Comparison of half-life to lifetime scaling
Permanent Losses with No Auditing
RBLandau 20151205

Based on MIDMEANS, sample size 21

HL = sector lifetime stated as half-life

lifem	c1	c2	c3	c4	c5	c8
3	6859.27	4678.09	3215.91	2191.27	1502.36	480.64
5	5023.27	2496.64	1252.09	622.73	313.45	37.55
10	2935.09	854.36	249.18	76.09	22	0.18
20	1588.91	249	40.55	7.55	1.18	0
30	1093.73	114.36	13.18	1.27	0	0
50	673.73	43.55	2.64	0	0	0
100	341.55	11.09	0.18	0	0	0
200	171	2.55	0	0	0	0
300	117.82	0.91	0	0	0	0
500	70.09	0.27	0	0	0	0
1000	36.64	0	0	0	0	0

Q3 = sector lifetime stated as mean exponential lifetime

lifem	c1	c2	c3	c4	c5	c8
3	8094.43	6571.86	5326.29	4327.14	3506.43	1869.14
5	6296.43	3979.86	2525.14	1597.71	1008.71	246.71
10	3911	1533.43	614	240.71	93.86	4.29
20	2217.14	480.14	110.29	24	4.29	0
30	1539.29	236	34.86	5.29	0.71	0
50	938.86	88	7.14	0.71	0	0
100	478.86	19.57	1	0	0	0
200	244.14	4	0	0	0	0
300	162.14	1.86	0	0	0	0
500	97.29	1	0	0	0	0
1000	47.43	0	0	0	0	0

Ratio of losses for half-life over losses for mean lifetime
(Note that ln2 = 0.693, so one would expect about 70%)

HL / Q3 %

lifem	c1	c2	c3	c4	c5	c8
3	85	71	60	51	43	26
5	80	63	50	39	31	15
10	75	56	41	32	23	4
20	72	52	37	31	28	
30	71	48	38	24	0	
50	72	49	37	0		
100	71	57	18			
200	70	64				
300	73	49				
500	72	27				
1000	77					