## Page 1 of 1

1	Q.	Depreciation
2		Further to IC-NLH-045 above, please provide the ELG theoretical retirements by
3		year for new investment under the Iowa 110-R4 curve.
4		
5		
6	A.	This response was provided by Concentric Advisors.
7		
8		IC-NLH-046, Attachment 1 provides the ratios of percent surviving at each
9		5 <sup>th</sup> percentage interval (as expressed by the age as a percentage of the average
10		service life) for the R2, R3, R4, and R5 Iowa curves. The theoretical retirements for
11		each 5 percent interval can be determined by calculating the difference between
12		the percentages surviving at each interval.

## Statistical Analyses of Industrial Property Retirements

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ENGINEERING RESEARCH INSTITUTE IOWA STATE UNIVERSITY · AMES, IOWA

Table 21.—Percent Surviving and Probable Lives for the 18 Type Curves (Concluded)

	Type curve R2	Type curve R3	Type curve R4	Type curve Rs
Age, % of average life	Percent surviving Probable life, % of average life	Percent surviving Probable life, % of average life	Percent surviving Probable life, % of average life	Percent surviving Probable life, % of average life
0 5 10 15 20	100.00000 100.00092 99.48111 100.50914 98.87057 101.08309 98.15646 101.72709 97.32592 102.4453	99.94867 100.05019 99.85318 100.13849 99.69592 100.27647	99.98287 100.01658 99.96090 100.03575 99.92061 100.06894	100.00000 99.99926 100.00000 99.99926 100.00000 99.99926
25 30 35 40 45	96.36501 103.24196 95.25872 104.1209 93.99084 105.0863 92.54394 106.1422 90.89923 107.2928	98.57396 101.14676 4 97.88368 101.63005 3 96.98056 102.22631	99.72952 100.21114 99.53311 100.34439 99.22264 100.54048 98.74727 100.81910	100.00000 99.99920 99.99998 99.99928 99.99916 99.99978 99.99100 100.00441
50 55 60 65 70	89.03665 108.5426 86.93499 109.8963 84.57215 111.3589 81.92576 112.9357 78.97413 114.6322	2 92.67565 104.73329 2 90.61418 105.80632 4 88.18463 106.99765	95.59608 102.36961 93.65182 103.19487	99. 49249 100. 22610 99. 49249 100. 22610 98. 80274 100. 48760 97. 53512 100. 91344
75 80 85 90 95	75.69756 116.4542 72.08034 118.4071 68.11319 120.4964 63.79627 122.7270 59.14268 125.1032	77.98427 111.42963 3 73.31231 113.26927 04 67.88278 115.3258	7 78.55460 108.3340 4 72.42015 110.0916	91.94655 102.44126 186.55794 103.67216 2 78.54068 105.30806 67.46899 107.39151
100 105 110 115 120	54.18204 127.6284 48.96386 130.3044 43.56001 133.132 38.06547 136.109 32.59660 139.233	47.37036 122.8991 39.64975 125.8962 31.96276 129.1207	6 33.97478 120.6825 4 24.00508 124.1027	38.27696 112.9014 1 23.63847 116.27956 2 12.08071 120.03018
125 130 135 140 145	27.28563 142.493 22.27111 145.876 17.68375 149.357 13.62898 152.901 10.16905 156.464	18.17891 136.1772 15 12.75178 139.9074 08 8.54418 143.6124 5.45808 147.1405	3 4.80402 135.0220 3 2.02527 138.7853 0 0.59682 142.6349	6 0.29276 131.6926 8 0.00536 135.6309 0.00000 140.0000
150 155 160 165 170	7.31033 160.002 5.00541 163.498 3.18217 166.991 1.80076 170.534 0.84904 174.131	12	0.00000 155.0000	90
175 180 185 190	0.28968 0.04712 181.492 0.00007 185.500 0.00000	00		

Table 22.—Total Renewals in Percent for Type Curves (Intervals corresponding to 10 years average life)

 $R_1 \dagger$   $R_2 *$   $R_3 *$   $R_4 *$   $R_4 *$ 81t S2t S3t S4\* TYPE CURVE Sit 80% 0.00 Le\* L.\* 0.00 0.11 Lat  $L_1 \dagger$ 4.82 Lo\* Age-interval, percent of average life 300 997