 60.00 |  | 43 |  | 52 |  | 11 |  | 31.62 |  |  |  |
| 1936 | 430.00 |  | 303 |  | 370 |  | 86 |  | 32.06 |  | 3 |  |
| 1940 | 95.00 |  | 66 |  | 81 |  | 20 |  | 32.48 |  | 1 |  |
| 1943 | 44.00 |  | 30 |  | 37 |  | 10 |  | 32.78 |  |  |  |
| 1944 | 521.00 |  | 355 |  | 433 |  | 119 |  | 32.88 |  | 4 |  |
| 1947 | 106.66 |  | 72 |  | 88 |  | 25 |  | 33.16 |  | 1 |  |
| 1948 | 2,375.37 |  | 1,587 |  | 1,937 |  | 581 |  | 33.25 |  | 17 |  |
| 1949 | 25.02 |  | 17 |  | 21 |  | 6 |  | 33.34 |  |  |  |
| 1952 | 690.58 |  | 452 |  | 552 |  | 180 |  | 33.60 |  | 5 |  |
| 1953 | 875.90 |  | 570 |  | 696 |  | 233 |  | 33.69 |  | 7 |  |
| 1955 | 611.45 |  | 394 |  | 481 |  | 167 |  | 33.85 |  | 5 |  |
| 1957 | 5,424.43 |  | 3,451 |  | 4,212 |  | 1,538 |  | 34.01 |  | 45 |  |
| 1958 | 194.00 |  | 123 |  | 150 |  | 56 |  | 34.09 |  | 2 |  |
| 1960 | 1,050.00 |  | 656 |  | 801 |  | 312 |  | 34.24 |  | 9 |  |
| 1962 | 206.00 |  | 127 |  | 155 |  | 63 |  | 34.39 |  | 2 |  |
| 1969 | 5,000.00 |  | 2,923 |  | 3,568 |  | 1,732 |  | 34.86 |  | 50 |  |
| 1973 | 9,150.98 |  | 5,167 |  | 6,307 |  | 3,393 |  | 35.10 |  | 97 |  |
| 1976 | 8,267.46 |  | 4,533 |  | 5,533 |  | 3,230 |  | 35.27 |  | 92 |  |
| 1989 | 10,046.06 |  | 4,650 |  | 5,676 |  | 4,973 |  | 35.89 |  | 139 |  |
| 1990 | 35,855.73 |  | 16,314 |  | 19,913 |  | 18,094 |  | 35.93 |  | 504 |  |
| 1993 | 13,881.71 |  | 5,968 |  | 7,285 |  | 7,430 |  | 36.05 |  | 206 |  |
| 1994 | 354.19 |  | 149 |  | 182 |  | 194 |  | 36.08 |  | 5 |  |
| 1995 | 50,002.76 |  | 20,609 |  | 25,156 |  | 27,847 |  | 36.12 |  | 771 |  |
| 1998 | 1,081,101.16 |  | 414,107 |  | 505,471 |  | 640,496 |  | 36.23 |  | 17,679 |  |
| 1999 | 225,620.73 |  | 84,138 |  | 102,701 |  | 136,457 |  | 36.26 |  | 3,763 |  |
| 2000 | 1,072.35 |  | 389 |  | 475 |  | 662 |  | 36.29 |  | 18 |  |
| 2003 | 368,311.75 |  | 120,828 |  | 147,486 |  | 242,924 |  | 36.39 |  | 6,676 |  |
| 2004 | 82.42 |  | 26 |  | 32 |  | 56 |  | 36.42 |  | 2 |  |
| 2005 | 4,689,300.37 |  | 1,422,254 |  | 1,736,045 |  | 3,234,614 |  | 36.45 |  | 88,741 |  |
| 2011 | 547,977.84 |  | 118,593 |  | 144,758 |  | 436,098 |  | 36.64 |  | 11,902 |  |
| 2015 | 31,886.61 |  | 4,655 |  | 5,682 |  | 28,118 |  | 36.75 |  | 765 |  |
| 2019 | 124,458.69 |  | 7,685 |  | 9,381 |  | 122,546 |  | 36.86 |  | 3,325 |  |
|  | | | | | | | | | | | | |
|  | 7,728,573.39 |  | 2,621,321 |  | 3,199,661 |  | 4,992,627 |  |  | | 137,477 |  |

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| NINE MILE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1908 | 665,042.03 |  | 504,015 |  | 27,928 | - | 719,572 |  | 28.43 |  | 25,310 |  |
| 1921 | 1,261.87 |  | 920 |  | 51 | - | 1,363 |  | 30.28 |  | 45 |  |
| 1926 | 565.00 |  | 405 |  | 22 | - | 610 |  | 30.91 |  | 20 |  |
| 1927 | 617.00 |  | 441 |  | 24 | - | 666 |  | 31.03 |  | 21 |  |
| 1928 | 25,607.82 |  | 18,234 |  | 1,010 | - | 27,643 |  | 31.15 |  | 887 |  |
| 1932 | 279.00 |  | 196 |  | 11 | - | 301 |  | 31.62 |  | 10 |  |
| 1948 | 441.66 |  | 289 |  | 16 | - | 475 |  | 33.25 |  | 14 |  |
| 1949 | 467.00 |  | 305 |  | 17 | - | 503 |  | 33.34 |  | 15 |  |
| 1953 | 77.17 |  | 49 |  | 3 | - | 83 |  | 33.69 |  | 2 |  |
| 1954 | 443.94 |  | 282 |  | 16 | - | 477 |  | 33.77 |  | 14 |  |
| 1972 | 5,563.00 |  | 3,110 |  | 172 | - | 5,958 |  | 35.04 |  | 170 |  |
| 1973 | 549.10 |  | 304 |  | 17 | - | 588 |  | 35.10 |  | 17 |  |
| 1978 | 30,650.97 |  | 16,145 |  | 895 | - | 32,772 |  | 35.38 |  | 926 |  |
| 1991 | 248,715.55 |  | 109,055 |  | 6,043 | - | 264,707 |  | 35.97 |  | 7,359 |  |
| 1995 | 413,832.99 |  | 167,347 |  | 9,273 | - | 439,659 |  | 36.12 |  | 12,172 |  |
| 1997 | 148,860.34 |  | 57,427 |  | 3,182 | - | 157,997 |  | 36.19 |  | 4,366 |  |
| 1998 | 1,864,632.07 |  | 700,756 |  | 38,830 | - | 1,978,047 |  | 36.23 |  | 54,597 |  |
| 1999 | 105,149.44 |  | 38,472 |  | 2,132 | - | 111,487 |  | 36.26 |  | 3,075 |  |
| 2000 | 43,680.64 |  | 15,530 |  | 861 | - | 46,288 |  | 36.29 |  | 1,276 |  |
| 2001 | 31,488.40 |  | 10,850 |  | 601 | - | 33,349 |  | 36.33 |  | 918 |  |
| 2009 | 21,780.07 |  | 5,292 |  | 293 | - | 22,945 |  | 36.58 |  | 627 |  |
| 2010 | 4,979,946.67 |  | 1,135,476 |  | 62,918 | - | 5,242,063 |  | 36.61 |  | 143,187 |  |
| 2013 | 34,720.97 |  | 6,230 |  | 345 | - | 36,455 |  | 36.69 |  | 994 |  |
| 2014 | 789,164.05 |  | 127,599 |  | 7,070 | - | 827,801 |  | 36.72 |  | 22,544 |  |
| 2015 | 4,281,937.45 |  | 613,341 |  | 33,986 | - | 4,487,201 |  | 36.75 |  | 122,101 |  |
| 2016 | 8,155,651.17 |  | 1,011,464 |  | 56,047 | - | 8,537,924 |  | 36.78 |  | 232,135 |  |
| 2017 | 2,479,815.97 |  | 257,333 |  | 14,259 | - | 2,593,268 |  | 36.81 |  | 70,450 |  |
| 2018 | 6,133,713.65 |  | 505,413 |  | 28,006 | - | 6,407,068 |  | 36.84 |  | 173,916 |  |
| 2019 | 298,144.08 |  | 18,062 |  | 1,001 | - | 311,071 |  | 36.86 |  | 8,439 |  |
| 2021 | 29,972.83 |  | 384 |  | 21 | - | 31,193 |  | 36.92 |  | 845 |  |
|  | | | | | | | | | | | | |
|  | 30,792,771.90 |  | 5,324,726 |  | 295,051 | - | 32,319,534 |  |  | | 886,452 |  |

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| POST FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1906 | 244,325.25 |  | 186,216 |  | 174,193 |  | 79,905 |  | 28.12 |  | 2,842 |  |
| 1907 | 6,605.11 |  | 5,020 |  | 4,696 |  | 2,173 |  | 28.27 |  | 77 |  |
| 1908 | 5,823.00 |  | 4,413 |  | 4,128 |  | 1,928 |  | 28.43 |  | 68 |  |
| 1909 | 23,882.00 |  | 18,049 |  | 16,884 |  | 7,954 |  | 28.58 |  | 278 |  |
| 1912 | 507.00 |  | 380 |  | 355 |  | 172 |  | 29.03 |  | 6 |  |
| 1914 | 83.00 |  | 62 |  | 58 |  | 28 |  | 29.32 |  | 1 |  |
| 1918 | 177.00 |  | 130 |  | 122 |  | 62 |  | 29.87 |  | 2 |  |
| 1920 | 5,524.00 |  | 4,039 |  | 3,778 |  | 1,967 |  | 30.14 |  | 65 |  |
| 1921 | 2,163.00 |  | 1,576 |  | 1,474 |  | 775 |  | 30.28 |  | 26 |  |
| 1922 | 90,569.16 |  | 65,798 |  | 61,550 |  | 32,642 |  | 30.41 |  | 1,073 |  |
| 1924 | 418.00 |  | 302 |  | 283 |  | 152 |  | 30.66 |  | 5 |  |
| 1925 | 1,699.00 |  | 1,222 |  | 1,143 |  | 624 |  | 30.79 |  | 20 |  |
| 1927 | 3,499.00 |  | 2,500 |  | 2,339 |  | 1,300 |  | 31.03 |  | 42 |  |
| 1928 | 1,933.00 |  | 1,376 |  | 1,287 |  | 723 |  | 31.15 |  | 23 |  |
| 1929 | 10,164.00 |  | 7,211 |  | 6,745 |  | 3,825 |  | 31.27 |  | 122 |  |
| 1930 | 9,741.00 |  | 6,886 |  | 6,441 |  | 3,689 |  | 31.39 |  | 118 |  |
| 1931 | 2,027.00 |  | 1,428 |  | 1,336 |  | 772 |  | 31.50 |  | 25 |  |
| 1932 | 81.00 |  | 57 |  | 53 |  | 31 |  | 31.62 |  | 1 |  |
| 1933 | 444.00 |  | 310 |  | 290 |  | 172 |  | 31.73 |  | 5 |  |
| 1936 | 295.62 |  | 204 |  | 191 |  | 117 |  | 32.06 |  | 4 |  |
| 1937 | 382.00 |  | 263 |  | 246 |  | 151 |  | 32.17 |  | 5 |  |
| 1939 | 10.00 |  | 7 |  | 7 |  | 4 |  | 32.38 |  |  |  |
| 1940 | 10.00 |  | 7 |  | 7 |  | 4 |  | 32.48 |  |  |  |
| 1941 | 217.00 |  | 147 |  | 138 |  | 88 |  | 32.58 |  | 3 |  |
| 1946 | 318.00 |  | 210 |  | 196 |  | 134 |  | 33.07 |  | 4 |  |
| 1947 | 940.00 |  | 619 |  | 579 |  | 399 |  | 33.16 |  | 12 |  |
| 1948 | 3,053.00 |  | 2,001 |  | 1,872 |  | 1,303 |  | 33.25 |  | 39 |  |
| 1950 | 1,353.00 |  | 878 |  | 821 |  | 586 |  | 33.43 |  | 18 |  |
| 1951 | 187.00 |  | 121 |  | 113 |  | 81 |  | 33.52 |  | 2 |  |
| 1953 | 687.00 |  | 439 |  | 411 |  | 304 |  | 33.69 |  | 9 |  |
| 1954 | 15,763.00 |  | 10,011 |  | 9,365 |  | 7,029 |  | 33.77 |  | 208 |  |
| 1955 | 4,120.20 |  | 2,602 |  | 2,434 |  | 1,851 |  | 33.85 |  | 55 |  |
| 1956 | 181.00 |  | 114 |  | 107 |  | 82 |  | 33.93 |  | 2 |  |
| 1957 | 1,817.00 |  | 1,134 |  | 1,061 |  | 829 |  | 34.01 |  | 24 |  |
| 1958 | 3,501.55 |  | 2,172 |  | 2,032 |  | 1,610 |  | 34.09 |  | 47 |  |
| 1961 | 187.00 |  | 114 |  | 107 |  | 88 |  | 34.32 |  | 3 |  |
| 1967 | 1,208.96 |  | 705 |  | 659 |  | 598 |  | 34.73 |  | 17 |  |
| 1968 | 12,858.59 |  | 7,435 |  | 6,955 |  | 6,418 |  | 34.80 |  | 184 |  |
| 1969 | 232.00 |  | 133 |  | 124 |  | 117 |  | 34.86 |  | 3 |  |
| 1970 | 1,067.88 |  | 608 |  | 569 |  | 542 |  | 34.92 |  | 16 |  |
| 1973 | 1,196.19 |  | 663 |  | 620 |  | 624 |  | 35.10 |  | 18 |  |
| 1976 | 140,946.68 |  | 75,830 |  | 70,934 |  | 75,651 |  | 35.27 |  | 2,145 |  |
| 1977 | 58,436.39 |  | 31,109 |  | 29,100 |  | 31,673 |  | 35.33 |  | 896 |  |
| 1979 | 1,043.87 |  | 544 |  | 509 |  | 577 |  | 35.43 |  | 16 |  |
| 1980 | 54,358.99 |  | 27,993 |  | 26,186 |  | 30,348 |  | 35.48 |  | 855 |  |
| 1986 | 2,022.16 |  | 963 |  | 901 |  | 1,202 |  | 35.76 |  | 34 |  |
| 1987 | 16,685.67 |  | 7,825 |  | 7,320 |  | 10,033 |  | 35.80 |  | 280 |  |
| 1988 | 118,664.01 |  | 54,775 |  | 51,238 |  | 72,172 |  | 35.85 |  | 2,013 |  |
| 1989 | 194.55 |  | 88 |  | 82 |  | 120 |  | 35.89 |  | 3 |  |
| 1990 | 7,682.02 |  | 3,429 |  | 3,208 |  | 4,782 |  | 35.93 |  | 133 |  |
| 1991 | 3,819.62 |  | 1,675 |  | 1,567 |  | 2,406 |  | 35.97 |  | 67 |  |
| 1992 | 856,558.02 |  | 368,541 |  | 344,746 |  | 546,075 |  | 36.01 |  | 15,165 |  |
| 1993 | 710,712.90 |  | 299,803 |  | 280,446 |  | 458,696 |  | 36.05 |  | 12,724 |  |
| 1995 | 337,561.33 |  | 136,504 |  | 127,690 |  | 223,373 |  | 36.12 |  | 6,184 |  |
| 1996 | 364,802.18 |  | 144,121 |  | 134,816 |  | 244,579 |  | 36.16 |  | 6,764 |  |
| 1997 | 335,085.62 |  | 129,269 |  | 120,923 |  | 227,566 |  | 36.19 |  | 6,288 |  |
| 1999 | 47,839.08 |  | 17,503 |  | 16,373 |  | 33,380 |  | 36.26 |  | 921 |  |
| 2004 | 1,953,993.11 |  | 605,846 |  | 566,729 |  | 1,465,424 |  | 36.42 |  | 40,237 |  |
| 2005 | 35,164.03 |  | 10,464 |  | 9,788 |  | 26,782 |  | 36.45 |  | 735 |  |
| 2010 | 321,999.59 |  | 73,419 |  | 68,679 |  | 266,201 |  | 36.61 |  | 7,271 |  |
| 2011 | 27,759.75 |  | 5,894 |  | 5,513 |  | 23,357 |  | 36.64 |  | 637 |  |
| 2013 | 5,142,129.71 |  | 922,659 |  | 863,087 |  | 4,484,728 |  | 36.69 |  | 122,233 |  |
| 2015 | 69,228.46 |  | 9,916 |  | 9,276 |  | 62,722 |  | 36.75 |  | 1,707 |  |
| 2016 | 13,289,931.86 |  | 1,648,217 |  | 1,541,798 |  | 12,279,731 |  | 36.78 |  | 333,870 |  |
|  | | | | | | | | | | | | |
|  | 24,355,870.11 |  | 4,913,949 |  | 4,596,675 |  | 20,733,430 |  |  | | 566,650 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1952 | 16,083,649.66 |  | 10,146,110 |  | 8,755,562 |  | 9,418,962 |  | 41.44 |  | 227,292 |  |
| 1953 | 16,881.00 |  | 10,579 |  | 9,129 |  | 9,946 |  | 41.58 |  | 239 |  |
| 1954 | 11,285.00 |  | 7,024 |  | 6,061 |  | 6,691 |  | 41.72 |  | 160 |  |
| 1955 | 757.00 |  | 468 |  | 404 |  | 452 |  | 41.86 |  | 11 |  |
| 1956 | 35.00 |  | 21 |  | 18 |  | 21 |  | 42.00 |  |  |  |
| 1962 | 21,885.00 |  | 12,830 |  | 11,072 |  | 13,658 |  | 42.78 |  | 319 |  |
| 1968 | 7,167.00 |  | 3,985 |  | 3,439 |  | 4,660 |  | 43.49 |  | 107 |  |
| 1973 | 8,474.82 |  | 4,479 |  | 3,865 |  | 5,711 |  | 44.03 |  | 130 |  |
| 1990 | 15,731.02 |  | 6,491 |  | 5,601 |  | 12,175 |  | 45.51 |  | 268 |  |
| 1992 | 124,016.42 |  | 49,092 |  | 42,364 |  | 97,775 |  | 45.66 |  | 2,141 |  |
| 1995 | 947.93 |  | 350 |  | 302 |  | 769 |  | 45.86 |  | 17 |  |
| 1999 | 419,024.28 |  | 138,564 |  | 119,573 |  | 353,924 |  | 46.12 |  | 7,674 |  |
| 2000 | 245.40 |  | 79 |  | 68 |  | 209 |  | 46.18 |  | 5 |  |
| 2001 | 7,739.22 |  | 2,398 |  | 2,069 |  | 6,676 |  | 46.24 |  | 144 |  |
| 2004 | 19,473.21 |  | 5,378 |  | 4,641 |  | 17,364 |  | 46.41 |  | 374 |  |
| 2006 | 150,851.84 |  | 38,032 |  | 32,820 |  | 137,643 |  | 46.52 |  | 2,959 |  |
| 2009 | 52,507.35 |  | 11,180 |  | 9,648 |  | 49,686 |  | 46.69 |  | 1,064 |  |
| 2012 | 388,448.73 |  | 65,991 |  | 56,947 |  | 382,000 |  | 46.85 |  | 8,154 |  |
| 2014 | 4,435,996.02 |  | 615,356 |  | 531,020 |  | 4,481,655 |  | 46.95 |  | 95,456 |  |
| 2015 | 37,344.55 |  | 4,564 |  | 3,938 |  | 38,261 |  | 47.00 |  | 814 |  |
| 2016 | 2,582,504.81 |  | 272,183 |  | 234,880 |  | 2,683,351 |  | 47.05 |  | 57,032 |  |
| 2017 | 2,387,551.83 |  | 209,252 |  | 180,574 |  | 2,517,360 |  | 47.10 |  | 53,447 |  |
| 2020 | 68,445.10 |  | 2,118 |  | 1,828 |  | 75,515 |  | 47.24 |  | 1,599 |  |
|  | | | | | | | | | | | | |
|  | 26,840,962.19 |  | 11,606,524 |  | 10,015,823 |  | 20,314,465 |  |  | | 459,406 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 110-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1959 | 26,625,661.63 |  | 16,202,921 |  | 11,819,063 |  | 20,397,988 |  | 46.63 |  | 437,443 |  |
| 1960 | 217,612.00 |  | 131,302 |  | 95,777 |  | 167,534 |  | 46.80 |  | 3,580 |  |
| 1961 | 274,765.94 |  | 164,335 |  | 119,873 |  | 212,594 |  | 46.97 |  | 4,526 |  |
| 1962 | 5,704.87 |  | 3,382 |  | 2,467 |  | 4,436 |  | 47.13 |  | 94 |  |
| 1963 | 131,429.70 |  | 77,223 |  | 56,330 |  | 102,700 |  | 47.29 |  | 2,172 |  |
| 1964 | 232.00 |  | 135 |  | 98 |  | 182 |  | 47.44 |  | 4 |  |
| 1965 | 77,152.71 |  | 44,491 |  | 32,454 |  | 60,901 |  | 47.60 |  | 1,279 |  |
| 1966 | 107,377.41 |  | 61,329 |  | 44,736 |  | 85,191 |  | 47.75 |  | 1,784 |  |
| 1967 | 116,794.92 |  | 66,048 |  | 48,178 |  | 93,144 |  | 47.90 |  | 1,945 |  |
| 1968 | 110,343.80 |  | 61,771 |  | 45,058 |  | 88,458 |  | 48.05 |  | 1,841 |  |
| 1969 | 105,493.73 |  | 58,440 |  | 42,628 |  | 85,019 |  | 48.20 |  | 1,764 |  |
| 1970 | 45,627.49 |  | 25,009 |  | 18,243 |  | 36,967 |  | 48.34 |  | 765 |  |
| 1971 | 9,701.00 |  | 5,259 |  | 3,836 |  | 7,902 |  | 48.48 |  | 163 |  |
| 1972 | 5,156.74 |  | 2,764 |  | 2,016 |  | 4,223 |  | 48.62 |  | 87 |  |
| 1977 | 717,636.57 |  | 361,916 |  | 263,996 |  | 604,344 |  | 49.27 |  | 12,266 |  |
| 1978 | 15,194.26 |  | 7,560 |  | 5,515 |  | 12,870 |  | 49.40 |  | 261 |  |
| 1988 | 20,800.16 |  | 8,812 |  | 6,428 |  | 18,740 |  | 50.52 |  | 371 |  |
| 1990 | 146,303.21 |  | 59,550 |  | 43,438 |  | 133,589 |  | 50.72 |  | 2,634 |  |
| 1991 | 369.25 |  | 147 |  | 107 |  | 340 |  | 50.81 |  | 7 |  |
| 1992 | 410,372.13 |  | 159,984 |  | 116,699 |  | 379,852 |  | 50.91 |  | 7,461 |  |
| 1993 | 385.55 |  | 147 |  | 107 |  | 359 |  | 51.00 |  | 7 |  |
| 1994 | 8,646.60 |  | 3,216 |  | 2,346 |  | 8,117 |  | 51.09 |  | 159 |  |
| 1998 | 81,856.82 |  | 27,276 |  | 19,896 |  | 79,151 |  | 51.44 |  | 1,539 |  |
| 1999 | 6,099.21 |  | 1,970 |  | 1,437 |  | 5,943 |  | 51.52 |  | 115 |  |
| 2000 | 509,731.73 |  | 159,227 |  | 116,147 |  | 500,629 |  | 51.61 |  | 9,700 |  |
| 2003 | 122,811.03 |  | 34,322 |  | 25,036 |  | 123,565 |  | 51.84 |  | 2,384 |  |
| 2007 | 94,218.74 |  | 21,790 |  | 15,895 |  | 98,110 |  | 52.14 |  | 1,882 |  |
| 2009 | 47,795.27 |  | 9,793 |  | 7,143 |  | 50,689 |  | 52.29 |  | 969 |  |
| 2010 | 149,976.46 |  | 28,683 |  | 20,923 |  | 160,549 |  | 52.36 |  | 3,066 |  |
| 2012 | 47,015.14 |  | 7,645 |  | 5,577 |  | 51,312 |  | 52.50 |  | 977 |  |
| 2014 | 74,467.55 |  | 9,865 |  | 7,196 |  | 82,910 |  | 52.63 |  | 1,575 |  |
| 2015 | 252,620.21 |  | 29,409 |  | 21,452 |  | 284,218 |  | 52.70 |  | 5,393 |  |
| 2017 | 450,612.89 |  | 37,485 |  | 27,343 |  | 517,899 |  | 52.83 |  | 9,803 |  |
| 2018 | 244,117.99 |  | 16,104 |  | 11,747 |  | 283,636 |  | 52.89 |  | 5,363 |  |
| 2019 | 1,350,634.16 |  | 64,619 |  | 47,136 |  | 1,587,132 |  | 52.96 |  | 29,969 |  |
| 2020 | 553.41 |  | 16 |  | 12 |  | 658 |  | 53.02 |  | 12 |  |
| 2021 | 15,045.63 |  | 150 |  | 109 |  | 18,096 |  | 53.08 |  | 341 |  |
|  | | | | | | | | | | | | |
|  | 32,600,317.91 |  | 17,954,095 |  | 13,096,439 |  | 26,349,945 |  |  | | 553,701 |  |
|  | | | | | | | | | | | | |
|  | 176,364,942.46 |  | 59,242,858 |  | 52,213,550 |  | 140,435,155 |  |  | | 3,623,229 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 38.8 2.05 | | | | | | | | | | | |

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| LONG LAKE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2055 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2013 | 11,906.30 |  | 2,627 |  | 2,057 |  | 10,564 |  | 32.11 |  | 329 |  |
| 2014 | 33,137.10 |  | 6,597 |  | 5,166 |  | 29,959 |  | 32.26 |  | 929 |  |
| 2016 | 10,805.87 |  | 1,651 |  | 1,293 |  | 10,161 |  | 32.55 |  | 312 |  |
| 2019 | 27,931.35 |  | 2,090 |  | 1,637 |  | 27,971 |  | 32.92 |  | 850 |  |
|  | | | | | | | | | | | | |
|  | 83,780.62 |  | 12,965 |  | 10,152 |  | 78,655 |  |  | | 2,420 |  |

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| NINE MILE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1999 | 3,534.58 |  | 1,462 |  | 1,261 |  | 2,415 |  | 32.41 |  | 75 |  |
| 2017 | 78,923.35 |  | 8,908 |  | 7,682 |  | 74,398 |  | 36.88 |  | 2,017 |  |
|  | | | | | | | | | | | | |
|  | 82,457.93 |  | 10,370 |  | 8,943 |  | 76,813 |  |  | | 2,092 |  |

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| POST FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1994 | 16,133.11 |  | 7,607 |  | 6,662 |  | 10,116 |  | 30.83 |  | 328 |  |
| 2014 | 869,271.88 |  | 154,121 |  | 134,982 |  | 769,060 |  | 36.30 |  | 21,186 |  |
| 2019 | 54,885.10 |  | 3,593 |  | 3,147 |  | 53,934 |  | 37.22 |  | 1,449 |  |
| 2020 | 428,957.73 |  | 17,211 |  | 15,074 |  | 431,042 |  | 37.38 |  | 11,531 |  |
|  | | | | | | | | | | | | |
|  | 1,369,247.82 |  | 182,532 |  | 159,865 |  | 1,264,152 |  |  | | 34,494 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1985 | 1,041,666.96 |  | 594,051 |  | 581,429 |  | 595,654 |  | 31.23 |  | 19,073 |  |
| 1991 | 113,057.55 |  | 57,075 |  | 55,862 |  | 71,893 |  | 34.18 |  | 2,103 |  |
| 2001 | 254,391.49 |  | 95,854 |  | 93,817 |  | 193,645 |  | 39.04 |  | 4,960 |  |
| 2004 | 1,174,709.15 |  | 391,138 |  | 382,828 |  | 944,594 |  | 40.43 |  | 23,364 |  |
| 2005 | 297,752.55 |  | 94,502 |  | 92,494 |  | 243,966 |  | 40.89 |  | 5,966 |  |
| 2006 | 39,583.07 |  | 11,944 |  | 11,690 |  | 33,039 |  | 41.34 |  | 799 |  |
| 2007 | 4,065,953.80 |  | 1,161,175 |  | 1,136,504 |  | 3,458,024 |  | 41.78 |  | 82,767 |  |
| 2008 | 5,289,595.63 |  | 1,423,899 |  | 1,393,646 |  | 4,583,597 |  | 42.21 |  | 108,590 |  |
| 2009 | 115,871.84 |  | 29,240 |  | 28,619 |  | 102,316 |  | 42.64 |  | 2,400 |  |
| 2010 | 52,976.34 |  | 12,455 |  | 12,190 |  | 47,673 |  | 43.05 |  | 1,107 |  |
| 2012 | 259,225.12 |  | 51,654 |  | 50,557 |  | 242,368 |  | 43.86 |  | 5,526 |  |
| 2013 | 3,202,646.27 |  | 578,532 |  | 566,240 |  | 3,052,750 |  | 44.25 |  | 68,989 |  |
| 2014 | 98,420.34 |  | 15,890 |  | 15,552 |  | 95,663 |  | 44.63 |  | 2,143 |  |
| 2015 | 117,523.69 |  | 16,671 |  | 16,317 |  | 116,485 |  | 45.00 |  | 2,589 |  |
| 2016 | 99,524.98 |  | 12,122 |  | 11,864 |  | 100,599 |  | 45.36 |  | 2,218 |  |
| 2018 | 70,331.01 |  | 5,615 |  | 5,496 |  | 73,978 |  | 46.04 |  | 1,607 |  |
| 2019 | 60,281.70 |  | 3,471 |  | 3,397 |  | 64,721 |  | 46.37 |  | 1,396 |  |
|  | | | | | | | | | | | | |
|  | 16,353,511.49 |  | 4,555,288 |  | 4,458,504 |  | 14,020,964 |  |  | | 335,597 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1995 | 50,000.00 |  | 23,669 |  | 25,572 |  | 34,928 |  | 38.03 |  | 918 |  |
| 2001 | 567,200.24 |  | 219,277 |  | 236,908 |  | 449,404 |  | 41.49 |  | 10,832 |  |
| 2003 | 388,122.03 |  | 137,948 |  | 149,040 |  | 320,588 |  | 42.63 |  | 7,520 |  |
| 2006 | 624,603.14 |  | 191,550 |  | 206,951 |  | 548,818 |  | 44.30 |  | 12,389 |  |
| 2007 | 92,181.60 |  | 26,693 |  | 28,839 |  | 82,701 |  | 44.85 |  | 1,844 |  |
| 2009 | 66,513.05 |  | 16,935 |  | 18,297 |  | 62,184 |  | 45.93 |  | 1,354 |  |
| 2010 | 181,464.40 |  | 42,926 |  | 46,377 |  | 173,194 |  | 46.46 |  | 3,728 |  |
| 2011 | 11,139.31 |  | 2,434 |  | 2,630 |  | 10,849 |  | 46.97 |  | 231 |  |
| 2012 | 36,428.89 |  | 7,272 |  | 7,857 |  | 36,222 |  | 47.48 |  | 763 |  |
| 2013 | 43,446.28 |  | 7,848 |  | 8,479 |  | 44,091 |  | 47.98 |  | 919 |  |
| 2014 | 119,324.38 |  | 19,213 |  | 20,758 |  | 123,625 |  | 48.47 |  | 2,551 |  |
| 2016 | 86,688.16 |  | 10,470 |  | 11,312 |  | 93,581 |  | 49.42 |  | 1,894 |  |
| 2020 | 66,113.89 |  | 2,278 |  | 2,461 |  | 77,537 |  | 51.17 |  | 1,515 |  |
|  | | | | | | | | | | | | |
|  | 2,333,225.37 |  | 708,513 |  | 765,480 |  | 2,057,722 |  |  | | 46,458 |  |
|  | | | | | | | | | | | | |
|  | 20,222,223.23 |  | 5,469,668 |  | 5,402,945 |  | 17,498,306 |  |  | | 421,061 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 41.6 2.08 | | | | | | | | | | | |

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| NINE MILE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2015 | 11,034.00 |  | 1,728 |  | 1,291 |  | 10,184 |  | 36.50 |  | 279 |  |
|  | | | | | | | | | | | | |
|  | 11,034.00 |  | 1,728 |  | 1,291 |  | 10,184 |  |  | | 279 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2004 | 979,038.74 |  | 325,986 |  | 294,662 |  | 811,652 |  | 40.43 |  | 20,075 |  |
| 2005 | 14,182.39 |  | 4,501 |  | 4,068 |  | 11,958 |  | 40.89 |  | 292 |  |
| 2007 | 10,037.72 |  | 2,867 |  | 2,592 |  | 8,751 |  | 41.78 |  | 209 |  |
| 2013 | 70,719.45 |  | 12,775 |  | 11,547 |  | 68,366 |  | 44.25 |  | 1,545 |  |
| 2015 | 29,754.56 |  | 4,221 |  | 3,815 |  | 29,807 |  | 45.00 |  | 662 |  |
| 2017 | 117,599.67 |  | 11,862 |  | 10,722 |  | 122,165 |  | 45.71 |  | 2,673 |  |
| 2018 | 18,001.42 |  | 1,437 |  | 1,299 |  | 19,043 |  | 46.04 |  | 414 |  |
| 2020 | 82,934.19 |  | 2,917 |  | 2,637 |  | 91,079 |  | 46.68 |  | 1,951 |  |
| 2021 | 172,392.89 |  | 2,051 |  | 1,854 |  | 192,950 |  | 46.97 |  | 4,108 |  |
|  | | | | | | | | | | | | |
|  | 1,494,661.03 |  | 368,617 |  | 333,197 |  | 1,355,770 |  |  | | 31,929 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2002 | 218,446.08 |  | 81,109 |  | 114,319 |  | 150,000 |  | 42.06 |  | 3,566 |  |
| 2003 | 262,682.40 |  | 93,364 |  | 131,592 |  | 186,253 |  | 42.63 |  | 4,369 |  |
| 2013 | 55,363.85 |  | 10,001 |  | 14,096 |  | 52,894 |  | 47.98 |  | 1,102 |  |
| 2015 | 34,414.27 |  | 4,855 |  | 6,843 |  | 34,798 |  | 48.95 |  | 711 |  |
| 2016 | 321,885.97 |  | 38,878 |  | 54,797 |  | 334,685 |  | 49.42 |  | 6,772 |  |
| 2019 | 56,180.06 |  | 3,192 |  | 4,499 |  | 63,479 |  | 50.75 |  | 1,251 |  |
| 2020 | 7,206.12 |  | 248 |  | 350 |  | 8,370 |  | 51.17 |  | 164 |  |
|  | | | | | | | | | | | | |
|  | 956,178.75 |  | 231,647 |  | 326,496 |  | 830,480 |  |  | | 17,935 |  |
|  | | | | | | | | | | | | |
|  | 2,461,873.78 |  | 601,992 |  | 660,984 |  | 2,196,434 |  |  | | 50,143 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 43.8 2.04 | | | | | | | | | | | |

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| LITTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2059 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -5 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1991 | 14,365.60 |  | 7,352 |  | 10,198 |  | 4,886 |  | 29.38 |  | 166 |  |
|  | | | | | | | | | | | | |
|  | 14,365.60 |  | 7,352 |  | 10,198 |  | 4,886 |  |  | | 166 |  |

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| LONG LAKE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2055 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1975 | 48,511.99 |  | 32,301 |  | 51,423 |  |  |  |  |  |  |  |
| 1976 | 2,465.61 |  | 1,625 |  | 2,605 |  | 8 |  | 23.17 |  |  |  |
| 1978 | 13,954.84 |  | 9,005 |  | 14,437 |  | 356 |  | 23.74 |  | 15 |  |
| 1989 | 188.86 |  | 105 |  | 168 |  | 32 |  | 26.80 |  | 1 |  |
| 1990 | 13,035.96 |  | 7,128 |  | 11,427 |  | 2,391 |  | 27.07 |  | 88 |  |
| 1994 | 27,482.17 |  | 13,916 |  | 22,310 |  | 6,821 |  | 28.11 |  | 243 |  |
|  | | | | | | | | | | | | |
|  | 105,639.43 |  | 64,080 |  | 102,370 |  | 9,608 |  |  | | 347 |  |

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| NINE MILE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1992 | 47,371.90 |  | 23,327 |  | 613 |  | 48,653 |  | 30.18 |  | 1,612 |  |
|  | | | | | | | | | | | | |
|  | 47,371.90 |  | 23,327 |  | 613 |  | 48,653 |  |  | | 1,612 |  |

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| POST FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1982 | 119,926.17 |  | 69,920 |  | 23,763 |  | 100,961 |  | 26.79 |  | 3,769 |  |
| 1989 | 57,594.29 |  | 30,056 |  | 10,215 |  | 49,683 |  | 29.18 |  | 1,703 |  |
| 1995 | 29,757.16 |  | 13,705 |  | 4,658 |  | 26,290 |  | 31.15 |  | 844 |  |
| 2021 | 131,592.83 |  | 1,800 |  | 612 |  | 136,245 |  | 37.53 |  | 3,630 |  |
|  | | | | | | | | | | | | |
|  | 338,870.45 |  | 115,481 |  | 39,247 |  | 313,179 |  |  | | 9,946 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1986 | 9,716.14 |  | 5,440 |  | 6,392 |  | 4,587 |  | 31.72 |  | 145 |  |
| 1987 | 10,065.97 |  | 5,529 |  | 6,497 |  | 4,878 |  | 32.21 |  | 151 |  |
| 1990 | 2,209.51 |  | 1,141 |  | 1,341 |  | 1,156 |  | 33.68 |  | 34 |  |
| 1991 | 45,757.93 |  | 23,100 |  | 27,143 |  | 24,564 |  | 34.18 |  | 719 |  |
| 1992 | 34,820.80 |  | 17,177 |  | 20,183 |  | 19,164 |  | 34.67 |  | 553 |  |
|  | | | | | | | | | | | | |
|  | 102,570.35 |  | 52,387 |  | 61,556 |  | 54,349 |  |  | | 1,602 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-S1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1986 | 20,363.37 |  | 11,961 |  | 9,032 |  | 15,608 |  | 32.89 |  | 475 |  |
| 1987 | 23,577.46 |  | 13,571 |  | 10,248 |  | 18,281 |  | 33.45 |  | 547 |  |
| 1990 | 2,209.51 |  | 1,191 |  | 899 |  | 1,774 |  | 35.15 |  | 50 |  |
| 2002 | 13,360.57 |  | 4,961 |  | 3,746 |  | 12,420 |  | 42.06 |  | 295 |  |
| 2006 | 7,558.01 |  | 2,318 |  | 1,750 |  | 7,395 |  | 44.30 |  | 167 |  |
|  | | | | | | | | | | | | |
|  | 67,068.92 |  | 34,002 |  | 25,675 |  | 55,478 |  |  | | 1,534 |  |
|  | | | | | | | | | | | | |
|  | 675,886.65 |  | 296,629 |  | 239,659 |  | 486,153 |  |  | | 15,207 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 32.0 2.25 | | | | | | | | | | | |

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| MONROE STREET | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 70-S0 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -7 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1992 | 10,698,553.69 |  | 4,338,699 |  | 2,867,348 |  | 8,580,105 |  | 37.75 |  | 227,288 |  |
| 1993 | 47,921.96 |  | 19,036 |  | 12,580 |  | 38,696 |  | 37.97 |  | 1,019 |  |
| 1994 | 233,266.47 |  | 90,633 |  | 59,897 |  | 189,698 |  | 38.20 |  | 4,966 |  |
| 1998 | 8,786.44 |  | 3,090 |  | 2,042 |  | 7,359 |  | 39.09 |  | 188 |  |
| 2009 | 12,830.06 |  | 2,880 |  | 1,903 |  | 11,825 |  | 41.58 |  | 284 |  |
| 2018 | 573,612.36 |  | 43,479 |  | 28,734 |  | 585,031 |  | 43.81 |  | 13,354 |  |
|  | | | | | | | | | | | | |
|  | 11,574,970.98 |  | 4,497,817 |  | 2,972,505 |  | 9,412,714 |  |  | | 247,099 |  |

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| LITTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 70-S0 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2059 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -5 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1924 | 15,917.00 |  | 12,854 |  | 16,713 |  |  |  |  |  |  |  |
| 1930 | 9,803.55 |  | 7,595 |  | 9,920 |  | 374 |  | 18.33 |  | 20 |  |
| 1942 | 12,433.62 |  | 8,923 |  | 11,655 |  | 1,401 |  | 21.93 |  | 64 |  |
| 1956 | 34,365.81 |  | 22,634 |  | 29,563 |  | 6,521 |  | 25.13 |  | 259 |  |
| 1968 | 4,702.10 |  | 2,848 |  | 3,720 |  | 1,217 |  | 27.32 |  | 45 |  |
| 1970 | 27,729.50 |  | 16,529 |  | 21,589 |  | 7,527 |  | 27.65 |  | 272 |  |
| 1976 | 332.80 |  | 188 |  | 246 |  | 104 |  | 28.59 |  | 4 |  |
| 1977 | 153,756.53 |  | 86,072 |  | 112,422 |  | 49,022 |  | 28.74 |  | 1,706 |  |
| 1986 | 18,457.89 |  | 9,306 |  | 12,155 |  | 7,226 |  | 30.03 |  | 241 |  |
| 1987 | 147,285.09 |  | 73,222 |  | 95,638 |  | 59,011 |  | 30.17 |  | 1,956 |  |
| 1989 | 677,065.53 |  | 326,745 |  | 426,775 |  | 284,144 |  | 30.44 |  | 9,335 |  |
| 1990 | 7,668.42 |  | 3,642 |  | 4,757 |  | 3,295 |  | 30.58 |  | 108 |  |
| 1991 | 21,613.83 |  | 10,096 |  | 13,187 |  | 9,508 |  | 30.71 |  | 310 |  |
| 1994 | 977.15 |  | 432 |  | 564 |  | 462 |  | 31.12 |  | 15 |  |
| 1995 | 451,113.28 |  | 195,327 |  | 255,124 |  | 218,545 |  | 31.25 |  | 6,993 |  |
| 1996 | 254,977.38 |  | 108,017 |  | 141,085 |  | 126,641 |  | 31.39 |  | 4,034 |  |
| 2000 | 42,771.56 |  | 16,405 |  | 21,427 |  | 23,483 |  | 31.92 |  | 736 |  |
| 2001 | 980,043.21 |  | 364,972 |  | 476,705 |  | 552,341 |  | 32.06 |  | 17,228 |  |
| 2002 | 318.11 |  | 115 |  | 150 |  | 184 |  | 32.19 |  | 6 |  |
| 2016 | 14,186,359.59 |  | 1,972,932 |  | 2,576,926 |  | 12,318,752 |  | 34.19 |  | 360,303 |  |
| 2017 | 9,447,688.05 |  | 1,103,608 |  | 1,441,467 |  | 8,478,606 |  | 34.35 |  | 246,830 |  |
| 2018 | 6,673,830.60 |  | 625,141 |  | 816,522 |  | 6,191,000 |  | 34.51 |  | 179,397 |  |
| 2019 | 5,905,121.05 |  | 406,001 |  | 530,294 |  | 5,670,083 |  | 34.68 |  | 163,497 |  |
| 2021 | 126,207.61 |  | 1,827 |  | 2,386 |  | 130,132 |  | 35.04 |  | 3,714 |  |
|  | | | | | | | | | | | | |
|  | 39,200,539.26 |  | 5,375,431 |  | 7,020,990 |  | 34,139,577 |  |  | | 997,073 |  |

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| LONG LAKE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 70-S0 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2055 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1915 | 358,093.27 |  | 311,091 |  | 379,579 |  |  |  |  |  |  |  |
| 1916 | 1,032.00 |  | 890 |  | 1,094 |  |  |  |  |  |  |  |
| 1917 | 2,916.00 |  | 2,499 |  | 3,091 |  |  |  |  |  |  |  |
| 1918 | 134,215.00 |  | 114,221 |  | 142,268 |  |  |  |  |  |  |  |
| 1919 | 237,864.19 |  | 201,061 |  | 252,136 |  |  |  |  |  |  |  |
| 1920 | 21,377.00 |  | 17,946 |  | 22,660 |  |  |  |  |  |  |  |
| 1921 | 1,259.00 |  | 1,050 |  | 1,335 |  |  |  |  |  |  |  |
| 1922 | 1,177.00 |  | 975 |  | 1,248 |  |  |  |  |  |  |  |
| 1923 | 297,923.00 |  | 245,198 |  | 315,798 |  |  |  |  |  |  |  |
| 1924 | 6,537.53 |  | 5,346 |  | 6,930 |  |  |  |  |  |  |  |
| 1925 | 148.00 |  | 120 |  | 157 |  |  |  |  |  |  |  |
| 1926 | 686.00 |  | 554 |  | 727 |  |  |  |  |  |  |  |
| 1929 | 321.00 |  | 254 |  | 340 |  |  |  |  |  |  |  |
| 1930 | 164.00 |  | 129 |  | 174 |  |  |  |  |  |  |  |
| 1931 | 5,240.00 |  | 4,106 |  | 5,554 |  |  |  |  |  |  |  |
| 1941 | 277.00 |  | 205 |  | 294 |  |  |  |  |  |  |  |
| 1942 | 990.00 |  | 730 |  | 1,049 |  |  |  |  |  |  |  |
| 1943 | 146.00 |  | 107 |  | 155 |  |  |  |  |  |  |  |
| 1946 | 1,771.36 |  | 1,279 |  | 1,878 |  |  |  |  |  |  |  |
| 1947 | 50.27 |  | 36 |  | 53 |  |  |  |  |  |  |  |
| 1951 | 1,647.52 |  | 1,158 |  | 1,746 |  |  |  |  |  |  |  |
| 1953 | 479.00 |  | 333 |  | 508 |  |  |  |  |  |  |  |
| 1954 | 91.61 |  | 63 |  | 97 |  |  |  |  |  |  |  |
| 1955 | 3,458.58 |  | 2,379 |  | 3,666 |  |  |  |  |  |  |  |
| 1956 | 67,761.00 |  | 46,335 |  | 71,827 |  |  |  |  |  |  |  |
| 1957 | 69,349.93 |  | 47,147 |  | 73,511 |  |  |  |  |  |  |  |
| 1958 | 65,764.00 |  | 44,450 |  | 69,710 |  |  |  |  |  |  |  |
| 1959 | 73,640.50 |  | 49,481 |  | 78,059 |  |  |  |  |  |  |  |
| 1969 | 8,435.00 |  | 5,310 |  | 8,941 |  |  |  |  |  |  |  |
| 1975 | 58,363.08 |  | 35,039 |  | 61,865 |  |  |  |  |  |  |  |
| 1977 | 1,018.76 |  | 601 |  | 1,080 |  |  |  |  |  |  |  |
| 1979 | 1,820.23 |  | 1,053 |  | 1,929 |  |  |  |  |  |  |  |
| 1980 | 59,043.70 |  | 33,821 |  | 62,586 |  |  |  |  |  |  |  |
| 1981 | 12,622.22 |  | 7,155 |  | 13,380 |  |  |  |  |  |  |  |
| 1982 | 15,835.74 |  | 8,880 |  | 16,786 |  |  |  |  |  |  |  |
| 1986 | 3,216.24 |  | 1,720 |  | 3,409 |  |  |  |  |  |  |  |
| 1987 | 264,804.37 |  | 139,737 |  | 280,693 |  |  |  |  |  |  |  |
| 1989 | 454.40 |  | 233 |  | 482 |  |  |  |  |  |  |  |
| 1991 | 514,234.97 |  | 255,734 |  | 545,089 |  |  |  |  |  |  |  |
| 1992 | 8,195.23 |  | 4,008 |  | 8,687 |  |  |  |  |  |  |  |
| 1995 | 2,349,909.47 |  | 1,087,603 |  | 2,370,703 |  | 120,201 |  | 28.67 |  | 4,193 |  |
| 1996 | 81,231.80 |  | 36,829 |  | 80,278 |  | 5,828 |  | 28.78 |  | 203 |  |
| 1997 | 1,205,376.98 |  | 534,692 |  | 1,165,495 |  | 112,204 |  | 28.89 |  | 3,884 |  |
| 1999 | 1,828,077.35 |  | 773,031 |  | 1,685,015 |  | 252,747 |  | 29.11 |  | 8,682 |  |
| 2000 | 813,955.47 |  | 335,368 |  | 731,019 |  | 131,774 |  | 29.22 |  | 4,510 |  |
| 2001 | 123,567.44 |  | 49,503 |  | 107,904 |  | 23,077 |  | 29.33 |  | 787 |  |
| 2005 | 31,256.40 |  | 10,947 |  | 23,862 |  | 9,270 |  | 29.77 |  | 311 |  |
|  | | | | | | | | | | | | |
|  | 8,735,798.61 |  | 4,420,407 |  | 8,604,845 |  | 655,101 |  |  | | 22,570 |  |

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| SPOKANE UPPER FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 70-S0 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1922 | 335,145.59 |  | 277,098 |  | 355,254 |  |  |  |  |  |  |  |
| 1923 | 986.00 |  | 809 |  | 1,045 |  |  |  |  |  |  |  |
| 1924 | 91.00 |  | 74 |  | 96 |  |  |  |  |  |  |  |
| 1927 | 21.00 |  | 17 |  | 22 |  |  |  |  |  |  |  |
| 1929 | 12,844.00 |  | 10,102 |  | 13,615 |  |  |  |  |  |  |  |
| 1930 | 6,333.00 |  | 4,947 |  | 6,713 |  |  |  |  |  |  |  |
| 1931 | 210.00 |  | 163 |  | 223 |  |  |  |  |  |  |  |
| 1942 | 45.00 |  | 32 |  | 48 |  |  |  |  |  |  |  |
| 1949 | 5,615.33 |  | 3,879 |  | 5,952 |  |  |  |  |  |  |  |
| 1950 | 4,981.00 |  | 3,420 |  | 5,280 |  |  |  |  |  |  |  |
| 1951 | 302.00 |  | 206 |  | 320 |  |  |  |  |  |  |  |
| 1957 | 4.09 |  | 3 |  | 4 |  |  |  |  |  |  |  |
| 1963 | 5,752.00 |  | 3,622 |  | 6,097 |  |  |  |  |  |  |  |
| 1964 | 2,535.00 |  | 1,585 |  | 2,687 |  |  |  |  |  |  |  |
| 1966 | 561.00 |  | 346 |  | 595 |  |  |  |  |  |  |  |
| 1967 | 36,810.84 |  | 22,496 |  | 39,019 |  |  |  |  |  |  |  |
| 1968 | 1,470.00 |  | 891 |  | 1,558 |  |  |  |  |  |  |  |
| 1977 | 5,900.21 |  | 3,301 |  | 6,254 |  |  |  |  |  |  |  |
| 1998 | 603,316.52 |  | 242,856 |  | 639,516 |  |  |  |  |  |  |  |
| 1999 | 35,727.50 |  | 14,014 |  | 37,871 |  |  |  |  |  |  |  |
| 2000 | 304.18 |  | 116 |  | 322 |  |  |  |  |  |  |  |
| 2007 | 46,286.54 |  | 13,635 |  | 45,002 |  | 4,062 |  | 33.57 |  | 121 |  |
| 2010 | 49,862.76 |  | 12,423 |  | 41,002 |  | 11,853 |  | 34.01 |  | 349 |  |
| 2021 | 25,937.41 |  | 378 |  | 1,248 |  | 26,246 |  | 35.83 |  | 733 |  |
|  | | | | | | | | | | | | |
|  | 1,181,041.97 |  | 616,413 |  | 1,209,744 |  | 42,161 |  |  | | 1,203 |  |

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| NINE MILE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 70-S0 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1908 | 29,525.27 |  | 26,359 |  | 8,201 | - | 38,907 |  | 9.91 |  | 3,926 |  |
| 1909 | 24,824.00 |  | 22,022 |  | 6,851 | - | 32,668 |  | 10.29 |  | 3,175 |  |
| 1938 | 1,274.00 |  | 926 |  | 288 | - | 1,613 |  | 20.99 |  | 77 |  |
| 1994 | 3,059,415.18 |  | 1,321,494 |  | 411,134 | - | 3,592,926 |  | 31.73 |  | 113,234 |  |
| 1995 | 318,116.54 |  | 134,603 |  | 41,877 | - | 372,718 |  | 31.87 |  | 11,695 |  |
| 1996 | 3,520.28 |  | 1,457 |  | 453 | - | 4,114 |  | 32.01 |  | 129 |  |
| 1997 | 87,404.22 |  | 35,362 |  | 11,002 | - | 101,902 |  | 32.15 |  | 3,170 |  |
| 1998 | 149,820.93 |  | 59,170 |  | 18,409 | - | 174,222 |  | 32.29 |  | 5,396 |  |
| 1999 | 14,013.64 |  | 5,393 |  | 1,678 | - | 16,252 |  | 32.43 |  | 501 |  |
| 2000 | 2,358.42 |  | 883 |  | 275 | - | 2,727 |  | 32.57 |  | 84 |  |
| 2001 | 11,959.21 |  | 4,348 |  | 1,353 | - | 13,790 |  | 32.71 |  | 422 |  |
| 2003 | 3,747.93 |  | 1,277 |  | 397 | - | 4,295 |  | 32.99 |  | 130 |  |
| 2009 | 136,761.66 |  | 35,567 |  | 11,065 | - | 153,297 |  | 33.86 |  | 4,527 |  |
| 2014 | 3,645,686.21 |  | 638,453 |  | 198,631 | - | 3,990,145 |  | 34.62 |  | 115,255 |  |
| 2016 | 32,005,502.76 |  | 4,326,478 |  | 1,346,023 | - | 34,631,746 |  | 34.94 |  | 991,178 |  |
| 2018 | 1,536,108.53 |  | 139,291 |  | 43,335 | - | 1,640,888 |  | 35.28 |  | 46,510 |  |
| 2020 | 89,769.83 |  | 3,698 |  | 1,150 | - | 94,511 |  | 35.64 |  | 2,652 |  |
| 2021 | 14,659.38 |  | 210 |  | 65 | - | 15,311 |  | 35.83 |  | 427 |  |
|  | | | | | | | | | | | | |
|  | 41,134,467.99 |  | 6,756,991 |  | 2,102,188 | - | 44,882,034 |  |  | | 1,302,488 |  |

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| POST FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 70-S0 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1906 | 172,805.06 |  | 156,252 |  | 179,717 |  |  |  |  |  |  |  |
| 1907 | 42,313.00 |  | 38,021 |  | 44,006 |  |  |  |  |  |  |  |
| 1908 | 88,684.00 |  | 79,174 |  | 92,231 |  |  |  |  |  |  |  |
| 1909 | 1,787.00 |  | 1,585 |  | 1,858 |  |  |  |  |  |  |  |
| 1910 | 56.00 |  | 49 |  | 58 |  |  |  |  |  |  |  |
| 1913 | 268.00 |  | 232 |  | 279 |  |  |  |  |  |  |  |
| 1916 | 40.00 |  | 34 |  | 42 |  |  |  |  |  |  |  |
| 1926 | 399.00 |  | 314 |  | 415 |  |  |  |  |  |  |  |
| 1928 | 571.00 |  | 444 |  | 594 |  |  |  |  |  |  |  |
| 1929 | 2,171.00 |  | 1,675 |  | 2,258 |  |  |  |  |  |  |  |
| 1940 | 370.00 |  | 265 |  | 385 |  |  |  |  |  |  |  |
| 1941 | 489.00 |  | 349 |  | 509 |  |  |  |  |  |  |  |
| 1942 | 1,256.00 |  | 890 |  | 1,306 |  |  |  |  |  |  |  |
| 1948 | 933.00 |  | 636 |  | 970 |  |  |  |  |  |  |  |
| 1949 | 117.00 |  | 79 |  | 122 |  |  |  |  |  |  |  |
| 1958 | 18,352.00 |  | 11,739 |  | 19,086 |  |  |  |  |  |  |  |
| 1959 | 22,327.00 |  | 14,186 |  | 23,220 |  |  |  |  |  |  |  |
| 1962 | 21,610.00 |  | 13,449 |  | 22,474 |  |  |  |  |  |  |  |
| 1963 | 18,588.00 |  | 11,485 |  | 19,332 |  |  |  |  |  |  |  |
| 1964 | 90.00 |  | 55 |  | 94 |  |  |  |  |  |  |  |
| 1967 | 46,836.00 |  | 28,083 |  | 48,709 |  |  |  |  |  |  |  |
| 1968 | 11,611.00 |  | 6,908 |  | 12,075 |  |  |  |  |  |  |  |
| 1974 | 36,182.52 |  | 20,449 |  | 37,630 |  |  |  |  |  |  |  |
| 1980 | 1,233,058.12 |  | 655,848 |  | 1,282,380 |  |  |  |  |  |  |  |
| 1981 | 29,320.62 |  | 15,421 |  | 30,493 |  |  |  |  |  |  |  |
| 1982 | 11,033.71 |  | 5,736 |  | 11,475 |  |  |  |  |  |  |  |
| 1993 | 5,554.62 |  | 2,447 |  | 5,222 |  | 554 |  | 31.59 |  | 18 |  |
| 1996 | 437,326.88 |  | 181,055 |  | 386,415 |  | 68,405 |  | 32.01 |  | 2,137 |  |
| 1997 | 9,974.83 |  | 4,036 |  | 8,614 |  | 1,760 |  | 32.15 |  | 55 |  |
| 1998 | 651.74 |  | 257 |  | 549 |  | 129 |  | 32.29 |  | 4 |  |
| 2004 | 6,499.88 |  | 2,134 |  | 4,554 |  | 2,205 |  | 33.14 |  | 67 |  |
| 2005 | 12,374.89 |  | 3,909 |  | 8,343 |  | 4,527 |  | 33.28 |  | 136 |  |
|  | | | | | | | | | | | | |
|  | 2,233,650.87 |  | 1,257,196 |  | 2,245,416 |  | 77,581 |  |  | | 2,417 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 70-S0 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1952 | 1,914,061.04 |  | 1,319,752 |  | 916,467 |  | 1,246,422 |  | 27.10 |  | 45,993 |  |
| 1953 | 4,419,657.00 |  | 3,021,698 |  | 2,098,338 |  | 2,895,875 |  | 27.43 |  | 105,573 |  |
| 1954 | 1,292.00 |  | 876 |  | 608 |  | 852 |  | 27.76 |  | 31 |  |
| 1955 | 806.00 |  | 542 |  | 376 |  | 534 |  | 28.08 |  | 19 |  |
| 1956 | 3,163.00 |  | 2,107 |  | 1,463 |  | 2,111 |  | 28.40 |  | 74 |  |
| 1973 | 1,473.72 |  | 835 |  | 580 |  | 1,085 |  | 33.23 |  | 33 |  |
| 1984 | 10,197.16 |  | 5,020 |  | 3,486 |  | 8,037 |  | 35.92 |  | 224 |  |
| 1985 | 141,693.68 |  | 68,718 |  | 47,719 |  | 112,394 |  | 36.15 |  | 3,109 |  |
| 1986 | 242,867.50 |  | 115,937 |  | 80,509 |  | 193,931 |  | 36.38 |  | 5,331 |  |
| 1988 | 445,904.96 |  | 205,918 |  | 142,994 |  | 360,878 |  | 36.84 |  | 9,796 |  |
| 1990 | 246,368.23 |  | 109,713 |  | 76,187 |  | 202,209 |  | 37.30 |  | 5,421 |  |
| 1991 | 410.30 |  | 179 |  | 124 |  | 339 |  | 37.52 |  | 9 |  |
| 1992 | 1,604,682.35 |  | 687,255 |  | 477,246 |  | 1,336,045 |  | 37.75 |  | 35,392 |  |
| 1993 | 758,371.57 |  | 318,146 |  | 220,928 |  | 636,032 |  | 37.97 |  | 16,751 |  |
| 1995 | 158,401.82 |  | 63,532 |  | 44,118 |  | 134,876 |  | 38.42 |  | 3,511 |  |
| 1996 | 1,677.39 |  | 657 |  | 456 |  | 1,439 |  | 38.64 |  | 37 |  |
| 1998 | 194,259.99 |  | 72,154 |  | 50,105 |  | 169,408 |  | 39.09 |  | 4,334 |  |
| 2000 | 131,181.92 |  | 45,971 |  | 31,923 |  | 116,312 |  | 39.53 |  | 2,942 |  |
| 2001 | 7,634,067.19 |  | 2,590,105 |  | 1,798,630 |  | 6,827,866 |  | 39.76 |  | 171,727 |  |
| 2003 | 59,157.59 |  | 18,703 |  | 12,988 |  | 53,860 |  | 40.21 |  | 1,339 |  |
| 2004 | 5,705,639.58 |  | 1,735,375 |  | 1,205,085 |  | 5,242,288 |  | 40.43 |  | 129,663 |  |
| 2007 | 5,911,893.88 |  | 1,569,102 |  | 1,089,621 |  | 5,590,819 |  | 41.11 |  | 135,997 |  |
| 2008 | 115,256.58 |  | 28,997 |  | 20,136 |  | 110,104 |  | 41.34 |  | 2,663 |  |
| 2009 | 17,279.66 |  | 4,097 |  | 2,845 |  | 16,681 |  | 41.58 |  | 401 |  |
| 2011 | 429,783.10 |  | 88,962 |  | 61,777 |  | 423,878 |  | 42.05 |  | 10,080 |  |
| 2012 | 10,556.87 |  | 2,016 |  | 1,400 |  | 10,529 |  | 42.29 |  | 249 |  |
| 2016 | 14,433,912.90 |  | 1,734,440 |  | 1,204,436 |  | 15,105,886 |  | 43.28 |  | 349,027 |  |
| 2018 | 1,047,681.79 |  | 83,866 |  | 58,239 |  | 1,125,642 |  | 43.81 |  | 25,694 |  |
| 2020 | 348,040.36 |  | 12,617 |  | 8,762 |  | 384,524 |  | 44.36 |  | 8,668 |  |
| 2021 | 880,223.71 |  | 10,792 |  | 7,494 |  | 987,159 |  | 44.66 |  | 22,104 |  |
|  | | | | | | | | | | | | |
|  | 46,869,962.84 |  | 13,918,082 |  | 9,665,042 |  | 43,298,016 |  |  | | 1,096,192 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 70-S0 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1959 | 3,551,488.81 |  | 2,417,533 |  | 2,008,389 |  | 2,288,913 |  | 30.41 |  | 75,268 |  |
| 1960 | 3,666,192.00 |  | 2,470,682 |  | 2,052,543 |  | 2,383,550 |  | 30.77 |  | 77,463 |  |
| 1961 | 13,616.67 |  | 9,085 |  | 7,547 |  | 8,929 |  | 31.12 |  | 287 |  |
| 1966 | 84.00 |  | 53 |  | 44 |  | 58 |  | 32.85 |  | 2 |  |
| 1967 | 299.00 |  | 187 |  | 155 |  | 206 |  | 33.18 |  | 6 |  |
| 1970 | 8,423.00 |  | 5,100 |  | 4,237 |  | 5,955 |  | 34.17 |  | 174 |  |
| 1972 | 2,089.00 |  | 1,236 |  | 1,027 |  | 1,501 |  | 34.80 |  | 43 |  |
| 1975 | 20,157.99 |  | 11,498 |  | 9,552 |  | 14,839 |  | 35.74 |  | 415 |  |
| 1976 | 15,408.84 |  | 8,675 |  | 7,207 |  | 11,438 |  | 36.05 |  | 317 |  |
| 1977 | 11,771,037.47 |  | 6,542,074 |  | 5,434,890 |  | 8,808,065 |  | 36.35 |  | 242,313 |  |
| 1978 | 911,273.55 |  | 499,750 |  | 415,172 |  | 687,469 |  | 36.65 |  | 18,758 |  |
| 1979 | 549,153.50 |  | 297,087 |  | 246,808 |  | 417,668 |  | 36.95 |  | 11,304 |  |
| 1980 | 283.96 |  | 151 |  | 125 |  | 218 |  | 37.25 |  | 6 |  |
| 1983 | 881.97 |  | 450 |  | 374 |  | 693 |  | 38.12 |  | 18 |  |
| 1986 | 133,967.56 |  | 65,059 |  | 54,048 |  | 108,052 |  | 38.99 |  | 2,771 |  |
| 1988 | 18,454.30 |  | 8,653 |  | 7,189 |  | 15,141 |  | 39.55 |  | 383 |  |
| 1989 | 127,859.25 |  | 58,831 |  | 48,874 |  | 105,835 |  | 39.83 |  | 2,657 |  |
| 1990 | 154,906.76 |  | 69,893 |  | 58,064 |  | 129,373 |  | 40.11 |  | 3,225 |  |
| 1991 | 9,443.95 |  | 4,176 |  | 3,469 |  | 7,958 |  | 40.39 |  | 197 |  |
| 1992 | 52,354.82 |  | 22,667 |  | 18,831 |  | 44,519 |  | 40.67 |  | 1,095 |  |
| 1993 | 1,704,747.04 |  | 721,754 |  | 599,604 |  | 1,463,140 |  | 40.95 |  | 35,730 |  |
| 1997 | 41,632.43 |  | 15,965 |  | 13,263 |  | 37,112 |  | 42.05 |  | 883 |  |
| 1999 | 136,219.82 |  | 49,321 |  | 40,974 |  | 123,852 |  | 42.60 |  | 2,907 |  |
| 2000 | 426,439.23 |  | 149,612 |  | 124,292 |  | 391,700 |  | 42.88 |  | 9,135 |  |
| 2001 | 361,325.04 |  | 122,605 |  | 101,855 |  | 335,348 |  | 43.16 |  | 7,770 |  |
| 2002 | 283,560.76 |  | 92,921 |  | 77,195 |  | 265,914 |  | 43.43 |  | 6,123 |  |
| 2003 | 500,143.98 |  | 157,745 |  | 131,048 |  | 474,126 |  | 43.71 |  | 10,847 |  |
| 2004 | 368,835.16 |  | 111,724 |  | 92,816 |  | 353,475 |  | 43.99 |  | 8,035 |  |
| 2005 | 2,644,629.80 |  | 767,168 |  | 637,332 |  | 2,562,670 |  | 44.27 |  | 57,887 |  |
| 2006 | 212,301.22 |  | 58,785 |  | 48,836 |  | 208,048 |  | 44.55 |  | 4,670 |  |
| 2007 | 7,860,050.32 |  | 2,069,805 |  | 1,719,510 |  | 7,791,151 |  | 44.83 |  | 173,793 |  |
| 2008 | 9,243,546.00 |  | 2,303,040 |  | 1,913,272 |  | 9,271,418 |  | 45.12 |  | 205,484 |  |
| 2009 | 17,733,990.85 |  | 4,159,873 |  | 3,455,854 |  | 18,002,275 |  | 45.41 |  | 396,439 |  |
| 2010 | 8,613,465.70 |  | 1,891,021 |  | 1,570,984 |  | 8,851,310 |  | 45.70 |  | 193,683 |  |
| 2011 | 9,064,936.25 |  | 1,849,959 |  | 1,536,871 |  | 9,431,702 |  | 45.99 |  | 205,082 |  |
| 2012 | 7,810,680.62 |  | 1,469,335 |  | 1,220,664 |  | 8,230,260 |  | 46.28 |  | 177,836 |  |
| 2015 | 668,809.21 |  | 91,155 |  | 75,728 |  | 733,531 |  | 47.19 |  | 15,544 |  |
| 2021 | 139,640.38 |  | 1,666 |  | 1,384 |  | 167,581 |  | 49.19 |  | 3,407 |  |
|  | | | | | | | | | | | | |
|  | 88,822,330.21 |  | 28,576,294 |  | 23,740,028 |  | 83,734,992 |  |  | | 1,951,957 |  |
|  | | | | | | | | | | | | |
|  | 239,752,762.73 |  | 65,418,631 |  | 53,356,382 |  | 216,242,176 |  |  | | 5,620,999 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 38.5 2.34 | | | | | | | | | | | |

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| MONROE STREET | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 40-S0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -7 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1992 | 772,086.19 |  | 429,382 |  | 109,820 |  | 716,312 |  | 19.21 |  | 37,288 |  |
| 1993 | 5,540.21 |  | 3,006 |  | 769 |  | 5,159 |  | 19.72 |  | 262 |  |
| 1994 | 340,906.88 |  | 180,197 |  | 46,088 |  | 318,683 |  | 20.24 |  | 15,745 |  |
| 1998 | 106,546.65 |  | 50,187 |  | 12,836 |  | 101,169 |  | 22.38 |  | 4,521 |  |
| 2001 | 21,074.38 |  | 8,953 |  | 2,290 |  | 20,260 |  | 24.07 |  | 842 |  |
| 2009 | 32,170.85 |  | 9,249 |  | 2,366 |  | 32,057 |  | 28.85 |  | 1,111 |  |
| 2012 | 5,653.02 |  | 1,292 |  | 330 |  | 5,718 |  | 30.75 |  | 186 |  |
| 2015 | 136,580.08 |  | 22,434 |  | 5,738 |  | 140,403 |  | 32.70 |  | 4,294 |  |
| 2016 | 686,497.65 |  | 97,071 |  | 24,827 |  | 709,725 |  | 33.36 |  | 21,275 |  |
| 2018 | 785,298.59 |  | 73,372 |  | 18,766 |  | 821,504 |  | 34.70 |  | 23,674 |  |
| 2019 | 140,015.82 |  | 9,477 |  | 2,424 |  | 147,393 |  | 35.39 |  | 4,165 |  |
| 2020 | 1,872.17 |  | 78 |  | 20 |  | 1,983 |  | 36.07 |  | 55 |  |
|  | | | | | | | | | | | | |
|  | 3,034,242.49 |  | 884,698 |  | 226,273 |  | 3,020,367 |  |  | | 113,418 |  |

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| LITTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 40-S0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2059 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -5 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1911 | 68,961.54 |  | 72,410 |  | 72,410 |  |  |  |  |  |  |  |
| 1912 | 1,325.00 |  | 1,391 |  | 1,391 |  |  |  |  |  |  |  |
| 1913 | 1,227.00 |  | 1,288 |  | 1,288 |  |  |  |  |  |  |  |
| 1915 | 7,485.00 |  | 7,859 |  | 7,859 |  |  |  |  |  |  |  |
| 1916 | 310.00 |  | 326 |  | 326 |  |  |  |  |  |  |  |
| 1921 | 90.00 |  | 94 |  | 95 |  |  |  |  |  |  |  |
| 1924 | 1,720.00 |  | 1,806 |  | 1,806 |  |  |  |  |  |  |  |
| 1927 | 1,870.00 |  | 1,964 |  | 1,964 |  |  |  |  |  |  |  |
| 1934 | 619.00 |  | 650 |  | 650 |  |  |  |  |  |  |  |
| 1936 | 964.00 |  | 1,012 |  | 1,012 |  |  |  |  |  |  |  |
| 1937 | 636.00 |  | 668 |  | 668 |  |  |  |  |  |  |  |
| 1939 | 2,806.60 |  | 2,947 |  | 2,947 |  |  |  |  |  |  |  |
| 1940 | 1,271.00 |  | 1,335 |  | 1,335 |  |  |  |  |  |  |  |
| 1944 | 82.00 |  | 84 |  | 85 |  | 1 |  | 0.90 |  | 1 |  |
| 1947 | 373.00 |  | 373 |  | 379 |  | 13 |  | 1.93 |  | 7 |  |
| 1948 | 77.00 |  | 76 |  | 77 |  | 4 |  | 2.27 |  | 2 |  |
| 1970 | 25,492.84 |  | 20,183 |  | 20,506 |  | 6,262 |  | 9.84 |  | 636 |  |
| 1971 | 4,978.00 |  | 3,893 |  | 3,955 |  | 1,272 |  | 10.21 |  | 125 |  |
| 1981 | 214,855.79 |  | 145,737 |  | 148,069 |  | 77,529 |  | 14.16 |  | 5,475 |  |
| 1982 | 80,425.43 |  | 53,666 |  | 54,525 |  | 29,922 |  | 14.58 |  | 2,052 |  |
| 1989 | 158,813.82 |  | 93,306 |  | 94,799 |  | 71,955 |  | 17.57 |  | 4,095 |  |
| 1992 | 283,044.62 |  | 156,186 |  | 158,685 |  | 138,512 |  | 18.86 |  | 7,344 |  |
| 1993 | 28,935.52 |  | 15,616 |  | 15,866 |  | 14,516 |  | 19.29 |  | 753 |  |
| 1998 | 9,880.72 |  | 4,702 |  | 4,777 |  | 5,598 |  | 21.45 |  | 261 |  |
| 1999 | 36,697.93 |  | 16,970 |  | 17,242 |  | 21,291 |  | 21.88 |  | 973 |  |
| 2002 | 132,588.35 |  | 55,680 |  | 56,571 |  | 82,647 |  | 23.18 |  | 3,565 |  |
| 2005 | 102,110.49 |  | 38,183 |  | 38,794 |  | 68,422 |  | 24.48 |  | 2,795 |  |
| 2009 | 51,188.53 |  | 15,625 |  | 15,875 |  | 37,873 |  | 26.23 |  | 1,444 |  |
| 2010 | 7,553.83 |  | 2,163 |  | 2,198 |  | 5,734 |  | 26.67 |  | 215 |  |
| 2011 | 4,124.17 |  | 1,101 |  | 1,119 |  | 3,212 |  | 27.11 |  | 118 |  |
| 2013 | 3,361,028.13 |  | 757,517 |  | 769,639 |  | 2,759,441 |  | 27.99 |  | 98,587 |  |
| 2015 | 3,344,116.49 |  | 603,351 |  | 613,006 |  | 2,898,316 |  | 28.87 |  | 100,392 |  |
| 2016 | 1,389,375.33 |  | 217,295 |  | 220,772 |  | 1,238,072 |  | 29.31 |  | 42,241 |  |
| 2017 | 311,435.28 |  | 40,781 |  | 41,434 |  | 285,573 |  | 29.76 |  | 9,596 |  |
| 2018 | 987,768.90 |  | 103,280 |  | 104,933 |  | 932,225 |  | 30.20 |  | 30,868 |  |
| 2019 | 3,270,053.24 |  | 250,306 |  | 254,311 |  | 3,179,244 |  | 30.65 |  | 103,727 |  |
| 2021 | 69,584.27 |  | 1,117 |  | 1,135 |  | 71,929 |  | 31.55 |  | 2,280 |  |
|  | | | | | | | | | | | | |
|  | 13,963,868.82 |  | 2,690,941 |  | 2,732,501 |  | 11,929,561 |  |  | | 417,552 |  |

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| LONG LAKE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 40-S0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2055 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1915 | 71,899.98 |  | 76,214 |  | 76,214 |  |  |  |  |  |  |  |
| 1917 | 594.00 |  | 630 |  | 630 |  |  |  |  |  |  |  |
| 1918 | 19,449.00 |  | 20,616 |  | 20,616 |  |  |  |  |  |  |  |
| 1919 | 48,717.00 |  | 51,640 |  | 51,640 |  |  |  |  |  |  |  |
| 1920 | 11,340.00 |  | 12,020 |  | 12,020 |  |  |  |  |  |  |  |
| 1922 | 9,844.00 |  | 10,435 |  | 10,435 |  |  |  |  |  |  |  |
| 1923 | 14,511.00 |  | 15,382 |  | 15,382 |  |  |  |  |  |  |  |
| 1924 | 19,826.50 |  | 21,016 |  | 21,016 |  |  |  |  |  |  |  |
| 1925 | 271.00 |  | 287 |  | 287 |  |  |  |  |  |  |  |
| 1926 | 3,874.00 |  | 4,106 |  | 4,106 |  |  |  |  |  |  |  |
| 1928 | 219.00 |  | 232 |  | 232 |  |  |  |  |  |  |  |
| 1929 | 819.00 |  | 868 |  | 868 |  |  |  |  |  |  |  |
| 1930 | 27,496.00 |  | 29,146 |  | 29,146 |  |  |  |  |  |  |  |
| 1931 | 3,768.00 |  | 3,994 |  | 3,994 |  |  |  |  |  |  |  |
| 1932 | 263.00 |  | 279 |  | 279 |  |  |  |  |  |  |  |
| 1936 | 690.00 |  | 731 |  | 731 |  |  |  |  |  |  |  |
| 1937 | 815.00 |  | 864 |  | 864 |  |  |  |  |  |  |  |
| 1938 | 149.00 |  | 158 |  | 158 |  |  |  |  |  |  |  |
| 1941 | 976.00 |  | 1,035 |  | 1,035 |  |  |  |  |  |  |  |
| 1952 | 1,093.47 |  | 1,054 |  | 1,159 |  |  |  |  |  |  |  |
| 1954 | 4,481.67 |  | 4,241 |  | 4,751 |  |  |  |  |  |  |  |
| 1962 | 912.93 |  | 798 |  | 968 |  |  |  |  |  |  |  |
| 1964 | 147.34 |  | 126 |  | 156 |  |  |  |  |  |  |  |
| 1966 | 6,567.00 |  | 5,499 |  | 6,961 |  |  |  |  |  |  |  |
| 1977 | 189.82 |  | 138 |  | 201 |  |  |  |  |  |  |  |
| 1979 | 10,636.96 |  | 7,520 |  | 11,275 |  |  |  |  |  |  |  |
| 1980 | 179,195.39 |  | 124,778 |  | 189,947 |  |  |  |  |  |  |  |
| 1981 | 118,646.67 |  | 81,379 |  | 125,765 |  |  |  |  |  |  |  |
| 1982 | 26,704.92 |  | 18,029 |  | 28,307 |  |  |  |  |  |  |  |
| 1986 | 4,785.08 |  | 3,024 |  | 5,072 |  |  |  |  |  |  |  |
| 1987 | 194,029.64 |  | 120,478 |  | 205,671 |  |  |  |  |  |  |  |
| 1989 | 5,821.95 |  | 3,486 |  | 6,171 |  |  |  |  |  |  |  |
| 1990 | 3,636.30 |  | 2,137 |  | 3,854 |  |  |  |  |  |  |  |
| 1992 | 91,169.98 |  | 51,493 |  | 95,498 |  | 1,142 |  | 18.43 |  | 62 |  |
| 1993 | 57,432.87 |  | 31,770 |  | 58,920 |  | 1,959 |  | 18.81 |  | 104 |  |
| 1994 | 17,638.08 |  | 9,551 |  | 17,713 |  | 983 |  | 19.19 |  | 51 |  |
| 1995 | 360,296.83 |  | 190,763 |  | 353,785 |  | 28,130 |  | 19.57 |  | 1,437 |  |
| 1996 | 190,998.85 |  | 98,759 |  | 183,156 |  | 19,302 |  | 19.95 |  | 968 |  |
| 1997 | 610,187.98 |  | 307,896 |  | 571,018 |  | 75,782 |  | 20.33 |  | 3,728 |  |
| 1999 | 86,833.85 |  | 41,568 |  | 77,091 |  | 14,953 |  | 21.08 |  | 709 |  |
| 2002 | 48,950.91 |  | 21,384 |  | 39,658 |  | 12,230 |  | 22.21 |  | 551 |  |
| 2004 | 107,892.47 |  | 43,923 |  | 81,459 |  | 32,907 |  | 22.95 |  | 1,434 |  |
| 2005 | 204.15 |  | 80 |  | 148 |  | 68 |  | 23.32 |  | 3 |  |
| 2006 | 33,729.59 |  | 12,646 |  | 23,453 |  | 12,300 |  | 23.70 |  | 519 |  |
| 2007 | 74,789.15 |  | 26,782 |  | 49,669 |  | 29,607 |  | 24.07 |  | 1,230 |  |
| 2013 | 383,540.03 |  | 92,072 |  | 170,755 |  | 235,798 |  | 26.30 |  | 8,966 |  |
| 2014 | 216,867.48 |  | 47,086 |  | 87,325 |  | 142,555 |  | 26.67 |  | 5,345 |  |
| 2015 | 61,606.80 |  | 11,891 |  | 22,053 |  | 43,250 |  | 27.04 |  | 1,599 |  |
| 2016 | 89,978.81 |  | 15,086 |  | 27,978 |  | 67,399 |  | 27.41 |  | 2,459 |  |
| 2018 | 321,633.42 |  | 36,258 |  | 67,243 |  | 273,688 |  | 28.15 |  | 9,722 |  |
| 2019 | 8,089.94 |  | 671 |  | 1,244 |  | 7,331 |  | 28.52 |  | 257 |  |
| 2020 | 294,631.97 |  | 15,122 |  | 28,045 |  | 284,265 |  | 28.89 |  | 9,840 |  |
| 2021 | 655,197.71 |  | 11,439 |  | 21,215 |  | 673,295 |  | 29.27 |  | 23,003 |  |
|  | | | | | | | | | | | | |
|  | 4,504,041.49 |  | 1,688,580 |  | 2,817,339 |  | 1,956,945 |  |  | | 71,987 |  |

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| SPOKANE UPPER FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 40-S0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1998 | 173,603.18 |  | 83,028 |  | 73,307 |  | 110,713 |  | 21.59 |  | 5,128 |  |
| 1999 | 16,840.72 |  | 7,822 |  | 6,906 |  | 10,945 |  | 22.04 |  | 497 |  |
| 2000 | 17.14 |  | 8 |  | 7 |  | 11 |  | 22.48 |  |  |  |
| 2001 | 160,365.67 |  | 69,916 |  | 61,730 |  | 108,258 |  | 22.93 |  | 4,721 |  |
| 2008 | 1,416,824.50 |  | 458,195 |  | 404,548 |  | 1,097,286 |  | 26.08 |  | 42,074 |  |
| 2009 | 2,484,859.53 |  | 758,525 |  | 669,714 |  | 1,964,238 |  | 26.53 |  | 74,038 |  |
| 2014 | 2,087.30 |  | 423 |  | 373 |  | 1,839 |  | 28.82 |  | 64 |  |
| 2020 | 44,200.04 |  | 2,069 |  | 1,827 |  | 45,025 |  | 31.60 |  | 1,425 |  |
|  | | | | | | | | | | | | |
|  | 4,298,798.08 |  | 1,379,986 |  | 1,218,411 |  | 3,338,315 |  |  | | 127,947 |  |

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| NINE MILE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 40-S0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1908 | 26,357.96 |  | 27,412 |  | 27,412 |  |  |  |  |  |  |  |
| 1909 | 2,930.00 |  | 3,047 |  | 3,047 |  |  |  |  |  |  |  |
| 1925 | 145.00 |  | 151 |  | 151 |  |  |  |  |  |  |  |
| 1930 | 1,111.00 |  | 1,155 |  | 1,155 |  |  |  |  |  |  |  |
| 1936 | 7,495.00 |  | 7,795 |  | 7,795 |  |  |  |  |  |  |  |
| 1940 | 448.00 |  | 466 |  | 466 |  |  |  |  |  |  |  |
| 1941 | 115.51 |  | 120 |  | 120 |  |  |  |  |  |  |  |
| 1956 | 2,745.69 |  | 2,501 |  | 1,281 |  | 1,574 |  | 4.96 |  | 317 |  |
| 1969 | 1,626.73 |  | 1,291 |  | 661 |  | 1,030 |  | 9.48 |  | 109 |  |
| 1988 | 126,187.34 |  | 74,784 |  | 38,308 |  | 92,927 |  | 17.18 |  | 5,409 |  |
| 1989 | 1,565.55 |  | 910 |  | 466 |  | 1,162 |  | 17.62 |  | 66 |  |
| 1992 | 955.32 |  | 521 |  | 267 |  | 727 |  | 18.94 |  | 38 |  |
| 1994 | 1,966,323.11 |  | 1,023,776 |  | 524,426 |  | 1,520,550 |  | 19.82 |  | 76,718 |  |
| 1995 | 10,438.87 |  | 5,305 |  | 2,717 |  | 8,139 |  | 20.26 |  | 402 |  |
| 1996 | 3,140.60 |  | 1,555 |  | 797 |  | 2,470 |  | 20.71 |  | 119 |  |
| 2000 | 41,885.98 |  | 18,516 |  | 9,485 |  | 34,077 |  | 22.48 |  | 1,516 |  |
| 2001 | 2,287.04 |  | 978 |  | 501 |  | 1,878 |  | 22.93 |  | 82 |  |
| 2004 | 14,432.72 |  | 5,533 |  | 2,834 |  | 12,176 |  | 24.27 |  | 502 |  |
| 2013 | 176,797.98 |  | 39,021 |  | 19,988 |  | 163,882 |  | 28.36 |  | 5,779 |  |
| 2014 | 383,374.18 |  | 76,297 |  | 39,083 |  | 359,626 |  | 28.82 |  | 12,478 |  |
| 2016 | 14,494,372.62 |  | 2,213,940 |  | 1,134,084 |  | 13,940,064 |  | 29.74 |  | 468,731 |  |
| 2017 | 42,578.03 |  | 5,451 |  | 2,792 |  | 41,489 |  | 30.20 |  | 1,374 |  |
| 2018 | 57,320.85 |  | 5,839 |  | 2,991 |  | 56,623 |  | 30.67 |  | 1,846 |  |
| 2019 | 20,167.84 |  | 1,507 |  | 772 |  | 20,203 |  | 31.13 |  | 649 |  |
| 2020 | 537,362.90 |  | 24,679 |  | 12,642 |  | 546,216 |  | 31.60 |  | 17,285 |  |
| 2021 | 658,283.35 |  | 10,303 |  | 5,278 |  | 679,337 |  | 32.07 |  | 21,183 |  |
|  | | | | | | | | | | | | |
|  | 18,580,449.17 |  | 3,552,853 |  | 1,839,520 |  | 17,484,147 |  |  | | 614,603 |  |

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| POST FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 40-S0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1906 | 18,565.11 |  | 19,308 |  | 19,308 |  |  |  |  |  |  |  |
| 1907 | 2,547.00 |  | 2,649 |  | 2,649 |  |  |  |  |  |  |  |
| 1908 | 376.00 |  | 391 |  | 391 |  |  |  |  |  |  |  |
| 1911 | 3,311.00 |  | 3,443 |  | 3,443 |  |  |  |  |  |  |  |
| 1912 | 78.50 |  | 82 |  | 82 |  |  |  |  |  |  |  |
| 1923 | 86.00 |  | 89 |  | 89 |  |  |  |  |  |  |  |
| 1924 | 1,068.00 |  | 1,111 |  | 1,111 |  |  |  |  |  |  |  |
| 1925 | 48.00 |  | 50 |  | 50 |  |  |  |  |  |  |  |
| 1926 | 722.00 |  | 751 |  | 751 |  |  |  |  |  |  |  |
| 1930 | 3,831.00 |  | 3,984 |  | 3,984 |  |  |  |  |  |  |  |
| 1931 | 1,723.00 |  | 1,792 |  | 1,792 |  |  |  |  |  |  |  |
| 1932 | 105.00 |  | 109 |  | 109 |  |  |  |  |  |  |  |
| 1933 | 44.00 |  | 46 |  | 46 |  |  |  |  |  |  |  |
| 1937 | 6,528.00 |  | 6,789 |  | 6,789 |  |  |  |  |  |  |  |
| 1938 | 705.00 |  | 733 |  | 733 |  |  |  |  |  |  |  |
| 1939 | 50.00 |  | 52 |  | 52 |  |  |  |  |  |  |  |
| 1944 | 137.00 |  | 139 |  | 142 |  |  |  |  |  |  |  |
| 1946 | 265.00 |  | 265 |  | 276 |  |  |  |  |  |  |  |
| 1949 | 407.00 |  | 396 |  | 423 |  |  |  |  |  |  |  |
| 1950 | 1,060.00 |  | 1,021 |  | 1,102 |  |  |  |  |  |  |  |
| 1954 | 97.00 |  | 90 |  | 101 |  |  |  |  |  |  |  |
| 1955 | 5,905.52 |  | 5,432 |  | 6,142 |  |  |  |  |  |  |  |
| 1956 | 260.00 |  | 237 |  | 270 |  |  |  |  |  |  |  |
| 1957 | 57,840.27 |  | 52,199 |  | 60,154 |  |  |  |  |  |  |  |
| 1958 | 2,713.00 |  | 2,424 |  | 2,822 |  |  |  |  |  |  |  |
| 1959 | 1,146.00 |  | 1,014 |  | 1,192 |  |  |  |  |  |  |  |
| 1960 | 582.00 |  | 510 |  | 605 |  |  |  |  |  |  |  |
| 1962 | 96.00 |  | 82 |  | 100 |  |  |  |  |  |  |  |
| 1964 | 243.00 |  | 204 |  | 253 |  |  |  |  |  |  |  |
| 1967 | 7,468.00 |  | 6,068 |  | 7,601 |  | 166 |  | 8.75 |  | 19 |  |
| 1968 | 14,049.00 |  | 11,283 |  | 14,133 |  | 477 |  | 9.11 |  | 52 |  |
| 1973 | 30,326.82 |  | 22,890 |  | 28,673 |  | 2,867 |  | 10.97 |  | 261 |  |
| 1980 | 193,821.69 |  | 132,334 |  | 165,766 |  | 35,809 |  | 13.74 |  | 2,606 |  |
| 1981 | 279.46 |  | 188 |  | 235 |  | 55 |  | 14.16 |  | 4 |  |
| 1983 | 13,662.20 |  | 8,877 |  | 11,120 |  | 3,089 |  | 15.01 |  | 206 |  |
| 1985 | 458.13 |  | 287 |  | 360 |  | 117 |  | 15.87 |  | 7 |  |
| 1986 | 1.00 |  | 1 |  | 1 |  |  |  |  |  |  |  |
| 1987 | 5,648.12 |  | 3,413 |  | 4,275 |  | 1,599 |  | 16.74 |  | 96 |  |
| 1990 | 306.00 |  | 174 |  | 218 |  | 100 |  | 18.06 |  | 6 |  |
| 1991 | 34,928.98 |  | 19,462 |  | 24,379 |  | 11,947 |  | 18.50 |  | 646 |  |
| 1992 | 35,532.45 |  | 19,373 |  | 24,267 |  | 12,686 |  | 18.94 |  | 670 |  |
| 1994 | 19,747.70 |  | 10,282 |  | 12,880 |  | 7,658 |  | 19.82 |  | 386 |  |
| 1996 | 49,081.98 |  | 24,309 |  | 30,450 |  | 20,595 |  | 20.71 |  | 994 |  |
| 1997 | 44,227.84 |  | 21,337 |  | 26,727 |  | 19,269 |  | 21.15 |  | 911 |  |
| 1998 | 29,893.08 |  | 14,027 |  | 17,571 |  | 13,518 |  | 21.59 |  | 626 |  |
| 2004 | 5,280.94 |  | 2,025 |  | 2,537 |  | 2,956 |  | 24.27 |  | 122 |  |
| 2006 | 21,365.10 |  | 7,510 |  | 9,407 |  | 12,812 |  | 25.17 |  | 509 |  |
| 2009 | 21,270.44 |  | 6,370 |  | 7,979 |  | 14,142 |  | 26.53 |  | 533 |  |
| 2010 | 31,955.20 |  | 8,978 |  | 11,246 |  | 21,987 |  | 26.99 |  | 815 |  |
| 2013 | 343,378.40 |  | 75,787 |  | 94,933 |  | 262,180 |  | 28.36 |  | 9,245 |  |
| 2016 | 543,205.11 |  | 82,972 |  | 103,934 |  | 461,000 |  | 29.74 |  | 15,501 |  |
| 2018 | 336,016.61 |  | 34,226 |  | 42,873 |  | 306,585 |  | 30.67 |  | 9,996 |  |
| 2019 | 11,094.57 |  | 829 |  | 1,038 |  | 10,500 |  | 31.13 |  | 337 |  |
| 2020 | 217,065.00 |  | 9,969 |  | 12,488 |  | 213,260 |  | 31.60 |  | 6,749 |  |
| 2021 | 327,670.46 |  | 5,129 |  | 6,425 |  | 334,353 |  | 32.07 |  | 10,426 |  |
|  | | | | | | | | | | | | |
|  | 2,448,273.68 |  | 633,492 |  | 776,477 |  | 1,769,728 |  |  | | 61,723 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 40-S0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1952 | 744,427.85 |  | 765,075 |  | 841,203 |  |  |  |  |  |  |  |
| 1953 | 87,873.08 |  | 89,491 |  | 99,297 |  |  |  |  |  |  |  |
| 1959 | 6,518.37 |  | 6,266 |  | 7,310 |  | 56 |  | 5.97 |  | 9 |  |
| 1977 | 8,908.35 |  | 6,916 |  | 8,068 |  | 1,998 |  | 12.52 |  | 160 |  |
| 1987 | 124,391.48 |  | 81,526 |  | 95,112 |  | 45,451 |  | 16.80 |  | 2,705 |  |
| 1988 | 16,546.93 |  | 10,625 |  | 12,396 |  | 6,302 |  | 17.27 |  | 365 |  |
| 1989 | 342,908.00 |  | 215,636 |  | 251,570 |  | 135,916 |  | 17.74 |  | 7,662 |  |
| 1990 | 4,251.73 |  | 2,616 |  | 3,052 |  | 1,753 |  | 18.22 |  | 96 |  |
| 1991 | 258,764.23 |  | 155,632 |  | 181,567 |  | 110,837 |  | 18.71 |  | 5,924 |  |
| 1993 | 31,274.13 |  | 17,917 |  | 20,903 |  | 14,437 |  | 19.72 |  | 732 |  |
| 1994 | 682,817.40 |  | 381,162 |  | 444,680 |  | 326,904 |  | 20.24 |  | 16,151 |  |
| 1996 | 10,214.41 |  | 5,397 |  | 6,296 |  | 5,246 |  | 21.29 |  | 246 |  |
| 1997 | 794,438.41 |  | 407,437 |  | 475,333 |  | 422,382 |  | 21.84 |  | 19,340 |  |
| 1998 | 525,245.20 |  | 261,282 |  | 304,823 |  | 288,705 |  | 22.38 |  | 12,900 |  |
| 1999 | 2,090.80 |  | 1,006 |  | 1,174 |  | 1,189 |  | 22.94 |  | 52 |  |
| 2001 | 79,744.72 |  | 35,778 |  | 41,740 |  | 48,371 |  | 24.07 |  | 2,010 |  |
| 2002 | 1,086.99 |  | 470 |  | 548 |  | 680 |  | 24.64 |  | 28 |  |
| 2003 | 12,466.22 |  | 5,172 |  | 6,034 |  | 8,053 |  | 25.22 |  | 319 |  |
| 2004 | 4,374.93 |  | 1,739 |  | 2,029 |  | 2,915 |  | 25.81 |  | 113 |  |
| 2005 | 111,993.56 |  | 42,471 |  | 49,548 |  | 77,004 |  | 26.41 |  | 2,916 |  |
| 2008 | 213,316.76 |  | 68,949 |  | 80,439 |  | 160,609 |  | 28.23 |  | 5,689 |  |
| 2011 | 144,050.44 |  | 37,842 |  | 44,148 |  | 118,629 |  | 30.11 |  | 3,940 |  |
| 2014 | 798,374.10 |  | 157,184 |  | 183,377 |  | 718,785 |  | 32.04 |  | 22,434 |  |
| 2016 | 2,267,016.10 |  | 338,532 |  | 394,946 |  | 2,166,783 |  | 33.36 |  | 64,952 |  |
| 2017 | 564,612.09 |  | 70,239 |  | 81,944 |  | 556,068 |  | 34.03 |  | 16,341 |  |
| 2018 | 952,041.21 |  | 93,939 |  | 109,593 |  | 966,213 |  | 34.70 |  | 27,845 |  |
| 2019 | 267,362.29 |  | 19,112 |  | 22,297 |  | 279,823 |  | 35.39 |  | 7,907 |  |
| 2020 | 4,159,638.12 |  | 182,845 |  | 213,315 |  | 4,487,076 |  | 36.07 |  | 124,399 |  |
| 2021 | 4,165,551.84 |  | 61,898 |  | 72,213 |  | 4,634,861 |  | 36.77 |  | 126,050 |  |
|  | | | | | | | | | | | | |
|  | 17,382,299.74 |  | 3,524,154 |  | 4,054,954 |  | 15,587,045 |  |  | | 471,285 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 40-S0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1992 | 12,963.64 |  | 8,153 |  | 4,717 |  | 10,969 |  | 19.21 |  | 571 |  |
| 1996 | 165,562.48 |  | 93,655 |  | 54,191 |  | 146,140 |  | 21.30 |  | 6,861 |  |
| 1997 | 102,674.94 |  | 56,372 |  | 32,618 |  | 91,619 |  | 21.85 |  | 4,193 |  |
| 1998 | 113,468.80 |  | 60,376 |  | 34,935 |  | 102,363 |  | 22.41 |  | 4,568 |  |
| 1999 | 1,418,263.53 |  | 730,200 |  | 422,508 |  | 1,293,591 |  | 22.98 |  | 56,292 |  |
| 2000 | 1,484,660.66 |  | 737,887 |  | 426,955 |  | 1,369,484 |  | 23.57 |  | 58,103 |  |
| 2001 | 2,279,856.65 |  | 1,092,416 |  | 632,093 |  | 2,126,534 |  | 24.16 |  | 88,019 |  |
| 2002 | 1,374,930.69 |  | 633,441 |  | 366,521 |  | 1,297,145 |  | 24.77 |  | 52,368 |  |
| 2003 | 1,052,551.64 |  | 464,974 |  | 269,043 |  | 1,004,545 |  | 25.39 |  | 39,565 |  |
| 2004 | 223,545.20 |  | 94,560 |  | 54,714 |  | 215,775 |  | 26.01 |  | 8,296 |  |
| 2005 | 243,908.27 |  | 98,402 |  | 56,937 |  | 238,192 |  | 26.65 |  | 8,938 |  |
| 2006 | 1,899,004.44 |  | 727,988 |  | 421,228 |  | 1,876,568 |  | 27.30 |  | 68,739 |  |
| 2008 | 1,021,722.93 |  | 349,337 |  | 202,133 |  | 1,034,152 |  | 28.64 |  | 36,109 |  |
| 2009 | 64,426.72 |  | 20,657 |  | 11,953 |  | 66,004 |  | 29.32 |  | 2,251 |  |
| 2013 | 111,251.69 |  | 25,573 |  | 14,797 |  | 119,818 |  | 32.15 |  | 3,727 |  |
| 2014 | 76,568.58 |  | 15,761 |  | 9,120 |  | 83,528 |  | 32.88 |  | 2,540 |  |
| 2015 | 208,716.63 |  | 37,748 |  | 21,842 |  | 230,705 |  | 33.63 |  | 6,860 |  |
| 2016 | 7,592.57 |  | 1,181 |  | 683 |  | 8,504 |  | 34.38 |  | 247 |  |
| 2017 | 5,439,852.93 |  | 702,718 |  | 406,606 |  | 6,175,616 |  | 35.14 |  | 175,743 |  |
| 2018 | 97,107.50 |  | 9,913 |  | 5,736 |  | 111,764 |  | 35.92 |  | 3,111 |  |
| 2019 | 419,274.07 |  | 31,139 |  | 18,018 |  | 489,304 |  | 36.70 |  | 13,333 |  |
| 2020 | 790,736.15 |  | 35,621 |  | 20,611 |  | 936,180 |  | 37.50 |  | 24,965 |  |
| 2021 | 1,007,120.38 |  | 15,708 |  | 9,089 |  | 1,209,527 |  | 38.30 |  | 31,580 |  |
|  | | | | | | | | | | | | |
|  | 19,615,761.09 |  | 6,043,780 |  | 3,497,046 |  | 20,238,025 |  |  | | 696,979 |  |
|  | | | | | | | | | | | | |
|  | 83,827,734.56 |  | 20,398,484 |  | 17,162,521 |  | 75,324,133 |  |  | | 2,575,494 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 29.2 3.07 | | | | | | | | | | | |

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| MONROE STREET | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -7 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1992 | 19,611.78 |  | 7,686 |  | 5,236 |  | 15,749 |  | 37.49 |  | 420 |  |
| 1993 | 13.74 |  | 5 |  | 3 |  | 11 |  | 37.79 |  |  |  |
| 1994 | 2.13 |  | 1 |  | 1 |  | 2 |  | 38.08 |  |  |  |
| 2002 | 4,550.56 |  | 1,316 |  | 897 |  | 3,973 |  | 40.21 |  | 99 |  |
| 2006 | 9,385.49 |  | 2,273 |  | 1,548 |  | 8,494 |  | 41.12 |  | 207 |  |
|  | | | | | | | | | | | | |
|  | 33,563.70 |  | 11,281 |  | 7,685 |  | 28,228 |  |  | | 726 |  |

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| LITTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2059 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -5 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1980 | 145.94 |  | 79 |  | 100 |  | 53 |  | 28.61 |  | 2 |  |
| 1982 | 10,604.49 |  | 5,564 |  | 7,049 |  | 4,085 |  | 29.05 |  | 141 |  |
| 1983 | 63.52 |  | 33 |  | 42 |  | 25 |  | 29.26 |  | 1 |  |
| 1985 | 9,920.34 |  | 4,980 |  | 6,309 |  | 4,107 |  | 29.68 |  | 138 |  |
| 1986 | 2,050.65 |  | 1,013 |  | 1,283 |  | 870 |  | 29.88 |  | 29 |  |
| 1990 | 8,316.42 |  | 3,836 |  | 4,860 |  | 3,872 |  | 30.64 |  | 126 |  |
| 1991 | 4,946.90 |  | 2,238 |  | 2,835 |  | 2,359 |  | 30.82 |  | 77 |  |
| 1992 | 3,645.77 |  | 1,617 |  | 2,049 |  | 1,779 |  | 30.99 |  | 57 |  |
| 1993 | 32,160.58 |  | 13,971 |  | 17,701 |  | 16,068 |  | 31.16 |  | 516 |  |
| 1994 | 3,217.00 |  | 1,368 |  | 1,733 |  | 1,645 |  | 31.32 |  | 53 |  |
| 1995 | 47,210.28 |  | 19,625 |  | 24,864 |  | 24,707 |  | 31.48 |  | 785 |  |
| 2000 | 1,832.30 |  | 667 |  | 845 |  | 1,079 |  | 32.21 |  | 33 |  |
| 2007 | 7,621.60 |  | 2,112 |  | 2,676 |  | 5,327 |  | 33.06 |  | 161 |  |
| 2015 | 108,745.80 |  | 15,942 |  | 20,198 |  | 93,985 |  | 33.83 |  | 2,778 |  |
| 2017 | 308,466.86 |  | 32,706 |  | 41,437 |  | 282,453 |  | 34.01 |  | 8,305 |  |
|  | | | | | | | | | | | | |
|  | 548,948.45 |  | 105,751 |  | 133,983 |  | 442,413 |  |  | | 13,202 |  |

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| LONG LAKE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2055 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1915 | 2,422.18 |  | 2,266 |  | 2,568 |  |  |  |  |  |  |  |
| 1916 | 4,287.67 |  | 3,990 |  | 4,545 |  |  |  |  |  |  |  |
| 1917 | 370.00 |  | 342 |  | 392 |  |  |  |  |  |  |  |
| 1919 | 167.00 |  | 153 |  | 177 |  |  |  |  |  |  |  |
| 1920 | 346.00 |  | 315 |  | 367 |  |  |  |  |  |  |  |
| 1922 | 38.00 |  | 34 |  | 40 |  |  |  |  |  |  |  |
| 1924 | 123.00 |  | 109 |  | 130 |  |  |  |  |  |  |  |
| 1925 | 116.00 |  | 102 |  | 123 |  |  |  |  |  |  |  |
| 1926 | 135.00 |  | 118 |  | 143 |  |  |  |  |  |  |  |
| 1937 | 262.00 |  | 213 |  | 278 |  |  |  |  |  |  |  |
| 1938 | 287.00 |  | 232 |  | 304 |  |  |  |  |  |  |  |
| 1939 | 82.00 |  | 66 |  | 87 |  |  |  |  |  |  |  |
| 1940 | 107.00 |  | 85 |  | 113 |  |  |  |  |  |  |  |
| 1945 | 206.30 |  | 159 |  | 213 |  | 6 |  | 17.75 |  |  |  |
| 1947 | 226.95 |  | 172 |  | 230 |  | 10 |  | 18.38 |  | 1 |  |
| 1948 | 1,032.86 |  | 777 |  | 1,041 |  | 54 |  | 18.69 |  | 3 |  |
| 1951 | 2,247.07 |  | 1,655 |  | 2,217 |  | 165 |  | 19.61 |  | 8 |  |
| 1955 | 865.46 |  | 619 |  | 829 |  | 88 |  | 20.77 |  | 4 |  |
| 1959 | 454.70 |  | 315 |  | 422 |  | 60 |  | 21.87 |  | 3 |  |
| 1961 | 227.10 |  | 155 |  | 208 |  | 33 |  | 22.39 |  | 1 |  |
| 1964 | 1,934.04 |  | 1,288 |  | 1,725 |  | 325 |  | 23.15 |  | 14 |  |
| 1971 | 44.00 |  | 28 |  | 38 |  | 9 |  | 24.78 |  |  |  |
| 1975 | 422.00 |  | 254 |  | 340 |  | 107 |  | 25.63 |  | 4 |  |
| 1980 | 425.11 |  | 241 |  | 323 |  | 128 |  | 26.60 |  | 5 |  |
| 1981 | 10,801.05 |  | 6,058 |  | 8,116 |  | 3,333 |  | 26.78 |  | 124 |  |
| 1982 | 5,594.45 |  | 3,098 |  | 4,150 |  | 1,780 |  | 26.96 |  | 66 |  |
| 1983 | 668.06 |  | 365 |  | 489 |  | 219 |  | 27.13 |  | 8 |  |
| 1984 | 649.22 |  | 350 |  | 469 |  | 219 |  | 27.30 |  | 8 |  |
| 1985 | 2,983.76 |  | 1,586 |  | 2,125 |  | 1,038 |  | 27.47 |  | 38 |  |
| 1987 | 25,778.43 |  | 13,302 |  | 17,820 |  | 9,505 |  | 27.79 |  | 342 |  |
| 1988 | 17,550.87 |  | 8,917 |  | 11,946 |  | 6,658 |  | 27.94 |  | 238 |  |
| 1989 | 9,057.84 |  | 4,527 |  | 6,065 |  | 3,537 |  | 28.09 |  | 126 |  |
| 1990 | 20,847.26 |  | 10,243 |  | 13,722 |  | 8,376 |  | 28.24 |  | 297 |  |
| 1992 | 20,625.27 |  | 9,772 |  | 13,091 |  | 8,772 |  | 28.52 |  | 308 |  |
| 1993 | 1,583.83 |  | 736 |  | 986 |  | 693 |  | 28.65 |  | 24 |  |
| 1994 | 29,314.94 |  | 13,347 |  | 17,880 |  | 13,193 |  | 28.78 |  | 458 |  |
| 1995 | 124,864.51 |  | 55,644 |  | 74,544 |  | 57,813 |  | 28.91 |  | 2,000 |  |
| 1996 | 15,621.60 |  | 6,806 |  | 9,118 |  | 7,441 |  | 29.03 |  | 256 |  |
| 1999 | 29,196.63 |  | 11,798 |  | 15,805 |  | 15,143 |  | 29.38 |  | 515 |  |
| 2000 | 1,832.30 |  | 720 |  | 965 |  | 978 |  | 29.48 |  | 33 |  |
| 2004 | 32,773.10 |  | 11,276 |  | 15,106 |  | 19,634 |  | 29.88 |  | 657 |  |
| 2007 | 7,623.69 |  | 2,308 |  | 3,092 |  | 4,989 |  | 30.14 |  | 166 |  |
| 2008 | 37,135.29 |  | 10,686 |  | 14,316 |  | 25,048 |  | 30.22 |  | 829 |  |
| 2009 | 104,268.85 |  | 28,384 |  | 38,025 |  | 72,500 |  | 30.30 |  | 2,393 |  |
| 2018 | 274,452.23 |  | 25,950 |  | 34,764 |  | 256,155 |  | 30.94 |  | 8,279 |  |
| 2019 | 21,493.91 |  | 1,490 |  | 1,996 |  | 20,787 |  | 31.01 |  | 670 |  |
|  | | | | | | | | | | | | |
|  | 811,545.53 |  | 241,051 |  | 321,442 |  | 538,796 |  |  | | 17,878 |  |

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| SPOKANE UPPER FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1951 | 30.54 |  | 22 |  | 22 |  | 11 |  | 20.42 |  | 1 |  |
| 1953 | 26.00 |  | 19 |  | 19 |  | 9 |  | 21.12 |  |  |  |
| 1985 | 1,739.84 |  | 872 |  | 866 |  | 978 |  | 30.20 |  | 32 |  |
| 1992 | 27,945.19 |  | 12,352 |  | 12,269 |  | 17,353 |  | 31.57 |  | 550 |  |
| 1996 | 57,280.62 |  | 23,128 |  | 22,973 |  | 37,745 |  | 32.26 |  | 1,170 |  |
| 1998 | 17,157.07 |  | 6,577 |  | 6,533 |  | 11,654 |  | 32.57 |  | 358 |  |
| 1999 | 226.45 |  | 84 |  | 83 |  | 157 |  | 32.72 |  | 5 |  |
| 2000 | 44.11 |  | 16 |  | 16 |  | 31 |  | 32.86 |  | 1 |  |
|  | | | | | | | | | | | | |
|  | 104,449.82 |  | 43,070 |  | 42,781 |  | 67,936 |  |  | | 2,117 |  |

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| NINE MILE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1908 | 1,077.55 |  | 1,026 |  | 394 |  | 726 |  | 5.51 |  | 132 |  |
| 1926 | 77.00 |  | 66 |  | 25 |  | 55 |  | 11.25 |  | 5 |  |
| 1930 | 26.00 |  | 22 |  | 8 |  | 19 |  | 12.68 |  | 1 |  |
| 1932 | 130.00 |  | 107 |  | 41 |  | 94 |  | 13.41 |  | 7 |  |
| 1940 | 31.00 |  | 24 |  | 9 |  | 23 |  | 16.40 |  | 1 |  |
| 1948 | 433.12 |  | 316 |  | 121 |  | 329 |  | 19.35 |  | 17 |  |
| 1950 | 249.52 |  | 179 |  | 69 |  | 191 |  | 20.07 |  | 10 |  |
| 1951 | 105.53 |  | 75 |  | 29 |  | 81 |  | 20.42 |  | 4 |  |
| 1960 | 29.75 |  | 20 |  | 8 |  | 23 |  | 23.46 |  | 1 |  |
| 1965 | 310.00 |  | 194 |  | 75 |  | 248 |  | 25.02 |  | 10 |  |
| 1966 | 2,251.00 |  | 1,398 |  | 537 |  | 1,804 |  | 25.32 |  | 71 |  |
| 1967 | 154.91 |  | 95 |  | 37 |  | 125 |  | 25.61 |  | 5 |  |
| 1971 | 200.10 |  | 118 |  | 45 |  | 163 |  | 26.75 |  | 6 |  |
| 1980 | 145.93 |  | 77 |  | 30 |  | 122 |  | 29.07 |  | 4 |  |
| 1981 | 430.03 |  | 224 |  | 86 |  | 361 |  | 29.30 |  | 12 |  |
| 1984 | 886.02 |  | 443 |  | 170 |  | 751 |  | 29.98 |  | 25 |  |
| 1987 | 120,496.60 |  | 57,364 |  | 22,050 |  | 103,266 |  | 30.61 |  | 3,374 |  |
| 1990 | 641.41 |  | 289 |  | 111 |  | 556 |  | 31.20 |  | 18 |  |
| 1994 | 3,523.88 |  | 1,463 |  | 562 |  | 3,102 |  | 31.93 |  | 97 |  |
| 1995 | 64,680.86 |  | 26,261 |  | 10,094 |  | 57,174 |  | 32.09 |  | 1,782 |  |
| 2000 | 1,832.30 |  | 650 |  | 250 |  | 1,656 |  | 32.86 |  | 50 |  |
| 2001 | 20,546.95 |  | 7,062 |  | 2,715 |  | 18,654 |  | 33.00 |  | 565 |  |
| 2006 | 556.42 |  | 157 |  | 60 |  | 518 |  | 33.64 |  | 15 |  |
| 2007 | 7,621.60 |  | 2,054 |  | 790 |  | 7,137 |  | 33.76 |  | 211 |  |
| 2009 | 7,075.78 |  | 1,707 |  | 656 |  | 6,703 |  | 33.98 |  | 197 |  |
| 2013 | 3,960.13 |  | 704 |  | 271 |  | 3,848 |  | 34.39 |  | 112 |  |
| 2015 | 128,019.74 |  | 18,151 |  | 6,977 |  | 126,163 |  | 34.59 |  | 3,647 |  |
| 2016 | 550,802.79 |  | 67,600 |  | 25,985 |  | 546,850 |  | 34.68 |  | 15,768 |  |
| 2019 | 2,533.31 |  | 152 |  | 58 |  | 2,576 |  | 34.94 |  | 74 |  |
| 2021 | 103,321.34 |  | 1,300 |  | 500 |  | 106,954 |  | 35.11 |  | 3,046 |  |
|  | | | | | | | | | | | | |
|  | 1,022,150.57 |  | 189,298 |  | 72,764 |  | 990,272 |  |  | | 29,267 |  |

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| POST FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1906 | 336.40 |  | 323 |  | 312 |  | 38 |  | 4.92 |  | 8 |  |
| 1907 | 462.00 |  | 442 |  | 427 |  | 54 |  | 5.22 |  | 10 |  |
| 1911 | 250.90 |  | 235 |  | 227 |  | 34 |  | 6.41 |  | 5 |  |
| 1912 | 76.00 |  | 71 |  | 69 |  | 11 |  | 6.71 |  | 2 |  |
| 1913 | 86.00 |  | 80 |  | 77 |  | 12 |  | 7.01 |  | 2 |  |
| 1918 | 65.00 |  | 59 |  | 57 |  | 11 |  | 8.57 |  | 1 |  |
| 1922 | 15.00 |  | 13 |  | 13 |  | 3 |  | 9.88 |  |  |  |
| 1923 | 83.00 |  | 73 |  | 70 |  | 16 |  | 10.22 |  | 2 |  |
| 1925 | 16.00 |  | 14 |  | 14 |  | 3 |  | 10.90 |  |  |  |
| 1926 | 116.00 |  | 100 |  | 97 |  | 24 |  | 11.25 |  | 2 |  |
| 1927 | 127.00 |  | 109 |  | 105 |  | 27 |  | 11.60 |  | 2 |  |
| 1928 | 36.00 |  | 31 |  | 30 |  | 8 |  | 11.96 |  | 1 |  |
| 1934 | 57.00 |  | 46 |  | 44 |  | 15 |  | 14.16 |  | 1 |  |
| 1936 | 44.00 |  | 35 |  | 34 |  | 12 |  | 14.90 |  | 1 |  |
| 1937 | 15.00 |  | 12 |  | 12 |  | 4 |  | 15.28 |  |  |  |
| 1938 | 206.00 |  | 163 |  | 157 |  | 57 |  | 15.65 |  | 4 |  |
| 1939 | 18.00 |  | 14 |  | 14 |  | 5 |  | 16.03 |  |  |  |
| 1940 | 529.00 |  | 411 |  | 397 |  | 153 |  | 16.40 |  | 9 |  |
| 1943 | 120.00 |  | 91 |  | 88 |  | 37 |  | 17.52 |  | 2 |  |
| 1945 | 64.00 |  | 48 |  | 46 |  | 20 |  | 18.26 |  | 1 |  |
| 1947 | 438.00 |  | 322 |  | 311 |  | 145 |  | 18.99 |  | 8 |  |
| 1948 | 544.01 |  | 397 |  | 383 |  | 183 |  | 19.35 |  | 9 |  |
| 1949 | 185.00 |  | 134 |  | 129 |  | 63 |  | 19.71 |  | 3 |  |
| 1951 | 202.63 |  | 144 |  | 139 |  | 72 |  | 20.42 |  | 4 |  |
| 1952 | 144.30 |  | 102 |  | 98 |  | 52 |  | 20.77 |  | 3 |  |
| 1953 | 50.00 |  | 35 |  | 34 |  | 18 |  | 21.12 |  | 1 |  |
| 1955 | 28.92 |  | 20 |  | 19 |  | 11 |  | 21.81 |  | 1 |  |
| 1957 | 236.00 |  | 159 |  | 153 |  | 92 |  | 22.48 |  | 4 |  |
| 1958 | 83.00 |  | 56 |  | 54 |  | 32 |  | 22.81 |  | 1 |  |
| 1959 | 312.00 |  | 207 |  | 200 |  | 125 |  | 23.14 |  | 5 |  |
| 1963 | 136.36 |  | 87 |  | 84 |  | 58 |  | 24.41 |  | 2 |  |
| 1977 | 1,004.95 |  | 553 |  | 534 |  | 511 |  | 28.34 |  | 18 |  |
| 1983 | 195.80 |  | 99 |  | 96 |  | 108 |  | 29.76 |  | 4 |  |
| 1984 | 823.71 |  | 411 |  | 397 |  | 460 |  | 29.98 |  | 15 |  |
| 1985 | 27,940.75 |  | 13,738 |  | 13,259 |  | 15,799 |  | 30.20 |  | 523 |  |
| 1986 | 1,761.62 |  | 852 |  | 822 |  | 1,010 |  | 30.41 |  | 33 |  |
| 1990 | 1,046.95 |  | 472 |  | 456 |  | 633 |  | 31.20 |  | 20 |  |
| 1991 | 1,684.25 |  | 745 |  | 719 |  | 1,033 |  | 31.39 |  | 33 |  |
| 1992 | 1,076.77 |  | 467 |  | 451 |  | 669 |  | 31.57 |  | 21 |  |
| 1993 | 29,009.16 |  | 12,319 |  | 11,890 |  | 18,280 |  | 31.75 |  | 576 |  |
| 1997 | 21,404.25 |  | 8,266 |  | 7,978 |  | 14,282 |  | 32.42 |  | 441 |  |
| 2000 | 1,832.29 |  | 650 |  | 627 |  | 1,278 |  | 32.86 |  | 39 |  |
| 2001 | 119,904.09 |  | 41,212 |  | 39,776 |  | 84,924 |  | 33.00 |  | 2,573 |  |
| 2006 | 710.29 |  | 201 |  | 194 |  | 545 |  | 33.64 |  | 16 |  |
| 2007 | 7,621.60 |  | 2,054 |  | 1,982 |  | 5,944 |  | 33.76 |  | 176 |  |
| 2016 | 298,276.47 |  | 36,608 |  | 35,332 |  | 274,875 |  | 34.68 |  | 7,926 |  |
| 2018 | 267,511.37 |  | 21,842 |  | 21,081 |  | 257,131 |  | 34.86 |  | 7,376 |  |
| 2021 | 22,453.06 |  | 283 |  | 273 |  | 23,078 |  | 35.11 |  | 657 |  |
|  | | | | | | | | | | | | |
|  | 809,339.90 |  | 144,805 |  | 139,759 |  | 701,955 |  |  | | 20,541 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1952 | 704,362.15 |  | 530,662 |  | 795,929 |  |  |  |  |  |  |  |
| 1953 | 41,263.00 |  | 30,766 |  | 46,627 |  |  |  |  |  |  |  |
| 1954 | 661.92 |  | 488 |  | 748 |  |  |  |  |  |  |  |
| 1955 | 720.90 |  | 526 |  | 815 |  |  |  |  |  |  |  |
| 1956 | 346.40 |  | 250 |  | 391 |  |  |  |  |  |  |  |
| 1959 | 312.97 |  | 219 |  | 354 |  |  |  |  |  |  |  |
| 1961 | 3,384.20 |  | 2,311 |  | 3,824 |  |  |  |  |  |  |  |
| 1966 | 2,480.00 |  | 1,594 |  | 2,802 |  |  |  |  |  |  |  |
| 1968 | 439.76 |  | 275 |  | 488 |  | 9 |  | 28.62 |  |  |  |
| 1971 | 370.00 |  | 223 |  | 396 |  | 22 |  | 29.87 |  | 1 |  |
| 1972 | 50.27 |  | 30 |  | 53 |  | 4 |  | 30.28 |  |  |  |
| 1973 | 1,197.44 |  | 701 |  | 1,245 |  | 108 |  | 30.68 |  | 4 |  |
| 1980 | 13,331.33 |  | 7,005 |  | 12,438 |  | 2,627 |  | 33.41 |  | 79 |  |
| 1982 | 437.88 |  | 222 |  | 394 |  | 101 |  | 34.14 |  | 3 |  |
| 1984 | 48,778.60 |  | 23,897 |  | 42,430 |  | 12,690 |  | 34.86 |  | 364 |  |
| 1986 | 90,583.25 |  | 42,715 |  | 75,842 |  | 26,517 |  | 35.55 |  | 746 |  |
| 1989 | 4,117.59 |  | 1,826 |  | 3,242 |  | 1,411 |  | 36.54 |  | 39 |  |
| 1990 | 5,655.13 |  | 2,453 |  | 4,355 |  | 2,035 |  | 36.86 |  | 55 |  |
| 1992 | 620.04 |  | 257 |  | 456 |  | 244 |  | 37.49 |  | 7 |  |
| 1993 | 73,819.87 |  | 29,815 |  | 52,938 |  | 30,479 |  | 37.79 |  | 807 |  |
| 1994 | 3,817.40 |  | 1,503 |  | 2,669 |  | 1,645 |  | 38.08 |  | 43 |  |
| 1995 | 215,894.58 |  | 82,764 |  | 146,951 |  | 97,010 |  | 38.37 |  | 2,528 |  |
| 1996 | 3,216.13 |  | 1,199 |  | 2,129 |  | 1,505 |  | 38.65 |  | 39 |  |
| 1998 | 103,124.44 |  | 36,207 |  | 64,287 |  | 52,243 |  | 39.20 |  | 1,333 |  |
| 1999 | 84,396.10 |  | 28,703 |  | 50,963 |  | 44,404 |  | 39.46 |  | 1,125 |  |
| 2000 | 462,934.84 |  | 152,237 |  | 270,303 |  | 252,813 |  | 39.71 |  | 6,366 |  |
| 2001 | 1,750.27 |  | 556 |  | 987 |  | 991 |  | 39.96 |  | 25 |  |
| 2002 | 4,077.10 |  | 1,246 |  | 2,212 |  | 2,395 |  | 40.21 |  | 60 |  |
| 2003 | 2,458.37 |  | 722 |  | 1,282 |  | 1,496 |  | 40.44 |  | 37 |  |
| 2004 | 2,195.91 |  | 618 |  | 1,097 |  | 1,384 |  | 40.67 |  | 34 |  |
| 2006 | 11,712.49 |  | 2,996 |  | 5,320 |  | 7,916 |  | 41.12 |  | 193 |  |
| 2009 | 230,651.31 |  | 49,680 |  | 88,209 |  | 172,427 |  | 41.74 |  | 4,131 |  |
| 2011 | 784,410.77 |  | 146,182 |  | 259,553 |  | 626,832 |  | 42.13 |  | 14,879 |  |
| 2012 | 57,184.89 |  | 9,794 |  | 17,390 |  | 47,229 |  | 42.32 |  | 1,116 |  |
| 2013 | 1,403,060.48 |  | 218,413 |  | 387,802 |  | 1,197,656 |  | 42.50 |  | 28,180 |  |
| 2014 | 1,022.46 |  | 143 |  | 254 |  | 901 |  | 42.68 |  | 21 |  |
| 2018 | 461,899.59 |  | 32,188 |  | 57,151 |  | 464,795 |  | 43.36 |  | 10,719 |  |
| 2019 | 389,407.00 |  | 19,797 |  | 35,150 |  | 404,879 |  | 43.52 |  | 9,303 |  |
| 2021 | 103,888.22 |  | 1,088 |  | 1,932 |  | 115,462 |  | 43.83 |  | 2,634 |  |
|  | | | | | | | | | | | | |
|  | 5,320,035.05 |  | 1,462,271 |  | 2,441,410 |  | 3,570,229 |  |  | | 84,871 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 65-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1959 | 684,111.48 |  | 508,825 |  | 670,969 |  | 156,806 |  | 25.03 |  | 6,265 |  |
| 1960 | 23,859.23 |  | 17,529 |  | 23,115 |  | 5,755 |  | 25.51 |  | 226 |  |
| 1963 | 1,573.60 |  | 1,113 |  | 1,468 |  | 436 |  | 26.95 |  | 16 |  |
| 1964 | 277.31 |  | 194 |  | 256 |  | 80 |  | 27.44 |  | 3 |  |
| 1969 | 176.00 |  | 115 |  | 152 |  | 61 |  | 29.85 |  | 2 |  |
| 1972 | 54.47 |  | 34 |  | 45 |  | 21 |  | 31.28 |  | 1 |  |
| 1975 | 484.83 |  | 288 |  | 380 |  | 207 |  | 32.69 |  | 6 |  |
| 1977 | 112,144.07 |  | 64,434 |  | 84,967 |  | 50,728 |  | 33.62 |  | 1,509 |  |
| 1981 | 6,970.87 |  | 3,729 |  | 4,917 |  | 3,517 |  | 35.43 |  | 99 |  |
| 1983 | 2,383.21 |  | 1,227 |  | 1,618 |  | 1,266 |  | 36.31 |  | 35 |  |
| 1984 | 239.42 |  | 121 |  | 160 |  | 130 |  | 36.74 |  | 4 |  |
| 1985 | 4,723.91 |  | 2,336 |  | 3,080 |  | 2,636 |  | 37.16 |  | 71 |  |
| 1986 | 48,064.34 |  | 23,269 |  | 30,684 |  | 27,474 |  | 37.59 |  | 731 |  |
| 1990 | 12,547.96 |  | 5,544 |  | 7,311 |  | 7,872 |  | 39.22 |  | 201 |  |
| 1992 | 81,392.85 |  | 34,216 |  | 45,119 |  | 53,366 |  | 39.99 |  | 1,334 |  |
| 1993 | 133,090.01 |  | 54,481 |  | 71,842 |  | 89,197 |  | 40.37 |  | 2,209 |  |
| 1994 | 25,266.06 |  | 10,063 |  | 13,270 |  | 17,302 |  | 40.74 |  | 425 |  |
| 1995 | 4,524.32 |  | 1,751 |  | 2,309 |  | 3,165 |  | 41.11 |  | 77 |  |
| 1997 | 25,832.10 |  | 9,405 |  | 12,402 |  | 18,855 |  | 41.82 |  | 451 |  |
| 2000 | 1,862.17 |  | 612 |  | 807 |  | 1,446 |  | 42.83 |  | 34 |  |
| 2001 | 531,784.56 |  | 168,239 |  | 221,851 |  | 421,609 |  | 43.16 |  | 9,769 |  |
| 2004 | 11,481.39 |  | 3,202 |  | 4,222 |  | 9,670 |  | 44.08 |  | 219 |  |
| 2005 | 3,176.00 |  | 844 |  | 1,113 |  | 2,730 |  | 44.38 |  | 62 |  |
| 2006 | 107,789.26 |  | 27,241 |  | 35,922 |  | 94,503 |  | 44.66 |  | 2,116 |  |
| 2007 | 19,054.48 |  | 4,553 |  | 6,004 |  | 17,052 |  | 44.95 |  | 379 |  |
| 2008 | 31,060.39 |  | 7,000 |  | 9,231 |  | 28,352 |  | 45.22 |  | 627 |  |
| 2009 | 777,881.84 |  | 164,302 |  | 216,659 |  | 724,578 |  | 45.49 |  | 15,928 |  |
| 2013 | 229,014.12 |  | 34,619 |  | 45,651 |  | 231,456 |  | 46.51 |  | 4,976 |  |
| 2017 | 242,578.95 |  | 20,596 |  | 27,159 |  | 266,361 |  | 47.44 |  | 5,615 |  |
| 2018 | 222,150.85 |  | 14,865 |  | 19,602 |  | 249,201 |  | 47.66 |  | 5,229 |  |
| 2021 | 7,762.28 |  | 77 |  | 102 |  | 9,291 |  | 48.30 |  | 192 |  |
|  | | | | | | | | | | | | |
|  | 3,353,312.33 |  | 1,184,824 |  | 1,562,384 |  | 2,495,124 |  |  | | 58,811 |  |
|  | | | | | | | | | | | | |
|  | 12,003,345.35 |  | 3,382,351 |  | 4,722,209 |  | 8,834,953 |  |  | | 227,413 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 38.8 1.89 | | | | | | | | | | | |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1999 | 45,440.41 |  | 19,935 |  | 39,136 |  | 12,211 |  | 33.36 |  | 366 |  |
| 2003 | 608.03 |  | 224 |  | 440 |  | 247 |  | 36.38 |  | 7 |  |
| 2006 | 51,779.77 |  | 16,312 |  | 32,024 |  | 26,487 |  | 38.52 |  | 688 |  |
| 2008 | 12,692.29 |  | 3,536 |  | 6,942 |  | 7,400 |  | 39.85 |  | 186 |  |
| 2019 | 1,828.48 |  | 106 |  | 208 |  | 1,858 |  | 45.61 |  | 41 |  |
| 2021 | 5,086.83 |  | 61 |  | 120 |  | 5,628 |  | 46.36 |  | 121 |  |
|  | | | | | | | | | | | | |
|  | 117,435.81 |  | 40,174 |  | 78,870 |  | 53,833 |  |  | | 1,409 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2000 | 342,820.43 |  | 153,306 |  | 278,821 |  | 135,992 |  | 34.61 |  | 3,929 |  |
| 2004 | 5,736.28 |  | 2,120 |  | 3,856 |  | 3,085 |  | 37.99 |  | 81 |  |
| 2010 | 7,423.31 |  | 1,853 |  | 3,370 |  | 5,612 |  | 42.87 |  | 131 |  |
|  | | | | | | | | | | | | |
|  | 355,980.02 |  | 157,279 |  | 286,047 |  | 144,689 |  |  | | 4,141 |  |
|  | | | | | | | | | | | | |
|  | 473,415.83 |  | 197,453 |  | 364,916 |  | 198,522 |  |  | | 5,550 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 35.8 1.17 | | | | | | | | | | | |

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| LONG LAKE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2055 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2020 | 14,592.13 |  | 670 |  | 472 |  | 14,996 |  | 32.91 |  | 456 |  |
|  | | | | | | | | | | | | |
|  | 14,592.13 |  | 670 |  | 472 |  | 14,996 |  |  | | 456 |  |

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| POST FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2020 | 16,925.06 |  | 678 |  | 330 |  | 17,272 |  | 37.21 |  | 464 |  |
|  | | | | | | | | | | | | |
|  | 16,925.06 |  | 678 |  | 330 |  | 17,272 |  |  | | 464 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2015 | 48,758.79 |  | 6,979 |  | 5,554 |  | 49,543 |  | 43.85 |  | 1,130 |  |
| 2019 | 145,819.46 |  | 8,465 |  | 6,737 |  | 158,039 |  | 45.61 |  | 3,465 |  |
| 2020 | 10,277.65 |  | 362 |  | 288 |  | 11,326 |  | 46.00 |  | 246 |  |
| 2021 | 41,851.76 |  | 505 |  | 402 |  | 46,891 |  | 46.36 |  | 1,011 |  |
|  | | | | | | | | | | | | |
|  | 246,707.66 |  | 16,311 |  | 12,982 |  | 265,798 |  |  | | 5,852 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2013 | 127,950.99 |  | 24,002 |  | 8,999 |  | 145,822 |  | 45.13 |  | 3,231 |  |
| 2014 | 58,568.94 |  | 9,759 |  | 3,659 |  | 67,209 |  | 45.84 |  | 1,466 |  |
| 2015 | 7,833.08 |  | 1,140 |  | 427 |  | 9,051 |  | 46.53 |  | 195 |  |
| 2017 | 58,308.49 |  | 5,954 |  | 2,232 |  | 68,321 |  | 47.85 |  | 1,428 |  |
| 2018 | 194,397.88 |  | 15,588 |  | 5,844 |  | 229,377 |  | 48.47 |  | 4,732 |  |
| 2019 | 77,172.28 |  | 4,458 |  | 1,671 |  | 91,707 |  | 49.07 |  | 1,869 |  |
| 2020 | 23,106.95 |  | 809 |  | 303 |  | 27,656 |  | 49.64 |  | 557 |  |
| 2021 | 31,291.24 |  | 374 |  | 140 |  | 37,722 |  | 50.18 |  | 752 |  |
|  | | | | | | | | | | | | |
|  | 578,629.85 |  | 62,084 |  | 23,277 |  | 676,865 |  |  | | 14,230 |  |
|  | | | | | | | | | | | | |
|  | 856,854.70 |  | 79,743 |  | 37,061 |  | 974,931 |  |  | | 21,002 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 46.4 2.45 | | | | | | | | | | | |

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| LONG LAKE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2055 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2021 | 25,697.14 |  | 406 |  | 223 |  | 27,016 |  | 33.01 |  | 818 |  |
|  | | | | | | | | | | | | |
|  | 25,697.14 |  | 406 |  | 223 |  | 27,016 |  |  | | 818 |  |

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| NINE MILE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2014 | 18,741.21 |  | 3,304 |  | 956 |  | 18,535 |  | 36.06 |  | 514 |  |
|  | | | | | | | | | | | | |
|  | 18,741.21 |  | 3,304 |  | 956 |  | 18,535 |  |  | | 514 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2003 | 19,260.49 |  | 7,104 |  | 17,870 |  | 3,895 |  | 36.38 |  | 107 |  |
| 2006 | 1,848.11 |  | 582 |  | 1,464 |  | 624 |  | 38.52 |  | 16 |  |
| 2017 | 7,908.06 |  | 803 |  | 2,020 |  | 6,916 |  | 44.78 |  | 154 |  |
| 2018 | 15,023.78 |  | 1,200 |  | 3,019 |  | 13,958 |  | 45.21 |  | 309 |  |
| 2021 | 5,267.89 |  | 64 |  | 161 |  | 5,792 |  | 46.36 |  | 125 |  |
|  | | | | | | | | | | | | |
|  | 49,308.33 |  | 9,753 |  | 24,533 |  | 31,185 |  |  | | 711 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2006 | 17,558.56 |  | 5,794 |  | 4,446 |  | 16,800 |  | 39.66 |  | 424 |  |
| 2014 | 7,022.73 |  | 1,170 |  | 898 |  | 7,600 |  | 45.84 |  | 166 |  |
| 2015 | 10,432.94 |  | 1,518 |  | 1,165 |  | 11,459 |  | 46.53 |  | 246 |  |
| 2017 | 2,249.74 |  | 230 |  | 176 |  | 2,546 |  | 47.85 |  | 53 |  |
| 2018 | 2,698.52 |  | 216 |  | 166 |  | 3,099 |  | 48.47 |  | 64 |  |
| 2019 | 5,425.83 |  | 313 |  | 240 |  | 6,325 |  | 49.07 |  | 129 |  |
|  | | | | | | | | | | | | |
|  | 45,388.32 |  | 9,241 |  | 7,091 |  | 47,829 |  |  | | 1,082 |  |
|  | | | | | | | | | | | | |
|  | 139,135.00 |  | 22,704 |  | 32,802 |  | 124,565 |  |  | | 3,125 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 39.9 2.25 | | | | | | | | | | | |

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| MONROE STREET | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-S2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -7 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1992 | 45,566.19 |  | 23,318 |  | 13,365 |  | 35,391 |  | 30.85 |  | 1,147 |  |
| 1993 | 3,428.93 |  | 1,705 |  | 977 |  | 2,692 |  | 31.58 |  | 85 |  |
| 1994 | 1,453.32 |  | 702 |  | 402 |  | 1,153 |  | 32.30 |  | 36 |  |
|  | | | | | | | | | | | | |
|  | 50,448.44 |  | 25,725 |  | 14,745 |  | 39,235 |  |  | | 1,268 |  |

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| SPOKANE UPPER FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-S2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -6 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2012 | 17,835.78 |  | 3,899 |  | 2,874 |  | 16,032 |  | 36.53 |  | 439 |  |
| 2013 | 490,406.56 |  | 97,510 |  | 71,877 |  | 447,954 |  | 36.77 |  | 12,183 |  |
|  | | | | | | | | | | | | |
|  | 508,242.34 |  | 101,409 |  | 74,751 |  | 463,986 |  |  | | 12,622 |  |

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| NINE MILE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-S2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1994 | 547,608.47 |  | 270,980 |  | 191,840 |  | 377,672 |  | 29.36 |  | 12,863 |  |
| 1995 | 46,886.34 |  | 22,576 |  | 15,983 |  | 32,779 |  | 29.88 |  | 1,097 |  |
| 1996 | 375.25 |  | 176 |  | 125 |  | 266 |  | 30.38 |  | 9 |  |
|  | | | | | | | | | | | | |
|  | 594,870.06 |  | 293,732 |  | 207,948 |  | 410,717 |  |  | | 13,969 |  |

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| POST FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-S2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2060 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2017 | 577,943.72 |  | 64,308 |  | 53,322 |  | 547,739 |  | 37.56 |  | 14,583 |  |
|  | | | | | | | | | | | | |
|  | 577,943.72 |  | 64,308 |  | 53,322 |  | 547,739 |  |  | | 14,583 |  |

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| CABINET GORGE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-S2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2072 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -13 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1952 | 809,617.25 |  | 756,751 |  | 871,547 |  | 43,321 |  | 10.37 |  | 4,178 |  |
| 1958 | 10,987.00 |  | 9,876 |  | 11,374 |  | 1,041 |  | 12.27 |  | 85 |  |
| 1988 | 77,742.23 |  | 46,523 |  | 53,580 |  | 34,268 |  | 27.99 |  | 1,224 |  |
| 1989 | 2,336.56 |  | 1,365 |  | 1,572 |  | 1,068 |  | 28.70 |  | 37 |  |
| 1990 | 1,192.81 |  | 680 |  | 783 |  | 565 |  | 29.41 |  | 19 |  |
| 1992 | 347.06 |  | 188 |  | 217 |  | 176 |  | 30.85 |  | 6 |  |
| 1993 | 47,214.96 |  | 24,801 |  | 28,563 |  | 24,790 |  | 31.58 |  | 785 |  |
| 1999 | 112,055.41 |  | 48,234 |  | 55,551 |  | 71,072 |  | 35.90 |  | 1,980 |  |
| 2000 | 37,070.73 |  | 15,346 |  | 17,674 |  | 24,216 |  | 36.60 |  | 662 |  |
| 2014 | 160,141.39 |  | 25,872 |  | 29,797 |  | 151,163 |  | 44.96 |  | 3,362 |  |
| 2016 | 412,307.18 |  | 49,819 |  | 57,376 |  | 408,531 |  | 45.85 |  | 8,910 |  |
|  | | | | | | | | | | | | |
|  | 1,671,012.58 |  | 979,455 |  | 1,128,034 |  | 760,210 |  |  | | 21,248 |  |

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| NOXON RAPIDS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-S2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2079 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -21 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1959 | 76,150.50 |  | 72,762 |  | 68,411 |  | 23,731 |  | 12.62 |  | 1,880 |  |
| 1960 | 5,440.00 |  | 5,159 |  | 4,850 |  | 1,732 |  | 12.97 |  | 134 |  |
| 1966 | 4,731.99 |  | 4,260 |  | 4,005 |  | 1,720 |  | 15.36 |  | 112 |  |
| 1998 | 76,277.46 |  | 35,834 |  | 33,691 |  | 58,605 |  | 36.24 |  | 1,617 |  |
| 2000 | 42,548.24 |  | 18,452 |  | 17,349 |  | 34,135 |  | 37.86 |  | 902 |  |
| 2001 | 9,679.50 |  | 4,021 |  | 3,781 |  | 7,932 |  | 38.66 |  | 205 |  |
| 2004 | 8,169.55 |  | 2,937 |  | 2,761 |  | 7,124 |  | 41.04 |  | 174 |  |
| 2012 | 21,192.75 |  | 4,319 |  | 4,061 |  | 21,583 |  | 46.86 |  | 461 |  |
| 2018 | 15,559.64 |  | 1,221 |  | 1,148 |  | 17,679 |  | 50.46 |  | 350 |  |
|  | | | | | | | | | | | | |
|  | 259,749.63 |  | 148,965 |  | 140,057 |  | 174,240 |  |  | | 5,835 |  |
|  | | | | | | | | | | | | |
|  | 3,662,266.77 |  | 1,613,594 |  | 1,618,856 |  | 2,396,127 |  |  | | 69,525 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 34.5 1.90 | | | | | | | | | | | |

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| KETTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2038 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -1 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2018 | 9,028.80 |  | 1,559 |  | 3,289 |  | 5,830 |  | 16.97 |  | 344 |  |
|  | | | | | | | | | | | | |
|  | 9,028.80 |  | 1,559 |  | 3,289 |  | 5,830 |  |  | | 344 |  |

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| NORTHEAST TURBINE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2035 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -7 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1978 | 227,647.72 |  | 190,458 |  | 243,583 |  |  |  |  |  |  |  |
| 1979 | 11,442.23 |  | 9,493 |  | 12,243 |  |  |  |  |  |  |  |
| 1980 | 1,764.73 |  | 1,452 |  | 1,888 |  |  |  |  |  |  |  |
| 1982 | 3,159.88 |  | 2,557 |  | 3,381 |  |  |  |  |  |  |  |
| 1983 | 4,533.52 |  | 3,636 |  | 4,851 |  |  |  |  |  |  |  |
| 1993 | 8,131.11 |  | 5,895 |  | 8,700 |  |  |  |  |  |  |  |
| 1994 | 53.94 |  | 39 |  | 58 |  |  |  |  |  |  |  |
| 2008 | 108,546.42 |  | 57,119 |  | 116,145 |  |  |  |  |  |  |  |
| 2011 | 327,816.46 |  | 150,551 |  | 332,811 |  | 17,952 |  | 13.95 |  | 1,287 |  |
| 2012 | 57,929.34 |  | 25,084 |  | 55,451 |  | 6,533 |  | 13.96 |  | 468 |  |
|  | | | | | | | | | | | | |
|  | 751,025.35 |  | 446,284 |  | 779,112 |  | 24,485 |  |  | | 1,755 |  |

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| BOULDER PARK | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2042 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -1 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2002 | 691,794.86 |  | 341,342 |  | 379,855 |  | 318,858 |  | 20.29 |  | 15,715 |  |
| 2003 | 17,957.84 |  | 8,608 |  | 9,579 |  | 8,558 |  | 20.37 |  | 420 |  |
| 2009 | 58,646.66 |  | 22,248 |  | 24,758 |  | 34,475 |  | 20.73 |  | 1,663 |  |
| 2010 | 380,681.98 |  | 136,790 |  | 152,224 |  | 232,265 |  | 20.77 |  | 11,183 |  |
| 2011 | 11,933.67 |  | 4,038 |  | 4,494 |  | 7,559 |  | 20.80 |  | 363 |  |
| 2012 | 29,009.53 |  | 9,170 |  | 10,205 |  | 19,095 |  | 20.83 |  | 917 |  |
| 2016 | 61,872.17 |  | 13,014 |  | 14,482 |  | 48,009 |  | 20.91 |  | 2,296 |  |
| 2018 | 7,821.67 |  | 1,131 |  | 1,259 |  | 6,641 |  | 20.94 |  | 317 |  |
| 2019 | 14,173.57 |  | 1,526 |  | 1,698 |  | 12,617 |  | 20.95 |  | 602 |  |
|  | | | | | | | | | | | | |
|  | 1,273,891.95 |  | 537,867 |  | 598,553 |  | 688,078 |  |  | | 33,476 |  |

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| RATHDRUM TURBINE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2034 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2004 | 6,598.74 |  | 3,950 |  | 3,777 |  | 3,085 |  | 12.87 |  | 240 |  |
| 2005 | 3,130,198.50 |  | 1,825,209 |  | 1,745,497 |  | 1,509,910 |  | 12.89 |  | 117,138 |  |
| 2009 | 68,964.19 |  | 35,212 |  | 33,674 |  | 38,049 |  | 12.94 |  | 2,940 |  |
| 2010 | 7,245.69 |  | 3,543 |  | 3,388 |  | 4,147 |  | 12.95 |  | 320 |  |
| 2013 | 296,925.01 |  | 122,255 |  | 116,916 |  | 191,886 |  | 12.97 |  | 14,795 |  |
| 2017 | 7,706.06 |  | 2,062 |  | 1,972 |  | 6,042 |  | 12.99 |  | 465 |  |
| 2018 | 12,146.32 |  | 2,681 |  | 2,564 |  | 10,068 |  | 12.99 |  | 775 |  |
| 2019 | 30,944.36 |  | 5,194 |  | 4,967 |  | 27,215 |  | 12.99 |  | 2,095 |  |
| 2021 | 23,773.06 |  | 916 |  | 876 |  | 23,848 |  | 12.99 |  | 1,836 |  |
|  | | | | | | | | | | | | |
|  | 3,584,501.93 |  | 2,001,022 |  | 1,913,632 |  | 1,814,250 |  |  | | 140,604 |  |

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| COYOTE SPRINGS 2 | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R4 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2043 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2003 | 7,114,562.21 |  | 3,398,946 |  | 3,690,657 |  | 3,637,342 |  | 21.27 |  | 171,008 |  |
| 2004 | 111,019.89 |  | 51,350 |  | 55,757 |  | 58,593 |  | 21.36 |  | 2,743 |  |
| 2005 | 4,026,021.44 |  | 1,799,090 |  | 1,953,495 |  | 2,193,307 |  | 21.44 |  | 102,300 |  |
| 2006 | 4,508.19 |  | 1,940 |  | 2,106 |  | 2,537 |  | 21.51 |  | 118 |  |
| 2007 | 39,307.83 |  | 16,249 |  | 17,644 |  | 22,844 |  | 21.57 |  | 1,059 |  |
| 2008 | 1,448.35 |  | 572 |  | 621 |  | 871 |  | 21.63 |  | 40 |  |
| 2010 | 24,315.19 |  | 8,660 |  | 9,403 |  | 15,641 |  | 21.72 |  | 720 |  |
| 2011 | 9,078.57 |  | 3,040 |  | 3,301 |  | 6,050 |  | 21.76 |  | 278 |  |
| 2013 | 2,083.36 |  | 601 |  | 653 |  | 1,493 |  | 21.83 |  | 68 |  |
| 2014 | 1,299.79 |  | 342 |  | 371 |  | 967 |  | 21.85 |  | 44 |  |
| 2015 | 24,454.28 |  | 5,762 |  | 6,257 |  | 18,931 |  | 21.88 |  | 865 |  |
| 2016 | 362.12 |  | 75 |  | 81 |  | 292 |  | 21.89 |  | 13 |  |
| 2017 | 115,096.45 |  | 20,200 |  | 21,934 |  | 96,616 |  | 21.91 |  | 4,410 |  |
| 2018 | 46,085.10 |  | 6,517 |  | 7,076 |  | 40,391 |  | 21.93 |  | 1,842 |  |
| 2019 | 331.54 |  | 35 |  | 38 |  | 303 |  | 21.94 |  | 14 |  |
| 2020 | 237,740.25 |  | 15,664 |  | 17,008 |  | 227,864 |  | 21.95 |  | 10,381 |  |
| 2021 | 210.65 |  | 5 |  | 5 |  | 212 |  | 21.96 |  | 10 |  |
|  | | | | | | | | | | | | |
|  | 11,757,925.21 |  | 5,329,048 |  | 5,786,408 |  | 6,324,255 |  |  | | 295,913 |  |
|  | | | | | | | | | | | | |
|  | 17,376,373.24 |  | 8,315,780 |  | 9,080,994 |  | 8,856,898 |  |  | | 472,092 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 18.8 2.72 | | | | | | | | | | | |

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| KETTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2038 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -1 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2002 | 89,232.19 |  | 48,485 |  | 70,508 |  | 19,617 |  | 16.30 |  | 1,203 |  |
|  | | | | | | | | | | | | |
|  | 89,232.19 |  | 48,485 |  | 70,508 |  | 19,617 |  |  | | 1,203 |  |

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| NORTHEAST TURBINE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2035 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -7 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1979 | 5,604.48 |  | 4,587 |  | 5,997 |  |  |  |  |  |  |  |
| 1985 | 1,477.56 |  | 1,154 |  | 1,581 |  |  |  |  |  |  |  |
| 2001 | 20,225.21 |  | 12,903 |  | 21,641 |  |  |  |  |  |  |  |
| 2002 | 1,636.75 |  | 1,023 |  | 1,751 |  |  |  |  |  |  |  |
| 2019 | 7,952.84 |  | 1,291 |  | 5,542 |  | 2,967 |  | 13.92 |  | 213 |  |
|  | | | | | | | | | | | | |
|  | 36,896.84 |  | 20,958 |  | 36,512 |  | 2,967 |  |  | | 213 |  |

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| BOULDER PARK | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2042 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -1 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2002 | 10,329.70 |  | 5,095 |  | 2,416 |  | 8,017 |  | 19.80 |  | 405 |  |
| 2003 | 14.46 |  | 7 |  | 3 |  | 11 |  | 19.89 |  | 1 |  |
| 2016 | 52,314.47 |  | 11,013 |  | 5,223 |  | 47,615 |  | 20.66 |  | 2,305 |  |
| 2017 | 99,484.81 |  | 17,819 |  | 8,451 |  | 92,029 |  | 20.69 |  | 4,448 |  |
|  | | | | | | | | | | | | |
|  | 162,143.44 |  | 33,934 |  | 16,093 |  | 147,672 |  |  | | 7,159 |  |

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| RATHDRUM TURBINE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2034 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2005 | 1,682,329.00 |  | 980,348 |  | 996,925 |  | 752,697 |  | 12.72 |  | 59,174 |  |
| 2010 | 13,479.40 |  | 6,583 |  | 6,694 |  | 7,324 |  | 12.83 |  | 571 |  |
|  | | | | | | | | | | | | |
|  | 1,695,808.40 |  | 986,931 |  | 1,003,620 |  | 760,021 |  |  | | 59,745 |  |

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| LANCASTER | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2040 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2010 | 91,977.92 |  | 35,947 |  | 45,642 |  | 49,095 |  | 18.53 |  | 2,649 |  |
|  | | | | | | | | | | | | |
|  | 91,977.92 |  | 35,947 |  | 45,642 |  | 49,095 |  |  | | 2,649 |  |

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| COYOTE SPRINGS 2 | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 55-R3 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2043 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2003 | 12,266,683.72 |  | 5,860,219 |  | 6,773,245 |  | 5,861,439 |  | 20.75 |  | 282,479 |  |
| 2004 | 29,481.61 |  | 13,651 |  | 15,778 |  | 14,588 |  | 20.84 |  | 700 |  |
| 2005 | 6,547,090.97 |  | 2,929,917 |  | 3,386,400 |  | 3,357,104 |  | 20.93 |  | 160,397 |  |
| 2006 | 15,396.82 |  | 6,637 |  | 7,671 |  | 8,188 |  | 21.02 |  | 390 |  |
| 2011 | 11,213.07 |  | 3,767 |  | 4,354 |  | 7,196 |  | 21.36 |  | 337 |  |
| 2012 | 5,441.91 |  | 1,704 |  | 1,969 |  | 3,636 |  | 21.42 |  | 170 |  |
| 2013 | 5,068.37 |  | 1,467 |  | 1,696 |  | 3,525 |  | 21.47 |  | 164 |  |
| 2014 | 78,833.11 |  | 20,798 |  | 24,038 |  | 57,160 |  | 21.52 |  | 2,656 |  |
| 2015 | 16,336.06 |  | 3,865 |  | 4,467 |  | 12,359 |  | 21.56 |  | 573 |  |
| 2016 | 880.94 |  | 182 |  | 210 |  | 697 |  | 21.61 |  | 32 |  |
| 2017 | 3,832.23 |  | 673 |  | 778 |  | 3,169 |  | 21.65 |  | 146 |  |
| 2018 | 8,835.79 |  | 1,256 |  | 1,452 |  | 7,649 |  | 21.68 |  | 353 |  |
| 2019 | 806.55 |  | 85 |  | 98 |  | 733 |  | 21.71 |  | 34 |  |
| 2020 | 9,875.49 |  | 652 |  | 754 |  | 9,418 |  | 21.74 |  | 433 |  |
| 2021 | 512.46 |  | 12 |  | 14 |  | 514 |  | 21.77 |  | 24 |  |
|  | | | | | | | | | | | | |
|  | 19,000,289.10 |  | 8,844,885 |  | 10,222,924 |  | 9,347,373 |  |  | | 448,888 |  |
|  | | | | | | | | | | | | |
|  | 21,076,347.89 |  | 9,971,140 |  | 11,395,299 |  | 10,326,745 |  |  | | 519,857 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 19.9 2.47 | | | | | | | | | | | |

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| KETTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-S2 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2038 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -1 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2002 | 8,670,084.38 |  | 4,742,062 |  | 6,454,410 |  | 2,302,376 |  | 16.34 |  | 140,904 |  |
|  | | | | | | | | | | | | |
|  | 8,670,084.38 |  | 4,742,062 |  | 6,454,410 |  | 2,302,376 |  |  | | 140,904 |  |

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| NORTHEAST TURBINE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-S2 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2035 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -7 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1978 | 5,930,603.94 |  | 4,864,903 |  | 6,345,746 |  |  |  |  |  |  |  |
| 1979 | 1,910.23 |  | 1,558 |  | 2,044 |  |  |  |  |  |  |  |
| 1980 | 142,521.74 |  | 115,557 |  | 152,498 |  |  |  |  |  |  |  |
| 1981 | 2,730.30 |  | 2,200 |  | 2,921 |  |  |  |  |  |  |  |
| 1982 | 128,743.22 |  | 103,068 |  | 137,755 |  |  |  |  |  |  |  |
| 1983 | 173.98 |  | 138 |  | 186 |  |  |  |  |  |  |  |
| 1988 | 31,407.95 |  | 24,008 |  | 33,607 |  |  |  |  |  |  |  |
| 1991 | 16,837.69 |  | 12,500 |  | 18,016 |  |  |  |  |  |  |  |
| 2001 | 302,216.79 |  | 193,832 |  | 288,006 |  | 35,366 |  | 13.56 |  | 2,608 |  |
| 2002 | 2,501,128.38 |  | 1,570,934 |  | 2,334,177 |  | 342,030 |  | 13.60 |  | 25,149 |  |
|  | | | | | | | | | | | | |
|  | 9,058,274.22 |  | 6,888,698 |  | 9,314,957 |  | 377,397 |  |  | | 27,757 |  |

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| BOULDER PARK | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-S2 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2042 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -1 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2003 | 8,726.50 |  | 4,220 |  | 4,888 |  | 3,926 |  | 19.94 |  | 197 |  |
| 2004 | 28,341.82 |  | 13,287 |  | 15,389 |  | 13,236 |  | 20.04 |  | 660 |  |
| 2005 | 20,147.96 |  | 9,130 |  | 10,574 |  | 9,775 |  | 20.14 |  | 485 |  |
|  | | | | | | | | | | | | |
|  | 57,216.28 |  | 26,637 |  | 30,851 |  | 26,937 |  |  | | 1,342 |  |

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| RATHDRUM TURBINE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 60-S2 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2034 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1997 | 19,116.48 |  | 13,100 |  | 17,068 |  | 2,813 |  | 12.46 |  | 226 |  |
| 1998 | 1,436.86 |  | 970 |  | 1,264 |  | 230 |  | 12.50 |  | 18 |  |
| 1999 | 25,265.89 |  | 16,787 |  | 21,872 |  | 4,404 |  | 12.55 |  | 351 |  |
| 2000 | 45,230.18 |  | 29,544 |  | 38,494 |  | 8,546 |  | 12.59 |  | 679 |  |
| 2002 | 3,554,069.90 |  | 2,233,227 |  | 2,909,736 |  | 786,497 |  | 12.67 |  | 62,076 |  |
| 2003 | 13,208.72 |  | 8,119 |  | 10,578 |  | 3,159 |  | 12.71 |  | 249 |  |
|  | | | | | | | | | | | | |
|  | 3,658,328.03 |  | 2,301,747 |  | 2,999,013 |  | 805,648 |  |  | | 63,599 |  |
|  | | | | | | | | | | | | |
|  | 21,443,902.91 |  | 13,959,144 |  | 18,799,230 |  | 3,512,358 |  |  | | 233,602 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 15.0 1.09 | | | | | | | | | | | |

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| KETTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2038 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -1 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2018 | 225,595.60 |  | 37,580 |  | 57,801 |  | 170,050 |  | 16.05 |  | 10,595 |  |
| 2019 | 8,665.33 |  | 1,083 |  | 1,666 |  | 7,086 |  | 16.08 |  | 441 |  |
|  | | | | | | | | | | | | |
|  | 234,260.93 |  | 38,663 |  | 59,467 |  | 177,136 |  |  | | 11,036 |  |

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| NORTHEAST TURBINE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2035 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -7 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1978 | 2,438,374.48 |  | 1,910,824 |  | 2,576,298 |  | 32,763 |  | 11.73 |  | 2,793 |  |
| 1979 | 18,464.60 |  | 14,382 |  | 19,391 |  | 366 |  | 11.81 |  | 31 |  |
| 1980 | 42,300.28 |  | 32,748 |  | 44,153 |  | 1,108 |  | 11.88 |  | 93 |  |
| 1981 | 22,277.70 |  | 17,138 |  | 23,107 |  | 731 |  | 11.95 |  | 61 |  |
| 1982 | 1,328.54 |  | 1,015 |  | 1,368 |  | 53 |  | 12.03 |  | 4 |  |
| 2007 | 15,889.20 |  | 8,356 |  | 11,266 |  | 5,735 |  | 13.15 |  | 436 |  |
| 2019 | 6,594.28 |  | 1,034 |  | 1,394 |  | 5,662 |  | 13.39 |  | 423 |  |
| 2021 | 311,438.34 |  | 11,277 |  | 15,204 |  | 318,035 |  | 13.42 |  | 23,699 |  |
|  | | | | | | | | | | | | |
|  | 2,856,667.42 |  | 1,996,774 |  | 2,692,182 |  | 364,453 |  |  | | 27,540 |  |

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| BOULDER PARK | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2042 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -1 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2002 | 29,065,094.71 |  | 13,541,512 |  | 17,786,955 |  | 11,568,791 |  | 18.65 |  | 620,311 |  |
| 2003 | 7,607.58 |  | 3,448 |  | 4,529 |  | 3,155 |  | 18.72 |  | 169 |  |
| 2004 | 342,193.26 |  | 150,481 |  | 197,659 |  | 147,956 |  | 18.79 |  | 7,874 |  |
| 2005 | 22,312.80 |  | 9,494 |  | 12,470 |  | 10,065 |  | 18.86 |  | 534 |  |
| 2010 | 517,511.28 |  | 177,238 |  | 232,804 |  | 289,882 |  | 19.14 |  | 15,145 |  |
| 2014 | 29,593.57 |  | 7,536 |  | 9,899 |  | 19,991 |  | 19.34 |  | 1,034 |  |
| 2016 | 482,211.43 |  | 97,007 |  | 127,420 |  | 359,614 |  | 19.42 |  | 18,518 |  |
| 2017 | 241,553.96 |  | 41,321 |  | 54,276 |  | 189,694 |  | 19.47 |  | 9,743 |  |
| 2018 | 87,855.84 |  | 12,166 |  | 15,980 |  | 72,754 |  | 19.51 |  | 3,729 |  |
| 2019 | 170,333.77 |  | 17,544 |  | 23,044 |  | 148,993 |  | 19.55 |  | 7,621 |  |
| 2020 | 156,960.23 |  | 10,149 |  | 13,331 |  | 145,199 |  | 19.59 |  | 7,412 |  |
| 2021 | 247,230.63 |  | 5,596 |  | 7,350 |  | 242,353 |  | 19.63 |  | 12,346 |  |
|  | | | | | | | | | | | | |
|  | 31,370,459.06 |  | 14,073,492 |  | 18,485,718 |  | 13,198,446 |  |  | | 704,436 |  |

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| RATHDRUM TURBINE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2034 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2000 | 585,435.40 |  | 366,834 |  | 382,341 |  | 226,512 |  | 12.10 |  | 18,720 |  |
| 2001 | 1,061.47 |  | 653 |  | 681 |  | 423 |  | 12.13 |  | 35 |  |
| 2005 | 47,935,155.94 |  | 26,974,723 |  | 28,114,985 |  | 21,737,578 |  | 12.23 |  | 1,777,398 |  |
| 2006 | 6,237.45 |  | 3,414 |  | 3,558 |  | 2,929 |  | 12.25 |  | 239 |  |
| 2007 | 54,222.91 |  | 28,781 |  | 29,998 |  | 26,394 |  | 12.27 |  | 2,151 |  |
| 2008 | 223,370.38 |  | 114,573 |  | 119,416 |  | 112,889 |  | 12.29 |  | 9,185 |  |
| 2013 | 115,105.84 |  | 45,905 |  | 47,845 |  | 71,865 |  | 12.38 |  | 5,805 |  |
| 2016 | 651,532.12 |  | 195,479 |  | 203,742 |  | 473,851 |  | 12.43 |  | 38,122 |  |
| 2017 | 12,982.34 |  | 3,369 |  | 3,511 |  | 9,990 |  | 12.45 |  | 802 |  |
| 2018 | 129,825.79 |  | 27,795 |  | 28,970 |  | 106,049 |  | 12.46 |  | 8,511 |  |
| 2020 | 784,951.45 |  | 82,280 |  | 85,758 |  | 730,591 |  | 12.49 |  | 58,494 |  |
| 2021 | 702,591.34 |  | 25,918 |  | 27,014 |  | 703,681 |  | 12.51 |  | 56,249 |  |
|  | | | | | | | | | | | | |
|  | 51,202,472.43 |  | 27,869,724 |  | 29,047,819 |  | 24,202,753 |  |  | | 1,975,711 |  |

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| LANCASTER | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2040 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2010 | 208,505.82 |  | 77,746 |  | 98,908 |  | 115,853 |  | 17.50 |  | 6,620 |  |
|  | | | | | | | | | | | | |
|  | 208,505.82 |  | 77,746 |  | 98,908 |  | 115,853 |  |  | | 6,620 |  |

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| COYOTE SPRINGS 2 | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 50-R1 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2043 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2003 | 67,129,398.34 |  | 30,237,739 |  | 31,107,428 |  | 38,035,852 |  | 19.48 |  | 1,952,559 |  |
| 2004 | 177,400.49 |  | 77,533 |  | 79,763 |  | 102,960 |  | 19.55 |  | 5,266 |  |
| 2005 | 36,062,623.24 |  | 15,235,189 |  | 15,673,379 |  | 21,471,123 |  | 19.63 |  | 1,093,791 |  |
| 2006 | 220,957.85 |  | 90,015 |  | 92,604 |  | 134,983 |  | 19.70 |  | 6,852 |  |
| 2007 | 6,019.39 |  | 2,357 |  | 2,425 |  | 3,775 |  | 19.76 |  | 191 |  |
| 2008 | 796,520.96 |  | 298,476 |  | 307,061 |  | 513,356 |  | 19.83 |  | 25,888 |  |
| 2009 | 805,927.38 |  | 287,698 |  | 295,973 |  | 534,133 |  | 19.89 |  | 26,854 |  |
| 2010 | 64,534.72 |  | 21,836 |  | 22,464 |  | 44,007 |  | 19.95 |  | 2,206 |  |
| 2011 | 13,298.40 |  | 4,238 |  | 4,360 |  | 9,337 |  | 20.00 |  | 467 |  |
| 2012 | 4,070,486.81 |  | 1,210,194 |  | 1,245,001 |  | 2,947,600 |  | 20.06 |  | 146,939 |  |
| 2013 | 465,962.36 |  | 128,077 |  | 131,761 |  | 348,181 |  | 20.11 |  | 17,314 |  |
| 2014 | 197,991.82 |  | 49,663 |  | 51,091 |  | 152,840 |  | 20.16 |  | 7,581 |  |
| 2015 | 469,395.56 |  | 105,630 |  | 108,668 |  | 374,809 |  | 20.21 |  | 18,546 |  |
| 2016 | 23,492,380.45 |  | 4,634,722 |  | 4,768,025 |  | 19,429,127 |  | 20.26 |  | 958,989 |  |
| 2017 | 652,531.38 |  | 109,197 |  | 112,338 |  | 559,770 |  | 20.31 |  | 27,561 |  |
| 2018 | 717,693.68 |  | 97,452 |  | 100,255 |  | 638,970 |  | 20.35 |  | 31,399 |  |
| 2019 | 1,795,250.52 |  | 180,732 |  | 185,930 |  | 1,663,178 |  | 20.40 |  | 81,528 |  |
| 2020 | 687,321.73 |  | 43,248 |  | 44,492 |  | 663,449 |  | 20.44 |  | 32,458 |  |
| 2021 | 16,090,159.28 |  | 356,317 |  | 366,565 |  | 16,206,299 |  | 20.48 |  | 791,323 |  |
|  | | | | | | | | | | | | |
|  | 153,915,854.36 |  | 53,170,313 |  | 54,699,583 |  | 103,833,747 |  |  | | 5,227,712 |  |
|  | | | | | | | | | | | | |
|  | 239,788,220.02 |  | 97,226,712 |  | 105,083,676 |  | 141,892,388 |  |  | | 7,953,055 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 17.8 3.32 | | | | | | | | | | | |

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| CENTRAL OPERATIONS FACILITY | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 25-S2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2029 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2009 | 63,328.00 |  | 40,872 |  | 38,468 |  | 26,760 |  | 7.24 |  | 3,696 |  |
| 2012 | 86,341.82 |  | 49,174 |  | 46,282 |  | 42,651 |  | 7.60 |  | 5,612 |  |
| 2015 | 299,502.41 |  | 139,692 |  | 131,475 |  | 177,012 |  | 7.83 |  | 22,607 |  |
|  | | | | | | | | | | | | |
|  | 449,172.23 |  | 229,738 |  | 216,225 |  | 246,423 |  |  | | 31,915 |  |

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| BOULDER PARK | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 25-S2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2042 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -1 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2016 | 22,481.62 |  | 5,441 |  | 1,845 |  | 20,861 |  | 17.39 |  | 1,200 |  |
|  | | | | | | | | | | | | |
|  | 22,481.62 |  | 5,441 |  | 1,845 |  | 20,861 |  |  | | 1,200 |  |
|  | | | | | | | | | | | | |
|  | 471,653.85 |  | 235,179 |  | 218,070 |  | 267,284 |  |  | | 33,115 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 8.1 7.02 | | | | | | | | | | | |

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| KETTLE FALLS | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 30-S0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2038 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -1 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2012 | 6,036.30 |  | 2,275 |  | 1,446 |  | 4,651 |  | 14.23 |  | 327 |  |
| 2016 | 7,345.81 |  | 1,899 |  | 1,207 |  | 6,213 |  | 14.97 |  | 415 |  |
| 2021 | 525,140.53 |  | 15,896 |  | 10,101 |  | 520,291 |  | 15.86 |  | 32,805 |  |
|  | | | | | | | | | | | | |
|  | 538,522.64 |  | 20,070 |  | 12,753 |  | 531,155 |  |  | | 33,547 |  |

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| NORTHEAST TURBINE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 30-S0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2035 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -7 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2007 | 91,646.91 |  | 50,616 |  | 98,062 |  |  |  |  |  |  |  |
| 2009 | 22,566.50 |  | 11,584 |  | 24,146 |  |  |  |  |  |  |  |
| 2010 | 1,052,736.92 |  | 517,064 |  | 1,123,628 |  | 2,801 |  | 11.95 |  | 234 |  |
| 2012 | 67,910.52 |  | 30,009 |  | 65,212 |  | 7,452 |  | 12.21 |  | 610 |  |
| 2015 | 5,254.60 |  | 1,830 |  | 3,977 |  | 1,646 |  | 12.60 |  | 131 |  |
| 2019 | 2,945.08 |  | 493 |  | 1,071 |  | 2,080 |  | 13.10 |  | 159 |  |
|  | | | | | | | | | | | | |
|  | 1,243,060.53 |  | 611,596 |  | 1,316,097 |  | 13,978 |  |  | | 1,134 |  |

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| BOULDER PARK | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 30-S0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2042 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -1 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2003 | 2,043.27 |  | 1,038 |  | 1,056 |  | 1,007 |  | 14.01 |  | 72 |  |
| 2007 | 30,585.71 |  | 13,544 |  | 13,782 |  | 17,109 |  | 15.14 |  | 1,130 |  |
| 2009 | 79,044.80 |  | 31,995 |  | 32,558 |  | 47,277 |  | 15.70 |  | 3,011 |  |
| 2010 | 32,221.62 |  | 12,371 |  | 12,589 |  | 19,955 |  | 15.98 |  | 1,249 |  |
| 2012 | 102,172.20 |  | 34,619 |  | 35,228 |  | 67,966 |  | 16.52 |  | 4,114 |  |
| 2013 | 380,689.44 |  | 119,486 |  | 121,589 |  | 262,907 |  | 16.79 |  | 15,659 |  |
| 2014 | 3,086.02 |  | 886 |  | 902 |  | 2,215 |  | 17.06 |  | 130 |  |
| 2019 | 15,488.88 |  | 1,813 |  | 1,845 |  | 13,799 |  | 18.39 |  | 750 |  |
| 2020 | 5,786.10 |  | 424 |  | 431 |  | 5,412 |  | 18.66 |  | 290 |  |
| 2021 | 273,685.32 |  | 6,977 |  | 7,100 |  | 269,322 |  | 18.92 |  | 14,235 |  |
|  | | | | | | | | | | | | |
|  | 924,803.36 |  | 223,153 |  | 227,080 |  | 706,971 |  |  | | 40,640 |  |

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| RATHDRUM TURBINE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 30-S0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2034 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2005 | 662,579.83 |  | 387,823 |  | 309,217 |  | 379,866 |  | 10.65 |  | 35,668 |  |
| 2008 | 1,050,367.00 |  | 562,074 |  | 448,150 |  | 644,231 |  | 11.02 |  | 58,460 |  |
| 2010 | 40,149.20 |  | 19,866 |  | 15,839 |  | 25,916 |  | 11.25 |  | 2,304 |  |
| 2013 | 674,160.73 |  | 282,113 |  | 224,933 |  | 476,194 |  | 11.60 |  | 41,051 |  |
| 2015 | 159,097.79 |  | 56,292 |  | 44,882 |  | 120,579 |  | 11.83 |  | 10,193 |  |
| 2016 | 87,452.35 |  | 27,630 |  | 22,030 |  | 68,921 |  | 11.94 |  | 5,772 |  |
| 2017 | 442,119.63 |  | 121,209 |  | 96,642 |  | 363,163 |  | 12.04 |  | 30,163 |  |
| 2018 | 15,473.55 |  | 3,502 |  | 2,792 |  | 13,300 |  | 12.15 |  | 1,095 |  |
| 2019 | 323,167.14 |  | 55,788 |  | 44,481 |  | 291,613 |  | 12.26 |  | 23,786 |  |
| 2021 | 1,353,502.43 |  | 53,223 |  | 42,436 |  | 1,365,207 |  | 12.47 |  | 109,479 |  |
|  | | | | | | | | | | | | |
|  | 4,808,069.65 |  | 1,569,520 |  | 1,251,402 |  | 3,748,990 |  |  | | 317,971 |  |

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| LANCASTER | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 30-S0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2040 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2014 | 49,439.02 |  | 15,277 |  | 15,300 |  | 35,622 |  | 15.89 |  | 2,242 |  |
| 2021 | 258,641.36 |  | 7,430 |  | 7,441 |  | 258,959 |  | 17.43 |  | 14,857 |  |
|  | | | | | | | | | | | | |
|  | 308,080.38 |  | 22,707 |  | 22,741 |  | 294,581 |  |  | | 17,099 |  |

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| COYOTE SPRINGS 2 | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 30-S0.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2043 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2003 | 7,173,050.29 |  | 3,666,858 |  | 5,538,476 |  | 1,849,766 |  | 14.32 |  | 129,174 |  |
| 2004 | 19,282.23 |  | 9,550 |  | 14,424 |  | 5,436 |  | 14.63 |  | 372 |  |
| 2005 | 4,032,864.82 |  | 1,930,336 |  | 2,915,608 |  | 1,238,243 |  | 14.94 |  | 82,881 |  |
| 2006 | 80,632.85 |  | 37,226 |  | 56,227 |  | 26,825 |  | 15.24 |  | 1,760 |  |
| 2008 | 99,548.64 |  | 42,292 |  | 63,878 |  | 38,657 |  | 15.84 |  | 2,440 |  |
| 2009 | 98,927.65 |  | 40,045 |  | 60,485 |  | 41,411 |  | 16.14 |  | 2,566 |  |
| 2010 | 1,668.26 |  | 641 |  | 968 |  | 750 |  | 16.43 |  | 46 |  |
| 2011 | 417,459.60 |  | 150,946 |  | 227,991 |  | 201,992 |  | 16.73 |  | 12,074 |  |
| 2012 | 156,239.26 |  | 52,795 |  | 79,742 |  | 81,184 |  | 17.02 |  | 4,770 |  |
| 2013 | 4,702,774.93 |  | 1,469,142 |  | 2,219,014 |  | 2,624,845 |  | 17.32 |  | 151,550 |  |
| 2014 | 132,016.93 |  | 37,678 |  | 56,909 |  | 79,068 |  | 17.61 |  | 4,490 |  |
| 2015 | 137.16 |  | 35 |  | 53 |  | 88 |  | 17.90 |  | 5 |  |
| 2016 | 13,162.39 |  | 2,964 |  | 4,477 |  | 9,080 |  | 18.19 |  | 499 |  |
| 2017 | 17,986.40 |  | 3,444 |  | 5,202 |  | 13,324 |  | 18.48 |  | 721 |  |
| 2018 | 938.80 |  | 145 |  | 219 |  | 748 |  | 18.77 |  | 40 |  |
| 2019 | 157,553.96 |  | 18,224 |  | 27,526 |  | 134,755 |  | 19.05 |  | 7,074 |  |
| 2020 | 1,049.30 |  | 76 |  | 115 |  | 966 |  | 19.34 |  | 50 |  |
| 2021 | 781,078.54 |  | 19,992 |  | 30,196 |  | 774,315 |  | 19.62 |  | 39,466 |  |
|  | | | | | | | | | | | | |
|  | 17,886,372.01 |  | 7,482,389 |  | 11,301,510 |  | 7,121,453 |  |  | | 439,978 |  |
|  | | | | | | | | | | | | |
|  | 25,708,908.57 |  | 9,929,435 |  | 14,131,584 |  | 12,417,128 |  |  | | 850,369 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 14.6 3.31 | | | | | | | | | | | |

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| CENTRAL OPERATIONS FACILITY | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 25-S2.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2029 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2012 | 33,209.41 |  | 18,914 |  | 11,701 |  | 22,505 |  | 7.60 |  | 2,961 |  |
|  | | | | | | | | | | | | |
|  | 33,209.41 |  | 18,914 |  | 11,701 |  | 22,505 |  |  | | 2,961 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.6 8.92 | | | | | | | | | | | |

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| NORTHEAST TURBINE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 35-R2 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2035 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -7 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1978 | 97,004.94 |  | 85,714 |  | 103,795 |  |  |  |  |  |  |  |
| 1979 | 23,774.76 |  | 20,794 |  | 25,439 |  |  |  |  |  |  |  |
| 1980 | 5,916.90 |  | 5,121 |  | 6,331 |  |  |  |  |  |  |  |
| 1982 | 31,356.79 |  | 26,564 |  | 33,552 |  |  |  |  |  |  |  |
| 1993 | 14,533.18 |  | 10,710 |  | 15,551 |  |  |  |  |  |  |  |
| 2005 | 6,732.14 |  | 3,903 |  | 7,203 |  |  |  |  |  |  |  |
| 2007 | 75,264.12 |  | 40,925 |  | 80,533 |  |  |  |  |  |  |  |
| 2011 | 1,896.00 |  | 867 |  | 2,006 |  | 22 |  | 12.99 |  | 2 |  |
| 2012 | 142,518.61 |  | 61,402 |  | 142,084 |  | 10,411 |  | 13.07 |  | 797 |  |
|  | | | | | | | | | | | | |
|  | 398,997.44 |  | 256,000 |  | 416,493 |  | 10,434 |  |  | | 799 |  |

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| BOULDER PARK | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 35-R2 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2042 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -1 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2005 | 3,112.59 |  | 1,442 |  | 1,436 |  | 1,708 |  | 16.80 |  | 102 |  |
| 2013 | 13,584.50 |  | 4,020 |  | 4,003 |  | 9,717 |  | 18.65 |  | 521 |  |
| 2020 | 47,955.33 |  | 3,243 |  | 3,229 |  | 45,206 |  | 19.65 |  | 2,301 |  |
|  | | | | | | | | | | | | |
|  | 64,652.42 |  | 8,705 |  | 8,668 |  | 56,631 |  |  | | 2,924 |  |

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| RATHDRUM TURBINE | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 35-R2 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2034 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -4 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2015 | 249,472.21 |  | 85,969 |  | 75,249 |  | 184,202 |  | 12.39 |  | 14,867 |  |
|  | | | | | | | | | | | | |
|  | 249,472.21 |  | 85,969 |  | 75,249 |  | 184,202 |  |  | | 14,867 |  |

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| COYOTE SPRINGS 2 | | | | | | | | | | | | |
| INTERIM SURVIVOR CURVE.. IOWA 35-R2 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2043 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -3 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2003 | 262,803.38 |  | 131,235 |  | 77,409 |  | 193,278 |  | 16.63 |  | 11,622 |  |
| 2004 | 1,527.68 |  | 736 |  | 434 |  | 1,139 |  | 16.97 |  | 67 |  |
| 2005 | 310,522.26 |  | 144,068 |  | 84,979 |  | 234,859 |  | 17.30 |  | 13,576 |  |
| 2006 | 30,924.38 |  | 13,775 |  | 8,125 |  | 23,727 |  | 17.61 |  | 1,347 |  |
| 2007 | 10,692.58 |  | 4,560 |  | 2,690 |  | 8,324 |  | 17.90 |  | 465 |  |
| 2008 | 23,236.73 |  | 9,449 |  | 5,574 |  | 18,360 |  | 18.18 |  | 1,010 |  |
| 2009 | 45,317.08 |  | 17,500 |  | 10,322 |  | 36,354 |  | 18.44 |  | 1,971 |  |
| 2010 | 188,003.89 |  | 68,542 |  | 40,430 |  | 153,214 |  | 18.69 |  | 8,198 |  |
| 2011 | 44,932.27 |  | 15,372 |  | 9,067 |  | 37,213 |  | 18.92 |  | 1,967 |  |
| 2013 | 2,546.01 |  | 747 |  | 441 |  | 2,182 |  | 19.35 |  | 113 |  |
| 2014 | 1,588.47 |  | 424 |  | 250 |  | 1,386 |  | 19.54 |  | 71 |  |
| 2015 | 648.41 |  | 155 |  | 91 |  | 576 |  | 19.72 |  | 29 |  |
| 2016 | 442.52 |  | 93 |  | 55 |  | 401 |  | 19.89 |  | 20 |  |
| 2017 | 1,925.06 |  | 341 |  | 201 |  | 1,782 |  | 20.05 |  | 89 |  |
| 2018 | 4,438.51 |  | 635 |  | 375 |  | 4,197 |  | 20.20 |  | 208 |  |
| 2019 | 405.16 |  | 43 |  | 25 |  | 392 |  | 20.34 |  | 19 |  |
| 2020 | 4,960.79 |  | 329 |  | 194 |  | 4,916 |  | 20.47 |  | 240 |  |
| 2021 | 257.44 |  | 6 |  | 4 |  | 262 |  | 20.59 |  | 13 |  |
|  | | | | | | | | | | | | |
|  | 935,172.62 |  | 408,010 |  | 240,666 |  | 722,562 |  |  | | 41,025 |  |
|  | | | | | | | | | | | | |
|  | 1,648,294.69 |  | 758,684 |  | 741,077 |  | 973,829 |  |  | | 59,615 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 16.3 3.62 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 80-R4 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1906 | 2.15 |  | 2 |  | 2 |  |  |  |  |  |  |  |
| 1907 | 14.85 |  | 15 |  | 15 |  |  |  |  |  |  |  |
| 1910 | 2,774.02 |  | 2,698 |  | 2,774 |  |  |  |  |  |  |  |
| 1911 | 2,558.29 |  | 2,480 |  | 2,558 |  |  |  |  |  |  |  |
| 1914 | 130.23 |  | 125 |  | 130 |  |  |  |  |  |  |  |
| 1915 | 16.03 |  | 15 |  | 16 |  |  |  |  |  |  |  |
| 1918 | 92.21 |  | 87 |  | 92 |  |  |  |  |  |  |  |
| 1919 | 5,640.19 |  | 5,330 |  | 5,640 |  |  |  |  |  |  |  |
| 1920 | 1,045.97 |  | 985 |  | 1,046 |  |  |  |  |  |  |  |
| 1923 | 6,098.20 |  | 5,683 |  | 6,098 |  |  |  |  |  |  |  |
| 1924 | 949.84 |  | 882 |  | 950 |  |  |  |  |  |  |  |
| 1925 | 14,022.91 |  | 12,973 |  | 14,023 |  |  |  |  |  |  |  |
| 1926 | 5,304.58 |  | 4,889 |  | 5,305 |  |  |  |  |  |  |  |
| 1927 | 2,690.90 |  | 2,471 |  | 2,691 |  |  |  |  |  |  |  |
| 1928 | 2,116.82 |  | 1,936 |  | 2,117 |  |  |  |  |  |  |  |
| 1929 | 4,951.17 |  | 4,510 |  | 4,951 |  |  |  |  |  |  |  |
| 1930 | 5,815.68 |  | 5,276 |  | 5,816 |  |  |  |  |  |  |  |
| 1931 | 337.68 |  | 305 |  | 338 |  |  |  |  |  |  |  |
| 1932 | 63.40 |  | 57 |  | 63 |  |  |  |  |  |  |  |
| 1933 | 50.64 |  | 45 |  | 50 |  | 1 |  | 8.38 |  |  |  |
| 1934 | 76.47 |  | 68 |  | 76 |  |  |  |  |  |  |  |
| 1935 | 681.45 |  | 604 |  | 674 |  | 7 |  | 9.06 |  | 1 |  |
| 1936 | 6,444.57 |  | 5,685 |  | 6,341 |  | 104 |  | 9.43 |  | 11 |  |
| 1937 | 5,028.83 |  | 4,413 |  | 4,923 |  | 106 |  | 9.80 |  | 11 |  |
| 1938 | 380.89 |  | 332 |  | 370 |  | 11 |  | 10.20 |  | 1 |  |
| 1939 | 45.29 |  | 39 |  | 44 |  | 1 |  | 10.60 |  |  |  |
| 1940 | 1,909.37 |  | 1,646 |  | 1,836 |  | 73 |  | 11.03 |  | 7 |  |
| 1941 | 456.48 |  | 391 |  | 436 |  | 20 |  | 11.48 |  | 2 |  |
| 1943 | 462.27 |  | 390 |  | 435 |  | 27 |  | 12.43 |  | 2 |  |
| 1947 | 3,937.71 |  | 3,220 |  | 3,592 |  | 346 |  | 14.58 |  | 24 |  |
| 1948 | 771.63 |  | 625 |  | 697 |  | 75 |  | 15.16 |  | 5 |  |
| 1949 | 264.32 |  | 212 |  | 236 |  | 28 |  | 15.77 |  | 2 |  |
| 1952 | 18,784.64 |  | 14,635 |  | 16,325 |  | 2,460 |  | 17.67 |  | 139 |  |
| 1953 | 2,299.62 |  | 1,773 |  | 1,978 |  | 322 |  | 18.33 |  | 18 |  |
| 1954 | 43,549.20 |  | 33,201 |  | 37,035 |  | 6,514 |  | 19.01 |  | 343 |  |
| 1955 | 35,733.83 |  | 26,943 |  | 30,054 |  | 5,680 |  | 19.68 |  | 289 |  |
| 1957 | 11,374.93 |  | 8,379 |  | 9,347 |  | 2,028 |  | 21.07 |  | 96 |  |
| 1958 | 32,406.08 |  | 23,584 |  | 26,307 |  | 6,099 |  | 21.78 |  | 280 |  |
| 1959 | 13,016.34 |  | 9,357 |  | 10,437 |  | 2,579 |  | 22.49 |  | 115 |  |
| 1962 | 51,003.97 |  | 35,263 |  | 39,335 |  | 11,669 |  | 24.69 |  | 473 |  |
| 1964 | 206.00 |  | 139 |  | 155 |  | 51 |  | 26.20 |  | 2 |  |
| 1965 | 7,360.15 |  | 4,879 |  | 5,442 |  | 1,918 |  | 26.97 |  | 71 |  |
| 1966 | 16,737.08 |  | 10,931 |  | 12,193 |  | 4,544 |  | 27.75 |  | 164 |  |
| 1967 | 735.05 |  | 473 |  | 528 |  | 207 |  | 28.54 |  | 7 |  |
| 1968 | 11,134.89 |  | 7,051 |  | 7,865 |  | 3,270 |  | 29.34 |  | 111 |  |
| 1969 | 7,993.56 |  | 4,981 |  | 5,556 |  | 2,438 |  | 30.15 |  | 81 |  |
| 1970 | 4,576.23 |  | 2,805 |  | 3,129 |  | 1,447 |  | 30.97 |  | 47 |  |
| 1971 | 16,862.51 |  | 10,162 |  | 11,335 |  | 5,528 |  | 31.79 |  | 174 |  |
| 1972 | 17,061.87 |  | 10,103 |  | 11,270 |  | 5,792 |  | 32.63 |  | 178 |  |
| 1973 | 1,984.29 |  | 1,154 |  | 1,287 |  | 697 |  | 33.47 |  | 21 |  |
| 1974 | 33,925.51 |  | 19,371 |  | 21,608 |  | 12,318 |  | 34.32 |  | 359 |  |
| 1975 | 36,626.03 |  | 20,520 |  | 22,889 |  | 13,737 |  | 35.18 |  | 390 |  |
| 1976 | 21,602.55 |  | 11,868 |  | 13,238 |  | 8,365 |  | 36.05 |  | 232 |  |
| 1977 | 35,888.73 |  | 19,322 |  | 21,553 |  | 14,336 |  | 36.93 |  | 388 |  |
| 1978 | 17,888.33 |  | 9,434 |  | 10,523 |  | 7,365 |  | 37.81 |  | 195 |  |
| 1979 | 13,472.13 |  | 6,955 |  | 7,758 |  | 5,714 |  | 38.70 |  | 148 |  |
| 1980 | 20,880.21 |  | 10,545 |  | 11,763 |  | 9,117 |  | 39.60 |  | 230 |  |
| 1981 | 10,236.36 |  | 5,053 |  | 5,636 |  | 4,600 |  | 40.51 |  | 114 |  |
| 1982 | 21,905.35 |  | 10,564 |  | 11,784 |  | 10,121 |  | 41.42 |  | 244 |  |
| 1983 | 21,335.75 |  | 10,044 |  | 11,204 |  | 10,132 |  | 42.34 |  | 239 |  |
| 1984 | 60,288.79 |  | 27,688 |  | 30,885 |  | 29,404 |  | 43.26 |  | 680 |  |
| 1985 | 17,613.14 |  | 7,884 |  | 8,794 |  | 8,819 |  | 44.19 |  | 200 |  |
| 1987 | 51,235.99 |  | 21,737 |  | 24,247 |  | 26,989 |  | 46.06 |  | 586 |  |
| 1988 | 281,177.01 |  | 115,952 |  | 129,342 |  | 151,835 |  | 47.01 |  | 3,230 |  |
| 1989 | 4,362.46 |  | 1,747 |  | 1,949 |  | 2,413 |  | 47.96 |  | 50 |  |
| 1990 | 54,586.30 |  | 21,213 |  | 23,663 |  | 30,923 |  | 48.91 |  | 632 |  |
| 1991 | 9,961.16 |  | 3,752 |  | 4,185 |  | 5,776 |  | 49.87 |  | 116 |  |
| 1992 | 10,164.56 |  | 3,706 |  | 4,134 |  | 6,031 |  | 50.83 |  | 119 |  |
| 1993 | 4,314.27 |  | 1,521 |  | 1,697 |  | 2,617 |  | 51.79 |  | 51 |  |
| 1994 | 128,882.33 |  | 43,884 |  | 48,952 |  | 79,930 |  | 52.76 |  | 1,515 |  |
| 1995 | 121,628.95 |  | 39,941 |  | 44,553 |  | 77,076 |  | 53.73 |  | 1,435 |  |
| 1997 | 56,093.20 |  | 17,052 |  | 19,021 |  | 37,072 |  | 55.68 |  | 666 |  |
| 1998 | 9,230.56 |  | 2,693 |  | 3,004 |  | 6,227 |  | 56.66 |  | 110 |  |
| 1999 | 44,462.04 |  | 12,427 |  | 13,862 |  | 30,600 |  | 57.64 |  | 531 |  |
| 2000 | 5,837.75 |  | 1,560 |  | 1,740 |  | 4,098 |  | 58.62 |  | 70 |  |
| 2001 | 679.40 |  | 173 |  | 193 |  | 486 |  | 59.61 |  | 8 |  |
| 2002 | 1,240.52 |  | 301 |  | 336 |  | 905 |  | 60.59 |  | 15 |  |
| 2003 | 22,529.43 |  | 5,187 |  | 5,786 |  | 16,743 |  | 61.58 |  | 272 |  |
| 2007 | 1,561.82 |  | 282 |  | 314 |  | 1,248 |  | 65.54 |  | 19 |  |
|  | | | | | | | | | | | | |
|  | 1,487,565.91 |  | 726,578 |  | 808,526 |  | 679,040 |  |  | | 15,519 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 43.8 1.04 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 80-R4 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1906 | 11.99 |  | 12 |  | 12 |  |  |  |  |  |  |  |
| 1907 | 85.15 |  | 83 |  | 85 |  |  |  |  |  |  |  |
| 1910 | 15,906.75 |  | 15,469 |  | 15,907 |  |  |  |  |  |  |  |
| 1911 | 14,669.70 |  | 14,222 |  | 14,670 |  |  |  |  |  |  |  |
| 1914 | 746.77 |  | 717 |  | 747 |  |  |  |  |  |  |  |
| 1915 | 91.96 |  | 88 |  | 92 |  |  |  |  |  |  |  |
| 1918 | 528.79 |  | 501 |  | 529 |  |  |  |  |  |  |  |
| 1919 | 32,341.81 |  | 30,563 |  | 32,342 |  |  |  |  |  |  |  |
| 1920 | 5,997.78 |  | 5,648 |  | 5,998 |  |  |  |  |  |  |  |
| 1923 | 34,942.54 |  | 32,562 |  | 34,943 |  |  |  |  |  |  |  |
| 1924 | 5,606.13 |  | 5,205 |  | 5,603 |  | 3 |  | 5.72 |  | 1 |  |
| 1925 | 80,409.76 |  | 74,389 |  | 80,079 |  | 331 |  | 5.99 |  | 55 |  |
| 1926 | 30,417.41 |  | 28,033 |  | 30,177 |  | 240 |  | 6.27 |  | 38 |  |
| 1927 | 15,430.09 |  | 14,167 |  | 15,251 |  | 179 |  | 6.55 |  | 27 |  |
| 1928 | 12,138.19 |  | 11,100 |  | 11,949 |  | 189 |  | 6.84 |  | 28 |  |
| 1929 | 28,390.83 |  | 25,861 |  | 27,839 |  | 552 |  | 7.13 |  | 77 |  |
| 1930 | 33,348.08 |  | 30,251 |  | 32,565 |  | 783 |  | 7.43 |  | 105 |  |
| 1931 | 1,936.32 |  | 1,749 |  | 1,883 |  | 53 |  | 7.74 |  | 7 |  |
| 1932 | 363.59 |  | 327 |  | 352 |  | 12 |  | 8.05 |  | 1 |  |
| 1933 | 290.37 |  | 260 |  | 280 |  | 10 |  | 8.38 |  | 1 |  |
| 1934 | 438.52 |  | 391 |  | 421 |  | 18 |  | 8.71 |  | 2 |  |
| 1935 | 3,907.55 |  | 3,465 |  | 3,730 |  | 178 |  | 9.06 |  | 20 |  |
| 1936 | 36,954.28 |  | 32,598 |  | 35,091 |  | 1,863 |  | 9.43 |  | 198 |  |
| 1937 | 28,836.17 |  | 25,304 |  | 27,240 |  | 1,596 |  | 9.80 |  | 163 |  |
| 1938 | 2,184.10 |  | 1,906 |  | 2,052 |  | 132 |  | 10.20 |  | 13 |  |
| 1939 | 259.71 |  | 225 |  | 242 |  | 18 |  | 10.60 |  | 2 |  |
| 1940 | 10,948.64 |  | 9,439 |  | 10,161 |  | 788 |  | 11.03 |  | 71 |  |
| 1941 | 2,617.53 |  | 2,242 |  | 2,413 |  | 205 |  | 11.48 |  | 18 |  |
| 1943 | 2,650.74 |  | 2,239 |  | 2,410 |  | 241 |  | 12.43 |  | 19 |  |
| 1947 | 22,579.50 |  | 18,464 |  | 19,876 |  | 2,704 |  | 14.58 |  | 185 |  |
| 1948 | 12,704.46 |  | 10,297 |  | 11,085 |  | 1,619 |  | 15.16 |  | 107 |  |
| 1949 | 1,515.67 |  | 1,217 |  | 1,310 |  | 206 |  | 15.77 |  | 13 |  |
| 1950 | 53,927.00 |  | 42,878 |  | 46,158 |  | 7,769 |  | 16.39 |  | 474 |  |
| 1951 | 1,459.00 |  | 1,149 |  | 1,237 |  | 222 |  | 17.02 |  | 13 |  |
| 1952 | 107,107.36 |  | 83,449 |  | 89,832 |  | 17,275 |  | 17.67 |  | 978 |  |
| 1953 | 13,186.38 |  | 10,165 |  | 10,943 |  | 2,243 |  | 18.33 |  | 122 |  |
| 1954 | 22,937.81 |  | 17,487 |  | 18,825 |  | 4,113 |  | 19.01 |  | 216 |  |
| 1955 | 4,033.00 |  | 3,041 |  | 3,274 |  | 759 |  | 19.68 |  | 39 |  |
| 1956 | 3,381.00 |  | 2,520 |  | 2,713 |  | 668 |  | 20.37 |  | 33 |  |
| 1957 | 417,639.07 |  | 307,641 |  | 331,173 |  | 86,466 |  | 21.07 |  | 4,104 |  |
| 1958 | 23,069.92 |  | 16,789 |  | 18,073 |  | 4,997 |  | 21.78 |  | 229 |  |
| 1959 | 262,967.62 |  | 189,042 |  | 203,502 |  | 59,466 |  | 22.49 |  | 2,644 |  |
| 1960 | 109,455.00 |  | 77,700 |  | 83,643 |  | 25,812 |  | 23.21 |  | 1,112 |  |
| 1961 | 3,773.00 |  | 2,643 |  | 2,845 |  | 928 |  | 23.95 |  | 39 |  |
| 1962 | 44,858.03 |  | 31,014 |  | 33,386 |  | 11,472 |  | 24.69 |  | 465 |  |
| 1963 | 97,660.00 |  | 66,604 |  | 71,699 |  | 25,961 |  | 25.44 |  | 1,020 |  |
| 1964 | 2,814.00 |  | 1,892 |  | 2,037 |  | 777 |  | 26.20 |  | 30 |  |
| 1965 | 165,640.53 |  | 109,800 |  | 118,199 |  | 47,442 |  | 26.97 |  | 1,759 |  |
| 1966 | 104,825.28 |  | 68,463 |  | 73,700 |  | 31,125 |  | 27.75 |  | 1,122 |  |
| 1967 | 4,214.94 |  | 2,711 |  | 2,918 |  | 1,297 |  | 28.54 |  | 45 |  |
| 1968 | 62,918.56 |  | 39,843 |  | 42,891 |  | 20,028 |  | 29.34 |  | 683 |  |
| 1969 | 45,836.44 |  | 28,562 |  | 30,747 |  | 15,089 |  | 30.15 |  | 500 |  |
| 1970 | 26,240.84 |  | 16,082 |  | 17,312 |  | 8,929 |  | 30.97 |  | 288 |  |
| 1971 | 96,692.50 |  | 58,269 |  | 62,726 |  | 33,966 |  | 31.79 |  | 1,068 |  |
| 1972 | 97,835.69 |  | 57,930 |  | 62,361 |  | 35,475 |  | 32.63 |  | 1,087 |  |
| 1973 | 47,839.66 |  | 27,825 |  | 29,953 |  | 17,887 |  | 33.47 |  | 534 |  |
| 1974 | 194,534.69 |  | 111,079 |  | 119,575 |  | 74,960 |  | 34.32 |  | 2,184 |  |
| 1975 | 210,019.88 |  | 117,664 |  | 126,664 |  | 83,356 |  | 35.18 |  | 2,369 |  |
| 1976 | 123,872.74 |  | 68,053 |  | 73,258 |  | 50,615 |  | 36.05 |  | 1,404 |  |
| 1977 | 205,792.10 |  | 110,794 |  | 119,269 |  | 86,523 |  | 36.93 |  | 2,343 |  |
| 1978 | 102,574.70 |  | 54,096 |  | 58,234 |  | 44,341 |  | 37.81 |  | 1,173 |  |
| 1979 | 77,251.47 |  | 39,881 |  | 42,932 |  | 34,319 |  | 38.70 |  | 887 |  |
| 1980 | 119,730.64 |  | 60,464 |  | 65,089 |  | 54,642 |  | 39.60 |  | 1,380 |  |
| 1981 | 58,697.05 |  | 28,974 |  | 31,190 |  | 27,507 |  | 40.51 |  | 679 |  |
| 1982 | 224,186.32 |  | 108,114 |  | 116,384 |  | 107,802 |  | 41.42 |  | 2,603 |  |
| 1983 | 346,052.05 |  | 162,904 |  | 175,365 |  | 170,687 |  | 42.34 |  | 4,031 |  |
| 1984 | 712,165.49 |  | 327,062 |  | 352,079 |  | 360,086 |  | 43.26 |  | 8,324 |  |
| 1985 | 378,399.44 |  | 169,379 |  | 182,335 |  | 196,064 |  | 44.19 |  | 4,437 |  |
| 1986 | 38,908.11 |  | 16,964 |  | 18,262 |  | 20,646 |  | 45.12 |  | 458 |  |
| 1987 | 505,756.93 |  | 214,567 |  | 230,979 |  | 274,778 |  | 46.06 |  | 5,966 |  |
| 1988 | 139,326.63 |  | 57,456 |  | 61,851 |  | 77,476 |  | 47.01 |  | 1,648 |  |
| 1989 | 25,015.11 |  | 10,019 |  | 10,785 |  | 14,230 |  | 47.96 |  | 297 |  |
| 1990 | 313,007.19 |  | 121,641 |  | 130,945 |  | 182,062 |  | 48.91 |  | 3,722 |  |
| 1991 | 57,118.97 |  | 21,512 |  | 23,157 |  | 33,962 |  | 49.87 |  | 681 |  |
| 1992 | 54,540.71 |  | 19,887 |  | 21,408 |  | 33,133 |  | 50.83 |  | 652 |  |
| 1993 | 24,738.80 |  | 8,723 |  | 9,390 |  | 15,349 |  | 51.79 |  | 296 |  |
| 1994 | 452,871.12 |  | 154,203 |  | 165,998 |  | 286,873 |  | 52.76 |  | 5,437 |  |
| 1995 | 697,902.22 |  | 229,177 |  | 246,707 |  | 451,195 |  | 53.73 |  | 8,397 |  |
| 1997 | 321,647.97 |  | 97,781 |  | 105,260 |  | 216,388 |  | 55.68 |  | 3,886 |  |
| 1998 | 52,929.61 |  | 15,442 |  | 16,623 |  | 36,307 |  | 56.66 |  | 641 |  |
| 1999 | 254,952.93 |  | 71,259 |  | 76,710 |  | 178,243 |  | 57.64 |  | 3,092 |  |
| 2000 | 51,029.04 |  | 13,638 |  | 14,681 |  | 36,348 |  | 58.62 |  | 620 |  |
| 2001 | 3,895.85 |  | 993 |  | 1,069 |  | 2,827 |  | 59.61 |  | 47 |  |
| 2002 | 7,113.37 |  | 1,726 |  | 1,858 |  | 5,255 |  | 60.59 |  | 87 |  |
| 2003 | 388,721.17 |  | 89,503 |  | 96,349 |  | 292,372 |  | 61.58 |  | 4,748 |  |
| 2004 | 41,067.49 |  | 8,948 |  | 9,632 |  | 31,435 |  | 62.57 |  | 502 |  |
| 2005 | 3,809.37 |  | 783 |  | 843 |  | 2,966 |  | 63.56 |  | 47 |  |
| 2006 | 1,439,264.77 |  | 277,951 |  | 299,212 |  | 1,140,053 |  | 64.55 |  | 17,662 |  |
| 2007 | 570,206.67 |  | 103,065 |  | 110,949 |  | 459,258 |  | 65.54 |  | 7,007 |  |
| 2008 | 1,575,350.78 |  | 265,053 |  | 285,327 |  | 1,290,024 |  | 66.54 |  | 19,387 |  |
| 2009 | 201,155.58 |  | 31,356 |  | 33,754 |  | 167,402 |  | 67.53 |  | 2,479 |  |
| 2010 | 2,967,244.98 |  | 425,444 |  | 457,987 |  | 2,509,258 |  | 68.53 |  | 36,615 |  |
| 2011 | 104,800.71 |  | 13,729 |  | 14,779 |  | 90,022 |  | 69.52 |  | 1,295 |  |
| 2012 | 55,409.37 |  | 6,566 |  | 7,068 |  | 48,341 |  | 70.52 |  | 685 |  |
| 2013 | 136,115.50 |  | 14,445 |  | 15,550 |  | 120,566 |  | 71.51 |  | 1,686 |  |
| 2014 | 237,943.54 |  | 22,276 |  | 23,980 |  | 213,964 |  | 72.51 |  | 2,951 |  |
| 2015 | 859,406.60 |  | 69,715 |  | 75,048 |  | 784,359 |  | 73.51 |  | 10,670 |  |
| 2016 | 3,275,446.08 |  | 224,761 |  | 241,953 |  | 3,033,493 |  | 74.51 |  | 40,713 |  |
| 2017 | 78,437.16 |  | 4,402 |  | 4,739 |  | 73,698 |  | 75.51 |  | 976 |  |
| 2018 | 239,121.70 |  | 10,462 |  | 11,262 |  | 227,860 |  | 76.50 |  | 2,979 |  |
| 2019 | 907,540.21 |  | 28,361 |  | 30,530 |  | 877,010 |  | 77.50 |  | 11,316 |  |
| 2020 | 215,775.38 |  | 4,046 |  | 4,356 |  | 211,419 |  | 78.50 |  | 2,693 |  |
| 2021 | 59,754.65 |  | 373 |  | 401 |  | 59,353 |  | 79.50 |  | 747 |  |
|  | | | | | | | | | | | | |
|  | 21,370,166.35 |  | 5,677,184 |  | 6,109,257 |  | 15,260,909 |  |  | | 252,654 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 60.4 1.18 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 65-S2 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -15 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1939 | 4,294.86 |  | 4,139 |  | 4,183 |  | 756 |  | 10.53 |  | 72 |  |
| 1940 | 20,471.81 |  | 19,624 |  | 19,830 |  | 3,713 |  | 10.82 |  | 343 |  |
| 1942 | 887.44 |  | 841 |  | 850 |  | 171 |  | 11.42 |  | 15 |  |
| 1945 | 151.54 |  | 141 |  | 142 |  | 32 |  | 12.37 |  | 3 |  |
| 1948 | 36,532.07 |  | 33,377 |  | 33,728 |  | 8,284 |  | 13.36 |  | 620 |  |
| 1949 | 1,761.57 |  | 1,599 |  | 1,616 |  | 410 |  | 13.70 |  | 30 |  |
| 1950 | 197.93 |  | 178 |  | 180 |  | 48 |  | 14.05 |  | 3 |  |
| 1951 | 4,517.85 |  | 4,045 |  | 4,088 |  | 1,108 |  | 14.40 |  | 77 |  |
| 1952 | 86,408.47 |  | 76,805 |  | 77,613 |  | 21,757 |  | 14.76 |  | 1,474 |  |
| 1953 | 793.14 |  | 700 |  | 707 |  | 205 |  | 15.13 |  | 14 |  |
| 1954 | 1,284.94 |  | 1,125 |  | 1,137 |  | 341 |  | 15.51 |  | 22 |  |
| 1955 | 6,396.85 |  | 5,558 |  | 5,616 |  | 1,740 |  | 15.89 |  | 110 |  |
| 1956 | 3,354.32 |  | 2,891 |  | 2,921 |  | 936 |  | 16.28 |  | 57 |  |
| 1957 | 2,277.61 |  | 1,948 |  | 1,968 |  | 651 |  | 16.67 |  | 39 |  |
| 1958 | 8,236.55 |  | 6,983 |  | 7,056 |  | 2,416 |  | 17.08 |  | 141 |  |
| 1959 | 5,370.12 |  | 4,514 |  | 4,561 |  | 1,615 |  | 17.49 |  | 92 |  |
| 1960 | 1,157.29 |  | 964 |  | 974 |  | 357 |  | 17.91 |  | 20 |  |
| 1962 | 1,414.30 |  | 1,157 |  | 1,169 |  | 457 |  | 18.77 |  | 24 |  |
| 1963 | 641.03 |  | 519 |  | 524 |  | 213 |  | 19.22 |  | 11 |  |
| 1965 | 1,218.07 |  | 967 |  | 977 |  | 424 |  | 20.14 |  | 21 |  |
| 1966 | 7,203.52 |  | 5,657 |  | 5,716 |  | 2,568 |  | 20.61 |  | 125 |  |
| 1968 | 5,674.93 |  | 4,359 |  | 4,405 |  | 2,121 |  | 21.59 |  | 98 |  |
| 1969 | 5,753.20 |  | 4,367 |  | 4,413 |  | 2,203 |  | 22.10 |  | 100 |  |
| 1970 | 6,193.76 |  | 4,645 |  | 4,694 |  | 2,429 |  | 22.61 |  | 107 |  |
| 1971 | 4,472.98 |  | 3,313 |  | 3,348 |  | 1,796 |  | 23.14 |  | 78 |  |
| 1972 | 64,608.77 |  | 47,232 |  | 47,729 |  | 26,571 |  | 23.68 |  | 1,122 |  |
| 1973 | 48,069.02 |  | 34,673 |  | 35,038 |  | 20,241 |  | 24.23 |  | 835 |  |
| 1975 | 127,528.40 |  | 89,439 |  | 90,380 |  | 56,278 |  | 25.36 |  | 2,219 |  |
| 1976 | 61,921.49 |  | 42,791 |  | 43,241 |  | 27,969 |  | 25.94 |  | 1,078 |  |
| 1977 | 88,593.23 |  | 60,283 |  | 60,917 |  | 40,965 |  | 26.54 |  | 1,544 |  |
| 1978 | 1,632.97 |  | 1,094 |  | 1,106 |  | 772 |  | 27.15 |  | 28 |  |
| 1980 | 113,764.29 |  | 73,646 |  | 74,420 |  | 56,409 |  | 28.41 |  | 1,986 |  |
| 1981 | 30,793.06 |  | 19,580 |  | 19,786 |  | 15,626 |  | 29.06 |  | 538 |  |
| 1982 | 20,327.66 |  | 12,688 |  | 12,821 |  | 10,556 |  | 29.72 |  | 355 |  |
| 1983 | 518,667.61 |  | 317,506 |  | 320,845 |  | 275,623 |  | 30.40 |  | 9,067 |  |
| 1984 | 1,836.73 |  | 1,102 |  | 1,114 |  | 998 |  | 31.09 |  | 32 |  |
| 1985 | 1,009,240.88 |  | 592,813 |  | 599,047 |  | 561,580 |  | 31.80 |  | 17,660 |  |
| 1986 | 1,353,584.76 |  | 777,829 |  | 786,009 |  | 770,613 |  | 32.52 |  | 23,697 |  |
| 1987 | 183,698.00 |  | 103,188 |  | 104,273 |  | 106,980 |  | 33.25 |  | 3,217 |  |
| 1989 | 1,410.40 |  | 755 |  | 763 |  | 859 |  | 34.75 |  | 25 |  |
| 1990 | 133,951.85 |  | 69,841 |  | 70,575 |  | 83,470 |  | 35.53 |  | 2,349 |  |
| 1991 | 397,772.03 |  | 201,835 |  | 203,958 |  | 253,480 |  | 36.32 |  | 6,979 |  |
| 1993 | 670,518.93 |  | 321,015 |  | 324,391 |  | 446,706 |  | 37.94 |  | 11,774 |  |
| 1994 | 65,066.28 |  | 30,195 |  | 30,513 |  | 44,313 |  | 38.77 |  | 1,143 |  |
| 1995 | 67,624.09 |  | 30,378 |  | 30,697 |  | 47,071 |  | 39.61 |  | 1,188 |  |
| 1996 | 772,578.24 |  | 335,289 |  | 338,815 |  | 549,650 |  | 40.47 |  | 13,582 |  |
| 1997 | 485,192.11 |  | 203,185 |  | 205,322 |  | 352,649 |  | 41.33 |  | 8,533 |  |
| 1998 | 5,089.37 |  | 2,052 |  | 2,074 |  | 3,779 |  | 42.21 |  | 90 |  |
| 1999 | 365,612.21 |  | 141,596 |  | 143,085 |  | 277,369 |  | 43.11 |  | 6,434 |  |
| 2000 | 1,044,156.22 |  | 387,756 |  | 391,834 |  | 808,946 |  | 44.01 |  | 18,381 |  |
| 2001 | 112,188.33 |  | 39,836 |  | 40,255 |  | 88,762 |  | 44.93 |  | 1,976 |  |
| 2002 | 261,791.00 |  | 88,698 |  | 89,631 |  | 211,429 |  | 45.85 |  | 4,611 |  |
| 2003 | 71,697.51 |  | 23,099 |  | 23,342 |  | 59,110 |  | 46.79 |  | 1,263 |  |
| 2004 | 1,888,891.32 |  | 577,138 |  | 583,207 |  | 1,589,018 |  | 47.73 |  | 33,292 |  |
| 2005 | 2,136,912.85 |  | 617,016 |  | 623,504 |  | 1,833,946 |  | 48.68 |  | 37,674 |  |
| 2006 | 762,633.81 |  | 207,251 |  | 209,430 |  | 667,599 |  | 49.64 |  | 13,449 |  |
| 2007 | 1,404,913.42 |  | 357,673 |  | 361,434 |  | 1,254,216 |  | 50.61 |  | 24,782 |  |
| 2008 | 525,918.81 |  | 124,868 |  | 126,181 |  | 478,626 |  | 51.58 |  | 9,279 |  |
| 2009 | 281,900.01 |  | 62,043 |  | 62,695 |  | 261,490 |  | 52.56 |  | 4,975 |  |
| 2010 | 765,540.42 |  | 155,218 |  | 156,850 |  | 723,521 |  | 53.54 |  | 13,514 |  |
| 2011 | 178,954.28 |  | 33,150 |  | 33,499 |  | 172,298 |  | 54.53 |  | 3,160 |  |
| 2012 | 1,164,836.83 |  | 195,375 |  | 197,430 |  | 1,142,132 |  | 55.52 |  | 20,572 |  |
| 2013 | 2,055,977.75 |  | 308,835 |  | 312,083 |  | 2,052,291 |  | 56.51 |  | 36,317 |  |
| 2014 | 2,659,533.23 |  | 352,427 |  | 356,133 |  | 2,702,330 |  | 57.51 |  | 46,989 |  |
| 2015 | 403,083.80 |  | 46,355 |  | 46,842 |  | 416,704 |  | 58.50 |  | 7,123 |  |
| 2016 | 1,280,875.71 |  | 124,646 |  | 125,957 |  | 1,347,050 |  | 59.50 |  | 22,639 |  |
| 2017 | 721,069.89 |  | 57,408 |  | 58,012 |  | 771,218 |  | 60.50 |  | 12,747 |  |
| 2018 | 1,716,086.69 |  | 106,273 |  | 107,390 |  | 1,866,110 |  | 61.50 |  | 30,343 |  |
| 2019 | 351,120.74 |  | 15,530 |  | 15,693 |  | 388,096 |  | 62.50 |  | 6,210 |  |
| 2020 | 2,675,076.82 |  | 71,002 |  | 71,749 |  | 3,004,589 |  | 63.50 |  | 47,316 |  |
| 2021 | 1,689,280.61 |  | 14,939 |  | 15,096 |  | 1,927,576 |  | 64.50 |  | 29,885 |  |
|  | | | | | | | | | | | | |
|  | 30,958,188.58 |  | 7,666,957 |  | 7,747,582 |  | 27,854,334 |  |  | | 545,668 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 51.0 1.76 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 46-R2 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -10 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1930 | 2,802.32 |  | 3,083 |  | 3,083 |  |  |  |  |  |  |  |
| 1936 | 7,387.08 |  | 8,121 |  | 8,126 |  |  |  |  |  |  |  |
| 1950 | 1,347.75 |  | 1,360 |  | 1,423 |  | 60 |  | 3.80 |  | 16 |  |
| 1951 | 6,942.82 |  | 6,958 |  | 7,282 |  | 355 |  | 4.09 |  | 87 |  |
| 1952 | 274,094.27 |  | 272,795 |  | 285,510 |  | 15,994 |  | 4.38 |  | 3,652 |  |
| 1954 | 2,535.43 |  | 2,488 |  | 2,604 |  | 185 |  | 4.96 |  | 37 |  |
| 1955 | 193,475.96 |  | 188,487 |  | 197,272 |  | 15,552 |  | 5.26 |  | 2,957 |  |
| 1956 | 33,637.49 |  | 32,537 |  | 34,054 |  | 2,947 |  | 5.55 |  | 531 |  |
| 1957 | 104,356.11 |  | 100,194 |  | 104,864 |  | 9,928 |  | 5.85 |  | 1,697 |  |
| 1958 | 24,244.37 |  | 23,103 |  | 24,180 |  | 2,489 |  | 6.15 |  | 405 |  |
| 1959 | 235,729.99 |  | 222,944 |  | 233,336 |  | 25,967 |  | 6.45 |  | 4,026 |  |
| 1960 | 94,917.75 |  | 89,066 |  | 93,217 |  | 11,193 |  | 6.76 |  | 1,656 |  |
| 1962 | 22,807.65 |  | 21,052 |  | 22,033 |  | 3,055 |  | 7.40 |  | 413 |  |
| 1963 | 56,911.23 |  | 52,083 |  | 54,511 |  | 8,091 |  | 7.73 |  | 1,047 |  |
| 1964 | 146,370.58 |  | 132,762 |  | 138,950 |  | 22,058 |  | 8.07 |  | 2,733 |  |
| 1965 | 99,313.27 |  | 89,271 |  | 93,432 |  | 15,813 |  | 8.41 |  | 1,880 |  |
| 1966 | 110,421.72 |  | 98,307 |  | 102,889 |  | 18,575 |  | 8.77 |  | 2,118 |  |
| 1967 | 38,147.58 |  | 33,624 |  | 35,191 |  | 6,771 |  | 9.14 |  | 741 |  |
| 1968 | 255,183.48 |  | 222,670 |  | 233,049 |  | 47,653 |  | 9.51 |  | 5,011 |  |
| 1969 | 110,735.82 |  | 95,594 |  | 100,050 |  | 21,759 |  | 9.90 |  | 2,198 |  |
| 1970 | 31,377.82 |  | 26,787 |  | 28,036 |  | 6,480 |  | 10.30 |  | 629 |  |
| 1971 | 164,101.07 |  | 138,483 |  | 144,938 |  | 35,573 |  | 10.71 |  | 3,321 |  |
| 1972 | 251,497.94 |  | 209,652 |  | 219,424 |  | 57,224 |  | 11.14 |  | 5,137 |  |
| 1973 | 206,409.95 |  | 169,893 |  | 177,812 |  | 49,239 |  | 11.58 |  | 4,252 |  |
| 1974 | 199,306.77 |  | 161,902 |  | 169,448 |  | 49,789 |  | 12.03 |  | 4,139 |  |
| 1975 | 747,909.78 |  | 599,321 |  | 627,256 |  | 195,445 |  | 12.49 |  | 15,648 |  |
| 1976 | 887,070.27 |  | 700,862 |  | 733,530 |  | 242,247 |  | 12.96 |  | 18,692 |  |
| 1977 | 839,011.95 |  | 653,063 |  | 683,503 |  | 239,410 |  | 13.45 |  | 17,800 |  |
| 1978 | 2,833,094.25 |  | 2,171,323 |  | 2,272,530 |  | 843,874 |  | 13.95 |  | 60,493 |  |
| 1979 | 1,252,420.29 |  | 944,291 |  | 988,305 |  | 389,357 |  | 14.47 |  | 26,908 |  |
| 1980 | 1,783,566.94 |  | 1,322,160 |  | 1,383,787 |  | 578,137 |  | 15.00 |  | 38,542 |  |
| 1981 | 2,512,829.84 |  | 1,830,313 |  | 1,915,625 |  | 848,488 |  | 15.54 |  | 54,600 |  |
| 1982 | 1,473,629.80 |  | 1,054,002 |  | 1,103,130 |  | 517,863 |  | 16.09 |  | 32,185 |  |
| 1983 | 4,268,195.20 |  | 2,994,621 |  | 3,134,202 |  | 1,560,813 |  | 16.66 |  | 93,686 |  |
| 1984 | 10,513,029.39 |  | 7,232,680 |  | 7,569,799 |  | 3,994,533 |  | 17.23 |  | 231,836 |  |
| 1985 | 7,202,298.43 |  | 4,853,420 |  | 5,079,641 |  | 2,842,887 |  | 17.82 |  | 159,534 |  |
| 1986 | 3,989,858.17 |  | 2,630,454 |  | 2,753,061 |  | 1,635,783 |  | 18.43 |  | 88,757 |  |
| 1987 | 2,856,654.07 |  | 1,841,682 |  | 1,927,524 |  | 1,214,795 |  | 19.04 |  | 63,802 |  |
| 1988 | 1,112,717.31 |  | 700,599 |  | 733,254 |  | 490,735 |  | 19.67 |  | 24,948 |  |
| 1989 | 503,195.96 |  | 309,249 |  | 323,663 |  | 229,853 |  | 20.30 |  | 11,323 |  |
| 1990 | 430,303.71 |  | 257,764 |  | 269,779 |  | 203,555 |  | 20.95 |  | 9,716 |  |
| 1991 | 822,299.08 |  | 479,599 |  | 501,953 |  | 402,576 |  | 21.61 |  | 18,629 |  |
| 1992 | 904,001.81 |  | 512,763 |  | 536,663 |  | 457,739 |  | 22.28 |  | 20,545 |  |
| 1993 | 3,694,927.66 |  | 2,035,746 |  | 2,130,633 |  | 1,933,787 |  | 22.96 |  | 84,224 |  |
| 1994 | 3,824,114.81 |  | 2,043,825 |  | 2,139,089 |  | 2,067,437 |  | 23.65 |  | 87,418 |  |
| 1995 | 1,964,090.39 |  | 1,016,364 |  | 1,063,737 |  | 1,096,762 |  | 24.36 |  | 45,023 |  |
| 1996 | 1,320,764.34 |  | 661,043 |  | 691,855 |  | 760,986 |  | 25.07 |  | 30,354 |  |
| 1997 | 2,705,729.81 |  | 1,307,639 |  | 1,368,589 |  | 1,607,714 |  | 25.79 |  | 62,339 |  |
| 1998 | 1,833,330.45 |  | 854,017 |  | 893,823 |  | 1,122,840 |  | 26.52 |  | 42,339 |  |
| 1999 | 4,624,107.97 |  | 2,072,197 |  | 2,168,783 |  | 2,917,736 |  | 27.26 |  | 107,034 |  |
| 2000 | 3,766,446.39 |  | 1,620,321 |  | 1,695,845 |  | 2,447,246 |  | 28.01 |  | 87,370 |  |
| 2001 | 6,329,930.83 |  | 2,608,102 |  | 2,729,667 |  | 4,233,257 |  | 28.77 |  | 147,141 |  |
| 2002 | 3,523,267.29 |  | 1,387,618 |  | 1,452,296 |  | 2,423,298 |  | 29.53 |  | 82,062 |  |
| 2003 | 8,052,888.98 |  | 3,021,436 |  | 3,162,267 |  | 5,695,911 |  | 30.31 |  | 187,922 |  |
| 2004 | 14,370,568.26 |  | 5,123,726 |  | 5,362,546 |  | 10,445,079 |  | 31.09 |  | 335,963 |  |
| 2005 | 12,494,622.74 |  | 4,215,861 |  | 4,412,365 |  | 9,331,720 |  | 31.89 |  | 292,622 |  |
| 2006 | 8,839,662.61 |  | 2,813,532 |  | 2,944,672 |  | 6,778,957 |  | 32.69 |  | 207,371 |  |
| 2007 | 8,718,258.83 |  | 2,608,119 |  | 2,729,685 |  | 6,860,400 |  | 33.49 |  | 204,849 |  |
| 2008 | 6,140,773.95 |  | 1,716,610 |  | 1,796,622 |  | 4,958,229 |  | 34.31 |  | 144,513 |  |
| 2009 | 6,356,152.15 |  | 1,652,155 |  | 1,729,163 |  | 5,262,604 |  | 35.13 |  | 149,804 |  |
| 2010 | 18,353,654.15 |  | 4,402,014 |  | 4,607,194 |  | 15,581,826 |  | 35.97 |  | 433,189 |  |
| 2011 | 11,268,587.31 |  | 2,479,089 |  | 2,594,641 |  | 9,800,805 |  | 36.80 |  | 266,326 |  |
| 2012 | 11,163,001.38 |  | 2,228,939 |  | 2,332,831 |  | 9,946,471 |  | 37.65 |  | 264,182 |  |
| 2013 | 6,037,178.33 |  | 1,082,732 |  | 1,133,199 |  | 5,507,697 |  | 38.50 |  | 143,057 |  |
| 2014 | 19,817,583.09 |  | 3,146,735 |  | 3,293,406 |  | 18,505,935 |  | 39.36 |  | 470,171 |  |
| 2015 | 9,476,678.28 |  | 1,307,526 |  | 1,368,470 |  | 9,055,876 |  | 40.23 |  | 225,103 |  |
| 2016 | 15,386,763.49 |  | 1,802,898 |  | 1,886,932 |  | 15,038,508 |  | 41.10 |  | 365,900 |  |
| 2017 | 4,113,070.58 |  | 395,385 |  | 413,814 |  | 4,110,564 |  | 41.98 |  | 97,917 |  |
| 2018 | 13,174,594.32 |  | 989,228 |  | 1,035,336 |  | 13,456,718 |  | 42.86 |  | 313,969 |  |
| 2019 | 23,797,482.91 |  | 1,280,328 |  | 1,340,005 |  | 24,837,226 |  | 43.75 |  | 567,708 |  |
| 2020 | 31,788,434.39 |  | 1,026,290 |  | 1,074,126 |  | 33,893,152 |  | 44.65 |  | 759,085 |  |
| 2021 | 44,218,428.22 |  | 475,702 |  | 497,875 |  | 48,142,396 |  | 45.55 |  | 1,056,913 |  |
|  | | | | | | | | | | | | |
|  | 354,761,236.38 |  | 90,866,559 |  | 95,101,385 |  | 295,135,975 |  |  | | 8,298,195 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 35.6 2.34 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 80-R4 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -10 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1910 | 108,255.77 |  | 115,807 |  | 119,081 |  |  |  |  |  |  |  |
| 1929 | 2,885.08 |  | 2,891 |  | 3,174 |  |  |  |  |  |  |  |
| 1941 | 179.00 |  | 169 |  | 197 |  |  |  |  |  |  |  |
| 1954 | 15,258.68 |  | 12,796 |  | 15,566 |  | 1,219 |  | 19.01 |  | 64 |  |
| 1955 | 34,627.43 |  | 28,720 |  | 34,938 |  | 3,152 |  | 19.68 |  | 160 |  |
| 1956 | 178.00 |  | 146 |  | 178 |  | 18 |  | 20.37 |  | 1 |  |
| 1957 | 87,958.05 |  | 71,271 |  | 86,701 |  | 10,053 |  | 21.07 |  | 477 |  |
| 1959 | 93,197.08 |  | 73,697 |  | 89,653 |  | 12,864 |  | 22.49 |  | 572 |  |
| 1960 | 24,565.49 |  | 19,182 |  | 23,335 |  | 3,687 |  | 23.21 |  | 159 |  |
| 1962 | 25,877.85 |  | 19,681 |  | 23,942 |  | 4,524 |  | 24.69 |  | 183 |  |
| 1963 | 12,415.50 |  | 9,314 |  | 11,331 |  | 2,326 |  | 25.44 |  | 91 |  |
| 1964 | 3.46 |  | 3 |  | 4 |  |  |  |  |  |  |  |
| 1969 | 3,397.26 |  | 2,329 |  | 2,833 |  | 904 |  | 30.15 |  | 30 |  |
| 1970 | 396.33 |  | 267 |  | 325 |  | 111 |  | 30.97 |  | 4 |  |
| 1971 | 105,739.00 |  | 70,092 |  | 85,267 |  | 31,046 |  | 31.79 |  | 977 |  |
| 1972 | 716.34 |  | 467 |  | 568 |  | 220 |  | 32.63 |  | 7 |  |
| 1973 | 84,598.66 |  | 54,125 |  | 65,843 |  | 27,216 |  | 33.47 |  | 813 |  |
| 1975 | 305,906.03 |  | 188,522 |  | 229,338 |  | 107,159 |  | 35.18 |  | 3,046 |  |
| 1976 | 1,665,076.07 |  | 1,006,235 |  | 1,224,089 |  | 607,495 |  | 36.05 |  | 16,851 |  |
| 1977 | 24,415.81 |  | 14,459 |  | 17,589 |  | 9,268 |  | 36.93 |  | 251 |  |
| 1978 | 6,424.75 |  | 3,727 |  | 4,534 |  | 2,533 |  | 37.81 |  | 67 |  |
| 1979 | 11,825.78 |  | 6,716 |  | 8,170 |  | 4,838 |  | 38.70 |  | 125 |  |
| 1980 | 5,043.93 |  | 2,802 |  | 3,409 |  | 2,139 |  | 39.60 |  | 54 |  |
| 1982 | 604,025.36 |  | 320,420 |  | 389,792 |  | 274,636 |  | 41.42 |  | 6,631 |  |
| 1983 | 21,228.33 |  | 10,993 |  | 13,373 |  | 9,978 |  | 42.34 |  | 236 |  |
| 1984 | 12,845,360.08 |  | 6,489,155 |  | 7,894,083 |  | 6,235,813 |  | 43.26 |  | 144,147 |  |
| 1985 | 278,328.19 |  | 137,044 |  | 166,715 |  | 139,446 |  | 44.19 |  | 3,156 |  |
| 1986 | 301,697.13 |  | 144,694 |  | 176,021 |  | 155,846 |  | 45.12 |  | 3,454 |  |
| 1987 | 78,774.61 |  | 36,762 |  | 44,721 |  | 41,931 |  | 46.06 |  | 910 |  |
| 1988 | 81,315.05 |  | 36,886 |  | 44,872 |  | 44,575 |  | 47.01 |  | 948 |  |
| 1989 | 818.56 |  | 361 |  | 439 |  | 461 |  | 47.96 |  | 10 |  |
| 1990 | 294.58 |  | 126 |  | 153 |  | 171 |  | 48.91 |  | 3 |  |
| 1991 | 3,025.78 |  | 1,254 |  | 1,525 |  | 1,803 |  | 49.87 |  | 36 |  |
| 1992 | 47.07 |  | 19 |  | 23 |  | 29 |  | 50.83 |  | 1 |  |
| 1993 | 106,690.45 |  | 41,383 |  | 50,343 |  | 67,016 |  | 51.79 |  | 1,294 |  |
| 1994 | 52,303.55 |  | 19,590 |  | 23,831 |  | 33,703 |  | 52.76 |  | 639 |  |
| 1995 | 5,433.78 |  | 1,963 |  | 2,388 |  | 3,589 |  | 53.73 |  | 67 |  |
| 1996 | 6,811.43 |  | 2,370 |  | 2,883 |  | 4,610 |  | 54.70 |  | 84 |  |
| 1997 | 9,839.83 |  | 3,290 |  | 4,002 |  | 6,822 |  | 55.68 |  | 123 |  |
| 1998 | 3,724.72 |  | 1,195 |  | 1,454 |  | 2,643 |  | 56.66 |  | 47 |  |
| 1999 | 8,553.31 |  | 2,630 |  | 3,199 |  | 6,210 |  | 57.64 |  | 108 |  |
| 2000 | 8,230.73 |  | 2,420 |  | 2,944 |  | 6,110 |  | 58.62 |  | 104 |  |
| 2001 | 9,933.44 |  | 2,785 |  | 3,388 |  | 7,539 |  | 59.61 |  | 126 |  |
| 2002 | 10,577.19 |  | 2,823 |  | 3,434 |  | 8,201 |  | 60.59 |  | 135 |  |
| 2003 | 4,308.78 |  | 1,091 |  | 1,327 |  | 3,413 |  | 61.58 |  | 55 |  |
| 2004 | 1,675.99 |  | 402 |  | 489 |  | 1,355 |  | 62.57 |  | 22 |  |
| 2007 | 10,714.39 |  | 2,130 |  | 2,591 |  | 9,195 |  | 65.54 |  | 140 |  |
| 2008 | 18,359.93 |  | 3,398 |  | 4,134 |  | 16,062 |  | 66.54 |  | 241 |  |
| 2009 | 14,714.72 |  | 2,523 |  | 3,069 |  | 13,117 |  | 67.53 |  | 194 |  |
| 2010 | 7,791.94 |  | 1,229 |  | 1,495 |  | 7,076 |  | 68.53 |  | 103 |  |
| 2012 | 1,533.08 |  | 200 |  | 243 |  | 1,443 |  | 70.52 |  | 20 |  |
| 2013 | 10,227.70 |  | 1,194 |  | 1,453 |  | 9,797 |  | 71.51 |  | 137 |  |
| 2014 | 35,285.79 |  | 3,634 |  | 4,421 |  | 34,393 |  | 72.51 |  | 474 |  |
| 2020 | 92,968.59 |  | 1,917 |  | 2,333 |  | 99,932 |  | 78.50 |  | 1,273 |  |
| 2021 | 24,848.36 |  | 171 |  | 208 |  | 27,125 |  | 79.50 |  | 341 |  |
|  | | | | | | | | | | | | |
|  | 17,278,383.79 |  | 8,979,470 |  | 10,901,411 |  | 8,104,811 |  |  | | 189,191 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 42.8 1.09 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 60-R2.5 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -40 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1946 | 4,632.07 |  | 5,531 |  | 5,008 |  | 1,477 |  | 8.83 |  | 167 |  |
| 1947 | 15,360.30 |  | 18,239 |  | 16,514 |  | 4,990 |  | 9.11 |  | 548 |  |
| 1950 | 8,721.88 |  | 10,180 |  | 9,217 |  | 2,994 |  | 9.98 |  | 300 |  |
| 1952 | 110,695.64 |  | 127,544 |  | 115,484 |  | 39,490 |  | 10.62 |  | 3,718 |  |
| 1953 | 19,832.39 |  | 22,698 |  | 20,552 |  | 7,213 |  | 10.95 |  | 659 |  |
| 1954 | 117,388.40 |  | 133,393 |  | 120,780 |  | 43,564 |  | 11.30 |  | 3,855 |  |
| 1955 | 32,103.47 |  | 36,211 |  | 32,787 |  | 12,158 |  | 11.66 |  | 1,043 |  |
| 1956 | 19,389.52 |  | 21,703 |  | 19,651 |  | 7,494 |  | 12.03 |  | 623 |  |
| 1957 | 293,436.37 |  | 325,773 |  | 294,969 |  | 115,842 |  | 12.42 |  | 9,327 |  |
| 1958 | 16,062.60 |  | 17,683 |  | 16,011 |  | 6,477 |  | 12.82 |  | 505 |  |
| 1959 | 364,898.15 |  | 398,213 |  | 360,559 |  | 150,298 |  | 13.23 |  | 11,360 |  |
| 1960 | 351,431.09 |  | 379,989 |  | 344,058 |  | 147,946 |  | 13.66 |  | 10,831 |  |
| 1961 | 38,736.63 |  | 41,478 |  | 37,556 |  | 16,675 |  | 14.11 |  | 1,182 |  |
| 1962 | 364,566.73 |  | 386,455 |  | 349,913 |  | 160,480 |  | 14.57 |  | 11,014 |  |
| 1963 | 563,053.81 |  | 590,678 |  | 534,825 |  | 253,450 |  | 15.04 |  | 16,852 |  |
| 1964 | 48,136.11 |  | 49,948 |  | 45,225 |  | 22,166 |  | 15.53 |  | 1,427 |  |
| 1965 | 893,709.99 |  | 916,912 |  | 830,211 |  | 420,983 |  | 16.03 |  | 26,262 |  |
| 1966 | 382,412.92 |  | 387,705 |  | 351,045 |  | 184,333 |  | 16.55 |  | 11,138 |  |
| 1967 | 108,947.09 |  | 109,106 |  | 98,789 |  | 53,737 |  | 17.08 |  | 3,146 |  |
| 1968 | 250,562.60 |  | 247,772 |  | 224,343 |  | 126,445 |  | 17.62 |  | 7,176 |  |
| 1969 | 178,097.96 |  | 173,788 |  | 157,355 |  | 91,982 |  | 18.18 |  | 5,060 |  |
| 1970 | 87,091.98 |  | 83,826 |  | 75,900 |  | 46,029 |  | 18.75 |  | 2,455 |  |
| 1971 | 236,614.06 |  | 224,485 |  | 203,258 |  | 128,002 |  | 19.34 |  | 6,619 |  |
| 1972 | 276,149.65 |  | 258,189 |  | 233,775 |  | 152,835 |  | 19.93 |  | 7,669 |  |
| 1973 | 987,426.32 |  | 909,161 |  | 823,193 |  | 559,204 |  | 20.54 |  | 27,225 |  |
| 1974 | 651,121.95 |  | 590,087 |  | 534,290 |  | 377,281 |  | 21.16 |  | 17,830 |  |
| 1975 | 670,586.00 |  | 597,869 |  | 541,336 |  | 397,484 |  | 21.79 |  | 18,242 |  |
| 1976 | 712,249.05 |  | 624,215 |  | 565,191 |  | 431,958 |  | 22.44 |  | 19,249 |  |
| 1977 | 355,940.02 |  | 306,549 |  | 277,563 |  | 220,753 |  | 23.09 |  | 9,561 |  |
| 1978 | 383,529.98 |  | 324,313 |  | 293,647 |  | 243,295 |  | 23.76 |  | 10,240 |  |
| 1979 | 263,673.13 |  | 218,839 |  | 198,146 |  | 170,996 |  | 24.43 |  | 6,999 |  |
| 1980 | 701,444.57 |  | 571,046 |  | 517,049 |  | 464,973 |  | 25.11 |  | 18,517 |  |
| 1981 | 722,821.48 |  | 576,640 |  | 522,115 |  | 489,835 |  | 25.81 |  | 18,978 |  |
| 1982 | 1,473,813.56 |  | 1,151,694 |  | 1,042,793 |  | 1,020,546 |  | 26.51 |  | 38,497 |  |
| 1983 | 1,639,670.62 |  | 1,253,754 |  | 1,135,202 |  | 1,160,337 |  | 27.23 |  | 42,612 |  |
| 1984 | 1,397,733.74 |  | 1,045,278 |  | 946,439 |  | 1,010,388 |  | 27.95 |  | 36,150 |  |
| 1985 | 10,033,274.14 |  | 7,332,317 |  | 6,638,993 |  | 7,407,591 |  | 28.68 |  | 258,284 |  |
| 1986 | 9,537,198.47 |  | 6,805,154 |  | 6,161,677 |  | 7,190,401 |  | 29.42 |  | 244,405 |  |
| 1987 | 2,123,381.67 |  | 1,477,954 |  | 1,338,203 |  | 1,634,531 |  | 30.17 |  | 54,177 |  |
| 1988 | 1,062,768.37 |  | 721,129 |  | 652,941 |  | 834,935 |  | 30.92 |  | 27,003 |  |
| 1989 | 824,945.18 |  | 544,927 |  | 493,400 |  | 661,523 |  | 31.69 |  | 20,875 |  |
| 1990 | 1,161,946.56 |  | 746,667 |  | 676,064 |  | 950,661 |  | 32.46 |  | 29,287 |  |
| 1991 | 1,064,404.20 |  | 664,614 |  | 601,770 |  | 888,396 |  | 33.24 |  | 26,727 |  |
| 1992 | 724,937.52 |  | 439,285 |  | 397,747 |  | 617,166 |  | 34.03 |  | 18,136 |  |
| 1993 | 2,556,964.58 |  | 1,502,314 |  | 1,360,259 |  | 2,219,491 |  | 34.82 |  | 63,742 |  |
| 1994 | 3,948,304.85 |  | 2,245,156 |  | 2,032,860 |  | 3,494,767 |  | 35.63 |  | 98,085 |  |
| 1995 | 4,268,401.80 |  | 2,346,503 |  | 2,124,624 |  | 3,851,139 |  | 36.44 |  | 105,684 |  |
| 1996 | 578,772.12 |  | 307,234 |  | 278,183 |  | 532,098 |  | 37.25 |  | 14,285 |  |
| 1997 | 4,165,827.27 |  | 2,130,662 |  | 1,929,193 |  | 3,902,965 |  | 38.08 |  | 102,494 |  |
| 1998 | 1,322,824.19 |  | 650,962 |  | 589,409 |  | 1,262,545 |  | 38.91 |  | 32,448 |  |
| 1999 | 1,229,949.63 |  | 581,444 |  | 526,464 |  | 1,195,465 |  | 39.74 |  | 30,082 |  |
| 2000 | 3,144,340.92 |  | 1,424,072 |  | 1,289,416 |  | 3,112,661 |  | 40.59 |  | 76,685 |  |
| 2001 | 940,594.37 |  | 407,336 |  | 368,819 |  | 948,013 |  | 41.44 |  | 22,877 |  |
| 2002 | 1,955,054.99 |  | 807,438 |  | 731,089 |  | 2,005,988 |  | 42.30 |  | 47,423 |  |
| 2003 | 698,120.45 |  | 274,318 |  | 248,379 |  | 728,990 |  | 43.16 |  | 16,890 |  |
| 2004 | 13,926,309.91 |  | 5,189,472 |  | 4,698,770 |  | 14,798,064 |  | 44.03 |  | 336,090 |  |
| 2005 | 7,106,743.83 |  | 2,503,976 |  | 2,267,207 |  | 7,682,234 |  | 44.90 |  | 171,097 |  |
| 2006 | 5,461,511.77 |  | 1,812,130 |  | 1,640,780 |  | 6,005,336 |  | 45.78 |  | 131,178 |  |
| 2007 | 24,957,056.58 |  | 7,762,593 |  | 7,028,584 |  | 27,911,295 |  | 46.67 |  | 598,056 |  |
| 2008 | 2,317,006.96 |  | 672,539 |  | 608,946 |  | 2,634,864 |  | 47.56 |  | 55,401 |  |
| 2009 | 3,311,444.54 |  | 892,434 |  | 808,048 |  | 3,827,974 |  | 48.45 |  | 79,009 |  |
| 2010 | 3,535,430.41 |  | 878,554 |  | 795,480 |  | 4,154,123 |  | 49.35 |  | 84,177 |  |
| 2011 | 9,502,090.49 |  | 2,159,464 |  | 1,955,271 |  | 11,347,656 |  | 50.26 |  | 225,779 |  |
| 2012 | 11,880,324.92 |  | 2,447,798 |  | 2,216,341 |  | 14,416,114 |  | 51.17 |  | 281,730 |  |
| 2013 | 9,075,725.35 |  | 1,677,194 |  | 1,518,603 |  | 11,187,412 |  | 52.08 |  | 214,812 |  |
| 2014 | 17,572,497.30 |  | 2,870,257 |  | 2,598,853 |  | 22,002,643 |  | 53.00 |  | 415,144 |  |
| 2015 | 22,636,386.50 |  | 3,211,243 |  | 2,907,597 |  | 28,783,344 |  | 53.92 |  | 533,816 |  |
| 2016 | 14,011,581.99 |  | 1,683,660 |  | 1,524,458 |  | 18,091,757 |  | 54.85 |  | 329,841 |  |
| 2017 | 35,588,190.14 |  | 3,512,554 |  | 3,180,417 |  | 46,643,049 |  | 55.77 |  | 836,347 |  |
| 2018 | 17,295,108.12 |  | 1,327,607 |  | 1,202,072 |  | 23,011,079 |  | 56.71 |  | 405,768 |  |
| 2019 | 20,616,891.92 |  | 1,135,207 |  | 1,027,865 |  | 27,835,784 |  | 57.64 |  | 482,925 |  |
| 2020 | 15,339,060.18 |  | 508,306 |  | 460,242 |  | 21,014,442 |  | 58.58 |  | 358,731 |  |
| 2021 | 33,450,940.15 |  | 366,689 |  | 332,016 |  | 46,499,301 |  | 59.53 |  | 781,107 |  |
|  | | | | | | | | | | | | |
|  | 333,668,354.17 |  | 85,158,107 |  | 77,105,789 |  | 390,029,907 |  |  | | 8,017,633 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 48.6 2.40 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 60-R3 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -30 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1919 | 238,429.97 |  | 309,959 |  | 309,959 |  |  |  |  |  |  |  |
| 1920 | 70,971.77 |  | 92,263 |  | 92,263 |  |  |  |  |  |  |  |
| 1922 | 9,792.31 |  | 12,624 |  | 10,120 |  | 2,610 |  | 0.50 |  | 2,610 |  |
| 1924 | 117,936.30 |  | 150,941 |  | 120,996 |  | 32,321 |  | 0.93 |  | 32,321 |  |
| 1926 | 258,878.59 |  | 328,691 |  | 263,483 |  | 73,059 |  | 1.40 |  | 52,185 |  |
| 1927 | 10,916.84 |  | 13,804 |  | 11,065 |  | 3,127 |  | 1.64 |  | 1,907 |  |
| 1928 | 106,180.25 |  | 133,710 |  | 107,184 |  | 30,850 |  | 1.88 |  | 16,410 |  |
| 1929 | 157,306.80 |  | 197,239 |  | 158,110 |  | 46,389 |  | 2.13 |  | 21,779 |  |
| 1930 | 140,466.27 |  | 175,393 |  | 140,598 |  | 42,008 |  | 2.37 |  | 17,725 |  |
| 1931 | 18,267.42 |  | 22,707 |  | 18,202 |  | 5,546 |  | 2.63 |  | 2,109 |  |
| 1935 | 12,046.11 |  | 14,707 |  | 11,789 |  | 3,871 |  | 3.65 |  | 1,061 |  |
| 1936 | 74,052.62 |  | 90,011 |  | 72,154 |  | 24,114 |  | 3.90 |  | 6,183 |  |
| 1937 | 82,226.75 |  | 99,484 |  | 79,748 |  | 27,147 |  | 4.16 |  | 6,526 |  |
| 1940 | 28,692.01 |  | 34,235 |  | 27,443 |  | 9,857 |  | 4.93 |  | 1,999 |  |
| 1941 | 25.46 |  | 30 |  | 24 |  | 9 |  | 5.19 |  | 2 |  |
| 1942 | 110,401.09 |  | 130,485 |  | 104,599 |  | 38,922 |  | 5.45 |  | 7,142 |  |
| 1946 | 47,286.54 |  | 54,792 |  | 43,922 |  | 17,551 |  | 6.52 |  | 2,692 |  |
| 1947 | 169,259.33 |  | 195,100 |  | 156,395 |  | 63,642 |  | 6.80 |  | 9,359 |  |
| 1948 | 2,600.78 |  | 2,981 |  | 2,390 |  | 991 |  | 7.09 |  | 140 |  |
| 1949 | 10,418.54 |  | 11,878 |  | 9,522 |  | 4,022 |  | 7.38 |  | 545 |  |
| 1950 | 129,958.92 |  | 147,293 |  | 118,072 |  | 50,875 |  | 7.69 |  | 6,616 |  |
| 1952 | 565,831.71 |  | 633,460 |  | 507,791 |  | 227,790 |  | 8.33 |  | 27,346 |  |
| 1953 | 104,050.09 |  | 115,719 |  | 92,762 |  | 42,503 |  | 8.67 |  | 4,902 |  |
| 1954 | 132,766.02 |  | 146,649 |  | 117,556 |  | 55,040 |  | 9.02 |  | 6,102 |  |
| 1955 | 53,248.77 |  | 58,402 |  | 46,816 |  | 22,407 |  | 9.38 |  | 2,389 |  |
| 1956 | 5,854.66 |  | 6,373 |  | 5,109 |  | 2,502 |  | 9.76 |  | 256 |  |
| 1957 | 1,202,880.44 |  | 1,299,206 |  | 1,041,462 |  | 522,283 |  | 10.15 |  | 51,456 |  |
| 1958 | 89,814.57 |  | 96,209 |  | 77,123 |  | 39,636 |  | 10.56 |  | 3,753 |  |
| 1959 | 1,648,725.85 |  | 1,751,112 |  | 1,403,716 |  | 739,628 |  | 10.98 |  | 67,361 |  |
| 1960 | 998,275.79 |  | 1,050,756 |  | 842,301 |  | 455,458 |  | 11.42 |  | 39,882 |  |
| 1961 | 6,011.85 |  | 6,269 |  | 5,025 |  | 2,790 |  | 11.87 |  | 235 |  |
| 1962 | 587,837.63 |  | 607,018 |  | 486,594 |  | 277,595 |  | 12.34 |  | 22,496 |  |
| 1963 | 777,059.36 |  | 794,171 |  | 636,619 |  | 373,558 |  | 12.83 |  | 29,116 |  |
| 1964 | 114,739.53 |  | 116,022 |  | 93,005 |  | 56,156 |  | 13.33 |  | 4,213 |  |
| 1965 | 1,423,040.82 |  | 1,422,928 |  | 1,140,639 |  | 709,314 |  | 13.85 |  | 51,214 |  |
| 1966 | 233,488.89 |  | 230,787 |  | 185,002 |  | 118,534 |  | 14.38 |  | 8,243 |  |
| 1967 | 42,361.47 |  | 41,367 |  | 33,160 |  | 21,910 |  | 14.93 |  | 1,468 |  |
| 1968 | 287,864.53 |  | 277,611 |  | 222,537 |  | 151,687 |  | 15.49 |  | 9,793 |  |
| 1969 | 79,474.87 |  | 75,646 |  | 60,639 |  | 42,678 |  | 16.07 |  | 2,656 |  |
| 1970 | 95,430.98 |  | 89,612 |  | 71,834 |  | 52,226 |  | 16.66 |  | 3,135 |  |
| 1971 | 239,625.98 |  | 221,851 |  | 177,839 |  | 133,675 |  | 17.27 |  | 7,740 |  |
| 1972 | 200,959.76 |  | 183,351 |  | 146,977 |  | 114,271 |  | 17.89 |  | 6,387 |  |
| 1973 | 411,619.48 |  | 369,849 |  | 296,476 |  | 238,629 |  | 18.53 |  | 12,878 |  |
| 1974 | 424,919.27 |  | 375,811 |  | 301,255 |  | 251,140 |  | 19.18 |  | 13,094 |  |
| 1975 | 1,127,976.02 |  | 981,485 |  | 786,772 |  | 679,597 |  | 19.84 |  | 34,254 |  |
| 1976 | 638,798.51 |  | 546,569 |  | 438,138 |  | 392,300 |  | 20.51 |  | 19,127 |  |
| 1977 | 313,392.39 |  | 263,525 |  | 211,245 |  | 196,165 |  | 21.19 |  | 9,257 |  |
| 1978 | 553,277.60 |  | 456,853 |  | 366,220 |  | 353,041 |  | 21.89 |  | 16,128 |  |
| 1979 | 297,735.32 |  | 241,264 |  | 193,401 |  | 193,655 |  | 22.60 |  | 8,569 |  |
| 1980 | 928,111.91 |  | 737,597 |  | 591,268 |  | 615,277 |  | 23.32 |  | 26,384 |  |
| 1981 | 559,896.02 |  | 436,115 |  | 349,596 |  | 378,269 |  | 24.05 |  | 15,728 |  |
| 1982 | 1,356,872.20 |  | 1,035,129 |  | 829,774 |  | 934,160 |  | 24.79 |  | 37,683 |  |
| 1983 | 1,797,127.09 |  | 1,342,184 |  | 1,075,914 |  | 1,260,351 |  | 25.53 |  | 49,367 |  |
| 1984 | 12,628,564.69 |  | 9,223,638 |  | 7,393,800 |  | 9,023,334 |  | 26.29 |  | 343,223 |  |
| 1985 | 4,447,795.68 |  | 3,174,392 |  | 2,544,638 |  | 3,237,496 |  | 27.06 |  | 119,641 |  |
| 1986 | 5,526,724.60 |  | 3,851,022 |  | 3,087,034 |  | 4,097,708 |  | 27.84 |  | 147,188 |  |
| 1987 | 1,419,414.93 |  | 964,747 |  | 773,355 |  | 1,071,884 |  | 28.63 |  | 37,439 |  |
| 1988 | 536,614.13 |  | 355,545 |  | 285,010 |  | 412,588 |  | 29.42 |  | 14,024 |  |
| 1989 | 462,413.21 |  | 298,266 |  | 239,094 |  | 362,043 |  | 30.23 |  | 11,976 |  |
| 1990 | 664,122.21 |  | 416,717 |  | 334,046 |  | 529,313 |  | 31.04 |  | 17,053 |  |
| 1991 | 742,194.92 |  | 452,516 |  | 362,743 |  | 602,110 |  | 31.86 |  | 18,899 |  |
| 1992 | 351,394.17 |  | 207,927 |  | 166,677 |  | 290,135 |  | 32.69 |  | 8,875 |  |
| 1993 | 2,402,890.16 |  | 1,378,108 |  | 1,104,711 |  | 2,019,046 |  | 33.53 |  | 60,216 |  |
| 1994 | 1,658,396.10 |  | 920,576 |  | 737,947 |  | 1,417,968 |  | 34.38 |  | 41,244 |  |
| 1995 | 1,828,366.90 |  | 981,246 |  | 786,581 |  | 1,590,296 |  | 35.23 |  | 45,140 |  |
| 1996 | 152,900.93 |  | 79,210 |  | 63,496 |  | 135,275 |  | 36.09 |  | 3,748 |  |
| 1997 | 2,884,322.80 |  | 1,439,854 |  | 1,154,208 |  | 2,595,412 |  | 36.96 |  | 70,222 |  |
| 1998 | 463,728.95 |  | 222,650 |  | 178,479 |  | 424,369 |  | 37.84 |  | 11,215 |  |
| 1999 | 505,037.24 |  | 232,858 |  | 186,662 |  | 469,886 |  | 38.72 |  | 12,135 |  |
| 2000 | 1,359,558.18 |  | 600,624 |  | 481,469 |  | 1,285,957 |  | 39.61 |  | 32,465 |  |
| 2001 | 681,040.62 |  | 287,589 |  | 230,535 |  | 654,818 |  | 40.51 |  | 16,164 |  |
| 2002 | 1,288,408.49 |  | 518,944 |  | 415,993 |  | 1,258,938 |  | 41.41 |  | 30,402 |  |
| 2003 | 630,238.33 |  | 241,426 |  | 193,531 |  | 625,779 |  | 42.32 |  | 14,787 |  |
| 2004 | 3,620,807.10 |  | 1,314,820 |  | 1,053,979 |  | 3,653,070 |  | 43.24 |  | 84,484 |  |
| 2005 | 3,783,766.50 |  | 1,298,589 |  | 1,040,967 |  | 3,877,929 |  | 44.16 |  | 87,815 |  |
| 2006 | 2,902,653.03 |  | 938,344 |  | 752,190 |  | 3,021,259 |  | 45.08 |  | 67,020 |  |
| 2007 | 26,300,235.42 |  | 7,966,341 |  | 6,385,933 |  | 27,804,373 |  | 46.02 |  | 604,180 |  |
| 2008 | 3,827,195.42 |  | 1,081,294 |  | 866,781 |  | 4,108,573 |  | 46.96 |  | 87,491 |  |
| 2009 | 2,403,488.39 |  | 630,125 |  | 505,117 |  | 2,619,418 |  | 47.90 |  | 54,685 |  |
| 2010 | 1,981,291.89 |  | 478,639 |  | 383,684 |  | 2,191,995 |  | 48.85 |  | 44,872 |  |
| 2011 | 4,178,221.76 |  | 923,387 |  | 740,200 |  | 4,691,488 |  | 49.80 |  | 94,207 |  |
| 2012 | 4,018,684.63 |  | 805,429 |  | 645,643 |  | 4,578,647 |  | 50.75 |  | 90,220 |  |
| 2013 | 3,952,491.26 |  | 709,950 |  | 569,106 |  | 4,569,133 |  | 51.71 |  | 88,361 |  |
| 2014 | 5,026,795.11 |  | 797,250 |  | 639,087 |  | 5,895,747 |  | 52.68 |  | 111,916 |  |
| 2015 | 3,902,763.68 |  | 537,801 |  | 431,109 |  | 4,642,484 |  | 53.64 |  | 86,549 |  |
| 2016 | 3,714,442.86 |  | 432,996 |  | 347,096 |  | 4,481,680 |  | 54.62 |  | 82,052 |  |
| 2017 | 12,817,152.51 |  | 1,224,679 |  | 981,720 |  | 15,680,578 |  | 55.59 |  | 282,076 |  |
| 2018 | 8,697,878.83 |  | 648,244 |  | 519,642 |  | 10,787,600 |  | 56.56 |  | 190,728 |  |
| 2019 | 9,188,732.06 |  | 489,759 |  | 392,598 |  | 11,552,754 |  | 57.54 |  | 200,778 |  |
| 2020 | 4,858,078.62 |  | 155,803 |  | 124,894 |  | 6,190,608 |  | 58.52 |  | 105,786 |  |
| 2021 | 10,358,346.63 |  | 110,016 |  | 88,190 |  | 13,377,660 |  | 59.51 |  | 224,797 |  |
|  | | | | | | | | | | | | |
|  | 175,262,336.99 |  | 64,620,548 |  | 51,880,548 |  | 175,960,490 |  |  | | 4,425,996 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 39.8 2.53 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 60-R4 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1974 | 96,420.97 |  | 70,033 |  | 73,175 |  | 23,246 |  | 16.42 |  | 1,416 |  |
| 1976 | 276,899.41 |  | 194,430 |  | 203,153 |  | 73,746 |  | 17.87 |  | 4,127 |  |
| 1978 | 42.02 |  | 28 |  | 29 |  | 13 |  | 19.37 |  | 1 |  |
| 1985 | 149,012.69 |  | 86,924 |  | 90,824 |  | 58,189 |  | 25.00 |  | 2,328 |  |
| 1986 | 33,487.58 |  | 19,060 |  | 19,915 |  | 13,573 |  | 25.85 |  | 525 |  |
| 1994 | 191.00 |  | 86 |  | 90 |  | 101 |  | 33.03 |  | 3 |  |
| 1999 | 159.35 |  | 59 |  | 62 |  | 97 |  | 37.76 |  | 3 |  |
| 2000 | 3,229.97 |  | 1,146 |  | 1,197 |  | 2,033 |  | 38.72 |  | 53 |  |
| 2001 | 1,704.88 |  | 577 |  | 603 |  | 1,102 |  | 39.69 |  | 28 |  |
| 2008 | 2,044,339.71 |  | 457,932 |  | 478,476 |  | 1,565,864 |  | 46.56 |  | 33,631 |  |
| 2014 | 381,602.20 |  | 47,635 |  | 49,772 |  | 331,830 |  | 52.51 |  | 6,319 |  |
| 2017 | 12,664.45 |  | 948 |  | 991 |  | 11,673 |  | 55.51 |  | 210 |  |
| 2020 | 107,173.95 |  | 2,679 |  | 2,799 |  | 104,375 |  | 58.50 |  | 1,784 |  |
| 2021 | 417,756.79 |  | 3,480 |  | 3,636 |  | 414,121 |  | 59.50 |  | 6,960 |  |
|  | | | | | | | | | | | | |
|  | 3,524,684.97 |  | 885,017 |  | 924,722 |  | 2,599,963 |  |  | | 57,388 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 45.3 1.63 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 50-S3 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1974 | 142,464.86 |  | 111,465 |  | 97,945 |  | 44,520 |  | 10.88 |  | 4,092 |  |
| 1976 | 77,029.32 |  | 58,912 |  | 51,767 |  | 25,262 |  | 11.76 |  | 2,148 |  |
| 1983 | 4,092.98 |  | 2,831 |  | 2,488 |  | 1,605 |  | 15.42 |  | 104 |  |
| 1984 | 27,484.51 |  | 18,673 |  | 16,408 |  | 11,077 |  | 16.03 |  | 691 |  |
| 1985 | 588,766.12 |  | 392,589 |  | 344,972 |  | 243,794 |  | 16.66 |  | 14,633 |  |
| 1995 | 1,024.64 |  | 529 |  | 465 |  | 560 |  | 24.21 |  | 23 |  |
| 1998 | 1,711.88 |  | 792 |  | 696 |  | 1,016 |  | 26.87 |  | 38 |  |
| 1999 | 229.44 |  | 102 |  | 90 |  | 139 |  | 27.79 |  | 5 |  |
| 2000 | 324.61 |  | 138 |  | 121 |  | 204 |  | 28.72 |  | 7 |  |
| 2004 | 376.94 |  | 131 |  | 115 |  | 262 |  | 32.56 |  | 8 |  |
| 2008 | 1,120,161.38 |  | 302,220 |  | 265,563 |  | 854,598 |  | 36.51 |  | 23,407 |  |
| 2013 | 3,778.04 |  | 642 |  | 564 |  | 3,214 |  | 41.50 |  | 77 |  |
| 2014 | 1,901.52 |  | 285 |  | 250 |  | 1,652 |  | 42.50 |  | 39 |  |
| 2017 | 736,357.89 |  | 66,272 |  | 58,234 |  | 678,124 |  | 45.50 |  | 14,904 |  |
| 2020 | 107,173.95 |  | 3,215 |  | 2,825 |  | 104,349 |  | 48.50 |  | 2,152 |  |
| 2021 | 4,482,508.88 |  | 44,825 |  | 39,389 |  | 4,443,120 |  | 49.50 |  | 89,760 |  |
|  | | | | | | | | | | | | |
|  | 7,295,386.96 |  | 1,003,621 |  | 881,892 |  | 6,413,495 |  |  | | 152,088 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 42.2 2.08 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 75-R4 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1926 | 14,129.99 |  | 13,324 |  | 14,130 |  |  |  |  |  |  |  |
| 1930 | 11,923.00 |  | 11,074 |  | 11,923 |  |  |  |  |  |  |  |
| 1952 | 95.21 |  | 78 |  | 86 |  | 9 |  | 13.86 |  | 1 |  |
| 1953 | 97.00 |  | 78 |  | 86 |  | 11 |  | 14.46 |  | 1 |  |
| 1960 | 114.00 |  | 85 |  | 94 |  | 20 |  | 19.03 |  | 1 |  |
| 1972 | 5,902.51 |  | 3,696 |  | 4,084 |  | 1,819 |  | 28.04 |  | 65 |  |
| 1984 | 94,111.68 |  | 45,926 |  | 50,752 |  | 43,360 |  | 38.40 |  | 1,129 |  |
| 1985 | 788,011.99 |  | 374,881 |  | 414,277 |  | 373,735 |  | 39.32 |  | 9,505 |  |
| 1986 | 848,667.02 |  | 393,332 |  | 434,666 |  | 414,001 |  | 40.24 |  | 10,288 |  |
| 1988 | 33,911.38 |  | 14,876 |  | 16,439 |  | 17,472 |  | 42.10 |  | 415 |  |
| 1990 | 5,257.70 |  | 2,175 |  | 2,404 |  | 2,854 |  | 43.98 |  | 65 |  |
| 1992 | 251.05 |  | 97 |  | 107 |  | 144 |  | 45.88 |  | 3 |  |
| 1993 | 495.95 |  | 186 |  | 206 |  | 290 |  | 46.84 |  | 6 |  |
| 1995 | 5,464.55 |  | 1,911 |  | 2,112 |  | 3,353 |  | 48.77 |  | 69 |  |
| 1996 | 4,170.97 |  | 1,405 |  | 1,553 |  | 2,618 |  | 49.73 |  | 53 |  |
| 1998 | 1,797.17 |  | 559 |  | 618 |  | 1,179 |  | 51.68 |  | 23 |  |
| 2001 | 7,567.17 |  | 2,056 |  | 2,272 |  | 5,295 |  | 54.62 |  | 97 |  |
| 2002 | 3,941.06 |  | 1,019 |  | 1,126 |  | 2,815 |  | 55.60 |  | 51 |  |
| 2003 | 934.96 |  | 230 |  | 254 |  | 681 |  | 56.59 |  | 12 |  |
| 2008 | 45,401.63 |  | 8,148 |  | 9,004 |  | 36,398 |  | 61.54 |  | 591 |  |
| 2012 | 45,252.45 |  | 5,720 |  | 6,321 |  | 38,931 |  | 65.52 |  | 594 |  |
| 2013 | 77,612.62 |  | 8,776 |  | 9,698 |  | 67,915 |  | 66.52 |  | 1,021 |  |
| 2014 | 2,016.43 |  | 201 |  | 222 |  | 1,794 |  | 67.51 |  | 27 |  |
| 2015 | 20,246.20 |  | 1,752 |  | 1,936 |  | 18,310 |  | 68.51 |  | 267 |  |
| 2016 | 34,491.78 |  | 2,525 |  | 2,790 |  | 31,702 |  | 69.51 |  | 456 |  |
| 2018 | 2,078.20 |  | 97 |  | 107 |  | 1,971 |  | 71.50 |  | 28 |  |
| 2019 | 59,258.85 |  | 1,975 |  | 2,183 |  | 57,076 |  | 72.50 |  | 787 |  |
| 2020 | 47,908.30 |  | 958 |  | 1,059 |  | 46,849 |  | 73.50 |  | 637 |  |
| 2021 | 415,090.47 |  | 2,769 |  | 3,060 |  | 412,030 |  | 74.50 |  | 5,531 |  |
|  | | | | | | | | | | | | |
|  | 2,576,201.29 |  | 899,909 |  | 993,569 |  | 1,582,632 |  |  | | 31,723 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 49.9 1.23 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 75-R4 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2009 | 58,251.77 |  | 9,686 |  | 9,353 |  | 48,899 |  | 62.53 |  | 782 |  |
| 2010 | 1,728,577.28 |  | 264,351 |  | 255,274 |  | 1,473,303 |  | 63.53 |  | 23,191 |  |
| 2011 | 146,825.34 |  | 20,516 |  | 19,811 |  | 127,014 |  | 64.52 |  | 1,969 |  |
| 2012 | 1,749.16 |  | 221 |  | 213 |  | 1,536 |  | 65.52 |  | 23 |  |
| 2013 | 268,792.89 |  | 30,392 |  | 29,349 |  | 239,444 |  | 66.52 |  | 3,600 |  |
| 2014 | 112,219.88 |  | 11,207 |  | 10,822 |  | 101,398 |  | 67.51 |  | 1,502 |  |
| 2015 | 219,222.82 |  | 18,969 |  | 18,318 |  | 200,905 |  | 68.51 |  | 2,932 |  |
| 2016 | 7,879.94 |  | 577 |  | 557 |  | 7,323 |  | 69.51 |  | 105 |  |
| 2017 | 81,166.53 |  | 4,859 |  | 4,692 |  | 76,475 |  | 70.51 |  | 1,085 |  |
| 2018 | 103,807.69 |  | 4,845 |  | 4,679 |  | 99,129 |  | 71.50 |  | 1,386 |  |
| 2019 | 1,032,263.88 |  | 34,405 |  | 33,223 |  | 999,041 |  | 72.50 |  | 13,780 |  |
| 2020 | 931.50 |  | 19 |  | 18 |  | 914 |  | 73.50 |  | 12 |  |
| 2021 | 157,550.64 |  | 1,051 |  | 1,016 |  | 156,535 |  | 74.50 |  | 2,101 |  |
|  | | | | | | | | | | | | |
|  | 3,919,239.32 |  | 401,098 |  | 387,325 |  | 3,531,915 |  |  | | 52,468 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 67.3 1.34 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 63-S1 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -15 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1910 | 241.39 |  | 260 |  | 278 |  |  |  |  |  |  |  |
| 1912 | 198,919.47 |  | 212,454 |  | 228,757 |  |  |  |  |  |  |  |
| 1915 | 2,428.35 |  | 2,555 |  | 2,793 |  |  |  |  |  |  |  |
| 1916 | 1,094.00 |  | 1,145 |  | 1,258 |  |  |  |  |  |  |  |
| 1917 | 7,605.83 |  | 7,923 |  | 8,747 |  |  |  |  |  |  |  |
| 1919 | 435.00 |  | 448 |  | 500 |  |  |  |  |  |  |  |
| 1920 | 82.86 |  | 85 |  | 95 |  |  |  |  |  |  |  |
| 1925 | 9,102.51 |  | 9,084 |  | 10,328 |  | 140 |  | 8.33 |  | 17 |  |
| 1926 | 13,523.33 |  | 13,419 |  | 15,257 |  | 295 |  | 8.64 |  | 34 |  |
| 1927 | 11,352.99 |  | 11,201 |  | 12,735 |  | 321 |  | 8.95 |  | 36 |  |
| 1929 | 15,158.53 |  | 14,782 |  | 16,806 |  | 626 |  | 9.58 |  | 65 |  |
| 1930 | 3,506.01 |  | 3,398 |  | 3,863 |  | 169 |  | 9.90 |  | 17 |  |
| 1931 | 6,874.64 |  | 6,623 |  | 7,530 |  | 376 |  | 10.22 |  | 37 |  |
| 1933 | 2,104.45 |  | 2,003 |  | 2,277 |  | 143 |  | 10.86 |  | 13 |  |
| 1934 | 2,578.87 |  | 2,439 |  | 2,773 |  | 193 |  | 11.19 |  | 17 |  |
| 1935 | 142.88 |  | 134 |  | 152 |  | 12 |  | 11.52 |  | 1 |  |
| 1936 | 5,794.72 |  | 5,409 |  | 6,150 |  | 514 |  | 11.86 |  | 43 |  |
| 1937 | 8,299.87 |  | 7,698 |  | 8,752 |  | 793 |  | 12.19 |  | 65 |  |
| 1939 | 41.00 |  | 38 |  | 43 |  | 4 |  | 12.87 |  |  |  |
| 1940 | 1,364.75 |  | 1,240 |  | 1,410 |  | 159 |  | 13.22 |  | 12 |  |
| 1941 | 303.88 |  | 274 |  | 312 |  | 37 |  | 13.57 |  | 3 |  |
| 1942 | 190.86 |  | 171 |  | 194 |  | 25 |  | 13.92 |  | 2 |  |
| 1943 | 2,166.01 |  | 1,927 |  | 2,191 |  | 300 |  | 14.27 |  | 21 |  |
| 1944 | 701.32 |  | 619 |  | 704 |  | 103 |  | 14.63 |  | 7 |  |
| 1945 | 2,256.84 |  | 1,978 |  | 2,249 |  | 346 |  | 14.99 |  | 23 |  |
| 1946 | 358.04 |  | 311 |  | 354 |  | 58 |  | 15.35 |  | 4 |  |
| 1947 | 101.38 |  | 87 |  | 99 |  | 18 |  | 15.72 |  | 1 |  |
| 1948 | 2,456.41 |  | 2,103 |  | 2,391 |  | 434 |  | 16.09 |  | 27 |  |
| 1949 | 9,213.09 |  | 7,827 |  | 8,899 |  | 1,696 |  | 16.46 |  | 103 |  |
| 1950 | 5,262.74 |  | 4,434 |  | 5,041 |  | 1,011 |  | 16.84 |  | 60 |  |
| 1951 | 6,845.87 |  | 5,720 |  | 6,503 |  | 1,370 |  | 17.23 |  | 80 |  |
| 1952 | 2,250.37 |  | 1,865 |  | 2,120 |  | 468 |  | 17.61 |  | 27 |  |
| 1954 | 2,128.87 |  | 1,733 |  | 1,970 |  | 478 |  | 18.40 |  | 26 |  |
| 1955 | 14,130.79 |  | 11,401 |  | 12,962 |  | 3,288 |  | 18.80 |  | 175 |  |
| 1956 | 24,291.57 |  | 19,422 |  | 22,082 |  | 5,853 |  | 19.20 |  | 305 |  |
| 1957 | 9,961.67 |  | 7,890 |  | 8,971 |  | 2,485 |  | 19.61 |  | 127 |  |
| 1958 | 22,207.64 |  | 17,423 |  | 19,809 |  | 5,730 |  | 20.02 |  | 286 |  |
| 1959 | 97.00 |  | 75 |  | 85 |  | 27 |  | 20.44 |  | 1 |  |
| 1960 | 9,667.71 |  | 7,437 |  | 8,456 |  | 2,662 |  | 20.86 |  | 128 |  |
| 1961 | 1,872.98 |  | 1,426 |  | 1,621 |  | 533 |  | 21.28 |  | 25 |  |
| 1962 | 936.52 |  | 706 |  | 803 |  | 274 |  | 21.72 |  | 13 |  |
| 1963 | 6,595.47 |  | 4,918 |  | 5,592 |  | 1,993 |  | 22.15 |  | 90 |  |
| 1965 | 8,936.62 |  | 6,519 |  | 7,412 |  | 2,865 |  | 23.04 |  | 124 |  |
| 1966 | 23,769.73 |  | 17,139 |  | 19,486 |  | 7,849 |  | 23.50 |  | 334 |  |
| 1967 | 9,905.50 |  | 7,059 |  | 8,026 |  | 3,365 |  | 23.96 |  | 140 |  |
| 1968 | 30,878.46 |  | 21,746 |  | 24,724 |  | 10,786 |  | 24.42 |  | 442 |  |
| 1969 | 15,033.07 |  | 10,458 |  | 11,890 |  | 5,398 |  | 24.89 |  | 217 |  |
| 1970 | 19,866.23 |  | 13,646 |  | 15,515 |  | 7,331 |  | 25.37 |  | 289 |  |
| 1971 | 20,291.08 |  | 13,756 |  | 15,640 |  | 7,695 |  | 25.86 |  | 298 |  |
| 1972 | 47,044.81 |  | 31,474 |  | 35,784 |  | 18,318 |  | 26.35 |  | 695 |  |
| 1973 | 49,819.98 |  | 32,875 |  | 37,377 |  | 19,916 |  | 26.85 |  | 742 |  |
| 1974 | 62,477.33 |  | 40,657 |  | 46,225 |  | 25,624 |  | 27.35 |  | 937 |  |
| 1975 | 329,915.28 |  | 211,623 |  | 240,606 |  | 138,797 |  | 27.86 |  | 4,982 |  |
| 1976 | 327,240.16 |  | 206,799 |  | 235,121 |  | 141,205 |  | 28.38 |  | 4,976 |  |
| 1977 | 52,431.48 |  | 32,627 |  | 37,095 |  | 23,201 |  | 28.91 |  | 803 |  |
| 1978 | 147,081.81 |  | 90,103 |  | 102,443 |  | 66,701 |  | 29.44 |  | 2,266 |  |
| 1979 | 134,269.74 |  | 80,906 |  | 91,986 |  | 62,424 |  | 29.99 |  | 2,081 |  |
| 1980 | 833,099.30 |  | 493,633 |  | 561,238 |  | 396,826 |  | 30.54 |  | 12,994 |  |
| 1981 | 102,525.54 |  | 59,701 |  | 67,877 |  | 50,027 |  | 31.10 |  | 1,609 |  |
| 1982 | 591,106.64 |  | 338,160 |  | 384,472 |  | 295,301 |  | 31.66 |  | 9,327 |  |
| 1983 | 262,720.52 |  | 147,514 |  | 167,717 |  | 134,412 |  | 32.24 |  | 4,169 |  |
| 1984 | 5,475.38 |  | 3,015 |  | 3,428 |  | 2,869 |  | 32.83 |  | 87 |  |
| 1985 | 287,009.55 |  | 154,970 |  | 176,194 |  | 153,867 |  | 33.42 |  | 4,604 |  |
| 1986 | 78,566.11 |  | 41,561 |  | 47,253 |  | 43,098 |  | 34.02 |  | 1,267 |  |
| 1987 | 673,046.36 |  | 348,425 |  | 396,143 |  | 377,860 |  | 34.64 |  | 10,908 |  |
| 1988 | 152,970.90 |  | 77,460 |  | 88,068 |  | 87,849 |  | 35.26 |  | 2,491 |  |
| 1989 | 161,125.05 |  | 79,706 |  | 90,622 |  | 94,672 |  | 35.90 |  | 2,637 |  |
| 1990 | 2,372.40 |  | 1,146 |  | 1,303 |  | 1,425 |  | 36.54 |  | 39 |  |
| 1991 | 318,592.69 |  | 150,041 |  | 170,590 |  | 195,792 |  | 37.20 |  | 5,263 |  |
| 1992 | 237,230.89 |  | 108,867 |  | 123,777 |  | 149,039 |  | 37.86 |  | 3,937 |  |
| 1993 | 32,341.13 |  | 14,440 |  | 16,418 |  | 20,774 |  | 38.54 |  | 539 |  |
| 1994 | 85,660.45 |  | 37,168 |  | 42,258 |  | 56,252 |  | 39.23 |  | 1,434 |  |
| 1995 | 318,718.59 |  | 134,218 |  | 152,600 |  | 213,926 |  | 39.93 |  | 5,358 |  |
| 1996 | 146,507.43 |  | 59,798 |  | 67,988 |  | 100,496 |  | 40.64 |  | 2,473 |  |
| 1997 | 202,628.14 |  | 80,004 |  | 90,961 |  | 142,061 |  | 41.37 |  | 3,434 |  |
| 1998 | 124,341.49 |  | 47,438 |  | 53,935 |  | 89,058 |  | 42.10 |  | 2,115 |  |
| 1999 | 1,397,781.22 |  | 514,126 |  | 584,537 |  | 1,022,911 |  | 42.85 |  | 23,872 |  |
| 2000 | 238,679.24 |  | 84,480 |  | 96,050 |  | 178,431 |  | 43.61 |  | 4,092 |  |
| 2001 | 345,646.96 |  | 117,420 |  | 133,501 |  | 263,993 |  | 44.39 |  | 5,947 |  |
| 2002 | 516,615.67 |  | 168,144 |  | 191,172 |  | 402,936 |  | 45.17 |  | 8,920 |  |
| 2003 | 124,467.07 |  | 38,670 |  | 43,966 |  | 99,171 |  | 45.98 |  | 2,157 |  |
| 2004 | 103,046.28 |  | 30,491 |  | 34,667 |  | 83,836 |  | 46.79 |  | 1,792 |  |
| 2005 | 83,137.29 |  | 23,341 |  | 26,538 |  | 69,070 |  | 47.62 |  | 1,450 |  |
| 2006 | 144,267.14 |  | 38,290 |  | 43,534 |  | 122,373 |  | 48.46 |  | 2,525 |  |
| 2007 | 634,390.73 |  | 158,531 |  | 180,242 |  | 549,307 |  | 49.31 |  | 11,140 |  |
| 2008 | 1,427,290.99 |  | 334,005 |  | 379,748 |  | 1,261,637 |  | 50.18 |  | 25,142 |  |
| 2009 | 1,808,377.10 |  | 394,132 |  | 448,110 |  | 1,631,524 |  | 51.06 |  | 31,953 |  |
| 2010 | 467,157.09 |  | 94,230 |  | 107,135 |  | 430,096 |  | 51.95 |  | 8,279 |  |
| 2011 | 3,127,736.50 |  | 578,921 |  | 658,207 |  | 2,938,690 |  | 52.86 |  | 55,594 |  |
| 2012 | 1,463,954.34 |  | 246,657 |  | 280,438 |  | 1,403,109 |  | 53.77 |  | 26,095 |  |
| 2013 | 547,493.58 |  | 82,851 |  | 94,198 |  | 535,420 |  | 54.71 |  | 9,787 |  |
| 2014 | 954,935.38 |  | 128,124 |  | 145,671 |  | 952,505 |  | 55.65 |  | 17,116 |  |
| 2015 | 163,516.49 |  | 19,103 |  | 21,719 |  | 166,325 |  | 56.60 |  | 2,939 |  |
| 2016 | 1,062,198.76 |  | 105,479 |  | 119,925 |  | 1,101,604 |  | 57.56 |  | 19,138 |  |
| 2017 | 3,112,357.30 |  | 253,372 |  | 288,072 |  | 3,291,139 |  | 58.54 |  | 56,220 |  |
| 2018 | 1,757,775.46 |  | 111,664 |  | 126,957 |  | 1,894,485 |  | 59.52 |  | 31,829 |  |
| 2019 | 1,229,909.39 |  | 55,897 |  | 63,552 |  | 1,350,844 |  | 60.51 |  | 22,324 |  |
| 2020 | 1,202,801.34 |  | 32,935 |  | 37,445 |  | 1,345,777 |  | 61.50 |  | 21,883 |  |
| 2021 | 610,626.65 |  | 5,576 |  | 6,340 |  | 695,881 |  | 62.50 |  | 11,134 |  |
|  | | | | | | | | | | | | |
|  | 28,833,810.29 |  | 7,213,176 |  | 8,187,808 |  | 24,971,074 |  |  | | 497,230 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 50.2 1.72 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 43-R1.5 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -10 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1923 | 788.30 |  | 867 |  | 867 |  |  |  |  |  |  |  |
| 1926 | 10,228.41 |  | 11,251 |  | 11,251 |  |  |  |  |  |  |  |
| 1937 | 8,410.83 |  | 9,114 |  | 8,972 |  | 280 |  | 0.64 |  | 280 |  |
| 1939 | 124.66 |  | 133 |  | 131 |  | 6 |  | 1.30 |  | 5 |  |
| 1940 | 183.87 |  | 195 |  | 192 |  | 10 |  | 1.64 |  | 6 |  |
| 1941 | 4,590.34 |  | 4,817 |  | 4,742 |  | 307 |  | 1.98 |  | 155 |  |
| 1942 | 2,460.29 |  | 2,561 |  | 2,521 |  | 185 |  | 2.31 |  | 80 |  |
| 1943 | 1,893.57 |  | 1,956 |  | 1,925 |  | 158 |  | 2.61 |  | 61 |  |
| 1944 | 25,260.06 |  | 25,919 |  | 25,514 |  | 2,272 |  | 2.89 |  | 786 |  |
| 1945 | 60,591.97 |  | 61,784 |  | 60,820 |  | 5,831 |  | 3.14 |  | 1,857 |  |
| 1946 | 1,797.02 |  | 1,822 |  | 1,794 |  | 183 |  | 3.37 |  | 54 |  |
| 1947 | 1,490.52 |  | 1,503 |  | 1,480 |  | 160 |  | 3.59 |  | 45 |  |
| 1948 | 1,743.30 |  | 1,747 |  | 1,720 |  | 198 |  | 3.82 |  | 52 |  |
| 1949 | 46,233.60 |  | 46,079 |  | 45,360 |  | 5,497 |  | 4.04 |  | 1,361 |  |
| 1950 | 2,340.82 |  | 2,319 |  | 2,283 |  | 292 |  | 4.28 |  | 68 |  |
| 1951 | 183,383.64 |  | 180,517 |  | 177,699 |  | 24,023 |  | 4.52 |  | 5,315 |  |
| 1952 | 14,120.36 |  | 13,813 |  | 13,597 |  | 1,935 |  | 4.76 |  | 407 |  |
| 1953 | 34,305.29 |  | 33,331 |  | 32,811 |  | 4,925 |  | 5.02 |  | 981 |  |
| 1954 | 3,743.13 |  | 3,612 |  | 3,556 |  | 561 |  | 5.28 |  | 106 |  |
| 1955 | 22,540.86 |  | 21,595 |  | 21,258 |  | 3,537 |  | 5.55 |  | 637 |  |
| 1956 | 80,070.53 |  | 76,156 |  | 74,967 |  | 13,111 |  | 5.82 |  | 2,253 |  |
| 1957 | 215,438.48 |  | 203,364 |  | 200,190 |  | 36,792 |  | 6.10 |  | 6,031 |  |
| 1958 | 54,538.74 |  | 51,078 |  | 50,281 |  | 9,712 |  | 6.39 |  | 1,520 |  |
| 1959 | 11,561.27 |  | 10,742 |  | 10,574 |  | 2,143 |  | 6.68 |  | 321 |  |
| 1960 | 107,969.93 |  | 99,516 |  | 97,963 |  | 20,804 |  | 6.97 |  | 2,985 |  |
| 1961 | 12,034.57 |  | 11,000 |  | 10,828 |  | 2,410 |  | 7.27 |  | 331 |  |
| 1962 | 13,397.96 |  | 12,143 |  | 11,953 |  | 2,785 |  | 7.57 |  | 368 |  |
| 1963 | 97,325.56 |  | 87,439 |  | 86,074 |  | 20,984 |  | 7.88 |  | 2,663 |  |
| 1964 | 20,642.11 |  | 18,376 |  | 18,089 |  | 4,617 |  | 8.20 |  | 563 |  |
| 1965 | 27,570.84 |  | 24,319 |  | 23,939 |  | 6,389 |  | 8.52 |  | 750 |  |
| 1966 | 43,585.38 |  | 38,077 |  | 37,483 |  | 10,461 |  | 8.85 |  | 1,182 |  |
| 1967 | 79,821.41 |  | 69,038 |  | 67,960 |  | 19,844 |  | 9.19 |  | 2,159 |  |
| 1968 | 305,709.63 |  | 261,673 |  | 257,588 |  | 78,693 |  | 9.54 |  | 8,249 |  |
| 1969 | 142,125.79 |  | 120,381 |  | 118,502 |  | 37,836 |  | 9.89 |  | 3,826 |  |
| 1970 | 180,589.71 |  | 151,251 |  | 148,890 |  | 49,759 |  | 10.26 |  | 4,850 |  |
| 1971 | 191,485.27 |  | 158,515 |  | 156,041 |  | 54,593 |  | 10.64 |  | 5,131 |  |
| 1972 | 373,624.27 |  | 305,659 |  | 300,888 |  | 110,099 |  | 11.02 |  | 9,991 |  |
| 1973 | 138,777.64 |  | 112,113 |  | 110,363 |  | 42,292 |  | 11.42 |  | 3,703 |  |
| 1974 | 436,028.09 |  | 347,675 |  | 342,248 |  | 137,383 |  | 11.83 |  | 11,613 |  |
| 1975 | 1,266,298.52 |  | 996,111 |  | 980,562 |  | 412,366 |  | 12.25 |  | 33,663 |  |
| 1976 | 1,397,979.37 |  | 1,083,948 |  | 1,067,028 |  | 470,749 |  | 12.69 |  | 37,096 |  |
| 1977 | 674,331.23 |  | 515,267 |  | 507,224 |  | 234,540 |  | 13.13 |  | 17,863 |  |
| 1978 | 1,086,719.67 |  | 817,588 |  | 804,826 |  | 390,566 |  | 13.59 |  | 28,739 |  |
| 1979 | 2,112,591.37 |  | 1,563,998 |  | 1,539,585 |  | 784,266 |  | 14.06 |  | 55,780 |  |
| 1980 | 3,457,275.80 |  | 2,517,056 |  | 2,477,766 |  | 1,325,237 |  | 14.54 |  | 91,144 |  |
| 1981 | 1,037,569.79 |  | 742,125 |  | 730,541 |  | 410,786 |  | 15.04 |  | 27,313 |  |
| 1982 | 2,953,075.33 |  | 2,074,417 |  | 2,042,037 |  | 1,206,346 |  | 15.54 |  | 77,628 |  |
| 1983 | 1,719,796.63 |  | 1,185,217 |  | 1,166,717 |  | 725,059 |  | 16.06 |  | 45,147 |  |
| 1984 | 161,449.18 |  | 109,077 |  | 107,374 |  | 70,220 |  | 16.59 |  | 4,233 |  |
| 1985 | 1,224,293.68 |  | 810,229 |  | 797,582 |  | 549,141 |  | 17.13 |  | 32,057 |  |
| 1986 | 1,422,061.61 |  | 920,728 |  | 906,356 |  | 657,912 |  | 17.69 |  | 37,191 |  |
| 1987 | 2,043,022.42 |  | 1,293,515 |  | 1,273,324 |  | 974,001 |  | 18.25 |  | 53,370 |  |
| 1988 | 672,684.55 |  | 415,920 |  | 409,428 |  | 330,525 |  | 18.83 |  | 17,553 |  |
| 1989 | 675,061.41 |  | 407,202 |  | 400,846 |  | 341,722 |  | 19.42 |  | 17,596 |  |
| 1990 | 826,680.45 |  | 486,183 |  | 478,594 |  | 430,754 |  | 20.01 |  | 21,527 |  |
| 1991 | 2,221,316.33 |  | 1,271,741 |  | 1,251,890 |  | 1,191,558 |  | 20.62 |  | 57,787 |  |
| 1992 | 1,158,031.28 |  | 644,624 |  | 634,562 |  | 639,272 |  | 21.24 |  | 30,098 |  |
| 1993 | 671,331.86 |  | 362,882 |  | 357,218 |  | 381,247 |  | 21.87 |  | 17,432 |  |
| 1994 | 1,140,468.20 |  | 597,789 |  | 588,458 |  | 666,057 |  | 22.51 |  | 29,589 |  |
| 1995 | 1,479,278.29 |  | 750,793 |  | 739,074 |  | 888,132 |  | 23.16 |  | 38,348 |  |
| 1996 | 1,073,818.07 |  | 526,874 |  | 518,650 |  | 662,550 |  | 23.82 |  | 27,815 |  |
| 1997 | 1,725,528.02 |  | 817,067 |  | 804,313 |  | 1,093,768 |  | 24.49 |  | 44,662 |  |
| 1998 | 3,137,701.75 |  | 1,431,153 |  | 1,408,814 |  | 2,042,658 |  | 25.17 |  | 81,154 |  |
| 1999 | 4,214,681.78 |  | 1,849,082 |  | 1,820,219 |  | 2,815,931 |  | 25.85 |  | 108,934 |  |
| 2000 | 2,771,471.20 |  | 1,166,981 |  | 1,148,765 |  | 1,899,853 |  | 26.54 |  | 71,585 |  |
| 2001 | 1,493,502.23 |  | 601,744 |  | 592,351 |  | 1,050,501 |  | 27.25 |  | 38,550 |  |
| 2002 | 1,369,185.05 |  | 527,136 |  | 518,908 |  | 987,196 |  | 27.95 |  | 35,320 |  |
| 2003 | 2,668,251.07 |  | 978,143 |  | 962,875 |  | 1,972,201 |  | 28.67 |  | 68,790 |  |
| 2004 | 3,577,555.82 |  | 1,245,565 |  | 1,226,123 |  | 2,709,188 |  | 29.39 |  | 92,181 |  |
| 2005 | 4,072,408.63 |  | 1,341,789 |  | 1,320,844 |  | 3,158,805 |  | 30.12 |  | 104,874 |  |
| 2006 | 3,777,782.61 |  | 1,173,240 |  | 1,154,926 |  | 3,000,635 |  | 30.86 |  | 97,234 |  |
| 2007 | 2,520,496.35 |  | 735,057 |  | 723,583 |  | 2,048,963 |  | 31.60 |  | 64,841 |  |
| 2008 | 5,211,309.64 |  | 1,419,754 |  | 1,397,593 |  | 4,334,848 |  | 32.35 |  | 133,998 |  |
| 2009 | 7,340,821.60 |  | 1,857,228 |  | 1,828,238 |  | 6,246,666 |  | 33.11 |  | 188,664 |  |
| 2010 | 4,886,109.80 |  | 1,141,214 |  | 1,123,400 |  | 4,251,321 |  | 33.87 |  | 125,519 |  |
| 2011 | 10,592,907.25 |  | 2,268,100 |  | 2,232,696 |  | 9,419,502 |  | 34.63 |  | 272,004 |  |
| 2012 | 4,685,925.52 |  | 911,010 |  | 896,790 |  | 4,257,728 |  | 35.40 |  | 120,275 |  |
| 2013 | 2,050,465.68 |  | 357,724 |  | 352,140 |  | 1,903,372 |  | 36.18 |  | 52,608 |  |
| 2014 | 10,508,475.82 |  | 1,623,738 |  | 1,598,393 |  | 9,960,930 |  | 36.96 |  | 269,506 |  |
| 2015 | 5,520,834.36 |  | 741,443 |  | 729,870 |  | 5,343,048 |  | 37.75 |  | 141,538 |  |
| 2016 | 5,046,287.46 |  | 575,741 |  | 566,754 |  | 4,984,162 |  | 38.54 |  | 129,324 |  |
| 2017 | 4,209,233.29 |  | 394,119 |  | 387,967 |  | 4,242,190 |  | 39.34 |  | 107,834 |  |
| 2018 | 8,888,136.82 |  | 650,265 |  | 640,115 |  | 9,136,836 |  | 40.14 |  | 227,624 |  |
| 2019 | 14,317,882.49 |  | 750,787 |  | 739,067 |  | 15,010,604 |  | 40.95 |  | 366,559 |  |
| 2020 | 9,199,779.98 |  | 289,425 |  | 284,907 |  | 9,834,851 |  | 41.77 |  | 235,453 |  |
| 2021 | 5,315,079.73 |  | 55,718 |  | 54,849 |  | 5,791,739 |  | 42.59 |  | 135,988 |  |
|  | | | | | | | | | | | | |
|  | 162,535,477.01 |  | 47,579,957 |  | 46,837,456 |  | 131,951,569 |  |  | | 4,194,733 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 31.5 2.58 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 63-R3 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -60 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1946 | 3,711.01 |  | 5,189 |  | 4,346 |  | 1,592 |  | 7.94 |  | 201 |  |
| 1947 | 24,496.26 |  | 34,062 |  | 28,529 |  | 10,665 |  | 8.25 |  | 1,293 |  |
| 1948 | 28,574.53 |  | 39,500 |  | 33,084 |  | 12,635 |  | 8.57 |  | 1,474 |  |
| 1949 | 69,047.82 |  | 94,869 |  | 79,459 |  | 31,018 |  | 8.90 |  | 3,485 |  |
| 1950 | 61,616.61 |  | 84,111 |  | 70,449 |  | 28,138 |  | 9.25 |  | 3,042 |  |
| 1951 | 87,249.30 |  | 118,327 |  | 99,107 |  | 40,492 |  | 9.60 |  | 4,218 |  |
| 1952 | 100,223.52 |  | 134,981 |  | 113,056 |  | 47,302 |  | 9.97 |  | 4,744 |  |
| 1953 | 125,138.51 |  | 167,327 |  | 140,148 |  | 60,074 |  | 10.35 |  | 5,804 |  |
| 1954 | 134,752.44 |  | 178,815 |  | 149,770 |  | 65,834 |  | 10.75 |  | 6,124 |  |
| 1955 | 173,052.12 |  | 227,836 |  | 190,828 |  | 86,055 |  | 11.16 |  | 7,711 |  |
| 1956 | 254,306.61 |  | 332,100 |  | 278,156 |  | 128,735 |  | 11.58 |  | 11,117 |  |
| 1957 | 230,609.58 |  | 298,579 |  | 250,080 |  | 118,895 |  | 12.02 |  | 9,891 |  |
| 1958 | 199,745.51 |  | 256,281 |  | 214,653 |  | 104,940 |  | 12.48 |  | 8,409 |  |
| 1959 | 223,875.32 |  | 284,569 |  | 238,346 |  | 119,855 |  | 12.95 |  | 9,255 |  |
| 1960 | 178,301.02 |  | 224,468 |  | 188,007 |  | 97,275 |  | 13.43 |  | 7,243 |  |
| 1961 | 423,405.77 |  | 527,658 |  | 441,950 |  | 235,499 |  | 13.93 |  | 16,906 |  |
| 1962 | 285,438.37 |  | 351,948 |  | 294,781 |  | 161,920 |  | 14.45 |  | 11,206 |  |
| 1963 | 295,467.67 |  | 360,338 |  | 301,808 |  | 170,940 |  | 14.98 |  | 11,411 |  |
| 1964 | 284,189.47 |  | 342,687 |  | 287,024 |  | 167,679 |  | 15.52 |  | 10,804 |  |
| 1965 | 444,500.99 |  | 529,674 |  | 443,638 |  | 267,564 |  | 16.08 |  | 16,640 |  |
| 1966 | 378,228.96 |  | 445,136 |  | 372,832 |  | 232,334 |  | 16.66 |  | 13,946 |  |
| 1967 | 503,755.36 |  | 585,444 |  | 490,349 |  | 315,660 |  | 17.24 |  | 18,310 |  |
| 1968 | 456,767.69 |  | 523,880 |  | 438,785 |  | 292,043 |  | 17.84 |  | 16,370 |  |
| 1969 | 663,075.80 |  | 750,050 |  | 628,218 |  | 432,703 |  | 18.46 |  | 23,440 |  |
| 1970 | 825,683.50 |  | 920,776 |  | 771,213 |  | 549,881 |  | 19.09 |  | 28,805 |  |
| 1971 | 1,135,607.30 |  | 1,247,951 |  | 1,045,244 |  | 771,728 |  | 19.73 |  | 39,114 |  |
| 1972 | 1,001,500.01 |  | 1,084,040 |  | 907,958 |  | 694,442 |  | 20.38 |  | 34,075 |  |
| 1973 | 1,730,653.25 |  | 1,843,824 |  | 1,544,329 |  | 1,224,716 |  | 21.05 |  | 58,181 |  |
| 1974 | 1,140,947.29 |  | 1,196,151 |  | 1,001,858 |  | 823,658 |  | 21.72 |  | 37,922 |  |
| 1975 | 1,935,218.33 |  | 1,994,947 |  | 1,670,905 |  | 1,425,444 |  | 22.41 |  | 63,607 |  |
| 1976 | 2,234,718.36 |  | 2,263,931 |  | 1,896,197 |  | 1,679,352 |  | 23.11 |  | 72,668 |  |
| 1977 | 2,574,511.82 |  | 2,561,742 |  | 2,145,634 |  | 1,973,585 |  | 23.82 |  | 82,854 |  |
| 1978 | 2,907,975.11 |  | 2,840,417 |  | 2,379,044 |  | 2,273,716 |  | 24.54 |  | 92,653 |  |
| 1979 | 3,953,781.78 |  | 3,788,609 |  | 3,173,219 |  | 3,152,832 |  | 25.27 |  | 124,766 |  |
| 1980 | 3,318,783.35 |  | 3,117,745 |  | 2,611,325 |  | 2,698,728 |  | 26.01 |  | 103,757 |  |
| 1981 | 4,003,379.39 |  | 3,684,646 |  | 3,086,143 |  | 3,319,264 |  | 26.76 |  | 124,038 |  |
| 1982 | 2,869,484.28 |  | 2,586,347 |  | 2,166,242 |  | 2,424,933 |  | 27.51 |  | 88,147 |  |
| 1983 | 3,246,423.99 |  | 2,862,619 |  | 2,397,639 |  | 2,796,639 |  | 28.28 |  | 98,891 |  |
| 1984 | 3,659,329.42 |  | 3,154,225 |  | 2,641,879 |  | 3,213,048 |  | 29.06 |  | 110,566 |  |
| 1985 | 4,597,862.66 |  | 3,872,136 |  | 3,243,179 |  | 4,113,401 |  | 29.84 |  | 137,849 |  |
| 1986 | 3,847,831.24 |  | 3,163,287 |  | 2,649,469 |  | 3,507,061 |  | 30.63 |  | 114,498 |  |
| 1987 | 2,880,192.97 |  | 2,308,532 |  | 1,933,553 |  | 2,674,756 |  | 31.44 |  | 85,075 |  |
| 1988 | 2,786,982.38 |  | 2,176,522 |  | 1,822,986 |  | 2,636,186 |  | 32.25 |  | 81,742 |  |
| 1989 | 2,520,855.16 |  | 1,916,818 |  | 1,605,466 |  | 2,427,902 |  | 33.06 |  | 73,439 |  |
| 1990 | 2,427,787.53 |  | 1,794,854 |  | 1,503,313 |  | 2,381,147 |  | 33.89 |  | 70,261 |  |
| 1991 | 3,031,272.13 |  | 2,177,132 |  | 1,823,497 |  | 3,026,538 |  | 34.72 |  | 87,170 |  |
| 1992 | 3,667,811.66 |  | 2,556,083 |  | 2,140,894 |  | 3,727,605 |  | 35.56 |  | 104,826 |  |
| 1993 | 3,995,472.63 |  | 2,698,127 |  | 2,259,866 |  | 4,132,890 |  | 36.41 |  | 113,510 |  |
| 1994 | 4,814,665.14 |  | 3,146,172 |  | 2,635,134 |  | 5,068,330 |  | 37.27 |  | 135,990 |  |
| 1995 | 11,169,196.88 |  | 7,054,643 |  | 5,908,746 |  | 11,961,969 |  | 38.13 |  | 313,715 |  |
| 1996 | 7,949,959.66 |  | 4,845,659 |  | 4,058,571 |  | 8,661,364 |  | 39.00 |  | 222,086 |  |
| 1997 | 7,047,432.31 |  | 4,138,027 |  | 3,465,881 |  | 7,810,011 |  | 39.88 |  | 195,838 |  |
| 1998 | 7,283,609.02 |  | 4,112,151 |  | 3,444,208 |  | 8,209,566 |  | 40.77 |  | 201,363 |  |
| 1999 | 7,160,101.51 |  | 3,880,546 |  | 3,250,223 |  | 8,205,939 |  | 41.66 |  | 196,974 |  |
| 2000 | 7,702,928.61 |  | 4,000,593 |  | 3,350,770 |  | 8,973,916 |  | 42.55 |  | 210,903 |  |
| 2001 | 6,317,482.77 |  | 3,135,089 |  | 2,625,851 |  | 7,482,121 |  | 43.46 |  | 172,161 |  |
| 2002 | 4,417,790.88 |  | 2,090,216 |  | 1,750,699 |  | 5,317,766 |  | 44.37 |  | 119,850 |  |
| 2003 | 5,892,297.35 |  | 2,651,722 |  | 2,220,999 |  | 7,206,677 |  | 45.28 |  | 159,158 |  |
| 2004 | 6,789,589.04 |  | 2,896,928 |  | 2,426,375 |  | 8,436,967 |  | 46.20 |  | 182,618 |  |
| 2005 | 6,036,005.21 |  | 2,432,752 |  | 2,037,596 |  | 7,620,012 |  | 47.13 |  | 161,681 |  |
| 2006 | 7,979,223.16 |  | 3,027,509 |  | 2,535,746 |  | 10,231,011 |  | 48.06 |  | 212,880 |  |
| 2007 | 10,302,928.29 |  | 3,663,227 |  | 3,068,203 |  | 13,416,482 |  | 49.00 |  | 273,806 |  |
| 2008 | 11,380,314.04 |  | 3,774,623 |  | 3,161,505 |  | 15,046,997 |  | 49.94 |  | 301,302 |  |
| 2009 | 17,540,915.88 |  | 5,399,234 |  | 4,522,228 |  | 23,543,237 |  | 50.88 |  | 462,721 |  |
| 2010 | 14,503,542.04 |  | 4,110,652 |  | 3,442,952 |  | 19,762,715 |  | 51.84 |  | 381,225 |  |
| 2011 | 15,787,509.39 |  | 4,093,638 |  | 3,428,702 |  | 21,831,313 |  | 52.79 |  | 413,550 |  |
| 2012 | 18,671,542.32 |  | 4,386,468 |  | 3,673,967 |  | 26,200,501 |  | 53.75 |  | 487,451 |  |
| 2013 | 34,045,813.12 |  | 7,168,142 |  | 6,003,809 |  | 48,469,492 |  | 54.71 |  | 885,935 |  |
| 2014 | 25,441,305.89 |  | 4,736,154 |  | 3,966,853 |  | 36,739,236 |  | 55.67 |  | 659,947 |  |
| 2015 | 29,493,654.46 |  | 4,763,815 |  | 3,990,021 |  | 43,199,826 |  | 56.64 |  | 762,709 |  |
| 2016 | 15,642,961.95 |  | 2,141,459 |  | 1,793,618 |  | 23,235,121 |  | 57.61 |  | 403,317 |  |
| 2017 | 34,098,622.12 |  | 3,819,046 |  | 3,198,712 |  | 51,359,083 |  | 58.59 |  | 876,584 |  |
| 2018 | 23,980,094.19 |  | 2,094,901 |  | 1,754,623 |  | 36,613,528 |  | 59.56 |  | 614,734 |  |
| 2019 | 22,653,817.66 |  | 1,415,411 |  | 1,185,504 |  | 35,060,604 |  | 60.54 |  | 579,131 |  |
| 2020 | 24,143,848.04 |  | 907,422 |  | 760,028 |  | 37,870,129 |  | 61.52 |  | 615,574 |  |
| 2021 | 37,508,244.78 |  | 466,903 |  | 391,063 |  | 59,622,128 |  | 62.51 |  | 953,801 |  |
|  | | | | | | | | | | | | |
|  | 497,678,991.49 |  | 165,062,392 |  | 138,251,042 |  | 658,035,344 |  |  | | 13,408,462 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 49.1 2.69 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 65-R3 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -55 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1940 | 30,355.03 |  | 41,882 |  | 38,956 |  | 8,094 |  | 7.14 |  | 1,134 |  |
| 1941 | 49,204.66 |  | 67,549 |  | 62,830 |  | 13,437 |  | 7.43 |  | 1,808 |  |
| 1942 | 77,935.42 |  | 106,471 |  | 99,033 |  | 21,767 |  | 7.71 |  | 2,823 |  |
| 1943 | 42,161.38 |  | 57,297 |  | 53,294 |  | 12,056 |  | 8.01 |  | 1,505 |  |
| 1944 | 69,041.64 |  | 93,333 |  | 86,813 |  | 20,202 |  | 8.31 |  | 2,431 |  |
| 1945 | 60,550.42 |  | 81,392 |  | 75,706 |  | 18,147 |  | 8.63 |  | 2,103 |  |
| 1946 | 135,718.77 |  | 181,399 |  | 168,727 |  | 41,637 |  | 8.95 |  | 4,652 |  |
| 1947 | 182,366.81 |  | 242,270 |  | 225,345 |  | 57,324 |  | 9.29 |  | 6,171 |  |
| 1948 | 227,380.44 |  | 300,226 |  | 279,253 |  | 73,187 |  | 9.63 |  | 7,600 |  |
| 1949 | 315,971.89 |  | 414,486 |  | 385,531 |  | 104,225 |  | 9.99 |  | 10,433 |  |
| 1950 | 186,686.21 |  | 243,245 |  | 226,252 |  | 63,112 |  | 10.36 |  | 6,092 |  |
| 1951 | 324,037.71 |  | 419,195 |  | 389,911 |  | 112,347 |  | 10.75 |  | 10,451 |  |
| 1952 | 344,693.48 |  | 442,625 |  | 411,704 |  | 122,571 |  | 11.15 |  | 10,993 |  |
| 1953 | 377,087.76 |  | 480,535 |  | 446,966 |  | 137,520 |  | 11.56 |  | 11,896 |  |
| 1954 | 3,221.90 |  | 4,073 |  | 3,788 |  | 1,206 |  | 11.99 |  | 101 |  |
| 1955 | 398,011.15 |  | 498,944 |  | 464,088 |  | 152,829 |  | 12.43 |  | 12,295 |  |
| 1956 | 678,094.21 |  | 842,781 |  | 783,906 |  | 267,140 |  | 12.88 |  | 20,741 |  |
| 1957 | 450,146.21 |  | 554,428 |  | 515,696 |  | 182,031 |  | 13.35 |  | 13,635 |  |
| 1958 | 373,020.16 |  | 455,075 |  | 423,284 |  | 154,897 |  | 13.84 |  | 11,192 |  |
| 1959 | 292,398.58 |  | 353,301 |  | 328,620 |  | 124,598 |  | 14.33 |  | 8,695 |  |
| 1960 | 235,476.62 |  | 281,603 |  | 261,931 |  | 103,058 |  | 14.85 |  | 6,940 |  |
| 1961 | 538,526.86 |  | 637,206 |  | 592,692 |  | 242,025 |  | 15.38 |  | 15,736 |  |
| 1962 | 286,345.84 |  | 335,132 |  | 311,720 |  | 132,116 |  | 15.92 |  | 8,299 |  |
| 1963 | 326,630.50 |  | 377,916 |  | 351,515 |  | 154,762 |  | 16.48 |  | 9,391 |  |
| 1964 | 266,471.25 |  | 304,688 |  | 283,403 |  | 129,627 |  | 17.05 |  | 7,603 |  |
| 1965 | 442,405.56 |  | 499,738 |  | 464,827 |  | 220,902 |  | 17.63 |  | 12,530 |  |
| 1966 | 356,442.13 |  | 397,535 |  | 369,764 |  | 182,721 |  | 18.23 |  | 10,023 |  |
| 1967 | 312,565.27 |  | 344,051 |  | 320,016 |  | 164,460 |  | 18.84 |  | 8,729 |  |
| 1968 | 316,415.92 |  | 343,615 |  | 319,611 |  | 170,834 |  | 19.46 |  | 8,779 |  |
| 1969 | 417,933.12 |  | 447,478 |  | 416,218 |  | 231,578 |  | 20.10 |  | 11,521 |  |
| 1970 | 792,804.94 |  | 836,563 |  | 778,122 |  | 450,726 |  | 20.75 |  | 21,722 |  |
| 1971 | 893,304.11 |  | 928,555 |  | 863,687 |  | 520,934 |  | 21.41 |  | 24,331 |  |
| 1972 | 768,266.89 |  | 786,306 |  | 731,376 |  | 459,438 |  | 22.08 |  | 20,808 |  |
| 1973 | 1,325,884.16 |  | 1,335,520 |  | 1,242,222 |  | 812,898 |  | 22.76 |  | 35,716 |  |
| 1974 | 1,169,621.87 |  | 1,158,869 |  | 1,077,912 |  | 735,002 |  | 23.45 |  | 31,343 |  |
| 1975 | 1,537,582.41 |  | 1,497,422 |  | 1,392,814 |  | 990,439 |  | 24.16 |  | 40,995 |  |
| 1976 | 1,598,641.83 |  | 1,529,803 |  | 1,422,933 |  | 1,054,962 |  | 24.87 |  | 42,419 |  |
| 1977 | 1,457,255.30 |  | 1,369,500 |  | 1,273,829 |  | 984,917 |  | 25.59 |  | 38,488 |  |
| 1978 | 1,971,581.97 |  | 1,818,047 |  | 1,691,041 |  | 1,364,911 |  | 26.33 |  | 51,839 |  |
| 1979 | 2,039,269.70 |  | 1,844,493 |  | 1,715,639 |  | 1,445,229 |  | 27.07 |  | 53,389 |  |
| 1980 | 2,234,997.24 |  | 1,981,549 |  | 1,843,121 |  | 1,621,125 |  | 27.82 |  | 58,272 |  |
| 1981 | 2,203,409.66 |  | 1,913,618 |  | 1,779,935 |  | 1,635,350 |  | 28.58 |  | 57,220 |  |
| 1982 | 2,253,482.44 |  | 1,915,715 |  | 1,781,886 |  | 1,711,012 |  | 29.35 |  | 58,297 |  |
| 1983 | 2,547,440.79 |  | 2,118,230 |  | 1,970,254 |  | 1,978,279 |  | 30.13 |  | 65,658 |  |
| 1984 | 2,830,502.61 |  | 2,300,952 |  | 2,140,211 |  | 2,247,068 |  | 30.91 |  | 72,697 |  |
| 1985 | 3,653,264.63 |  | 2,900,080 |  | 2,697,485 |  | 2,965,075 |  | 31.71 |  | 93,506 |  |
| 1986 | 4,056,177.30 |  | 3,142,594 |  | 2,923,057 |  | 3,364,018 |  | 32.51 |  | 103,476 |  |
| 1987 | 2,317,369.12 |  | 1,750,631 |  | 1,628,334 |  | 1,963,588 |  | 33.32 |  | 58,931 |  |
| 1988 | 151,446.18 |  | 111,448 |  | 103,662 |  | 131,080 |  | 34.14 |  | 3,839 |  |
| 1989 | 3,458,977.33 |  | 2,477,778 |  | 2,304,684 |  | 3,056,731 |  | 34.96 |  | 87,435 |  |
| 1990 | 3,065,889.92 |  | 2,134,799 |  | 1,985,665 |  | 2,766,464 |  | 35.80 |  | 77,276 |  |
| 1991 | 2,665,173.67 |  | 1,802,405 |  | 1,676,492 |  | 2,454,527 |  | 36.64 |  | 66,990 |  |
| 1992 | 1,953,063.96 |  | 1,281,223 |  | 1,191,719 |  | 1,835,530 |  | 37.49 |  | 48,961 |  |
| 1993 | 2,924,701.61 |  | 1,859,328 |  | 1,729,438 |  | 2,803,849 |  | 38.34 |  | 73,131 |  |
| 1994 | 2,082,559.61 |  | 1,280,761 |  | 1,191,289 |  | 2,036,678 |  | 39.21 |  | 51,943 |  |
| 1995 | 8,584,371.21 |  | 5,101,168 |  | 4,744,808 |  | 8,560,967 |  | 40.08 |  | 213,597 |  |
| 1996 | 4,452,456.74 |  | 2,553,484 |  | 2,375,101 |  | 4,526,207 |  | 40.95 |  | 110,530 |  |
| 1997 | 3,885,833.32 |  | 2,146,973 |  | 1,996,989 |  | 4,026,053 |  | 41.83 |  | 96,248 |  |
| 1998 | 4,152,490.97 |  | 2,206,191 |  | 2,052,070 |  | 4,384,291 |  | 42.72 |  | 102,629 |  |
| 1999 | 4,938,442.44 |  | 2,517,746 |  | 2,341,860 |  | 5,312,726 |  | 43.62 |  | 121,796 |  |
| 2000 | 5,762,074.87 |  | 2,814,048 |  | 2,617,463 |  | 6,313,753 |  | 44.52 |  | 141,818 |  |
| 2001 | 3,909,803.36 |  | 1,824,604 |  | 1,697,140 |  | 4,363,055 |  | 45.43 |  | 96,039 |  |
| 2002 | 2,664,581.42 |  | 1,185,669 |  | 1,102,840 |  | 3,027,261 |  | 46.34 |  | 65,327 |  |
| 2003 | 3,839,919.59 |  | 1,624,386 |  | 1,510,909 |  | 4,440,966 |  | 47.26 |  | 93,969 |  |
| 2004 | 3,627,635.06 |  | 1,455,021 |  | 1,353,375 |  | 4,269,459 |  | 48.18 |  | 88,615 |  |
| 2005 | 2,844,159.73 |  | 1,077,689 |  | 1,002,403 |  | 3,406,045 |  | 49.11 |  | 69,355 |  |
| 2006 | 4,221,664.94 |  | 1,505,024 |  | 1,399,885 |  | 5,143,696 |  | 50.05 |  | 102,771 |  |
| 2007 | 5,946,918.31 |  | 1,986,788 |  | 1,847,994 |  | 7,369,729 |  | 50.99 |  | 144,533 |  |
| 2008 | 8,224,664.54 |  | 2,563,414 |  | 2,384,337 |  | 10,363,893 |  | 51.93 |  | 199,574 |  |
| 2009 | 9,948,095.11 |  | 2,875,129 |  | 2,674,276 |  | 12,745,271 |  | 52.88 |  | 241,023 |  |
| 2010 | 11,353,205.60 |  | 3,024,125 |  | 2,812,864 |  | 14,784,605 |  | 53.83 |  | 274,654 |  |
| 2011 | 14,074,329.94 |  | 3,430,006 |  | 3,190,391 |  | 18,624,820 |  | 54.78 |  | 339,993 |  |
| 2012 | 11,074,953.36 |  | 2,445,494 |  | 2,274,655 |  | 14,891,523 |  | 55.74 |  | 267,160 |  |
| 2013 | 16,980,820.95 |  | 3,356,888 |  | 3,122,380 |  | 23,197,892 |  | 56.71 |  | 409,062 |  |
| 2014 | 9,480,311.89 |  | 1,657,097 |  | 1,541,335 |  | 13,153,148 |  | 57.67 |  | 228,076 |  |
| 2015 | 13,657,881.96 |  | 2,071,457 |  | 1,926,748 |  | 19,242,969 |  | 58.64 |  | 328,154 |  |
| 2016 | 15,295,808.42 |  | 1,965,909 |  | 1,828,573 |  | 21,879,930 |  | 59.61 |  | 367,051 |  |
| 2017 | 29,342,401.40 |  | 3,085,867 |  | 2,870,293 |  | 42,610,429 |  | 60.59 |  | 703,258 |  |
| 2018 | 12,873,696.41 |  | 1,055,978 |  | 982,209 |  | 18,972,020 |  | 61.56 |  | 308,187 |  |
| 2019 | 12,593,302.95 |  | 738,818 |  | 687,205 |  | 18,832,415 |  | 62.54 |  | 301,126 |  |
| 2020 | 15,571,387.28 |  | 549,569 |  | 511,177 |  | 23,624,473 |  | 63.52 |  | 371,922 |  |
| 2021 | 20,330,124.75 |  | 237,598 |  | 221,000 |  | 31,290,694 |  | 64.51 |  | 485,052 |  |
|  | | | | | | | | | | | | |
|  | 319,701,302.67 |  | 108,981,798 |  | 101,368,487 |  | 394,168,533 |  |  | | 7,856,503 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 50.2 2.46 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 65-S2.5 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -25 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1909 | 86,553.15 |  | 102,832 |  | 108,191 |  |  |  |  |  |  |  |
| 1910 | 91,718.70 |  | 108,651 |  | 114,648 |  |  |  |  |  |  |  |
| 1911 | 48,590.04 |  | 57,374 |  | 60,738 |  |  |  |  |  |  |  |
| 1912 | 7,500.88 |  | 8,831 |  | 9,376 |  |  |  |  |  |  |  |
| 1913 | 5,331.69 |  | 6,258 |  | 6,665 |  |  |  |  |  |  |  |
| 1914 | 1,788.86 |  | 2,093 |  | 2,236 |  |  |  |  |  |  |  |
| 1915 | 79,049.23 |  | 92,214 |  | 98,812 |  |  |  |  |  |  |  |
| 1916 | 6,798.94 |  | 7,906 |  | 8,499 |  |  |  |  |  |  |  |
| 1917 | 5,650.45 |  | 6,550 |  | 7,063 |  |  |  |  |  |  |  |
| 1918 | 825.12 |  | 953 |  | 1,031 |  |  |  |  |  |  |  |
| 1921 | 5,814.89 |  | 6,656 |  | 7,269 |  |  |  |  |  |  |  |
| 1923 | 984.92 |  | 1,120 |  | 1,231 |  |  |  |  |  |  |  |
| 1924 | 302.51 |  | 343 |  | 378 |  |  |  |  |  |  |  |
| 1926 | 4,214.62 |  | 4,746 |  | 5,268 |  |  |  |  |  |  |  |
| 1927 | 21,305.92 |  | 23,908 |  | 26,632 |  |  |  |  |  |  |  |
| 1928 | 51,079.13 |  | 57,110 |  | 63,849 |  |  |  |  |  |  |  |
| 1929 | 91,756.92 |  | 102,238 |  | 114,696 |  |  |  |  |  |  |  |
| 1930 | 44,152.55 |  | 49,018 |  | 55,191 |  |  |  |  |  |  |  |
| 1931 | 788.76 |  | 872 |  | 986 |  |  |  |  |  |  |  |
| 1934 | 3,680.59 |  | 4,025 |  | 4,601 |  |  |  |  |  |  |  |
| 1936 | 14,351.19 |  | 15,568 |  | 17,866 |  | 73 |  | 8.59 |  | 8 |  |
| 1937 | 6,942.69 |  | 7,499 |  | 8,606 |  | 72 |  | 8.83 |  | 8 |  |
| 1938 | 3,645.23 |  | 3,921 |  | 4,500 |  | 57 |  | 9.06 |  | 6 |  |
| 1939 | 13.58 |  | 15 |  | 17 |  |  |  |  |  |  |  |
| 1940 | 3,751.02 |  | 3,999 |  | 4,589 |  | 100 |  | 9.56 |  | 10 |  |
| 1941 | 2,872.94 |  | 3,049 |  | 3,499 |  | 92 |  | 9.81 |  | 9 |  |
| 1944 | 11.93 |  | 12 |  | 14 |  | 1 |  | 10.61 |  |  |  |
| 1945 | 3,355.02 |  | 3,491 |  | 4,006 |  | 188 |  | 10.89 |  | 17 |  |
| 1946 | 409.87 |  | 424 |  | 487 |  | 25 |  | 11.18 |  | 2 |  |
| 1947 | 7,793.92 |  | 8,023 |  | 9,207 |  | 535 |  | 11.47 |  | 47 |  |
| 1948 | 24,596.79 |  | 25,179 |  | 28,896 |  | 1,850 |  | 11.77 |  | 157 |  |
| 1949 | 15,830.27 |  | 16,110 |  | 18,488 |  | 1,300 |  | 12.08 |  | 108 |  |
| 1950 | 46,159.80 |  | 46,701 |  | 53,594 |  | 4,106 |  | 12.39 |  | 331 |  |
| 1951 | 22,683.75 |  | 22,806 |  | 26,172 |  | 2,183 |  | 12.72 |  | 172 |  |
| 1952 | 25,962.69 |  | 25,938 |  | 29,767 |  | 2,686 |  | 13.05 |  | 206 |  |
| 1953 | 42,392.13 |  | 42,074 |  | 48,284 |  | 4,706 |  | 13.39 |  | 351 |  |
| 1954 | 11,563.55 |  | 11,399 |  | 13,082 |  | 1,372 |  | 13.74 |  | 100 |  |
| 1955 | 27,831.52 |  | 27,243 |  | 31,264 |  | 3,525 |  | 14.10 |  | 250 |  |
| 1956 | 7,040.82 |  | 6,842 |  | 7,852 |  | 949 |  | 14.47 |  | 66 |  |
| 1957 | 2,404.12 |  | 2,319 |  | 2,661 |  | 344 |  | 14.85 |  | 23 |  |
| 1958 | 10,146.92 |  | 9,710 |  | 11,143 |  | 1,541 |  | 15.24 |  | 101 |  |
| 1959 | 3,130.86 |  | 2,972 |  | 3,411 |  | 503 |  | 15.64 |  | 32 |  |
| 1960 | 4,252.39 |  | 4,003 |  | 4,594 |  | 721 |  | 16.05 |  | 45 |  |
| 1961 | 23,877.29 |  | 22,284 |  | 25,573 |  | 4,274 |  | 16.47 |  | 260 |  |
| 1962 | 30.90 |  | 29 |  | 33 |  | 6 |  | 16.91 |  |  |  |
| 1963 | 23,721.03 |  | 21,737 |  | 24,946 |  | 4,705 |  | 17.35 |  | 271 |  |
| 1964 | 22,010.92 |  | 19,975 |  | 22,923 |  | 4,591 |  | 17.81 |  | 258 |  |
| 1965 | 17,535.88 |  | 15,752 |  | 18,077 |  | 3,843 |  | 18.29 |  | 210 |  |
| 1966 | 23,559.33 |  | 20,945 |  | 24,037 |  | 5,412 |  | 18.77 |  | 288 |  |
| 1967 | 6,935.67 |  | 6,099 |  | 6,999 |  | 1,671 |  | 19.27 |  | 87 |  |
| 1971 | 39,796.62 |  | 33,368 |  | 38,293 |  | 11,453 |  | 21.40 |  | 535 |  |
| 1972 | 39,704.34 |  | 32,863 |  | 37,714 |  | 11,916 |  | 21.96 |  | 543 |  |
| 1973 | 131,281.24 |  | 107,171 |  | 122,990 |  | 41,112 |  | 22.55 |  | 1,823 |  |
| 1974 | 210,312.17 |  | 169,262 |  | 194,246 |  | 68,644 |  | 23.15 |  | 2,965 |  |
| 1975 | 239,336.94 |  | 189,812 |  | 217,830 |  | 81,341 |  | 23.76 |  | 3,423 |  |
| 1976 | 185,654.72 |  | 144,989 |  | 166,390 |  | 65,678 |  | 24.39 |  | 2,693 |  |
| 1977 | 343,889.31 |  | 264,331 |  | 303,348 |  | 126,514 |  | 25.03 |  | 5,054 |  |
| 1978 | 315,290.07 |  | 238,347 |  | 273,529 |  | 120,584 |  | 25.69 |  | 4,694 |  |
| 1979 | 378,239.93 |  | 280,990 |  | 322,466 |  | 150,334 |  | 26.37 |  | 5,701 |  |
| 1980 | 366,409.28 |  | 267,337 |  | 306,798 |  | 151,214 |  | 27.06 |  | 5,588 |  |
| 1981 | 355,552.44 |  | 254,629 |  | 292,214 |  | 152,227 |  | 27.76 |  | 5,484 |  |
| 1982 | 377,238.61 |  | 264,939 |  | 304,046 |  | 167,502 |  | 28.48 |  | 5,881 |  |
| 1983 | 384,018.75 |  | 264,234 |  | 303,237 |  | 176,786 |  | 29.22 |  | 6,050 |  |
| 1984 | 939,325.12 |  | 632,776 |  | 726,178 |  | 447,978 |  | 29.97 |  | 14,948 |  |
| 1985 | 630,836.05 |  | 415,626 |  | 476,975 |  | 311,570 |  | 30.74 |  | 10,136 |  |
| 1986 | 728,748.31 |  | 469,205 |  | 538,463 |  | 372,472 |  | 31.52 |  | 11,817 |  |
| 1987 | 587,019.86 |  | 369,030 |  | 423,501 |  | 310,274 |  | 32.31 |  | 9,603 |  |
| 1988 | 1,149,531.80 |  | 704,534 |  | 808,528 |  | 628,387 |  | 33.13 |  | 18,967 |  |
| 1989 | 731,587.66 |  | 436,840 |  | 501,321 |  | 413,164 |  | 33.95 |  | 12,170 |  |
| 1990 | 1,078,260.45 |  | 626,429 |  | 718,894 |  | 628,932 |  | 34.79 |  | 18,078 |  |
| 1991 | 1,139,360.03 |  | 643,297 |  | 738,252 |  | 685,948 |  | 35.64 |  | 19,247 |  |
| 1992 | 2,588,113.10 |  | 1,418,480 |  | 1,627,857 |  | 1,607,284 |  | 36.50 |  | 44,035 |  |
| 1993 | 2,496,171.46 |  | 1,326,341 |  | 1,522,118 |  | 1,598,096 |  | 37.37 |  | 42,764 |  |
| 1994 | 4,376,586.52 |  | 2,250,550 |  | 2,582,746 |  | 2,887,987 |  | 38.26 |  | 75,483 |  |
| 1995 | 3,766,210.87 |  | 1,871,524 |  | 2,147,774 |  | 2,559,990 |  | 39.16 |  | 65,373 |  |
| 1996 | 2,781,799.15 |  | 1,334,186 |  | 1,531,121 |  | 1,946,128 |  | 40.06 |  | 48,580 |  |
| 1997 | 3,817,567.13 |  | 1,763,430 |  | 2,023,724 |  | 2,748,235 |  | 40.98 |  | 67,063 |  |
| 1998 | 3,265,467.33 |  | 1,449,990 |  | 1,664,018 |  | 2,417,816 |  | 41.91 |  | 57,691 |  |
| 1999 | 2,909,798.15 |  | 1,240,010 |  | 1,423,044 |  | 2,214,204 |  | 42.84 |  | 51,685 |  |
| 2000 | 3,573,705.95 |  | 1,458,340 |  | 1,673,601 |  | 2,793,531 |  | 43.78 |  | 63,808 |  |
| 2001 | 2,541,834.61 |  | 990,839 |  | 1,137,093 |  | 2,040,200 |  | 44.73 |  | 45,611 |  |
| 2002 | 2,207,022.68 |  | 819,578 |  | 940,553 |  | 1,818,225 |  | 45.69 |  | 39,795 |  |
| 2003 | 2,555,904.83 |  | 901,947 |  | 1,035,080 |  | 2,159,801 |  | 46.65 |  | 46,298 |  |
| 2004 | 5,697,180.29 |  | 1,904,140 |  | 2,185,204 |  | 4,936,271 |  | 47.62 |  | 103,660 |  |
| 2005 | 2,992,626.88 |  | 943,837 |  | 1,083,154 |  | 2,657,630 |  | 48.60 |  | 54,684 |  |
| 2006 | 4,418,995.84 |  | 1,311,227 |  | 1,504,773 |  | 4,018,972 |  | 49.57 |  | 81,077 |  |
| 2007 | 3,986,918.90 |  | 1,107,118 |  | 1,270,536 |  | 3,713,113 |  | 50.56 |  | 73,440 |  |
| 2008 | 5,515,828.28 |  | 1,427,772 |  | 1,638,521 |  | 5,256,264 |  | 51.54 |  | 101,984 |  |
| 2009 | 3,695,622.05 |  | 886,256 |  | 1,017,073 |  | 3,602,455 |  | 52.53 |  | 68,579 |  |
| 2010 | 3,022,098.24 |  | 667,204 |  | 765,688 |  | 3,011,935 |  | 53.52 |  | 56,277 |  |
| 2011 | 4,756,647.68 |  | 959,535 |  | 1,101,169 |  | 4,844,641 |  | 54.51 |  | 88,876 |  |
| 2012 | 3,018,396.61 |  | 550,857 |  | 632,167 |  | 3,140,829 |  | 55.51 |  | 56,581 |  |
| 2013 | 2,661,270.01 |  | 434,519 |  | 498,657 |  | 2,827,931 |  | 56.51 |  | 50,043 |  |
| 2014 | 4,169,698.71 |  | 601,375 |  | 690,142 |  | 4,521,981 |  | 57.50 |  | 78,643 |  |
| 2015 | 6,753,595.19 |  | 844,199 |  | 968,809 |  | 7,473,185 |  | 58.50 |  | 127,747 |  |
| 2016 | 4,844,866.03 |  | 512,466 |  | 588,109 |  | 5,467,974 |  | 59.50 |  | 91,899 |  |
| 2017 | 8,866,215.72 |  | 767,260 |  | 880,513 |  | 10,202,257 |  | 60.50 |  | 168,632 |  |
| 2018 | 5,237,880.61 |  | 352,575 |  | 404,617 |  | 6,142,734 |  | 61.50 |  | 99,882 |  |
| 2019 | 5,729,586.36 |  | 275,450 |  | 316,108 |  | 6,845,875 |  | 62.50 |  | 109,534 |  |
| 2020 | 10,635,712.27 |  | 306,840 |  | 352,132 |  | 12,942,508 |  | 63.50 |  | 203,819 |  |
| 2021 | 10,085,164.95 |  | 96,944 |  | 111,254 |  | 12,495,202 |  | 64.50 |  | 193,724 |  |
|  | | | | | | | | | | | | |
|  | 144,282,581.99 |  | 38,624,614 |  | 44,284,515 |  | 136,068,713 |  |  | | 2,626,090 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 51.8 1.82 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 40-S1.5 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -25 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1973 | 540.71 |  | 533 |  | 676 |  |  |  |  |  |  |  |
| 1982 | 378,544.12 |  | 334,893 |  | 469,486 |  | 3,694 |  | 11.69 |  | 316 |  |
| 1983 | 1,335,642.42 |  | 1,164,513 |  | 1,632,529 |  | 37,024 |  | 12.10 |  | 3,060 |  |
| 1984 | 1,909,108.57 |  | 1,639,447 |  | 2,298,339 |  | 88,047 |  | 12.52 |  | 7,033 |  |
| 1985 | 2,745,120.08 |  | 2,320,484 |  | 3,253,084 |  | 178,316 |  | 12.95 |  | 13,770 |  |
| 1986 | 2,125,743.94 |  | 1,767,689 |  | 2,478,121 |  | 179,059 |  | 13.39 |  | 13,373 |  |
| 1987 | 1,643,648.35 |  | 1,343,169 |  | 1,882,987 |  | 171,573 |  | 13.85 |  | 12,388 |  |
| 1989 | 1,972,187.09 |  | 1,552,481 |  | 2,176,421 |  | 288,813 |  | 14.81 |  | 19,501 |  |
| 1990 | 2,594,731.30 |  | 2,001,997 |  | 2,806,597 |  | 436,817 |  | 15.31 |  | 28,531 |  |
| 1991 | 2,887,072.00 |  | 2,181,544 |  | 3,058,304 |  | 550,536 |  | 15.82 |  | 34,800 |  |
| 1992 | 4,697,150.88 |  | 3,471,488 |  | 4,866,675 |  | 1,004,764 |  | 16.35 |  | 61,453 |  |
| 1993 | 5,631,961.17 |  | 4,065,572 |  | 5,699,521 |  | 1,340,430 |  | 16.90 |  | 79,315 |  |
| 1994 | 6,963,498.25 |  | 4,904,914 |  | 6,876,193 |  | 1,828,180 |  | 17.46 |  | 104,707 |  |
| 1995 | 6,354,346.35 |  | 4,360,670 |  | 6,113,218 |  | 1,829,715 |  | 18.04 |  | 101,425 |  |
| 1996 | 5,261,337.05 |  | 3,511,942 |  | 4,923,387 |  | 1,653,284 |  | 18.64 |  | 88,695 |  |
| 1997 | 5,190,676.53 |  | 3,364,207 |  | 4,716,278 |  | 1,772,068 |  | 19.26 |  | 92,008 |  |
| 1998 | 4,410,823.32 |  | 2,771,927 |  | 3,885,961 |  | 1,627,568 |  | 19.89 |  | 81,828 |  |
| 1999 | 5,129,956.13 |  | 3,118,051 |  | 4,371,192 |  | 2,041,253 |  | 20.55 |  | 99,331 |  |
| 2000 | 3,685,198.35 |  | 2,162,751 |  | 3,031,958 |  | 1,574,540 |  | 21.22 |  | 74,201 |  |
| 2001 | 2,547,218.81 |  | 1,439,975 |  | 2,018,699 |  | 1,165,325 |  | 21.91 |  | 53,187 |  |
| 2002 | 2,335,241.35 |  | 1,267,598 |  | 1,777,044 |  | 1,142,008 |  | 22.63 |  | 50,464 |  |
| 2003 | 3,422,439.76 |  | 1,779,669 |  | 2,494,916 |  | 1,783,134 |  | 23.36 |  | 76,333 |  |
| 2004 | 6,411,099.07 |  | 3,183,511 |  | 4,462,960 |  | 3,550,914 |  | 24.11 |  | 147,280 |  |
| 2005 | 4,995,637.28 |  | 2,360,439 |  | 3,309,097 |  | 2,935,450 |  | 24.88 |  | 117,984 |  |
| 2006 | 7,546,806.68 |  | 3,379,554 |  | 4,737,793 |  | 4,695,715 |  | 25.67 |  | 182,926 |  |
| 2007 | 8,956,832.22 |  | 3,781,463 |  | 5,301,228 |  | 5,894,812 |  | 26.49 |  | 222,530 |  |
| 2008 | 9,253,787.62 |  | 3,666,813 |  | 5,140,501 |  | 6,426,734 |  | 27.32 |  | 235,239 |  |
| 2009 | 8,407,018.50 |  | 3,107,970 |  | 4,357,059 |  | 6,151,714 |  | 28.17 |  | 218,378 |  |
| 2010 | 7,118,496.76 |  | 2,440,310 |  | 3,421,068 |  | 5,477,053 |  | 29.03 |  | 188,669 |  |
| 2011 | 7,221,323.09 |  | 2,274,717 |  | 3,188,923 |  | 5,837,731 |  | 29.92 |  | 195,111 |  |
| 2012 | 5,610,336.31 |  | 1,609,465 |  | 2,256,307 |  | 4,756,613 |  | 30.82 |  | 154,335 |  |
| 2013 | 10,568,348.45 |  | 2,727,955 |  | 3,824,317 |  | 9,386,119 |  | 31.74 |  | 295,719 |  |
| 2014 | 9,800,393.12 |  | 2,244,903 |  | 3,147,127 |  | 9,103,364 |  | 32.67 |  | 278,646 |  |
| 2015 | 14,723,851.19 |  | 2,940,169 |  | 4,121,819 |  | 14,282,995 |  | 33.61 |  | 424,963 |  |
| 2016 | 8,637,409.39 |  | 1,465,660 |  | 2,054,707 |  | 8,742,055 |  | 34.57 |  | 252,880 |  |
| 2017 | 14,297,464.33 |  | 1,992,709 |  | 2,793,576 |  | 15,078,254 |  | 35.54 |  | 424,262 |  |
| 2018 | 11,896,374.67 |  | 1,293,731 |  | 1,813,680 |  | 13,056,788 |  | 36.52 |  | 357,524 |  |
| 2019 | 11,436,776.96 |  | 889,924 |  | 1,247,584 |  | 13,048,387 |  | 37.51 |  | 347,864 |  |
| 2020 | 12,249,994.67 |  | 574,219 |  | 804,997 |  | 14,507,496 |  | 38.50 |  | 376,818 |  |
| 2021 | 19,789,262.21 |  | 309,207 |  | 433,477 |  | 24,303,101 |  | 39.50 |  | 615,268 |  |
|  | | | | | | | | | | | | |
|  | 252,143,399.05 |  | 90,768,233 |  | 127,247,806 |  | 187,931,443 |  |  | | 6,132,115 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 30.6 2.43 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 50-R2.5 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -10 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1947 | 24,394.17 |  | 24,370 |  | 26,834 |  |  |  |  |  |  |  |
| 1948 | 101,747.12 |  | 101,155 |  | 111,922 |  |  |  |  |  |  |  |
| 1949 | 44,684.81 |  | 44,208 |  | 49,153 |  |  |  |  |  |  |  |
| 1950 | 111,049.15 |  | 109,303 |  | 122,154 |  |  |  |  |  |  |  |
| 1951 | 99,818.05 |  | 97,744 |  | 109,800 |  |  |  |  |  |  |  |
| 1952 | 85,117.53 |  | 82,918 |  | 93,577 |  | 52 |  | 5.72 |  | 9 |  |
| 1953 | 102,932.61 |  | 99,752 |  | 112,575 |  | 651 |  | 5.95 |  | 109 |  |
| 1954 | 134,332.14 |  | 129,472 |  | 146,115 |  | 1,650 |  | 6.19 |  | 267 |  |
| 1955 | 184,035.21 |  | 176,365 |  | 199,036 |  | 3,403 |  | 6.44 |  | 528 |  |
| 1956 | 188,329.46 |  | 179,444 |  | 202,511 |  | 4,651 |  | 6.69 |  | 695 |  |
| 1957 | 181,838.72 |  | 172,259 |  | 194,403 |  | 5,620 |  | 6.94 |  | 810 |  |
| 1958 | 135,078.06 |  | 127,190 |  | 143,540 |  | 5,046 |  | 7.20 |  | 701 |  |
| 1959 | 163,963.01 |  | 153,414 |  | 173,135 |  | 7,224 |  | 7.47 |  | 967 |  |
| 1960 | 137,689.49 |  | 127,982 |  | 144,434 |  | 7,024 |  | 7.75 |  | 906 |  |
| 1961 | 134,317.07 |  | 123,991 |  | 139,930 |  | 7,819 |  | 8.04 |  | 973 |  |
| 1962 | 111,725.34 |  | 102,399 |  | 115,562 |  | 7,336 |  | 8.34 |  | 880 |  |
| 1963 | 95,904.50 |  | 87,223 |  | 98,435 |  | 7,060 |  | 8.66 |  | 815 |  |
| 1964 | 114,303.88 |  | 103,127 |  | 116,384 |  | 9,350 |  | 8.99 |  | 1,040 |  |
| 1965 | 118,818.16 |  | 106,311 |  | 119,977 |  | 10,723 |  | 9.33 |  | 1,149 |  |
| 1966 | 140,744.12 |  | 124,846 |  | 140,895 |  | 13,924 |  | 9.68 |  | 1,438 |  |
| 1967 | 280,355.27 |  | 246,343 |  | 278,010 |  | 30,381 |  | 10.06 |  | 3,020 |  |
| 1968 | 195,300.44 |  | 169,931 |  | 191,775 |  | 23,055 |  | 10.45 |  | 2,206 |  |
| 1969 | 243,505.41 |  | 209,731 |  | 236,692 |  | 31,164 |  | 10.85 |  | 2,872 |  |
| 1970 | 291,896.36 |  | 248,649 |  | 280,612 |  | 40,474 |  | 11.28 |  | 3,588 |  |
| 1971 | 689,049.33 |  | 580,290 |  | 654,885 |  | 103,069 |  | 11.72 |  | 8,794 |  |
| 1972 | 751,170.64 |  | 625,004 |  | 705,347 |  | 120,941 |  | 12.18 |  | 9,929 |  |
| 1973 | 1,187,741.01 |  | 975,705 |  | 1,101,130 |  | 205,385 |  | 12.66 |  | 16,223 |  |
| 1974 | 1,287,937.46 |  | 1,044,131 |  | 1,178,352 |  | 238,379 |  | 13.15 |  | 18,128 |  |
| 1975 | 1,649,545.48 |  | 1,318,779 |  | 1,488,305 |  | 326,195 |  | 13.66 |  | 23,880 |  |
| 1976 | 1,871,364.61 |  | 1,474,298 |  | 1,663,816 |  | 394,685 |  | 14.19 |  | 27,814 |  |
| 1977 | 2,223,799.69 |  | 1,725,535 |  | 1,947,349 |  | 498,831 |  | 14.73 |  | 33,865 |  |
| 1978 | 2,650,004.63 |  | 2,023,597 |  | 2,283,726 |  | 631,279 |  | 15.29 |  | 41,287 |  |
| 1979 | 3,055,629.33 |  | 2,294,350 |  | 2,589,284 |  | 771,908 |  | 15.87 |  | 48,639 |  |
| 1980 | 2,258,777.41 |  | 1,666,707 |  | 1,880,959 |  | 603,696 |  | 16.46 |  | 36,677 |  |
| 1981 | 2,826,164.02 |  | 2,047,443 |  | 2,310,638 |  | 798,142 |  | 17.07 |  | 46,757 |  |
| 1982 | 2,053,702.91 |  | 1,459,813 |  | 1,647,469 |  | 611,604 |  | 17.69 |  | 34,573 |  |
| 1983 | 3,328,453.62 |  | 2,319,799 |  | 2,618,005 |  | 1,043,294 |  | 18.32 |  | 56,948 |  |
| 1984 | 4,055,929.04 |  | 2,768,821 |  | 3,124,747 |  | 1,336,775 |  | 18.97 |  | 70,468 |  |
| 1985 | 3,670,454.55 |  | 2,452,378 |  | 2,767,626 |  | 1,269,874 |  | 19.63 |  | 64,690 |  |
| 1986 | 3,362,183.19 |  | 2,196,850 |  | 2,479,251 |  | 1,219,151 |  | 20.30 |  | 60,057 |  |
| 1987 | 2,021,948.79 |  | 1,290,448 |  | 1,456,333 |  | 767,811 |  | 20.99 |  | 36,580 |  |
| 1988 | 1,372,743.00 |  | 855,274 |  | 965,218 |  | 544,799 |  | 21.68 |  | 25,129 |  |
| 1989 | 2,670,373.42 |  | 1,622,038 |  | 1,830,548 |  | 1,106,863 |  | 22.39 |  | 49,436 |  |
| 1990 | 2,643,033.57 |  | 1,563,566 |  | 1,764,559 |  | 1,142,778 |  | 23.11 |  | 49,450 |  |
| 1991 | 3,139,777.99 |  | 1,807,005 |  | 2,039,292 |  | 1,414,464 |  | 23.84 |  | 59,332 |  |
| 1992 | 3,750,785.97 |  | 2,097,590 |  | 2,367,231 |  | 1,758,634 |  | 24.58 |  | 71,547 |  |
| 1993 | 3,998,968.15 |  | 2,170,400 |  | 2,449,401 |  | 1,949,464 |  | 25.33 |  | 76,963 |  |
| 1994 | 4,613,795.86 |  | 2,426,949 |  | 2,738,928 |  | 2,336,247 |  | 26.09 |  | 89,546 |  |
| 1995 | 10,334,818.16 |  | 5,261,249 |  | 5,937,572 |  | 5,430,728 |  | 26.86 |  | 202,186 |  |
| 1996 | 4,517,432.43 |  | 2,223,209 |  | 2,508,998 |  | 2,460,178 |  | 27.63 |  | 89,040 |  |
| 1997 | 3,991,832.43 |  | 1,895,162 |  | 2,138,781 |  | 2,252,235 |  | 28.42 |  | 79,248 |  |
| 1998 | 3,695,473.53 |  | 1,689,423 |  | 1,906,595 |  | 2,158,426 |  | 29.22 |  | 73,868 |  |
| 1999 | 3,420,216.42 |  | 1,503,390 |  | 1,696,648 |  | 2,065,590 |  | 30.02 |  | 68,807 |  |
| 2000 | 3,073,670.06 |  | 1,295,613 |  | 1,462,161 |  | 1,918,876 |  | 30.84 |  | 62,220 |  |
| 2001 | 2,785,122.55 |  | 1,123,741 |  | 1,268,196 |  | 1,795,439 |  | 31.66 |  | 56,710 |  |
| 2002 | 2,710,349.88 |  | 1,044,081 |  | 1,178,296 |  | 1,803,089 |  | 32.49 |  | 55,497 |  |
| 2003 | 3,697,405.21 |  | 1,355,986 |  | 1,530,295 |  | 2,536,851 |  | 33.33 |  | 76,113 |  |
| 2004 | 4,949,848.37 |  | 1,722,745 |  | 1,944,200 |  | 3,500,633 |  | 34.18 |  | 102,418 |  |
| 2005 | 6,053,303.07 |  | 1,993,595 |  | 2,249,868 |  | 4,408,765 |  | 35.03 |  | 125,857 |  |
| 2006 | 9,976,408.56 |  | 3,096,877 |  | 3,494,974 |  | 7,479,075 |  | 35.89 |  | 208,389 |  |
| 2007 | 12,669,078.64 |  | 3,690,249 |  | 4,164,623 |  | 9,771,364 |  | 36.76 |  | 265,815 |  |
| 2008 | 9,763,558.29 |  | 2,654,907 |  | 2,996,190 |  | 7,743,724 |  | 37.64 |  | 205,731 |  |
| 2009 | 11,995,818.95 |  | 3,029,664 |  | 3,419,121 |  | 9,776,280 |  | 38.52 |  | 253,798 |  |
| 2010 | 10,794,584.18 |  | 2,514,922 |  | 2,838,210 |  | 9,035,833 |  | 39.41 |  | 229,278 |  |
| 2011 | 16,089,831.67 |  | 3,433,570 |  | 3,874,949 |  | 13,823,866 |  | 40.30 |  | 343,024 |  |
| 2012 | 10,411,869.19 |  | 2,015,738 |  | 2,274,857 |  | 9,178,199 |  | 41.20 |  | 222,772 |  |
| 2013 | 23,381,539.10 |  | 4,058,568 |  | 4,580,289 |  | 21,139,404 |  | 42.11 |  | 502,004 |  |
| 2014 | 11,773,356.47 |  | 1,807,917 |  | 2,040,321 |  | 10,910,371 |  | 43.02 |  | 253,612 |  |
| 2015 | 16,782,592.89 |  | 2,241,147 |  | 2,529,243 |  | 15,931,609 |  | 43.93 |  | 362,659 |  |
| 2016 | 8,305,552.69 |  | 939,192 |  | 1,059,923 |  | 8,076,185 |  | 44.86 |  | 180,031 |  |
| 2017 | 15,691,938.50 |  | 1,456,840 |  | 1,644,114 |  | 15,617,018 |  | 45.78 |  | 341,132 |  |
| 2018 | 8,336,014.08 |  | 603,361 |  | 680,922 |  | 8,488,693 |  | 46.71 |  | 181,732 |  |
| 2019 | 6,525,939.93 |  | 337,391 |  | 380,762 |  | 6,797,772 |  | 47.65 |  | 142,660 |  |
| 2020 | 7,371,083.39 |  | 228,651 |  | 258,044 |  | 7,850,148 |  | 48.59 |  | 161,559 |  |
| 2021 | 14,426,589.63 |  | 149,171 |  | 168,347 |  | 15,700,902 |  | 49.53 |  | 316,998 |  |
|  | | | | | | | | | | | | |
|  | 308,080,442.02 |  | 97,321,256 |  | 109,826,359 |  | 229,062,127 |  |  | | 6,242,843 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 36.7 2.03 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 70-R4 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -35 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1943 | 5,887.03 |  | 7,154 |  | 7,947 |  |  |  |  |  |  |  |
| 1944 | 20,512.90 |  | 24,800 |  | 27,692 |  |  |  |  |  |  |  |
| 1945 | 20,427.87 |  | 24,564 |  | 27,578 |  |  |  |  |  |  |  |
| 1946 | 32,258.39 |  | 38,572 |  | 43,549 |  |  |  |  |  |  |  |
| 1947 | 87,570.19 |  | 104,101 |  | 118,220 |  |  |  |  |  |  |  |
| 1948 | 64,473.70 |  | 76,160 |  | 87,039 |  |  |  |  |  |  |  |
| 1949 | 73,039.23 |  | 85,715 |  | 98,603 |  |  |  |  |  |  |  |
| 1950 | 49,661.61 |  | 57,878 |  | 67,043 |  |  |  |  |  |  |  |
| 1951 | 81,901.11 |  | 94,740 |  | 110,566 |  |  |  |  |  |  |  |
| 1952 | 133,649.02 |  | 153,415 |  | 180,426 |  |  |  |  |  |  |  |
| 1954 | 192,141.39 |  | 216,851 |  | 259,391 |  |  |  |  |  |  |  |
| 1955 | 226,018.99 |  | 252,775 |  | 302,571 |  | 2,555 |  | 12.01 |  | 213 |  |
| 1956 | 265,994.83 |  | 294,611 |  | 352,648 |  | 6,445 |  | 12.57 |  | 513 |  |
| 1957 | 241,079.29 |  | 264,317 |  | 316,387 |  | 9,070 |  | 13.15 |  | 690 |  |
| 1958 | 174,340.44 |  | 189,095 |  | 226,346 |  | 9,014 |  | 13.76 |  | 655 |  |
| 1959 | 259,088.29 |  | 277,916 |  | 332,665 |  | 17,104 |  | 14.38 |  | 1,189 |  |
| 1960 | 119,257.20 |  | 126,452 |  | 151,363 |  | 9,634 |  | 15.02 |  | 641 |  |
| 1961 | 226,967.58 |  | 237,814 |  | 284,663 |  | 21,743 |  | 15.67 |  | 1,388 |  |
| 1962 | 219,628.58 |  | 227,328 |  | 272,111 |  | 24,388 |  | 16.33 |  | 1,493 |  |
| 1963 | 220,659.94 |  | 225,503 |  | 269,926 |  | 27,965 |  | 17.01 |  | 1,644 |  |
| 1964 | 251,044.49 |  | 253,213 |  | 303,095 |  | 35,815 |  | 17.70 |  | 2,023 |  |
| 1965 | 251,390.89 |  | 250,220 |  | 299,512 |  | 39,866 |  | 18.39 |  | 2,168 |  |
| 1966 | 299,795.44 |  | 294,291 |  | 352,265 |  | 52,459 |  | 19.10 |  | 2,747 |  |
| 1967 | 284,105.87 |  | 275,000 |  | 329,174 |  | 54,369 |  | 19.81 |  | 2,745 |  |
| 1968 | 19,231.04 |  | 18,344 |  | 21,958 |  | 4,004 |  | 20.54 |  | 195 |  |
| 1969 | 147,710.23 |  | 138,789 |  | 166,130 |  | 33,279 |  | 21.28 |  | 1,564 |  |
| 1970 | 141,025.93 |  | 130,469 |  | 156,171 |  | 34,214 |  | 22.03 |  | 1,553 |  |
| 1971 | 213,643.00 |  | 194,558 |  | 232,885 |  | 55,533 |  | 22.78 |  | 2,438 |  |
| 1972 | 259,732.98 |  | 232,674 |  | 278,510 |  | 72,130 |  | 23.55 |  | 3,063 |  |
| 1973 | 274,263.65 |  | 241,566 |  | 289,154 |  | 81,102 |  | 24.33 |  | 3,333 |  |
| 1974 | 442,882.41 |  | 383,332 |  | 458,847 |  | 139,044 |  | 25.12 |  | 5,535 |  |
| 1975 | 523,463.38 |  | 444,902 |  | 532,546 |  | 174,130 |  | 25.93 |  | 6,715 |  |
| 1976 | 651,804.27 |  | 543,800 |  | 650,927 |  | 229,009 |  | 26.74 |  | 8,564 |  |
| 1977 | 785,185.70 |  | 642,668 |  | 769,271 |  | 290,730 |  | 27.56 |  | 10,549 |  |
| 1978 | 848,266.35 |  | 680,717 |  | 814,816 |  | 330,344 |  | 28.39 |  | 11,636 |  |
| 1979 | 922,839.40 |  | 725,611 |  | 868,554 |  | 377,279 |  | 29.23 |  | 12,907 |  |
| 1980 | 770,743.57 |  | 593,233 |  | 710,098 |  | 330,406 |  | 30.09 |  | 10,981 |  |
| 1981 | 784,700.78 |  | 590,967 |  | 707,385 |  | 351,961 |  | 30.95 |  | 11,372 |  |
| 1982 | 634,996.83 |  | 467,568 |  | 559,677 |  | 297,569 |  | 31.82 |  | 9,352 |  |
| 1983 | 804,344.78 |  | 578,614 |  | 692,599 |  | 393,266 |  | 32.70 |  | 12,026 |  |
| 1984 | 977,755.92 |  | 686,569 |  | 821,821 |  | 498,149 |  | 33.59 |  | 14,830 |  |
| 1985 | 1,021,611.57 |  | 699,835 |  | 837,700 |  | 541,476 |  | 34.48 |  | 15,704 |  |
| 1986 | 906,780.70 |  | 605,258 |  | 724,492 |  | 499,662 |  | 35.39 |  | 14,119 |  |
| 1987 | 828,125.75 |  | 538,224 |  | 644,252 |  | 473,718 |  | 36.30 |  | 13,050 |  |
| 1988 | 903,076.75 |  | 570,917 |  | 683,386 |  | 535,768 |  | 37.22 |  | 14,395 |  |
| 1989 | 792,294.41 |  | 486,817 |  | 582,718 |  | 486,879 |  | 38.14 |  | 12,766 |  |
| 1990 | 946,200.24 |  | 564,419 |  | 675,608 |  | 601,762 |  | 39.07 |  | 15,402 |  |
| 1991 | 1,079,179.62 |  | 624,176 |  | 747,137 |  | 709,755 |  | 40.01 |  | 17,739 |  |
| 1992 | 1,350,910.03 |  | 756,847 |  | 905,943 |  | 917,786 |  | 40.95 |  | 22,412 |  |
| 1993 | 1,433,726.66 |  | 776,980 |  | 930,042 |  | 1,005,489 |  | 41.90 |  | 23,997 |  |
| 1994 | 1,645,563.48 |  | 861,302 |  | 1,030,976 |  | 1,190,535 |  | 42.86 |  | 27,777 |  |
| 1995 | 2,626,389.08 |  | 1,326,560 |  | 1,587,888 |  | 1,957,737 |  | 43.81 |  | 44,687 |  |
| 1996 | 1,676,357.49 |  | 815,366 |  | 975,990 |  | 1,287,093 |  | 44.78 |  | 28,743 |  |
| 1997 | 1,615,850.40 |  | 756,007 |  | 904,938 |  | 1,276,460 |  | 45.74 |  | 27,907 |  |
| 1998 | 1,446,210.00 |  | 649,578 |  | 777,543 |  | 1,174,840 |  | 46.71 |  | 25,152 |  |
| 1999 | 1,281,150.24 |  | 551,485 |  | 660,126 |  | 1,069,427 |  | 47.68 |  | 22,429 |  |
| 2000 | 1,530,125.42 |  | 629,740 |  | 753,797 |  | 1,311,872 |  | 48.66 |  | 26,960 |  |
| 2001 | 1,400,746.06 |  | 550,018 |  | 658,370 |  | 1,232,637 |  | 49.64 |  | 24,832 |  |
| 2002 | 1,623,956.48 |  | 606,972 |  | 726,543 |  | 1,465,798 |  | 50.62 |  | 28,957 |  |
| 2003 | 1,655,001.24 |  | 587,295 |  | 702,990 |  | 1,531,262 |  | 51.60 |  | 29,676 |  |
| 2004 | 1,140,634.96 |  | 382,978 |  | 458,423 |  | 1,081,434 |  | 52.59 |  | 20,563 |  |
| 2005 | 591,833.77 |  | 187,528 |  | 224,470 |  | 574,506 |  | 53.57 |  | 10,724 |  |
| 2006 | 957,387.37 |  | 285,081 |  | 341,241 |  | 951,232 |  | 54.56 |  | 17,435 |  |
| 2007 | 810,928.71 |  | 225,990 |  | 270,509 |  | 824,245 |  | 55.55 |  | 14,838 |  |
| 2008 | 750,967.85 |  | 194,945 |  | 233,349 |  | 780,458 |  | 56.54 |  | 13,804 |  |
| 2009 | 879,424.26 |  | 211,326 |  | 252,956 |  | 934,267 |  | 57.54 |  | 16,237 |  |
| 2010 | 975,481.78 |  | 215,787 |  | 258,296 |  | 1,058,604 |  | 58.53 |  | 18,087 |  |
| 2011 | 702,184.80 |  | 141,918 |  | 169,875 |  | 778,074 |  | 59.52 |  | 13,072 |  |
| 2012 | 5,145,288.42 |  | 940,716 |  | 1,126,034 |  | 5,820,105 |  | 60.52 |  | 96,168 |  |
| 2013 | 791,120.31 |  | 129,379 |  | 154,866 |  | 913,146 |  | 61.52 |  | 14,843 |  |
| 2014 | 263,772.71 |  | 38,102 |  | 45,608 |  | 310,485 |  | 62.51 |  | 4,967 |  |
| 2015 | 3,147,992.55 |  | 393,998 |  | 471,615 |  | 3,778,175 |  | 63.51 |  | 59,489 |  |
| 2016 | 1,586,065.76 |  | 167,933 |  | 201,015 |  | 1,940,174 |  | 64.51 |  | 30,076 |  |
| 2017 | 1,408,674.62 |  | 121,976 |  | 146,005 |  | 1,755,706 |  | 65.51 |  | 26,801 |  |
| 2018 | 1,388,767.23 |  | 93,742 |  | 112,209 |  | 1,762,627 |  | 66.50 |  | 26,506 |  |
| 2019 | 1,421,240.53 |  | 68,516 |  | 82,014 |  | 1,836,661 |  | 67.50 |  | 27,210 |  |
| 2020 | 2,295,790.03 |  | 66,418 |  | 79,502 |  | 3,019,815 |  | 68.50 |  | 44,085 |  |
| 2021 | 3,487,170.26 |  | 33,613 |  | 40,235 |  | 4,667,445 |  | 69.50 |  | 67,157 |  |
|  | | | | | | | | | | | | |
|  | 66,511,466.03 |  | 28,204,608 |  | 33,730,790 |  | 56,059,690 |  |  | | 1,103,488 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 50.8 1.66 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 70-R4 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -35 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1956 | 4,113.93 |  | 4,557 |  | 5,264 |  | 290 |  | 12.57 |  | 23 |  |
| 1957 | 5,598.31 |  | 6,138 |  | 7,091 |  | 467 |  | 13.15 |  | 36 |  |
| 1958 | 4,041.74 |  | 4,384 |  | 5,065 |  | 391 |  | 13.76 |  | 28 |  |
| 1959 | 5,983.63 |  | 6,418 |  | 7,414 |  | 664 |  | 14.38 |  | 46 |  |
| 1960 | 3,309.61 |  | 3,509 |  | 4,054 |  | 414 |  | 15.02 |  | 28 |  |
| 1961 | 5,222.56 |  | 5,472 |  | 6,321 |  | 729 |  | 15.67 |  | 47 |  |
| 1962 | 5,047.74 |  | 5,225 |  | 6,036 |  | 778 |  | 16.33 |  | 48 |  |
| 1963 | 5,062.93 |  | 5,174 |  | 5,977 |  | 858 |  | 17.01 |  | 50 |  |
| 1964 | 5,750.73 |  | 5,800 |  | 6,700 |  | 1,063 |  | 17.70 |  | 60 |  |
| 1965 | 5,749.30 |  | 5,723 |  | 6,611 |  | 1,151 |  | 18.39 |  | 63 |  |
| 1966 | 6,846.16 |  | 6,720 |  | 7,763 |  | 1,479 |  | 19.10 |  | 77 |  |
| 1967 | 6,478.93 |  | 6,271 |  | 7,244 |  | 1,503 |  | 19.81 |  | 76 |  |
| 1968 | 1,840.37 |  | 1,755 |  | 2,027 |  | 457 |  | 20.54 |  | 22 |  |
| 1969 | 3,362.37 |  | 3,159 |  | 3,649 |  | 890 |  | 21.28 |  | 42 |  |
| 1971 | 3,576.87 |  | 3,257 |  | 3,763 |  | 1,066 |  | 22.78 |  | 47 |  |
| 1972 | 1,801.07 |  | 1,613 |  | 1,863 |  | 568 |  | 23.55 |  | 24 |  |
| 1973 | 6,303.46 |  | 5,552 |  | 6,414 |  | 2,096 |  | 24.33 |  | 86 |  |
| 1974 | 10,336.04 |  | 8,946 |  | 10,335 |  | 3,619 |  | 25.12 |  | 144 |  |
| 1975 | 11,855.24 |  | 10,076 |  | 11,640 |  | 4,365 |  | 25.93 |  | 168 |  |
| 1976 | 14,753.61 |  | 12,309 |  | 14,220 |  | 5,697 |  | 26.74 |  | 213 |  |
| 1977 | 17,764.72 |  | 14,540 |  | 16,797 |  | 7,185 |  | 27.56 |  | 261 |  |
| 1978 | 19,186.66 |  | 15,397 |  | 17,787 |  | 8,115 |  | 28.39 |  | 286 |  |
| 1979 | 20,866.00 |  | 16,407 |  | 18,954 |  | 9,215 |  | 29.23 |  | 315 |  |
| 1980 | 17,422.59 |  | 13,410 |  | 15,492 |  | 8,028 |  | 30.09 |  | 267 |  |
| 1981 | 17,733.02 |  | 13,355 |  | 15,428 |  | 8,512 |  | 30.95 |  | 275 |  |
| 1982 | 14,347.34 |  | 10,564 |  | 12,204 |  | 7,165 |  | 31.82 |  | 225 |  |
| 1983 | 18,171.03 |  | 13,072 |  | 15,101 |  | 9,430 |  | 32.70 |  | 288 |  |
| 1984 | 22,085.19 |  | 15,508 |  | 17,915 |  | 11,900 |  | 33.59 |  | 354 |  |
| 1985 | 23,073.73 |  | 15,806 |  | 18,260 |  | 12,890 |  | 34.48 |  | 374 |  |
| 1986 | 20,479.68 |  | 13,670 |  | 15,792 |  | 11,856 |  | 35.39 |  | 335 |  |
| 1987 | 18,700.69 |  | 12,154 |  | 14,041 |  | 11,205 |  | 36.30 |  | 309 |  |
| 1988 | 20,391.24 |  | 12,891 |  | 14,892 |  | 12,636 |  | 37.22 |  | 339 |  |
| 1989 | 17,887.58 |  | 10,991 |  | 12,697 |  | 11,451 |  | 38.14 |  | 300 |  |
| 1990 | 21,360.49 |  | 12,742 |  | 14,720 |  | 14,117 |  | 39.07 |  | 361 |  |
| 1991 | 19,193.74 |  | 11,101 |  | 12,824 |  | 13,088 |  | 40.01 |  | 327 |  |
| 1992 | 30,492.28 |  | 17,083 |  | 19,735 |  | 21,430 |  | 40.95 |  | 523 |  |
| 1993 | 32,359.59 |  | 17,537 |  | 20,259 |  | 23,426 |  | 41.90 |  | 559 |  |
| 1994 | 37,138.31 |  | 19,439 |  | 22,456 |  | 27,681 |  | 42.86 |  | 646 |  |
| 1995 | 59,270.66 |  | 29,937 |  | 34,584 |  | 45,431 |  | 43.81 |  | 1,037 |  |
| 1996 | 37,830.68 |  | 18,401 |  | 21,257 |  | 29,814 |  | 44.78 |  | 666 |  |
| 1997 | 36,464.33 |  | 17,061 |  | 19,709 |  | 29,518 |  | 45.74 |  | 645 |  |
| 1998 | 32,634.23 |  | 14,658 |  | 16,933 |  | 27,123 |  | 46.71 |  | 581 |  |
| 1999 | 28,908.87 |  | 12,444 |  | 14,376 |  | 24,651 |  | 47.68 |  | 517 |  |
| 2000 | 34,525.96 |  | 14,210 |  | 16,416 |  | 30,194 |  | 48.66 |  | 621 |  |
| 2001 | 31,603.97 |  | 12,410 |  | 14,336 |  | 28,329 |  | 49.64 |  | 571 |  |
| 2002 | 26,482.81 |  | 9,898 |  | 11,434 |  | 24,318 |  | 50.62 |  | 480 |  |
| 2003 | 37,335.56 |  | 13,249 |  | 15,306 |  | 35,097 |  | 51.60 |  | 680 |  |
| 2004 | 106,927.24 |  | 35,902 |  | 41,475 |  | 102,877 |  | 52.59 |  | 1,956 |  |
| 2005 | 206,025.91 |  | 65,281 |  | 75,414 |  | 202,721 |  | 53.57 |  | 3,784 |  |
| 2006 | 188,389.28 |  | 56,097 |  | 64,805 |  | 189,521 |  | 54.56 |  | 3,474 |  |
| 2007 | 303,519.03 |  | 84,585 |  | 97,715 |  | 312,036 |  | 55.55 |  | 5,617 |  |
| 2008 | 375,741.21 |  | 97,539 |  | 112,680 |  | 394,571 |  | 56.54 |  | 6,979 |  |
| 2009 | 342,370.18 |  | 82,272 |  | 95,043 |  | 367,157 |  | 57.54 |  | 6,381 |  |
| 2010 | 277,657.60 |  | 61,421 |  | 70,955 |  | 303,883 |  | 58.53 |  | 5,192 |  |
| 2011 | 175,415.55 |  | 35,453 |  | 40,956 |  | 195,855 |  | 59.52 |  | 3,291 |  |
| 2012 | 430,432.48 |  | 78,696 |  | 90,912 |  | 490,172 |  | 60.52 |  | 8,099 |  |
| 2013 | 17,299.72 |  | 2,829 |  | 3,268 |  | 20,087 |  | 61.52 |  | 327 |  |
| 2014 | 560,636.11 |  | 80,984 |  | 93,555 |  | 663,304 |  | 62.51 |  | 10,611 |  |
| 2015 | 205,593.59 |  | 25,732 |  | 29,726 |  | 247,825 |  | 63.51 |  | 3,902 |  |
| 2016 | 288,562.09 |  | 30,553 |  | 35,296 |  | 354,263 |  | 64.51 |  | 5,492 |  |
| 2017 | 574,650.96 |  | 49,758 |  | 57,482 |  | 718,297 |  | 65.51 |  | 10,965 |  |
| 2018 | 838,970.05 |  | 56,630 |  | 65,421 |  | 1,067,189 |  | 66.50 |  | 16,048 |  |
| 2019 | 937,897.13 |  | 45,215 |  | 52,233 |  | 1,213,928 |  | 67.50 |  | 17,984 |  |
| 2020 | 1,039,616.86 |  | 30,077 |  | 34,746 |  | 1,368,737 |  | 68.50 |  | 19,982 |  |
| 2021 | 900,441.67 |  | 8,679 |  | 10,026 |  | 1,205,570 |  | 69.50 |  | 17,346 |  |
|  | | | | | | | | | | | | |
|  | 8,600,892.21 |  | 1,437,696 |  | 1,660,864 |  | 9,950,340 |  |  | | 160,900 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 61.8 1.87 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 70-R4 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -35 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1968 | 108,771.90 |  | 103,754 |  | 127,713 |  | 19,129 |  | 20.54 |  | 931 |  |
| 1969 | 183,425.62 |  | 172,347 |  | 212,146 |  | 35,479 |  | 21.28 |  | 1,667 |  |
| 1970 | 195,415.26 |  | 180,787 |  | 222,535 |  | 41,276 |  | 22.03 |  | 1,874 |  |
| 1971 | 267,525.13 |  | 243,627 |  | 299,886 |  | 61,273 |  | 22.78 |  | 2,690 |  |
| 1972 | 327,263.11 |  | 293,169 |  | 360,868 |  | 80,937 |  | 23.55 |  | 3,437 |  |
| 1973 | 352,335.30 |  | 310,330 |  | 381,992 |  | 93,661 |  | 24.33 |  | 3,850 |  |
| 1974 | 580,891.34 |  | 502,784 |  | 618,888 |  | 165,315 |  | 25.12 |  | 6,581 |  |
| 1975 | 478,717.49 |  | 406,871 |  | 500,826 |  | 145,443 |  | 25.93 |  | 5,609 |  |
| 1976 | 832,092.64 |  | 694,215 |  | 854,524 |  | 268,801 |  | 26.74 |  | 10,052 |  |
| 1977 | 1,004,504.63 |  | 822,179 |  | 1,012,038 |  | 344,043 |  | 27.56 |  | 12,483 |  |
| 1978 | 1,087,731.94 |  | 872,884 |  | 1,074,452 |  | 393,986 |  | 28.39 |  | 13,878 |  |
| 1979 | 1,185,205.47 |  | 931,904 |  | 1,147,101 |  | 452,926 |  | 29.23 |  | 15,495 |  |
| 1980 | 992,885.15 |  | 764,213 |  | 940,686 |  | 399,709 |  | 30.09 |  | 13,284 |  |
| 1981 | 1,011,127.62 |  | 761,491 |  | 937,336 |  | 427,686 |  | 30.95 |  | 13,819 |  |
| 1982 | 818,800.83 |  | 602,908 |  | 742,132 |  | 363,249 |  | 31.82 |  | 11,416 |  |
| 1983 | 1,039,378.28 |  | 747,688 |  | 920,345 |  | 482,816 |  | 32.70 |  | 14,765 |  |
| 1984 | 1,216,428.49 |  | 854,163 |  | 1,051,407 |  | 590,771 |  | 33.59 |  | 17,588 |  |
| 1985 | 1,320,753.95 |  | 904,757 |  | 1,113,685 |  | 669,333 |  | 34.48 |  | 19,412 |  |
| 1986 | 1,172,609.96 |  | 782,694 |  | 963,435 |  | 619,588 |  | 35.39 |  | 17,507 |  |
| 1987 | 1,013,925.52 |  | 658,981 |  | 811,154 |  | 557,645 |  | 36.30 |  | 15,362 |  |
| 1988 | 1,169,446.90 |  | 739,314 |  | 910,037 |  | 668,716 |  | 37.22 |  | 17,967 |  |
| 1989 | 987,379.42 |  | 606,684 |  | 746,780 |  | 586,182 |  | 38.14 |  | 15,369 |  |
| 1990 | 1,221,944.72 |  | 728,903 |  | 897,222 |  | 752,403 |  | 39.07 |  | 19,258 |  |
| 1991 | 1,395,927.07 |  | 807,377 |  | 993,818 |  | 890,684 |  | 40.01 |  | 22,262 |  |
| 1992 | 1,751,974.49 |  | 981,544 |  | 1,208,204 |  | 1,156,962 |  | 40.95 |  | 28,253 |  |
| 1993 | 1,859,910.35 |  | 1,007,942 |  | 1,240,697 |  | 1,270,182 |  | 41.90 |  | 30,315 |  |
| 1994 | 2,135,165.87 |  | 1,117,564 |  | 1,375,633 |  | 1,506,841 |  | 42.86 |  | 35,157 |  |
| 1995 | 3,409,593.17 |  | 1,722,148 |  | 2,119,829 |  | 2,483,122 |  | 43.81 |  | 56,679 |  |
| 1996 | 2,176,572.68 |  | 1,058,666 |  | 1,303,135 |  | 1,635,238 |  | 44.78 |  | 36,517 |  |
| 1997 | 2,098,630.87 |  | 981,885 |  | 1,208,623 |  | 1,624,529 |  | 45.74 |  | 35,517 |  |
| 1998 | 1,878,467.12 |  | 843,729 |  | 1,038,564 |  | 1,497,367 |  | 46.71 |  | 32,057 |  |
| 1999 | 1,664,257.28 |  | 716,398 |  | 881,830 |  | 1,364,917 |  | 47.68 |  | 28,627 |  |
| 2000 | 1,988,373.82 |  | 818,337 |  | 1,007,309 |  | 1,676,996 |  | 48.66 |  | 34,464 |  |
| 2001 | 1,820,380.63 |  | 714,792 |  | 879,853 |  | 1,577,661 |  | 49.64 |  | 31,782 |  |
| 2002 | 2,110,847.54 |  | 788,952 |  | 971,138 |  | 1,878,506 |  | 50.62 |  | 37,110 |  |
| 2003 | 2,146,487.76 |  | 761,705 |  | 937,599 |  | 1,960,159 |  | 51.60 |  | 37,988 |  |
| 2004 | 3,144,505.07 |  | 1,055,794 |  | 1,299,599 |  | 2,945,483 |  | 52.59 |  | 56,008 |  |
| 2005 | 3,398,083.74 |  | 1,076,712 |  | 1,325,348 |  | 3,262,065 |  | 53.57 |  | 60,894 |  |
| 2006 | 4,503,052.29 |  | 1,340,872 |  | 1,650,508 |  | 4,428,613 |  | 54.56 |  | 81,170 |  |
| 2007 | 4,310,903.60 |  | 1,201,365 |  | 1,478,786 |  | 4,340,934 |  | 55.55 |  | 78,145 |  |
| 2008 | 3,896,780.62 |  | 1,011,571 |  | 1,245,164 |  | 4,015,490 |  | 56.54 |  | 71,020 |  |
| 2009 | 3,922,655.23 |  | 942,614 |  | 1,160,284 |  | 4,135,301 |  | 57.54 |  | 71,868 |  |
| 2010 | 3,821,319.16 |  | 845,318 |  | 1,040,520 |  | 4,118,261 |  | 58.53 |  | 70,362 |  |
| 2011 | 2,639,590.25 |  | 533,484 |  | 656,677 |  | 2,906,770 |  | 59.52 |  | 48,837 |  |
| 2012 | 3,529,477.37 |  | 645,296 |  | 794,309 |  | 3,970,485 |  | 60.52 |  | 65,606 |  |
| 2013 | 3,084,077.30 |  | 504,367 |  | 620,836 |  | 3,542,668 |  | 61.52 |  | 57,586 |  |
| 2014 | 5,291,148.75 |  | 764,306 |  | 940,800 |  | 6,202,251 |  | 62.51 |  | 99,220 |  |
| 2015 | 5,576,193.43 |  | 697,908 |  | 859,070 |  | 6,668,791 |  | 63.51 |  | 105,004 |  |
| 2016 | 3,796,467.25 |  | 401,972 |  | 494,796 |  | 4,630,435 |  | 64.51 |  | 71,779 |  |
| 2017 | 6,731,358.90 |  | 582,862 |  | 717,457 |  | 8,369,878 |  | 65.51 |  | 127,765 |  |
| 2018 | 4,901,527.45 |  | 330,853 |  | 407,254 |  | 6,209,808 |  | 66.50 |  | 93,381 |  |
| 2019 | 5,553,042.24 |  | 267,704 |  | 329,522 |  | 7,167,085 |  | 67.50 |  | 106,179 |  |
| 2020 | 6,261,856.10 |  | 181,159 |  | 222,993 |  | 8,230,513 |  | 68.50 |  | 120,153 |  |
| 2021 | 6,836,447.46 |  | 65,897 |  | 81,114 |  | 9,148,090 |  | 69.50 |  | 131,627 |  |
|  | | | | | | | | | | | | |
|  | 126,203,635.53 |  | 38,457,740 |  | 47,338,457 |  | 123,036,451 |  |  | | 2,217,626 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 55.5 1.76 | | | | | | | | | | | |

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| INTERIM SURVIVOR CURVE.. IOWA 33-L1.5 | | | | | | | | | | | | |
| PROBABLE RETIREMENT YEAR.. 12-2028 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -2 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1947 | 1,068.48 |  | 959 |  | 957 |  | 133 |  | 3.96 |  | 34 |  |
| 1948 | 8,813.47 |  | 7,892 |  | 7,878 |  | 1,112 |  | 4.03 |  | 276 |  |
| 1949 | 3,629.12 |  | 3,242 |  | 3,236 |  | 466 |  | 4.10 |  | 114 |  |
| 1950 | 7,352.17 |  | 6,551 |  | 6,539 |  | 960 |  | 4.17 |  | 230 |  |
| 1951 | 20,164.70 |  | 17,930 |  | 17,898 |  | 2,670 |  | 4.23 |  | 631 |  |
| 1952 | 16,030.36 |  | 14,218 |  | 14,193 |  | 2,158 |  | 4.30 |  | 502 |  |
| 1953 | 20,719.26 |  | 18,338 |  | 18,305 |  | 2,829 |  | 4.36 |  | 649 |  |
| 1954 | 21,787.18 |  | 19,235 |  | 19,201 |  | 3,022 |  | 4.43 |  | 682 |  |
| 1955 | 35,072.64 |  | 30,899 |  | 30,844 |  | 4,930 |  | 4.49 |  | 1,098 |  |
| 1956 | 21,428.41 |  | 18,837 |  | 18,804 |  | 3,053 |  | 4.55 |  | 671 |  |
| 1957 | 17,232.46 |  | 15,116 |  | 15,089 |  | 2,488 |  | 4.61 |  | 540 |  |
| 1958 | 12,546.77 |  | 10,985 |  | 10,965 |  | 1,833 |  | 4.66 |  | 393 |  |
| 1959 | 30,390.48 |  | 26,550 |  | 26,503 |  | 4,495 |  | 4.72 |  | 952 |  |
| 1960 | 30,432.39 |  | 26,536 |  | 26,489 |  | 4,552 |  | 4.77 |  | 954 |  |
| 1961 | 29,146.84 |  | 25,366 |  | 25,321 |  | 4,409 |  | 4.82 |  | 915 |  |
| 1962 | 31,261.89 |  | 27,144 |  | 27,096 |  | 4,791 |  | 4.88 |  | 982 |  |
| 1963 | 28,516.59 |  | 24,712 |  | 24,668 |  | 4,419 |  | 4.93 |  | 896 |  |
| 1964 | 24,250.10 |  | 20,974 |  | 20,937 |  | 3,798 |  | 4.98 |  | 763 |  |
| 1965 | 27,318.55 |  | 23,588 |  | 23,546 |  | 4,319 |  | 5.02 |  | 860 |  |
| 1966 | 35,842.79 |  | 30,884 |  | 30,829 |  | 5,731 |  | 5.07 |  | 1,130 |  |
| 1967 | 29,138.86 |  | 25,055 |  | 25,010 |  | 4,712 |  | 5.12 |  | 920 |  |
| 1968 | 30,996.76 |  | 26,606 |  | 26,559 |  | 5,058 |  | 5.16 |  | 980 |  |
| 1969 | 43,375.89 |  | 37,149 |  | 37,083 |  | 7,160 |  | 5.21 |  | 1,374 |  |
| 1970 | 34,277.69 |  | 29,301 |  | 29,249 |  | 5,714 |  | 5.25 |  | 1,088 |  |
| 1971 | 59,159.08 |  | 50,475 |  | 50,385 |  | 9,957 |  | 5.29 |  | 1,882 |  |
| 1972 | 69,932.68 |  | 59,546 |  | 59,440 |  | 11,891 |  | 5.33 |  | 2,231 |  |
| 1973 | 65,069.65 |  | 55,292 |  | 55,194 |  | 11,177 |  | 5.37 |  | 2,081 |  |
| 1974 | 88,566.06 |  | 75,098 |  | 74,964 |  | 15,373 |  | 5.41 |  | 2,842 |  |
| 1975 | 94,028.45 |  | 79,584 |  | 79,442 |  | 16,467 |  | 5.44 |  | 3,027 |  |
| 1976 | 123,503.30 |  | 104,292 |  | 104,107 |  | 21,866 |  | 5.48 |  | 3,990 |  |
| 1977 | 150,840.16 |  | 127,074 |  | 126,848 |  | 27,009 |  | 5.52 |  | 4,893 |  |
| 1978 | 165,314.78 |  | 138,967 |  | 138,720 |  | 29,901 |  | 5.55 |  | 5,388 |  |
| 1979 | 169,102.47 |  | 141,843 |  | 141,591 |  | 30,894 |  | 5.58 |  | 5,537 |  |
| 1980 | 113,240.13 |  | 94,763 |  | 94,594 |  | 20,911 |  | 5.61 |  | 3,727 |  |
| 1981 | 162,070.19 |  | 135,294 |  | 135,053 |  | 30,259 |  | 5.64 |  | 5,365 |  |
| 1982 | 365,486.51 |  | 304,325 |  | 303,784 |  | 69,012 |  | 5.67 |  | 12,171 |  |
| 1983 | 304,840.78 |  | 253,234 |  | 252,784 |  | 58,154 |  | 5.69 |  | 10,220 |  |
| 1984 | 252,714.82 |  | 209,332 |  | 208,960 |  | 48,809 |  | 5.72 |  | 8,533 |  |
| 1985 | 358,739.57 |  | 296,391 |  | 295,864 |  | 70,050 |  | 5.74 |  | 12,204 |  |
| 1986 | 205,614.48 |  | 169,323 |  | 169,022 |  | 40,705 |  | 5.77 |  | 7,055 |  |
| 1987 | 135,429.44 |  | 111,190 |  | 110,992 |  | 27,146 |  | 5.79 |  | 4,688 |  |
| 1988 | 121,109.03 |  | 99,119 |  | 98,943 |  | 24,588 |  | 5.81 |  | 4,232 |  |
| 1989 | 146,024.74 |  | 119,043 |  | 118,831 |  | 30,114 |  | 5.84 |  | 5,157 |  |
| 1990 | 193,355.50 |  | 157,052 |  | 156,773 |  | 40,450 |  | 5.86 |  | 6,903 |  |
| 1991 | 209,964.35 |  | 169,870 |  | 169,568 |  | 44,596 |  | 5.88 |  | 7,584 |  |
| 1992 | 216,300.40 |  | 174,253 |  | 173,943 |  | 46,683 |  | 5.90 |  | 7,912 |  |
| 1993 | 248,966.74 |  | 199,543 |  | 199,188 |  | 54,758 |  | 5.93 |  | 9,234 |  |
| 1994 | 237,107.21 |  | 189,100 |  | 188,764 |  | 53,085 |  | 5.95 |  | 8,922 |  |
| 1995 | 366,042.11 |  | 290,208 |  | 289,692 |  | 83,671 |  | 5.98 |  | 13,992 |  |
| 1996 | 291,304.44 |  | 229,489 |  | 229,081 |  | 68,050 |  | 6.01 |  | 11,323 |  |
| 1997 | 307,522.18 |  | 240,609 |  | 240,181 |  | 73,492 |  | 6.04 |  | 12,168 |  |
| 1998 | 362,234.68 |  | 281,288 |  | 280,788 |  | 88,691 |  | 6.07 |  | 14,611 |  |
| 1999 | 255,824.26 |  | 197,042 |  | 196,692 |  | 64,249 |  | 6.10 |  | 10,533 |  |
| 2000 | 304,685.52 |  | 232,447 |  | 232,034 |  | 78,745 |  | 6.14 |  | 12,825 |  |
| 2001 | 206,528.00 |  | 155,936 |  | 155,659 |  | 55,000 |  | 6.18 |  | 8,900 |  |
| 2002 | 208,692.53 |  | 155,771 |  | 155,494 |  | 57,372 |  | 6.22 |  | 9,224 |  |
| 2003 | 275,659.62 |  | 203,153 |  | 202,792 |  | 78,381 |  | 6.26 |  | 12,521 |  |
| 2004 | 266,280.49 |  | 193,508 |  | 193,164 |  | 78,442 |  | 6.30 |  | 12,451 |  |
| 2005 | 32,510.84 |  | 23,242 |  | 23,201 |  | 9,960 |  | 6.35 |  | 1,569 |  |
| 2007 | 113,783.31 |  | 78,252 |  | 78,113 |  | 37,946 |  | 6.45 |  | 5,883 |  |
| 2008 | 11,195,068.40 |  | 7,520,648 |  | 7,507,272 |  | 3,911,698 |  | 6.50 |  | 601,800 |  |
| 2009 | 388,852.26 |  | 254,354 |  | 253,902 |  | 142,727 |  | 6.55 |  | 21,790 |  |
| 2010 | 270,795.04 |  | 171,900 |  | 171,594 |  | 104,617 |  | 6.59 |  | 15,875 |  |
| 2011 | 1,061,893.03 |  | 650,658 |  | 649,501 |  | 433,630 |  | 6.64 |  | 65,306 |  |
| 2012 | 264,046.18 |  | 155,316 |  | 155,040 |  | 114,287 |  | 6.68 |  | 17,109 |  |
| 2013 | 1,009,564.03 |  | 565,645 |  | 564,639 |  | 465,116 |  | 6.72 |  | 69,214 |  |
| 2015 | 420,435.36 |  | 206,904 |  | 206,536 |  | 222,308 |  | 6.79 |  | 32,741 |  |
| 2017 | 226,670.49 |  | 90,676 |  | 90,515 |  | 140,689 |  | 6.85 |  | 20,539 |  |
| 2019 | 870,983.91 |  | 234,192 |  | 233,775 |  | 654,629 |  | 6.90 |  | 94,874 |  |
| 2020 | 296.26 |  | 54 |  | 54 |  | 248 |  | 6.92 |  | 36 |  |
| 2021 | 989,452.11 |  | 67,821 |  | 67,700 |  | 941,541 |  | 6.94 |  | 135,669 |  |
|  | | | | | | | | | | | | |
|  | 24,506,399.42 |  | 16,201,183 |  | 16,172,372 |  | 8,824,155 |  |  | | 1,364,365 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.5 5.57 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 12-L2.5 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -2 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1960 | 28.71 |  | 29 |  | 29 |  |  |  |  |  |  |  |
| 2008 | 216,184.23 |  | 149,762 |  | 169,055 |  | 51,453 |  | 3.85 |  | 13,364 |  |
| 2009 | 9,615.50 |  | 6,498 |  | 7,335 |  | 2,473 |  | 4.05 |  | 611 |  |
| 2010 | 1,500.21 |  | 991 |  | 1,119 |  | 411 |  | 4.23 |  | 97 |  |
| 2011 | 53.80 |  | 35 |  | 40 |  | 15 |  | 4.45 |  | 3 |  |
| 2012 | 169.68 |  | 105 |  | 119 |  | 54 |  | 4.72 |  | 11 |  |
| 2017 | 17,656.72 |  | 6,379 |  | 7,201 |  | 10,809 |  | 7.75 |  | 1,395 |  |
| 2019 | 1,190.68 |  | 248 |  | 280 |  | 934 |  | 9.55 |  | 98 |  |
| 2020 | 781,010.25 |  | 98,918 |  | 111,659 |  | 684,971 |  | 10.51 |  | 65,173 |  |
| 2021 | 70.46 |  | 3 |  | 4 |  | 68 |  | 11.50 |  | 6 |  |
|  | | | | | | | | | | | | |
|  | 1,027,480.24 |  | 262,968 |  | 296,841 |  | 751,189 |  |  | | 80,758 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.3 7.86 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 15-S2.5 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -2 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2018 | 56,855,803.14 |  | 13,454,357 |  | 8,469,575 |  | 49,523,344 |  | 11.52 |  | 4,298,901 |  |
| 2019 | 112,062.72 |  | 19,051 |  | 11,993 |  | 102,311 |  | 12.50 |  | 8,185 |  |
| 2020 | 390,016.83 |  | 39,782 |  | 25,043 |  | 372,774 |  | 13.50 |  | 27,613 |  |
| 2021 | 2,089,520.02 |  | 71,037 |  | 44,718 |  | 2,086,593 |  | 14.50 |  | 143,903 |  |
|  | | | | | | | | | | | | |
|  | 59,447,402.71 |  | 13,584,227 |  | 8,551,329 |  | 52,085,022 |  |  | | 4,478,602 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 11.6 7.53 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 35-R3 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2020 | 580,338.65 |  | 24,374 |  | 23,303 |  | 557,036 |  | 33.53 |  | 16,613 |  |
| 2021 | 24,647.86 |  | 345 |  | 329 |  | 24,318 |  | 34.51 |  | 705 |  |
|  | | | | | | | | | | | | |
|  | 604,986.51 |  | 24,719 |  | 23,632 |  | 581,354 |  |  | | 17,318 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 33.6 2.86 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 10-S3 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2016 | 172,288.09 |  | 91,830 |  | 77,919 |  | 94,369 |  | 4.67 |  | 20,207 |  |
| 2017 | 1,164,453.82 |  | 517,017 |  | 438,698 |  | 725,756 |  | 5.56 |  | 130,532 |  |
| 2018 | 511,377.50 |  | 178,471 |  | 151,436 |  | 359,942 |  | 6.51 |  | 55,291 |  |
| 2019 | 107,916.09 |  | 26,979 |  | 22,892 |  | 85,024 |  | 7.50 |  | 11,337 |  |
| 2021 | 616,425.72 |  | 30,821 |  | 26,152 |  | 590,274 |  | 9.50 |  | 62,134 |  |
|  | | | | | | | | | | | | |
|  | 2,572,461.22 |  | 845,118 |  | 717,097 |  | 1,855,364 |  |  | | 279,501 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.6 10.87 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 10-S3 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2016 | 165,896.47 |  | 88,423 |  | 106,800 |  | 59,097 |  | 4.67 |  | 12,655 |  |
|  | | | | | | | | | | | | |
|  | 165,896.47 |  | 88,423 |  | 106,800 |  | 59,097 |  |  | | 12,655 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 4.7 7.63 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 33-S1 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -15 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1967 | 17,053.70 |  | 17,722 |  | 19,612 |  |  |  |  |  |  |  |
| 1968 | 54,028.61 |  | 55,600 |  | 62,133 |  |  |  |  |  |  |  |
| 1969 | 33,714.17 |  | 34,342 |  | 38,771 |  |  |  |  |  |  |  |
| 1970 | 52,218.89 |  | 52,646 |  | 60,052 |  |  |  |  |  |  |  |
| 1971 | 113,838.46 |  | 113,538 |  | 130,914 |  |  |  |  |  |  |  |
| 1972 | 103,820.17 |  | 102,425 |  | 119,393 |  |  |  |  |  |  |  |
| 1973 | 55,183.64 |  | 53,846 |  | 63,461 |  |  |  |  |  |  |  |
| 1974 | 187,204.12 |  | 180,579 |  | 215,285 |  |  |  |  |  |  |  |
| 1975 | 95,843.49 |  | 91,382 |  | 110,220 |  |  |  |  |  |  |  |
| 1976 | 145,073.97 |  | 136,653 |  | 166,835 |  |  |  |  |  |  |  |
| 1977 | 167,127.08 |  | 155,446 |  | 192,196 |  |  |  |  |  |  |  |
| 1978 | 99,383.01 |  | 91,294 |  | 114,290 |  |  |  |  |  |  |  |
| 1979 | 111,716.11 |  | 101,260 |  | 128,474 |  |  |  |  |  |  |  |
| 1980 | 139,898.54 |  | 125,100 |  | 160,883 |  |  |  |  |  |  |  |
| 1981 | 152,439.02 |  | 134,401 |  | 175,305 |  |  |  |  |  |  |  |
| 1982 | 71,901.03 |  | 62,491 |  | 82,686 |  |  |  |  |  |  |  |
| 1983 | 102,640.62 |  | 87,884 |  | 118,037 |  |  |  |  |  |  |  |
| 1984 | 48,468.68 |  | 40,875 |  | 55,739 |  |  |  |  |  |  |  |
| 1985 | 42,473.79 |  | 35,243 |  | 48,845 |  |  |  |  |  |  |  |
| 1986 | 20,759.54 |  | 16,943 |  | 23,873 |  |  |  |  |  |  |  |
| 1987 | 24,213.38 |  | 19,424 |  | 27,845 |  |  |  |  |  |  |  |
| 1988 | 62,212.58 |  | 49,019 |  | 71,544 |  |  |  |  |  |  |  |
| 1989 | 37,756.41 |  | 29,210 |  | 43,420 |  |  |  |  |  |  |  |
| 1990 | 45,148.04 |  | 34,252 |  | 51,057 |  | 863 |  | 11.23 |  | 77 |  |
| 1991 | 35,050.55 |  | 26,054 |  | 38,837 |  | 1,471 |  | 11.67 |  | 126 |  |
| 1992 | 80,854.97 |  | 58,861 |  | 87,739 |  | 5,244 |  | 12.11 |  | 433 |  |
| 1993 | 251,189.29 |  | 178,835 |  | 266,574 |  | 22,294 |  | 12.57 |  | 1,774 |  |
| 1994 | 240,775.23 |  | 167,478 |  | 249,645 |  | 27,247 |  | 13.04 |  | 2,089 |  |
| 1995 | 273,296.05 |  | 185,526 |  | 276,548 |  | 37,742 |  | 13.52 |  | 2,792 |  |
| 1996 | 202,731.09 |  | 134,161 |  | 199,983 |  | 33,158 |  | 14.01 |  | 2,367 |  |
| 1997 | 235,502.20 |  | 151,663 |  | 226,071 |  | 44,757 |  | 14.52 |  | 3,082 |  |
| 1998 | 155,046.10 |  | 97,040 |  | 144,649 |  | 33,654 |  | 15.04 |  | 2,238 |  |
| 1999 | 146,046.18 |  | 88,659 |  | 132,157 |  | 35,796 |  | 15.58 |  | 2,298 |  |
| 2000 | 229,721.07 |  | 135,051 |  | 201,309 |  | 62,870 |  | 16.13 |  | 3,898 |  |
| 2001 | 125,966.17 |  | 71,596 |  | 106,722 |  | 38,139 |  | 16.69 |  | 2,285 |  |
| 2002 | 303,756.12 |  | 166,402 |  | 248,042 |  | 101,278 |  | 17.28 |  | 5,861 |  |
| 2003 | 178,807.05 |  | 94,215 |  | 140,439 |  | 65,189 |  | 17.88 |  | 3,646 |  |
| 2004 | 40,586.88 |  | 20,508 |  | 30,570 |  | 16,105 |  | 18.50 |  | 871 |  |
| 2006 | 20,394.62 |  | 9,382 |  | 13,985 |  | 9,469 |  | 19.80 |  | 478 |  |
| 2009 | 311.48 |  | 120 |  | 179 |  | 179 |  | 21.91 |  | 8 |  |
| 2014 | 128.29 |  | 32 |  | 48 |  | 100 |  | 25.91 |  | 4 |  |
| 2018 | 30,307.42 |  | 3,633 |  | 5,415 |  | 29,439 |  | 29.56 |  | 996 |  |
| 2019 | 4,872.48 |  | 421 |  | 627 |  | 4,976 |  | 30.52 |  | 163 |  |
| 2021 | 2,716.64 |  | 47 |  | 70 |  | 3,054 |  | 32.50 |  | 94 |  |
|  | | | | | | | | | | | | |
|  | 4,542,176.93 |  | 3,411,259 |  | 4,650,479 |  | 573,024 |  |  | | 35,580 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 16.1 0.78 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 33-S1 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -15 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1964 | 66.47 |  | 71 |  | 76 |  |  |  |  |  |  |  |
| 1965 | 25,675.12 |  | 27,200 |  | 29,526 |  |  |  |  |  |  |  |
| 1966 | 224.56 |  | 236 |  | 258 |  |  |  |  |  |  |  |
| 1967 | 18,587.81 |  | 19,316 |  | 21,376 |  |  |  |  |  |  |  |
| 1968 | 27,911.48 |  | 28,723 |  | 32,098 |  |  |  |  |  |  |  |
| 1969 | 16,745.15 |  | 17,057 |  | 19,257 |  |  |  |  |  |  |  |
| 1970 | 25,364.10 |  | 25,571 |  | 29,169 |  |  |  |  |  |  |  |
| 1971 | 54,860.18 |  | 54,715 |  | 63,089 |  |  |  |  |  |  |  |
| 1972 | 45,775.83 |  | 45,161 |  | 52,642 |  |  |  |  |  |  |  |
| 1973 | 26,280.75 |  | 25,643 |  | 30,223 |  |  |  |  |  |  |  |
| 1974 | 87,898.47 |  | 84,788 |  | 101,083 |  |  |  |  |  |  |  |
| 1975 | 41,164.57 |  | 39,249 |  | 47,339 |  |  |  |  |  |  |  |
| 1976 | 66,850.21 |  | 62,970 |  | 76,770 |  | 108 |  | 5.97 |  | 18 |  |
| 1977 | 76,518.16 |  | 71,170 |  | 86,766 |  | 1,230 |  | 6.31 |  | 195 |  |
| 1978 | 45,323.33 |  | 41,634 |  | 50,758 |  | 1,364 |  | 6.64 |  | 205 |  |
| 1979 | 50,762.03 |  | 46,011 |  | 56,094 |  | 2,282 |  | 6.99 |  | 326 |  |
| 1980 | 63,319.29 |  | 56,621 |  | 69,029 |  | 3,788 |  | 7.34 |  | 516 |  |
| 1981 | 68,732.29 |  | 60,599 |  | 73,879 |  | 5,163 |  | 7.70 |  | 671 |  |
| 1982 | 32,447.23 |  | 28,201 |  | 34,381 |  | 2,933 |  | 8.06 |  | 364 |  |
| 1983 | 46,251.34 |  | 39,602 |  | 48,281 |  | 4,908 |  | 8.43 |  | 582 |  |
| 1984 | 21,850.20 |  | 18,427 |  | 22,465 |  | 2,663 |  | 8.80 |  | 303 |  |
| 1985 | 19,163.84 |  | 15,901 |  | 19,386 |  | 2,652 |  | 9.19 |  | 289 |  |
| 1986 | 9,374.00 |  | 7,651 |  | 9,328 |  | 1,452 |  | 9.58 |  | 152 |  |
| 1987 | 10,950.91 |  | 8,785 |  | 10,710 |  | 1,884 |  | 9.98 |  | 189 |  |
| 1988 | 27,974.33 |  | 22,042 |  | 26,872 |  | 5,298 |  | 10.39 |  | 510 |  |
| 1989 | 16,997.47 |  | 13,150 |  | 16,032 |  | 3,515 |  | 10.80 |  | 325 |  |
| 1990 | 20,325.27 |  | 15,420 |  | 18,799 |  | 4,575 |  | 11.23 |  | 407 |  |
| 1991 | 15,780.16 |  | 11,730 |  | 14,301 |  | 3,846 |  | 11.67 |  | 330 |  |
| 1992 | 35,316.56 |  | 25,710 |  | 31,344 |  | 9,270 |  | 12.11 |  | 765 |  |
| 1993 | 112,597.41 |  | 80,164 |  | 97,731 |  | 31,756 |  | 12.57 |  | 2,526 |  |
| 1994 | 107,851.88 |  | 75,019 |  | 91,459 |  | 32,571 |  | 13.04 |  | 2,498 |  |
| 1995 | 122,383.80 |  | 83,080 |  | 101,286 |  | 39,455 |  | 13.52 |  | 2,918 |  |
| 1996 | 90,780.39 |  | 60,076 |  | 73,241 |  | 31,156 |  | 14.01 |  | 2,224 |  |
| 1997 | 105,425.09 |  | 67,894 |  | 82,773 |  | 38,466 |  | 14.52 |  | 2,649 |  |
| 1998 | 69,456.15 |  | 43,471 |  | 52,997 |  | 26,878 |  | 15.04 |  | 1,787 |  |
| 1999 | 65,361.45 |  | 39,678 |  | 48,373 |  | 26,793 |  | 15.58 |  | 1,720 |  |
| 2000 | 102,883.92 |  | 60,485 |  | 73,740 |  | 44,577 |  | 16.13 |  | 2,764 |  |
| 2001 | 56,454.43 |  | 32,087 |  | 39,119 |  | 25,804 |  | 16.69 |  | 1,546 |  |
| 2002 | 135,864.40 |  | 74,428 |  | 90,739 |  | 65,505 |  | 17.28 |  | 3,791 |  |
| 2003 | 74,562.63 |  | 39,288 |  | 47,898 |  | 37,849 |  | 17.88 |  | 2,117 |  |
| 2004 | 117,154.08 |  | 59,198 |  | 72,171 |  | 62,556 |  | 18.50 |  | 3,381 |  |
| 2005 | 89,487.01 |  | 43,222 |  | 52,694 |  | 50,216 |  | 19.14 |  | 2,624 |  |
| 2006 | 145,379.18 |  | 66,874 |  | 81,529 |  | 85,657 |  | 19.80 |  | 4,326 |  |
| 2007 | 105,681.72 |  | 46,109 |  | 56,213 |  | 65,321 |  | 20.48 |  | 3,190 |  |
| 2008 | 111,741.21 |  | 45,988 |  | 56,066 |  | 72,436 |  | 21.19 |  | 3,418 |  |
| 2009 | 100,085.15 |  | 38,680 |  | 47,156 |  | 67,942 |  | 21.91 |  | 3,101 |  |
| 2010 | 50,128.19 |  | 18,063 |  | 22,021 |  | 35,626 |  | 22.66 |  | 1,572 |  |
| 2011 | 25,750.72 |  | 8,579 |  | 10,459 |  | 19,154 |  | 23.44 |  | 817 |  |
| 2012 | 48,513.79 |  | 14,810 |  | 18,056 |  | 37,735 |  | 24.24 |  | 1,557 |  |
| 2013 | 126,915.49 |  | 35,118 |  | 42,814 |  | 103,139 |  | 25.06 |  | 4,116 |  |
| 2014 | 198,132.17 |  | 48,954 |  | 59,682 |  | 168,170 |  | 25.91 |  | 6,491 |  |
| 2015 | 356,462.72 |  | 77,141 |  | 94,046 |  | 315,886 |  | 26.79 |  | 11,791 |  |
| 2016 | 126,377.71 |  | 23,386 |  | 28,511 |  | 116,823 |  | 27.69 |  | 4,219 |  |
| 2017 | 604,572.41 |  | 92,490 |  | 112,759 |  | 582,499 |  | 28.61 |  | 20,360 |  |
| 2018 | 456,185.82 |  | 54,686 |  | 66,670 |  | 457,944 |  | 29.56 |  | 15,492 |  |
| 2019 | 342,297.83 |  | 29,582 |  | 36,065 |  | 357,578 |  | 30.52 |  | 11,716 |  |
| 2020 | 293,896.45 |  | 15,260 |  | 18,604 |  | 319,377 |  | 31.51 |  | 10,136 |  |
| 2021 | 426,470.61 |  | 7,430 |  | 9,058 |  | 481,383 |  | 32.50 |  | 14,812 |  |
|  | | | | | | | | | | | | |
|  | 5,767,344.92 |  | 2,294,594 |  | 2,775,261 |  | 3,857,186 |  |  | | 155,806 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 24.8 2.70 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 33-S1 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -15 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1964 | 59.64 |  | 64 |  | 69 |  |  |  |  |  |  |  |
| 1965 | 37,179.91 |  | 39,388 |  | 42,757 |  |  |  |  |  |  |  |
| 1966 | 349.87 |  | 367 |  | 402 |  |  |  |  |  |  |  |
| 1967 | 28,286.67 |  | 29,395 |  | 32,530 |  |  |  |  |  |  |  |
| 1968 | 43,227.21 |  | 44,484 |  | 49,711 |  |  |  |  |  |  |  |
| 1969 | 26,065.48 |  | 26,551 |  | 29,975 |  |  |  |  |  |  |  |
| 1970 | 16,081.55 |  | 16,213 |  | 18,494 |  |  |  |  |  |  |  |
| 1971 | 78,802.34 |  | 78,594 |  | 90,263 |  | 360 |  | 4.38 |  | 82 |  |
| 1972 | 78,037.06 |  | 76,988 |  | 88,419 |  | 1,324 |  | 4.69 |  | 282 |  |
| 1973 | 39,340.19 |  | 38,386 |  | 44,085 |  | 1,156 |  | 5.00 |  | 231 |  |
| 1974 | 139,113.16 |  | 134,190 |  | 154,114 |  | 5,866 |  | 5.32 |  | 1,103 |  |
| 1975 | 70,670.52 |  | 67,381 |  | 77,385 |  | 3,886 |  | 5.64 |  | 689 |  |
| 1976 | 106,652.45 |  | 100,462 |  | 115,378 |  | 7,272 |  | 5.97 |  | 1,218 |  |
| 1977 | 122,847.38 |  | 114,261 |  | 131,226 |  | 10,048 |  | 6.31 |  | 1,592 |  |
| 1978 | 73,329.04 |  | 67,361 |  | 77,362 |  | 6,966 |  | 6.64 |  | 1,049 |  |
| 1979 | 82,607.24 |  | 74,876 |  | 85,993 |  | 9,005 |  | 6.99 |  | 1,288 |  |
| 1980 | 103,796.34 |  | 92,816 |  | 106,597 |  | 12,769 |  | 7.34 |  | 1,740 |  |
| 1981 | 113,470.52 |  | 100,044 |  | 114,898 |  | 15,593 |  | 7.70 |  | 2,025 |  |
| 1982 | 53,856.77 |  | 46,808 |  | 53,758 |  | 8,177 |  | 8.06 |  | 1,015 |  |
| 1983 | 77,347.98 |  | 66,228 |  | 76,061 |  | 12,889 |  | 8.43 |  | 1,529 |  |
| 1984 | 36,745.07 |  | 30,988 |  | 35,589 |  | 6,668 |  | 8.80 |  | 758 |  |
| 1985 | 32,448.76 |  | 26,924 |  | 30,921 |  | 6,395 |  | 9.19 |  | 696 |  |
| 1986 | 15,957.61 |  | 13,024 |  | 14,958 |  | 3,393 |  | 9.58 |  | 354 |  |
| 1987 | 18,719.34 |  | 15,017 |  | 17,247 |  | 4,280 |  | 9.98 |  | 429 |  |
| 1988 | 48,088.53 |  | 37,890 |  | 43,516 |  | 11,786 |  | 10.39 |  | 1,134 |  |
| 1989 | 7,084.66 |  | 5,481 |  | 6,295 |  | 1,852 |  | 10.80 |  | 171 |  |
| 1990 | 35,159.04 |  | 26,674 |  | 30,634 |  | 9,799 |  | 11.23 |  | 873 |  |
| 1991 | 27,390.97 |  | 20,360 |  | 23,383 |  | 8,117 |  | 11.67 |  | 696 |  |
| 1992 | 63,151.06 |  | 45,973 |  | 52,799 |  | 19,825 |  | 12.11 |  | 1,637 |  |
| 1993 | 196,541.72 |  | 139,929 |  | 160,705 |  | 65,318 |  | 12.57 |  | 5,196 |  |
| 1994 | 188,672.27 |  | 131,236 |  | 150,721 |  | 66,252 |  | 13.04 |  | 5,081 |  |
| 1995 | 214,481.33 |  | 145,600 |  | 167,218 |  | 79,436 |  | 13.52 |  | 5,875 |  |
| 1996 | 159,430.02 |  | 105,506 |  | 121,171 |  | 62,174 |  | 14.01 |  | 4,438 |  |
| 1997 | 185,407.89 |  | 119,403 |  | 137,131 |  | 76,088 |  | 14.52 |  | 5,240 |  |
| 1998 | 122,311.08 |  | 76,552 |  | 87,918 |  | 52,740 |  | 15.04 |  | 3,507 |  |
| 1999 | 115,215.25 |  | 69,943 |  | 80,328 |  | 52,170 |  | 15.58 |  | 3,349 |  |
| 2000 | 181,625.17 |  | 106,776 |  | 122,629 |  | 86,240 |  | 16.13 |  | 5,347 |  |
| 2001 | 99,807.57 |  | 56,728 |  | 65,151 |  | 49,628 |  | 16.69 |  | 2,974 |  |
| 2002 | 240,435.97 |  | 131,714 |  | 151,270 |  | 125,231 |  | 17.28 |  | 7,247 |  |
| 2003 | 141,815.25 |  | 74,723 |  | 85,817 |  | 77,271 |  | 17.88 |  | 4,322 |  |
| 2004 | 549,217.21 |  | 277,519 |  | 318,723 |  | 312,877 |  | 18.50 |  | 16,912 |  |
| 2005 | 543,830.43 |  | 262,670 |  | 301,669 |  | 323,736 |  | 19.14 |  | 16,914 |  |
| 2006 | 582,712.21 |  | 268,048 |  | 307,846 |  | 362,273 |  | 19.80 |  | 18,297 |  |
| 2007 | 750,281.20 |  | 327,347 |  | 375,949 |  | 486,874 |  | 20.48 |  | 23,773 |  |
| 2008 | 651,068.84 |  | 267,955 |  | 307,739 |  | 440,990 |  | 21.19 |  | 20,811 |  |
| 2009 | 405,509.78 |  | 156,717 |  | 179,985 |  | 286,351 |  | 21.91 |  | 13,069 |  |
| 2010 | 444,974.10 |  | 160,337 |  | 184,143 |  | 327,577 |  | 22.66 |  | 14,456 |  |
| 2011 | 354,544.97 |  | 118,118 |  | 135,655 |  | 272,072 |  | 23.44 |  | 11,607 |  |
| 2012 | 556,120.57 |  | 169,766 |  | 194,972 |  | 444,567 |  | 24.24 |  | 18,340 |  |
| 2013 | 509,282.37 |  | 140,919 |  | 161,842 |  | 423,833 |  | 25.06 |  | 16,913 |  |
| 2014 | 507,482.27 |  | 125,387 |  | 144,004 |  | 439,601 |  | 25.91 |  | 16,966 |  |
| 2015 | 804,911.67 |  | 174,189 |  | 200,051 |  | 725,597 |  | 26.79 |  | 27,085 |  |
| 2016 | 968,891.77 |  | 179,290 |  | 205,910 |  | 908,316 |  | 27.69 |  | 32,803 |  |
| 2017 | 1,219,106.42 |  | 186,504 |  | 214,195 |  | 1,187,777 |  | 28.61 |  | 41,516 |  |
| 2018 | 953,501.33 |  | 114,302 |  | 131,273 |  | 965,254 |  | 29.56 |  | 32,654 |  |
| 2019 | 1,010,661.66 |  | 87,344 |  | 100,312 |  | 1,061,949 |  | 30.52 |  | 34,795 |  |
| 2020 | 1,317,937.22 |  | 68,431 |  | 78,591 |  | 1,437,037 |  | 31.51 |  | 45,606 |  |
| 2021 | 1,612,476.67 |  | 28,093 |  | 32,264 |  | 1,822,084 |  | 32.50 |  | 56,064 |  |
|  | | | | | | | | | | | | |
|  | 17,164,120.57 |  | 5,708,234 |  | 6,550,001 |  | 13,188,737 |  |  | | 531,748 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 24.8 3.10 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 33-S1 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -15 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1985 | 12,088.79 |  | 10,031 |  | 7,996 |  | 5,906 |  | 9.19 |  | 643 |  |
| 1986 | 33,830.26 |  | 27,611 |  | 22,008 |  | 16,897 |  | 9.58 |  | 1,764 |  |
| 1987 | 22,616.74 |  | 18,144 |  | 14,462 |  | 11,547 |  | 9.98 |  | 1,157 |  |
| 1988 | 25,976.14 |  | 20,467 |  | 16,314 |  | 13,559 |  | 10.39 |  | 1,305 |  |
| 1989 | 16,959.51 |  | 13,121 |  | 10,459 |  | 9,044 |  | 10.80 |  | 837 |  |
| 1990 | 42,979.95 |  | 32,607 |  | 25,991 |  | 23,436 |  | 11.23 |  | 2,087 |  |
| 1991 | 39,000.55 |  | 28,990 |  | 23,108 |  | 21,743 |  | 11.67 |  | 1,863 |  |
| 1992 | 87,779.36 |  | 63,902 |  | 50,936 |  | 50,010 |  | 12.11 |  | 4,130 |  |
| 1993 | 144,903.22 |  | 103,164 |  | 82,231 |  | 84,408 |  | 12.57 |  | 6,715 |  |
| 1994 | 173,047.06 |  | 120,368 |  | 95,944 |  | 103,060 |  | 13.04 |  | 7,903 |  |
| 1995 | 178,404.75 |  | 121,109 |  | 96,535 |  | 108,630 |  | 13.52 |  | 8,035 |  |
| 1996 | 186,717.66 |  | 123,564 |  | 98,492 |  | 116,233 |  | 14.01 |  | 8,296 |  |
| 1997 | 263,701.08 |  | 169,823 |  | 135,364 |  | 167,892 |  | 14.52 |  | 11,563 |  |
| 1998 | 245,726.85 |  | 153,795 |  | 122,588 |  | 159,998 |  | 15.04 |  | 10,638 |  |
| 1999 | 253,788.23 |  | 154,065 |  | 122,804 |  | 169,052 |  | 15.58 |  | 10,851 |  |
| 2000 | 311,174.64 |  | 182,937 |  | 145,817 |  | 212,034 |  | 16.13 |  | 13,145 |  |
| 2001 | 306,769.67 |  | 174,361 |  | 138,981 |  | 213,804 |  | 16.69 |  | 12,810 |  |
| 2002 | 356,255.66 |  | 195,162 |  | 155,562 |  | 254,132 |  | 17.28 |  | 14,707 |  |
| 2003 | 398,774.78 |  | 210,117 |  | 167,482 |  | 291,109 |  | 17.88 |  | 16,281 |  |
| 2004 | 450,287.48 |  | 227,530 |  | 181,362 |  | 336,469 |  | 18.50 |  | 18,188 |  |
| 2005 | 459,788.78 |  | 222,078 |  | 177,016 |  | 351,741 |  | 19.14 |  | 18,377 |  |
| 2006 | 646,547.88 |  | 297,412 |  | 237,064 |  | 506,466 |  | 19.80 |  | 25,579 |  |
| 2007 | 722,905.40 |  | 315,403 |  | 251,404 |  | 579,937 |  | 20.48 |  | 28,317 |  |
| 2008 | 655,903.44 |  | 269,945 |  | 215,170 |  | 539,119 |  | 21.19 |  | 25,442 |  |
| 2009 | 910,547.87 |  | 351,899 |  | 280,495 |  | 766,635 |  | 21.91 |  | 34,990 |  |
| 2010 | 1,304,407.83 |  | 470,017 |  | 374,646 |  | 1,125,423 |  | 22.66 |  | 49,666 |  |
| 2011 | 2,605,283.80 |  | 867,963 |  | 691,844 |  | 2,304,232 |  | 23.44 |  | 98,303 |  |
| 2012 | 1,157,272.45 |  | 353,278 |  | 281,594 |  | 1,049,269 |  | 24.24 |  | 43,287 |  |
| 2013 | 1,617,064.93 |  | 447,444 |  | 356,653 |  | 1,502,972 |  | 25.06 |  | 59,975 |  |
| 2014 | 1,214,109.84 |  | 299,979 |  | 239,110 |  | 1,157,116 |  | 25.91 |  | 44,659 |  |
| 2015 | 3,709,512.59 |  | 802,764 |  | 639,875 |  | 3,626,064 |  | 26.79 |  | 135,351 |  |
| 2016 | 1,939,193.35 |  | 358,841 |  | 286,029 |  | 1,944,043 |  | 27.69 |  | 70,207 |  |
| 2017 | 1,640,204.96 |  | 250,926 |  | 200,011 |  | 1,686,225 |  | 28.61 |  | 58,938 |  |
| 2018 | 1,786,877.26 |  | 214,204 |  | 170,740 |  | 1,884,169 |  | 29.56 |  | 63,740 |  |
| 2019 | 1,666,685.20 |  | 144,039 |  | 114,812 |  | 1,801,876 |  | 30.52 |  | 59,039 |  |
| 2020 | 1,665,498.48 |  | 86,477 |  | 68,930 |  | 1,846,393 |  | 31.51 |  | 58,597 |  |
| 2021 | 2,271,593.49 |  | 39,577 |  | 31,546 |  | 2,580,787 |  | 32.50 |  | 79,409 |  |
|  | | | | | | | | | | | | |
|  | 29,524,179.93 |  | 7,943,114 |  | 6,331,375 |  | 27,621,432 |  |  | | 1,106,794 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 25.0 3.75 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 33-S1 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -15 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2012 | 814.41 |  | 249 |  | 354 |  | 583 |  | 24.24 |  | 24 |  |
| 2013 | 4,324.28 |  | 1,197 |  | 1,701 |  | 3,272 |  | 25.06 |  | 131 |  |
| 2015 | 4,316,546.89 |  | 934,131 |  | 1,327,356 |  | 3,636,673 |  | 26.79 |  | 135,747 |  |
| 2016 | 3,951,749.61 |  | 731,257 |  | 1,039,081 |  | 3,505,431 |  | 27.69 |  | 126,596 |  |
| 2017 | 3,511,601.77 |  | 537,221 |  | 763,366 |  | 3,274,976 |  | 28.61 |  | 114,470 |  |
| 2018 | 2,121,260.88 |  | 254,288 |  | 361,331 |  | 2,078,119 |  | 29.56 |  | 70,302 |  |
| 2019 | 1,398,142.98 |  | 120,831 |  | 171,695 |  | 1,436,169 |  | 30.52 |  | 47,057 |  |
| 2020 | 1,247,720.85 |  | 64,785 |  | 92,056 |  | 1,342,823 |  | 31.51 |  | 42,616 |  |
| 2021 | 1,418,531.42 |  | 24,714 |  | 35,118 |  | 1,596,193 |  | 32.50 |  | 49,114 |  |
|  | | | | | | | | | | | | |
|  | 17,970,693.09 |  | 2,668,673 |  | 3,792,058 |  | 16,874,239 |  |  | | 586,057 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 28.8 3.26 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 50-S1 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. -5 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1933 | 655.76 |  | 646 |  | 689 |  |  |  |  |  |  |  |
| 1941 | 35.34 |  | 33 |  | 36 |  | 1 |  | 5.43 |  |  |  |
| 1949 | 129.89 |  | 115 |  | 126 |  | 10 |  | 7.89 |  | 1 |  |
| 1961 | 8,583.57 |  | 6,855 |  | 7,507 |  | 1,506 |  | 11.97 |  | 126 |  |
| 1964 | 282.82 |  | 219 |  | 240 |  | 57 |  | 13.08 |  | 4 |  |
| 1970 | 170,154.78 |  | 123,527 |  | 135,273 |  | 43,390 |  | 15.43 |  | 2,812 |  |
| 1971 | 25,419.42 |  | 18,235 |  | 19,969 |  | 6,721 |  | 15.84 |  | 424 |  |
| 1972 | 14,012.98 |  | 9,929 |  | 10,873 |  | 3,841 |  | 16.26 |  | 236 |  |
| 1973 | 3,992.47 |  | 2,793 |  | 3,059 |  | 1,133 |  | 16.69 |  | 68 |  |
| 1974 | 266,719.80 |  | 184,221 |  | 201,738 |  | 78,318 |  | 17.11 |  | 4,577 |  |
| 1975 | 16,498.26 |  | 11,243 |  | 12,312 |  | 5,011 |  | 17.55 |  | 286 |  |
| 1976 | 2,266.22 |  | 1,523 |  | 1,668 |  | 712 |  | 17.99 |  | 40 |  |
| 1978 | 84,573.75 |  | 55,235 |  | 60,487 |  | 28,315 |  | 18.90 |  | 1,498 |  |
| 1979 | 28,471.42 |  | 18,320 |  | 20,062 |  | 9,833 |  | 19.36 |  | 508 |  |
| 1980 | 10,135.84 |  | 6,420 |  | 7,030 |  | 3,613 |  | 19.84 |  | 182 |  |
| 1981 | 84,507.70 |  | 52,672 |  | 57,680 |  | 31,053 |  | 20.32 |  | 1,528 |  |
| 1983 | 66,741.28 |  | 40,225 |  | 44,050 |  | 26,028 |  | 21.30 |  | 1,222 |  |
| 1984 | 1,186.05 |  | 702 |  | 769 |  | 476 |  | 21.81 |  | 22 |  |
| 1985 | 44,180.12 |  | 25,681 |  | 28,123 |  | 18,266 |  | 22.32 |  | 818 |  |
| 1986 | 62,486.97 |  | 35,627 |  | 39,015 |  | 26,596 |  | 22.85 |  | 1,164 |  |
| 1987 | 87,679.78 |  | 49,015 |  | 53,676 |  | 38,388 |  | 23.38 |  | 1,642 |  |
| 1989 | 1,191.21 |  | 638 |  | 699 |  | 552 |  | 24.48 |  | 23 |  |
| 1990 | 43,297.25 |  | 22,695 |  | 24,853 |  | 20,609 |  | 25.04 |  | 823 |  |
| 1992 | 41,222.24 |  | 20,594 |  | 22,552 |  | 20,731 |  | 26.21 |  | 791 |  |
| 1993 | 1,895.00 |  | 923 |  | 1,011 |  | 979 |  | 26.81 |  | 37 |  |
| 1994 | 95,107.97 |  | 45,098 |  | 49,386 |  | 50,477 |  | 27.42 |  | 1,841 |  |
| 1995 | 12,987.81 |  | 5,989 |  | 6,558 |  | 7,079 |  | 28.04 |  | 252 |  |
| 1996 | 12,267.88 |  | 5,493 |  | 6,015 |  | 6,866 |  | 28.68 |  | 239 |  |
| 1997 | 5,881.01 |  | 2,553 |  | 2,796 |  | 3,379 |  | 29.33 |  | 115 |  |
| 1998 | 173,811.50 |  | 73,037 |  | 79,982 |  | 102,520 |  | 29.99 |  | 3,418 |  |
| 1999 | 88,605.56 |  | 35,968 |  | 39,388 |  | 53,648 |  | 30.67 |  | 1,749 |  |
| 2000 | 18,251.75 |  | 7,144 |  | 7,823 |  | 11,341 |  | 31.36 |  | 362 |  |
| 2001 | 1,847.26 |  | 696 |  | 762 |  | 1,178 |  | 32.07 |  | 37 |  |
| 2004 | 3,678.04 |  | 1,214 |  | 1,329 |  | 2,533 |  | 34.28 |  | 74 |  |
| 2005 | 60,713.46 |  | 19,061 |  | 20,873 |  | 42,876 |  | 35.05 |  | 1,223 |  |
| 2006 | 80,503.56 |  | 23,955 |  | 26,233 |  | 58,296 |  | 35.83 |  | 1,627 |  |
| 2007 | 39,886.61 |  | 11,191 |  | 12,255 |  | 29,626 |  | 36.64 |  | 809 |  |
| 2008 | 30,443.89 |  | 8,023 |  | 8,786 |  | 23,180 |  | 37.45 |  | 619 |  |
| 2009 | 1,224,801.10 |  | 301,191 |  | 329,831 |  | 956,210 |  | 38.29 |  | 24,973 |  |
| 2010 | 195,686.86 |  | 44,628 |  | 48,872 |  | 156,599 |  | 39.14 |  | 4,001 |  |
| 2011 | 2,129,961.07 |  | 446,845 |  | 489,334 |  | 1,747,125 |  | 40.01 |  | 43,667 |  |
| 2012 | 151,925.57 |  | 29,033 |  | 31,794 |  | 127,728 |  | 40.90 |  | 3,123 |  |
| 2013 | 664,247.68 |  | 114,383 |  | 125,259 |  | 572,201 |  | 41.80 |  | 13,689 |  |
| 2014 | 180,592.76 |  | 27,647 |  | 30,276 |  | 159,346 |  | 42.71 |  | 3,731 |  |
| 2015 | 244,567.53 |  | 32,613 |  | 35,714 |  | 221,082 |  | 43.65 |  | 5,065 |  |
| 2016 | 1,057,194.29 |  | 120,108 |  | 131,529 |  | 978,525 |  | 44.59 |  | 21,945 |  |
| 2017 | 189,113.12 |  | 17,633 |  | 19,310 |  | 179,259 |  | 45.56 |  | 3,935 |  |
| 2018 | 200,113.89 |  | 14,582 |  | 15,968 |  | 194,152 |  | 46.53 |  | 4,173 |  |
| 2019 | 264,579.64 |  | 13,835 |  | 15,151 |  | 262,658 |  | 47.51 |  | 5,528 |  |
| 2020 | 51,839.24 |  | 1,633 |  | 1,788 |  | 52,643 |  | 48.50 |  | 1,085 |  |
| 2021 | 9,626,855.79 |  | 101,082 |  | 110,693 |  | 9,997,505 |  | 49.50 |  | 201,970 |  |
|  | | | | | | | | | | | | |
|  | 17,871,784.76 |  | 2,192,721 |  | 2,401,202 |  | 16,364,172 |  |  | | 368,082 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 44.5 2.06 | | | | | | | | | | | |

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| SURVIVOR CURVE.. 15-SQUARE | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2019 | 7,797.58 |  | 1,300 |  | 1,300 |  | 6,498 |  | 12.50 |  | 520 |  |
| 2021 | 25,241.08 |  | 841 |  | 841 |  | 24,400 |  | 14.50 |  | 1,683 |  |
|  | | | | | | | | | | | | |
|  | 33,038.66 |  | 2,141 |  | 2,141 |  | 30,898 |  |  | | 2,203 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 14.0 6.67 | | | | | | | | | | | |

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| SURVIVOR CURVE.. 5-SQUARE | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2017 | 176,337.30 |  | 158,704 |  | 150,813 |  | 25,524 |  | 0.50 |  | 25,524 |  |
| 2018 | 174,183.55 |  | 121,928 |  | 115,866 |  | 58,318 |  | 1.50 |  | 38,879 |  |
| 2019 | 230,434.12 |  | 115,217 |  | 109,488 |  | 120,946 |  | 2.50 |  | 48,378 |  |
| 2020 | 719,728.58 |  | 215,919 |  | 205,183 |  | 514,546 |  | 3.50 |  | 147,013 |  |
| 2021 | 335,690.73 |  | 33,569 |  | 31,900 |  | 303,791 |  | 4.50 |  | 67,509 |  |
|  | | | | | | | | | | | | |
|  | 1,636,374.28 |  | 645,337 |  | 613,250 |  | 1,023,124 |  |  | | 327,303 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 3.1 20.00 | | | | | | | | | | | |

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| SURVIVOR CURVE.. 5-SQUARE | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2019 | 326,249.47 |  | 163,125 |  | 163,115 |  | 163,134 |  | 2.50 |  | 65,254 |  |
|  | | | | | | | | | | | | |
|  | 326,249.47 |  | 163,125 |  | 163,115 |  | 163,134 |  |  | | 65,254 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 2.5 20.00 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 14-L2.5 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. +10 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1992 | 10,541.17 |  | 8,274 |  | 9,487 |  |  |  |  |  |  |  |
| 1996 | 87.00 |  | 65 |  | 78 |  |  |  |  |  |  |  |
| 2001 | 77,095.33 |  | 52,535 |  | 69,386 |  |  |  |  |  |  |  |
| 2003 | 4,099.83 |  | 2,667 |  | 3,690 |  |  |  |  |  |  |  |
| 2005 | 5,296.48 |  | 3,289 |  | 4,689 |  | 78 |  | 4.34 |  | 18 |  |
| 2006 | 57,522.96 |  | 34,945 |  | 49,817 |  | 1,954 |  | 4.55 |  | 429 |  |
| 2008 | 320,880.26 |  | 187,302 |  | 267,016 |  | 21,776 |  | 4.92 |  | 4,426 |  |
| 2009 | 71,710.34 |  | 40,890 |  | 58,292 |  | 6,247 |  | 5.13 |  | 1,218 |  |
| 2010 | 387,423.18 |  | 214,686 |  | 306,055 |  | 42,626 |  | 5.38 |  | 7,923 |  |
| 2011 | 265,493.90 |  | 141,489 |  | 201,706 |  | 37,239 |  | 5.71 |  | 6,522 |  |
| 2012 | 437,952.50 |  | 221,292 |  | 315,472 |  | 78,685 |  | 6.14 |  | 12,815 |  |
| 2013 | 1,305,363.22 |  | 615,104 |  | 876,887 |  | 297,940 |  | 6.67 |  | 44,669 |  |
| 2014 | 880,361.08 |  | 378,620 |  | 539,757 |  | 252,568 |  | 7.31 |  | 34,551 |  |
| 2015 | 531,625.96 |  | 204,031 |  | 290,865 |  | 187,598 |  | 8.03 |  | 23,362 |  |
| 2016 | 1,482,813.26 |  | 492,829 |  | 702,573 |  | 631,959 |  | 8.83 |  | 71,570 |  |
| 2017 | 575,906.81 |  | 159,569 |  | 227,480 |  | 290,836 |  | 9.69 |  | 30,014 |  |
| 2018 | 191,377.98 |  | 41,830 |  | 59,633 |  | 112,607 |  | 10.60 |  | 10,623 |  |
| 2019 | 443,728.08 |  | 70,171 |  | 100,035 |  | 299,320 |  | 11.54 |  | 25,938 |  |
| 2020 | 874,155.17 |  | 83,733 |  | 119,369 |  | 667,371 |  | 12.51 |  | 53,347 |  |
| 2021 | 146,274.18 |  | 4,701 |  | 6,702 |  | 124,945 |  | 13.50 |  | 9,255 |  |
|  | | | | | | | | | | | | |
|  | 8,069,708.69 |  | 2,958,022 |  | 4,208,989 |  | 3,053,749 |  |  | | 336,680 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.1 4.17 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 17-L2.5 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. +10 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2000 | 8,537.74 |  | 5,451 |  | 7,684 |  |  |  |  |  |  |  |
| 2001 | 1,546.90 |  | 969 |  | 1,392 |  |  |  |  |  |  |  |
| 2002 | 139,095.85 |  | 85,569 |  | 125,186 |  |  |  |  |  |  |  |
| 2003 | 313,258.86 |  | 189,391 |  | 281,090 |  | 843 |  | 5.58 |  | 151 |  |
| 2004 | 80,860.35 |  | 48,074 |  | 71,350 |  | 1,424 |  | 5.77 |  | 247 |  |
| 2006 | 52,961.66 |  | 30,394 |  | 45,110 |  | 2,555 |  | 6.16 |  | 415 |  |
| 2007 | 187,700.56 |  | 105,433 |  | 156,482 |  | 12,449 |  | 6.39 |  | 1,948 |  |
| 2008 | 181,607.28 |  | 99,222 |  | 147,263 |  | 16,184 |  | 6.68 |  | 2,423 |  |
| 2009 | 344,056.91 |  | 181,418 |  | 269,257 |  | 40,394 |  | 7.04 |  | 5,738 |  |
| 2010 | 2,804,590.47 |  | 1,413,514 |  | 2,097,909 |  | 426,222 |  | 7.48 |  | 56,982 |  |
| 2011 | 543,194.45 |  | 258,815 |  | 384,128 |  | 104,747 |  | 8.00 |  | 13,093 |  |
| 2012 | 610,999.64 |  | 271,392 |  | 402,794 |  | 147,106 |  | 8.61 |  | 17,085 |  |
| 2013 | 2,174,576.87 |  | 886,458 |  | 1,315,663 |  | 641,456 |  | 9.30 |  | 68,974 |  |
| 2014 | 1,597,320.72 |  | 586,881 |  | 871,037 |  | 566,552 |  | 10.06 |  | 56,317 |  |
| 2015 | 3,358,156.58 |  | 1,088,043 |  | 1,614,851 |  | 1,407,490 |  | 10.88 |  | 129,365 |  |
| 2016 | 2,519,303.41 |  | 701,548 |  | 1,041,223 |  | 1,226,150 |  | 11.74 |  | 104,442 |  |
| 2017 | 1,952,170.51 |  | 450,606 |  | 668,781 |  | 1,088,172 |  | 12.64 |  | 86,090 |  |
| 2018 | 2,831,202.56 |  | 514,101 |  | 763,018 |  | 1,785,064 |  | 13.57 |  | 131,545 |  |
| 2019 | 2,592,321.68 |  | 338,975 |  | 503,100 |  | 1,829,990 |  | 14.53 |  | 125,946 |  |
| 2020 | 1,159,991.79 |  | 91,506 |  | 135,811 |  | 908,182 |  | 15.51 |  | 58,555 |  |
| 2021 | 2,514,973.90 |  | 66,569 |  | 98,801 |  | 2,164,676 |  | 16.50 |  | 131,192 |  |
|  | | | | | | | | | | | | |
|  | 25,968,428.69 |  | 7,414,329 |  | 11,001,930 |  | 12,369,656 |  |  | | 990,508 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 12.5 3.81 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 20-R4 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. +10 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2013 | 5,097,472.12 |  | 1,919,963 |  | 2,434,712 |  | 2,153,013 |  | 11.63 |  | 185,126 |  |
| 2014 | 803,925.63 |  | 268,069 |  | 339,939 |  | 383,594 |  | 12.59 |  | 30,468 |  |
| 2015 | 737,653.53 |  | 214,104 |  | 271,506 |  | 392,382 |  | 13.55 |  | 28,958 |  |
| 2016 | 1,061,044.31 |  | 261,176 |  | 331,198 |  | 623,742 |  | 14.53 |  | 42,928 |  |
| 2017 | 1,794,809.13 |  | 361,834 |  | 458,843 |  | 1,156,485 |  | 15.52 |  | 74,516 |  |
| 2018 | 1,724,095.34 |  | 270,769 |  | 343,364 |  | 1,208,322 |  | 16.51 |  | 73,187 |  |
| 2019 | 723,332.14 |  | 81,375 |  | 103,192 |  | 547,807 |  | 17.50 |  | 31,303 |  |
| 2020 | 339,270.35 |  | 22,901 |  | 29,041 |  | 276,302 |  | 18.50 |  | 14,935 |  |
| 2021 | 483,209.55 |  | 10,872 |  | 13,787 |  | 421,102 |  | 19.50 |  | 21,595 |  |
|  | | | | | | | | | | | | |
|  | 12,764,812.10 |  | 3,411,063 |  | 4,325,582 |  | 7,162,749 |  |  | | 503,016 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 14.2 3.94 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 16-L2 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. +10 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1949 | 261.37 |  | 235 |  | 235 |  |  |  |  |  |  |  |
| 1962 | 6,968.11 |  | 6,271 |  | 6,271 |  |  |  |  |  |  |  |
| 1963 | 13,792.85 |  | 12,414 |  | 12,414 |  |  |  |  |  |  |  |
| 1969 | 5,085.15 |  | 4,577 |  | 4,577 |  |  |  |  |  |  |  |
| 1975 | 652.70 |  | 587 |  | 587 |  |  |  |  |  |  |  |
| 1978 | 4,721.10 |  | 4,143 |  | 4,249 |  |  |  |  |  |  |  |
| 1979 | 3,914.17 |  | 3,397 |  | 3,523 |  |  |  |  |  |  |  |
| 1994 | 3,855.02 |  | 2,726 |  | 3,359 |  | 111 |  | 3.43 |  | 32 |  |
| 1995 | 807.87 |  | 561 |  | 691 |  | 36 |  | 3.66 |  | 10 |  |
| 1996 | 11,960.05 |  | 8,147 |  | 10,039 |  | 725 |  | 3.89 |  | 186 |  |
| 1997 | 9,872.66 |  | 6,592 |  | 8,123 |  | 762 |  | 4.13 |  | 185 |  |
| 1998 | 96,310.35 |  | 63,005 |  | 77,635 |  | 9,044 |  | 4.37 |  | 2,070 |  |
| 2001 | 8,966.62 |  | 5,483 |  | 6,756 |  | 1,314 |  | 5.13 |  | 256 |  |
| 2002 | 3,040.16 |  | 1,816 |  | 2,238 |  | 498 |  | 5.38 |  | 93 |  |
| 2004 | 21,604.28 |  | 12,310 |  | 15,168 |  | 4,276 |  | 5.87 |  | 728 |  |
| 2005 | 23,787.94 |  | 13,233 |  | 16,306 |  | 5,103 |  | 6.11 |  | 835 |  |
| 2006 | 96,351.94 |  | 52,301 |  | 64,446 |  | 22,271 |  | 6.35 |  | 3,507 |  |
| 2007 | 243,920.86 |  | 129,109 |  | 159,089 |  | 60,440 |  | 6.59 |  | 9,171 |  |
| 2008 | 89,006.02 |  | 45,811 |  | 56,449 |  | 23,656 |  | 6.85 |  | 3,453 |  |
| 2009 | 609,780.82 |  | 303,900 |  | 374,468 |  | 174,335 |  | 7.14 |  | 24,417 |  |
| 2010 | 235,914.93 |  | 113,328 |  | 139,644 |  | 72,679 |  | 7.46 |  | 9,742 |  |
| 2011 | 319,839.69 |  | 146,806 |  | 180,895 |  | 106,961 |  | 7.84 |  | 13,643 |  |
| 2012 | 787,961.68 |  | 341,733 |  | 421,086 |  | 288,080 |  | 8.29 |  | 34,750 |  |
| 2013 | 571,159.73 |  | 231,001 |  | 284,641 |  | 229,403 |  | 8.81 |  | 26,039 |  |
| 2014 | 593,244.09 |  | 219,238 |  | 270,147 |  | 263,773 |  | 9.43 |  | 27,972 |  |
| 2015 | 778,010.64 |  | 256,452 |  | 316,002 |  | 384,208 |  | 10.14 |  | 37,890 |  |
| 2016 | 730,725.95 |  | 208,805 |  | 257,291 |  | 400,362 |  | 10.92 |  | 36,663 |  |
| 2017 | 1,074,122.93 |  | 256,178 |  | 315,665 |  | 651,046 |  | 11.76 |  | 55,361 |  |
| 2018 | 543,863.68 |  | 102,790 |  | 126,659 |  | 362,818 |  | 12.64 |  | 28,704 |  |
| 2019 | 812,448.27 |  | 111,509 |  | 137,402 |  | 593,801 |  | 13.56 |  | 43,791 |  |
| 2020 | 305,171.25 |  | 25,576 |  | 31,515 |  | 243,139 |  | 14.51 |  | 16,757 |  |
| 2021 | 283,798.61 |  | 7,982 |  | 9,835 |  | 245,584 |  | 15.50 |  | 15,844 |  |
|  | | | | | | | | | | | | |
|  | 8,290,921.49 |  | 2,698,016 |  | 3,317,405 |  | 4,144,424 |  |  | | 392,099 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 10.6 4.73 | | | | | | | | | | | |

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| SURVIVOR CURVE.. 25-SQUARE | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2004 | 1,000.00 |  | 700 |  | 700 |  | 300 |  | 7.50 |  | 40 |  |
| 2006 | 20,365.23 |  | 12,626 |  | 12,626 |  | 7,739 |  | 9.50 |  | 815 |  |
| 2007 | 180,227.08 |  | 104,532 |  | 104,534 |  | 75,693 |  | 10.50 |  | 7,209 |  |
| 2008 | 77,674.33 |  | 41,944 |  | 41,945 |  | 35,729 |  | 11.50 |  | 3,107 |  |
| 2009 | 55,664.99 |  | 27,832 |  | 27,832 |  | 27,833 |  | 12.50 |  | 2,227 |  |
| 2010 | 6,918.15 |  | 3,182 |  | 3,182 |  | 3,736 |  | 13.50 |  | 277 |  |
| 2011 | 4,951.93 |  | 2,080 |  | 2,080 |  | 2,872 |  | 14.50 |  | 198 |  |
| 2015 | 5,177.44 |  | 1,346 |  | 1,346 |  | 3,831 |  | 18.50 |  | 207 |  |
| 2016 | 35,486.67 |  | 7,807 |  | 7,807 |  | 27,680 |  | 19.50 |  | 1,419 |  |
| 2021 | 85,317.54 |  | 1,706 |  | 1,706 |  | 83,611 |  | 24.50 |  | 3,413 |  |
|  | | | | | | | | | | | | |
|  | 472,783.36 |  | 203,755 |  | 203,758 |  | 269,025 |  |  | | 18,912 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 14.2 4.00 | | | | | | | | | | | |

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| SURVIVOR CURVE.. 20-SQUARE | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2002 | 17,431.56 |  | 16,996 |  | 16,986 |  | 446 |  | 0.50 |  | 446 |  |
| 2003 | 113,615.96 |  | 105,095 |  | 105,035 |  | 8,581 |  | 1.50 |  | 5,721 |  |
| 2004 | 69,562.35 |  | 60,867 |  | 60,833 |  | 8,729 |  | 2.50 |  | 3,492 |  |
| 2005 | 172,185.82 |  | 142,053 |  | 141,973 |  | 30,213 |  | 3.50 |  | 8,632 |  |
| 2006 | 363,914.03 |  | 282,033 |  | 281,873 |  | 82,041 |  | 4.50 |  | 18,231 |  |
| 2007 | 343,127.81 |  | 248,768 |  | 248,627 |  | 94,501 |  | 5.50 |  | 17,182 |  |
| 2008 | 106,854.20 |  | 72,127 |  | 72,086 |  | 34,768 |  | 6.50 |  | 5,349 |  |
| 2009 | 101,946.64 |  | 63,717 |  | 63,681 |  | 38,266 |  | 7.50 |  | 5,102 |  |
| 2010 | 38,716.37 |  | 22,262 |  | 22,249 |  | 16,467 |  | 8.50 |  | 1,937 |  |
| 2011 | 121,620.41 |  | 63,851 |  | 63,815 |  | 57,805 |  | 9.50 |  | 6,085 |  |
| 2012 | 333,150.73 |  | 158,247 |  | 158,157 |  | 174,994 |  | 10.50 |  | 16,666 |  |
| 2013 | 10,976.58 |  | 4,665 |  | 4,662 |  | 6,315 |  | 11.50 |  | 549 |  |
| 2014 | 186,059.91 |  | 69,772 |  | 69,733 |  | 116,327 |  | 12.50 |  | 9,306 |  |
| 2015 | 857,732.96 |  | 278,763 |  | 278,605 |  | 579,128 |  | 13.50 |  | 42,898 |  |
| 2016 | 102,258.31 |  | 28,121 |  | 28,105 |  | 74,153 |  | 14.50 |  | 5,114 |  |
| 2017 | 165,800.42 |  | 37,305 |  | 37,284 |  | 128,516 |  | 15.50 |  | 8,291 |  |
| 2018 | 1,311,126.59 |  | 229,447 |  | 229,317 |  | 1,081,810 |  | 16.50 |  | 65,564 |  |
| 2019 | 1,318,262.84 |  | 164,783 |  | 164,690 |  | 1,153,573 |  | 17.50 |  | 65,918 |  |
| 2020 | 896,881.54 |  | 67,266 |  | 67,228 |  | 829,654 |  | 18.50 |  | 44,846 |  |
| 2021 | 765,050.86 |  | 19,126 |  | 19,115 |  | 745,936 |  | 19.50 |  | 38,253 |  |
|  | | | | | | | | | | | | |
|  | 7,396,275.89 |  | 2,135,264 |  | 2,134,054 |  | 5,262,222 |  |  | | 369,582 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 14.2 5.00 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 10-S2.5 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2015 | 51,258.01 |  | 30,345 |  | 31,759 |  | 19,499 |  | 4.08 |  | 4,779 |  |
| 2017 | 62,583.22 |  | 27,224 |  | 28,492 |  | 34,091 |  | 5.65 |  | 6,034 |  |
| 2019 | 3,388.86 |  | 844 |  | 883 |  | 2,506 |  | 7.51 |  | 334 |  |
|  | | | | | | | | | | | | |
|  | 117,230.09 |  | 58,413 |  | 61,134 |  | 56,096 |  |  | | 11,147 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.0 9.51 | | | | | | | | | | | |

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| SURVIVOR CURVE.. 15-SQUARE | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2007 | 35,970.89 |  | 34,772 |  | 34,385 |  | 1,586 |  | 0.50 |  | 1,586 |  |
| 2008 | 14,532.23 |  | 13,079 |  | 12,933 |  | 1,599 |  | 1.50 |  | 1,066 |  |
| 2009 | 78,185.98 |  | 65,155 |  | 64,430 |  | 13,756 |  | 2.50 |  | 5,502 |  |
| 2010 | 29,068.35 |  | 22,286 |  | 22,038 |  | 7,030 |  | 3.50 |  | 2,009 |  |
| 2014 | 101,438.94 |  | 50,719 |  | 50,155 |  | 51,284 |  | 7.50 |  | 6,838 |  |
| 2017 | 143,351.76 |  | 43,006 |  | 42,527 |  | 100,825 |  | 10.50 |  | 9,602 |  |
| 2018 | 375,480.14 |  | 87,611 |  | 86,636 |  | 288,844 |  | 11.50 |  | 25,117 |  |
| 2019 | 681,771.38 |  | 113,631 |  | 112,366 |  | 569,405 |  | 12.50 |  | 45,552 |  |
| 2020 | 197,276.95 |  | 19,728 |  | 19,509 |  | 177,768 |  | 13.50 |  | 13,168 |  |
| 2021 | 1,244,423.58 |  | 41,477 |  | 41,015 |  | 1,203,408 |  | 14.50 |  | 82,994 |  |
|  | | | | | | | | | | | | |
|  | 2,901,500.20 |  | 491,464 |  | 485,994 |  | 2,415,506 |  |  | | 193,434 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 12.5 6.67 | | | | | | | | | | | |

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| SURVIVOR CURVE.. 15-SQUARE | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2018 | 250,827.91 |  | 58,526 |  | 58,418 |  | 192,410 |  | 11.50 |  | 16,731 |  |
| 2021 | 3,055.54 |  | 102 |  | 101 |  | 2,954 |  | 14.50 |  | 204 |  |
|  | | | | | | | | | | | | |
|  | 253,883.45 |  | 58,628 |  | 58,519 |  | 195,364 |  |  | | 16,935 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 11.5 6.67 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 16-L2 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1983 | 16,727.50 |  | 15,410 |  | 16,728 |  |  |  |  |  |  |  |
| 1985 | 21,906.06 |  | 19,688 |  | 21,906 |  |  |  |  |  |  |  |
| 1986 | 89,867.15 |  | 79,757 |  | 89,867 |  |  |  |  |  |  |  |
| 1987 | 2,104.00 |  | 1,842 |  | 2,104 |  |  |  |  |  |  |  |
| 1991 | 1,765.16 |  | 1,457 |  | 1,765 |  |  |  |  |  |  |  |
| 1992 | 113,349.04 |  | 92,166 |  | 113,349 |  |  |  |  |  |  |  |
| 1993 | 73,072.19 |  | 58,412 |  | 72,736 |  | 336 |  | 3.21 |  | 105 |  |
| 1994 | 207,699.32 |  | 163,173 |  | 203,187 |  | 4,512 |  | 3.43 |  | 1,315 |  |
| 1995 | 50,753.96 |  | 39,144 |  | 48,743 |  | 2,011 |  | 3.66 |  | 549 |  |
| 1996 | 41,595.96 |  | 31,483 |  | 39,203 |  | 2,393 |  | 3.89 |  | 615 |  |
| 1997 | 331,489.46 |  | 245,925 |  | 306,232 |  | 25,257 |  | 4.13 |  | 6,115 |  |
| 1999 | 114,069.10 |  | 81,132 |  | 101,028 |  | 13,041 |  | 4.62 |  | 2,823 |  |
| 2000 | 25,359.90 |  | 17,641 |  | 21,967 |  | 3,393 |  | 4.87 |  | 697 |  |
| 2005 | 101,167.86 |  | 62,534 |  | 77,869 |  | 23,299 |  | 6.11 |  | 3,813 |  |
| 2007 | 234,484.94 |  | 137,905 |  | 171,723 |  | 62,762 |  | 6.59 |  | 9,524 |  |
| 2009 | 863,738.27 |  | 478,295 |  | 595,586 |  | 268,152 |  | 7.14 |  | 37,556 |  |
| 2010 | 930,586.57 |  | 496,701 |  | 618,505 |  | 312,082 |  | 7.46 |  | 41,834 |  |
| 2011 | 95,020.67 |  | 48,461 |  | 60,345 |  | 34,676 |  | 7.84 |  | 4,423 |  |
| 2012 | 1,015,146.10 |  | 489,179 |  | 609,139 |  | 406,007 |  | 8.29 |  | 48,976 |  |
|  | | | | | | | | | | | | |
|  | 4,329,903.21 |  | 2,560,305 |  | 3,171,982 |  | 1,157,921 |  |  | | 158,345 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.3 3.66 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 24-S1 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1977 | 84,471.67 |  | 81,163 |  | 84,472 |  |  |  |  |  |  |  |
| 1979 | 1,146.08 |  | 1,075 |  | 1,146 |  |  |  |  |  |  |  |
| 1981 | 7,579.03 |  | 6,929 |  | 7,579 |  |  |  |  |  |  |  |
| 1982 | 69,493.09 |  | 62,688 |  | 69,493 |  |  |  |  |  |  |  |
| 1984 | 167,281.33 |  | 146,719 |  | 167,281 |  |  |  |  |  |  |  |
| 1985 | 278,254.23 |  | 240,573 |  | 278,254 |  |  |  |  |  |  |  |
| 1986 | 327,971.47 |  | 279,186 |  | 327,971 |  |  |  |  |  |  |  |
| 1987 | 296,664.85 |  | 248,703 |  | 296,665 |  |  |  |  |  |  |  |
| 1988 | 153,169.88 |  | 126,301 |  | 153,170 |  |  |  |  |  |  |  |
| 1989 | 100,742.97 |  | 81,685 |  | 100,743 |  |  |  |  |  |  |  |
| 1992 | 43,283.01 |  | 33,220 |  | 43,283 |  |  |  |  |  |  |  |
| 1993 | 275,773.43 |  | 207,520 |  | 275,773 |  |  |  |  |  |  |  |
| 1995 | 512,220.88 |  | 369,224 |  | 512,221 |  |  |  |  |  |  |  |
| 1996 | 819,681.21 |  | 577,531 |  | 819,681 |  |  |  |  |  |  |  |
| 1997 | 199,198.92 |  | 136,949 |  | 199,199 |  |  |  |  |  |  |  |
| 1998 | 35,621.76 |  | 23,867 |  | 35,622 |  |  |  |  |  |  |  |
| 1999 | 687,432.55 |  | 448,261 |  | 687,433 |  |  |  |  |  |  |  |
| 2000 | 78,631.82 |  | 49,833 |  | 78,632 |  |  |  |  |  |  |  |
| 2003 | 768,654.95 |  | 441,654 |  | 702,164 |  | 66,491 |  | 10.21 |  | 6,512 |  |
| 2004 | 211,215.90 |  | 116,872 |  | 185,809 |  | 25,407 |  | 10.72 |  | 2,370 |  |
| 2005 | 192,766.92 |  | 102,407 |  | 162,812 |  | 29,955 |  | 11.25 |  | 2,663 |  |
| 2006 | 755,350.90 |  | 383,658 |  | 609,959 |  | 145,392 |  | 11.81 |  | 12,311 |  |
| 2007 | 237,179.47 |  | 114,835 |  | 182,570 |  | 54,609 |  | 12.38 |  | 4,411 |  |
| 2008 | 1,947,115.07 |  | 894,057 |  | 1,421,417 |  | 525,698 |  | 12.98 |  | 40,501 |  |
| 2009 | 2,194,524.08 |  | 950,953 |  | 1,511,873 |  | 682,651 |  | 13.60 |  | 50,195 |  |
| 2010 | 9,081,630.87 |  | 3,689,413 |  | 5,865,614 |  | 3,216,017 |  | 14.25 |  | 225,685 |  |
| 2012 | 2,342,263.72 |  | 815,881 |  | 1,297,128 |  | 1,045,135 |  | 15.64 |  | 66,824 |  |
|  | | | | | | | | | | | | |
|  | 21,869,320.06 |  | 10,631,157 |  | 16,077,964 |  | 5,791,356 |  |  | | 411,472 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 14.1 1.88 | | | | | | | | | | | |

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| SURVIVOR CURVE.. IOWA 16-S0 | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2005 | 112,824.21 |  | 69,528 |  | 95,831 |  | 16,993 |  | 6.14 |  | 2,768 |  |
| 2006 | 35,595.45 |  | 20,934 |  | 28,853 |  | 6,742 |  | 6.59 |  | 1,023 |  |
| 2007 | 38,007.61 |  | 21,284 |  | 29,336 |  | 8,672 |  | 7.04 |  | 1,232 |  |
| 2008 | 274,599.64 |  | 145,708 |  | 200,830 |  | 73,770 |  | 7.51 |  | 9,823 |  |
| 2009 | 84,268.93 |  | 42,187 |  | 58,147 |  | 26,122 |  | 7.99 |  | 3,269 |  |
| 2010 | 729,458.94 |  | 342,846 |  | 472,546 |  | 256,913 |  | 8.48 |  | 30,296 |  |
| 2011 | 464,930.96 |  | 203,696 |  | 280,755 |  | 184,176 |  | 8.99 |  | 20,487 |  |
| 2012 | 214,433.36 |  | 86,978 |  | 119,882 |  | 94,551 |  | 9.51 |  | 9,942 |  |
| 2013 | 145,044.60 |  | 53,939 |  | 74,344 |  | 70,701 |  | 10.05 |  | 7,035 |  |
| 2014 | 167,960.67 |  | 56,583 |  | 77,989 |  | 89,972 |  | 10.61 |  | 8,480 |  |
| 2015 | 90,557.77 |  | 27,167 |  | 37,444 |  | 53,114 |  | 11.20 |  | 4,742 |  |
| 2016 | 230,457.18 |  | 60,352 |  | 83,184 |  | 147,273 |  | 11.81 |  | 12,470 |  |
| 2017 | 364,425.77 |  | 80,629 |  | 111,132 |  | 253,294 |  | 12.46 |  | 20,329 |  |
| 2018 | 564,305.77 |  | 100,870 |  | 139,030 |  | 425,276 |  | 13.14 |  | 32,365 |  |
| 2019 | 403,278.71 |  | 53,684 |  | 73,993 |  | 329,286 |  | 13.87 |  | 23,741 |  |
| 2020 | 81,132.12 |  | 6,795 |  | 9,365 |  | 71,767 |  | 14.66 |  | 4,895 |  |
| 2021 | 55,985.42 |  | 1,680 |  | 2,316 |  | 53,670 |  | 15.52 |  | 3,458 |  |
|  | | | | | | | | | | | | |
|  | 4,057,267.11 |  | 1,374,860 |  | 1,894,977 |  | 2,162,290 |  |  | | 196,355 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 11.0 4.84 | | | | | | | | | | | |

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| SURVIVOR CURVE.. 15-SQUARE | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2007 | 3,643,256.73 |  | 3,521,827 |  | 3,476,006 |  | 167,251 |  | 0.50 |  | 167,251 |  |
| 2008 | 4,104,208.29 |  | 3,693,787 |  | 3,645,729 |  | 458,479 |  | 1.50 |  | 305,653 |  |
| 2009 | 2,487,122.24 |  | 2,072,594 |  | 2,045,628 |  | 441,494 |  | 2.50 |  | 176,598 |  |
| 2010 | 2,496,255.90 |  | 1,913,805 |  | 1,888,905 |  | 607,351 |  | 3.50 |  | 173,529 |  |
| 2011 | 2,896,296.92 |  | 2,027,408 |  | 2,001,030 |  | 895,267 |  | 4.50 |  | 198,948 |  |
| 2012 | 4,614,813.01 |  | 2,922,700 |  | 2,884,674 |  | 1,730,139 |  | 5.50 |  | 314,571 |  |
| 2013 | 4,501,347.26 |  | 2,550,778 |  | 2,517,591 |  | 1,983,756 |  | 6.50 |  | 305,193 |  |
| 2014 | 4,712,884.31 |  | 2,356,442 |  | 2,325,783 |  | 2,387,101 |  | 7.50 |  | 318,280 |  |
| 2015 | 3,061,410.29 |  | 1,326,601 |  | 1,309,341 |  | 1,752,069 |  | 8.50 |  | 206,126 |  |
| 2016 | 2,511,899.45 |  | 921,038 |  | 909,055 |  | 1,602,844 |  | 9.50 |  | 168,720 |  |
| 2017 | 2,003,809.63 |  | 601,143 |  | 593,322 |  | 1,410,488 |  | 10.50 |  | 134,332 |  |
| 2018 | 1,878,781.70 |  | 438,376 |  | 432,672 |  | 1,446,110 |  | 11.50 |  | 125,749 |  |
| 2019 | 1,745,675.86 |  | 290,952 |  | 287,167 |  | 1,458,509 |  | 12.50 |  | 116,681 |  |
| 2020 | 3,768,842.58 |  | 376,884 |  | 371,981 |  | 3,396,862 |  | 13.50 |  | 251,619 |  |
| 2021 | 1,676,492.76 |  | 55,878 |  | 55,151 |  | 1,621,342 |  | 14.50 |  | 111,817 |  |
|  | | | | | | | | | | | | |
|  | 46,103,096.93 |  | 25,070,213 |  | 24,744,035 |  | 21,359,062 |  |  | | 3,075,067 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.9 6.67 | | | | | | | | | | | |

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| SURVIVOR CURVE.. 15-SQUARE | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2014 | 164,776.10 |  | 82,388 |  | 82,313 |  | 82,463 |  | 7.50 |  | 10,995 |  |
| 2015 | 131,124.18 |  | 56,820 |  | 56,768 |  | 74,356 |  | 8.50 |  | 8,748 |  |
| 2016 | 599,508.16 |  | 219,822 |  | 219,621 |  | 379,887 |  | 9.50 |  | 39,988 |  |
| 2017 | 142,898.78 |  | 42,870 |  | 42,831 |  | 100,068 |  | 10.50 |  | 9,530 |  |
| 2018 | 305,455.26 |  | 71,272 |  | 71,206 |  | 234,249 |  | 11.50 |  | 20,369 |  |
| 2019 | 652,787.50 |  | 108,800 |  | 108,700 |  | 544,088 |  | 12.50 |  | 43,527 |  |
| 2020 | 348,623.75 |  | 34,862 |  | 34,830 |  | 313,794 |  | 13.50 |  | 23,244 |  |
| 2021 | 1,192,651.64 |  | 39,751 |  | 39,715 |  | 1,152,937 |  | 14.50 |  | 79,513 |  |
|  | | | | | | | | | | | | |
|  | 3,537,825.37 |  | 656,585 |  | 655,984 |  | 2,881,841 |  |  | | 235,914 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 12.2 6.67 | | | | | | | | | | | |

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| SURVIVOR CURVE.. 15-SQUARE | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2020 | 342,491.50 |  | 34,249 |  | 34,049 |  | 308,442 |  | 13.50 |  | 22,848 |  |
| 2021 | 221,472.98 |  | 7,382 |  | 7,338 |  | 214,135 |  | 14.50 |  | 14,768 |  |
|  | | | | | | | | | | | | |
|  | 563,964.48 |  | 41,631 |  | 41,387 |  | 522,577 |  |  | | 37,616 |  |
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|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 13.9 6.67 | | | | | | | | | | | |

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| SURVIVOR CURVE.. 10-SQUARE | | | | | | | | | | | | |
| NET SALVAGE PERCENT.. 0 | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 2012 | 17,352.88 |  | 16,485 |  | 16,286 |  | 1,067 |  | 0.50 |  | 1,067 |  |
| 2013 | 63,764.84 |  | 54,200 |  | 53,544 |  | 10,221 |  | 1.50 |  | 6,814 |  |
| 2014 | 43,349.30 |  | 32,512 |  | 32,119 |  | 11,230 |  | 2.50 |  | 4,492 |  |
| 2016 | 12,672.06 |  | 6,970 |  | 6,886 |  | 5,786 |  | 4.50 |  | 1,286 |  |
| 2017 | 1,703.32 |  | 766 |  | 757 |  | 946 |  | 5.50 |  | 172 |  |
| 2018 | 2,322.60 |  | 813 |  | 803 |  | 1,520 |  | 6.50 |  | 234 |  |
| 2019 | 47,643.32 |  | 11,911 |  | 11,767 |  | 35,876 |  | 7.50 |  | 4,783 |  |
| 2020 | 85,132.90 |  | 12,770 |  | 12,615 |  | 72,518 |  | 8.50 |  | 8,532 |  |
| 2021 | 14,607.35 |  | 730 |  | 721 |  | 13,886 |  | 9.50 |  | 1,462 |  |
|  | | | | | | | | | | | | |
|  | 288,548.57 |  | 137,157 |  | 135,498 |  | 153,051 |  |  | | 28,842 |  |
|  | | | | | | | | | | | | |
|  | COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.3 10.00 | | | | | | | | | | | |