

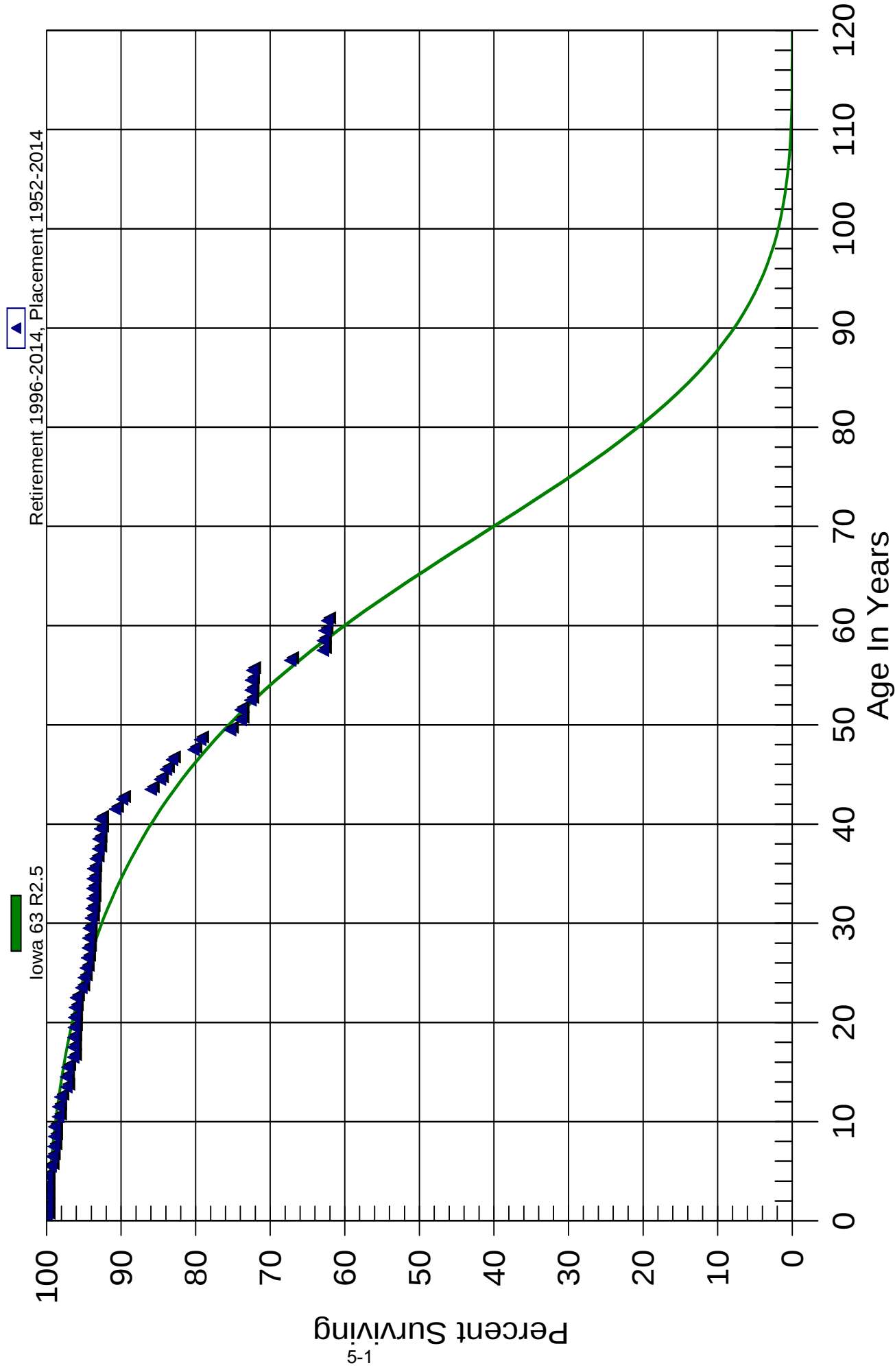
SECTION 5

Montana-Dakota Utilities Company

Electric Plant

311.00 Steam Production Structures & Improvement

Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant

311.00 Steam Production Structures & Improvement

Observed Life Table

Retirement Expr. 1996 TO 2014

Placement Years 1952 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$35,762,475.30	\$0.00	0.00000	100.00
0.5 - 1.5	\$34,121,099.54	\$0.00	0.00000	100.00
1.5 - 2.5	\$18,951,577.88	\$0.00	0.00000	100.00
2.5 - 3.5	\$19,241,971.04	\$2,793.19	0.00015	100.00
3.5 - 4.5	\$18,439,838.44	\$0.00	0.00000	99.99
4.5 - 5.5	\$14,723,206.42	\$74,614.95	0.00507	99.99
5.5 - 6.5	\$13,497,427.32	\$24,284.30	0.00180	99.48
6.5 - 7.5	\$12,703,239.36	\$29,410.20	0.00232	99.30
7.5 - 8.5	\$10,526,019.72	\$8,753.55	0.00083	99.07
8.5 - 9.5	\$9,773,645.11	\$0.00	0.00000	98.99
9.5 - 10.5	\$9,331,124.98	\$50,166.02	0.00538	98.99
10.5 - 11.5	\$9,458,775.21	\$1,340.73	0.00014	98.46
11.5 - 12.5	\$9,499,499.06	\$28,346.16	0.00298	98.44
12.5 - 13.5	\$9,119,182.53	\$73,496.69	0.00806	98.15
13.5 - 14.5	\$8,436,479.78	(\$3,951.15)	-0.00047	97.36
14.5 - 15.5	\$30,646,155.45	\$58,866.38	0.00192	97.40
15.5 - 16.5	\$29,722,060.71	\$234,409.87	0.00789	97.22
16.5 - 17.5	\$29,152,591.76	\$6,817.94	0.00023	96.45
17.5 - 18.5	\$28,625,072.40	\$2,500.00	0.00009	96.43
18.5 - 19.5	\$28,256,606.68	\$25,726.28	0.00091	96.42
19.5 - 20.5	\$28,137,653.75	\$6,238.75	0.00022	96.33
20.5 - 21.5	\$35,480,787.34	\$40,142.78	0.00113	96.31
21.5 - 22.5	\$34,448,716.50	\$52,711.84	0.00153	96.20
22.5 - 23.5	\$34,357,987.31	\$257,856.49	0.00750	96.05
23.5 - 24.5	\$34,055,883.39	\$123,835.66	0.00364	95.33
24.5 - 25.5	\$33,846,085.75	\$91,166.55	0.00269	94.98
25.5 - 26.5	\$33,467,684.25	\$58,976.55	0.00176	94.73
26.5 - 27.5	\$33,399,772.47	\$39,981.82	0.00120	94.56
27.5 - 28.5	\$33,283,664.68	\$19,515.00	0.00059	94.45
28.5 - 29.5	\$33,086,100.55	\$15,607.99	0.00047	94.39
29.5 - 30.5	\$32,157,053.20	\$100,168.73	0.00311	94.35
30.5 - 31.5	\$31,293,587.38	\$28,816.84	0.00092	94.05
31.5 - 32.5	\$31,172,755.86	\$36,693.07	0.00118	93.97
32.5 - 33.5	\$31,357,701.40	\$6,806.97	0.00022	93.86
33.5 - 34.5	\$8,303,184.19	\$3,500.00	0.00042	93.84
34.5 - 35.5	\$8,280,549.81	\$5,675.00	0.00069	93.80

Montana-Dakota Utilities Company
Electric Plant

311.00 Steam Production Structures & Improvement

Observed Life Table

Retirement Expr. 1996 TO 2014

Placement Years 1952 TO 2014

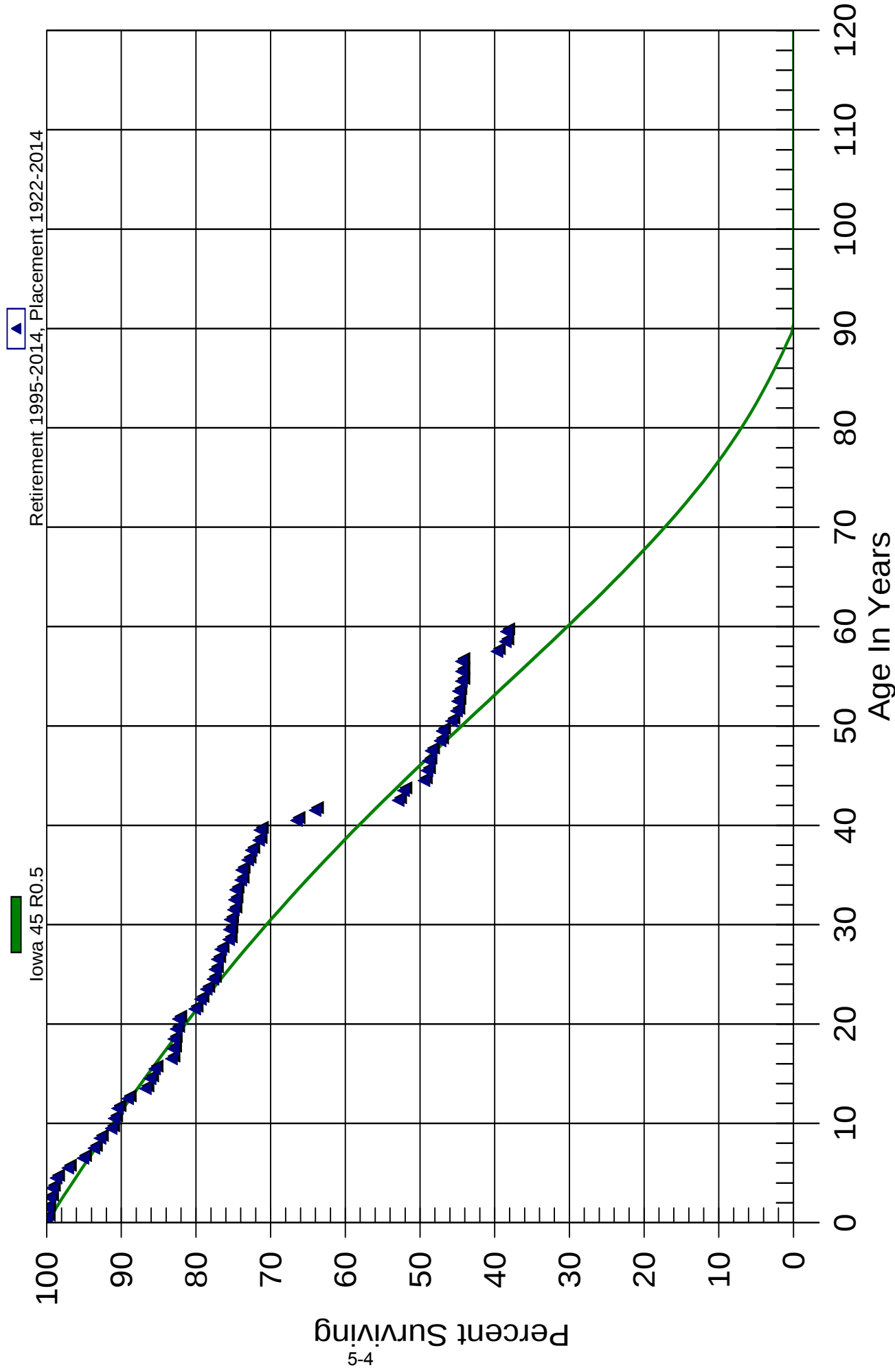
Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$8,211,993.79	\$27,066.20	0.00330	93.73
36.5 - 37.5	\$8,322,309.81	\$32,364.82	0.00389	93.42
37.5 - 38.5	\$9,844,572.89	\$3,597.98	0.00037	93.06
38.5 - 39.5	\$9,806,405.38	\$22,582.63	0.00230	93.03
39.5 - 40.5	\$2,386,444.00	\$0.00	0.00000	92.81
40.5 - 41.5	\$2,385,431.62	\$51,000.00	0.02138	92.81
41.5 - 42.5	\$2,765,501.19	\$29,359.40	0.01062	90.83
42.5 - 43.5	\$2,834,641.79	\$120,500.00	0.04251	89.86
43.5 - 44.5	\$2,721,891.79	\$40,000.00	0.01470	86.04
44.5 - 45.5	\$2,680,317.10	\$25,333.00	0.00945	84.78
45.5 - 46.5	\$2,653,858.02	\$25,500.00	0.00961	83.98
46.5 - 47.5	\$2,625,328.41	\$90,600.00	0.03451	83.17
47.5 - 48.5	\$2,529,042.91	\$28,000.00	0.01107	80.30
48.5 - 49.5	\$2,498,852.31	\$125,985.00	0.05042	79.41
49.5 - 50.5	\$2,368,021.72	\$44,750.00	0.01890	75.41
50.5 - 51.5	\$2,305,589.89	\$290.00	0.00013	73.98
51.5 - 52.5	\$2,074,464.81	\$36,566.00	0.01763	73.97
52.5 - 53.5	\$2,037,898.81	\$942.00	0.00046	72.67
53.5 - 54.5	\$2,035,281.83	\$1,831.00	0.00090	72.64
54.5 - 55.5	\$2,026,091.62	\$4,412.00	0.00218	72.57
55.5 - 56.5	\$1,860,049.66	\$130,550.00	0.07019	72.41
56.5 - 57.5	\$306,370.61	\$20,000.00	0.06528	67.33
57.5 - 58.5	\$285,758.17	\$0.00	0.00000	62.94
58.5 - 59.5	\$285,043.43	\$1,000.00	0.00351	62.94
59.5 - 60.5	\$266,500.12	\$1,500.00	0.00563	62.71

Montana-Dakota Utilities Company

Electric Plant

312.00 Boiler Plant Equipment

Original And Smooth Survivor Curves



Montana-Dakota Utilities Company

Electric Plant

312.00 Boiler Plant Equipment

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1922 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$131,110,674.27	\$1,711.29	0.00001	100.00
0.5 - 1.5	\$125,005,289.65	\$89,246.67	0.00071	100.00
1.5 - 2.5	\$121,524,320.20	\$460,178.67	0.00379	99.93
2.5 - 3.5	\$114,799,848.15	\$289,769.28	0.00252	99.55
3.5 - 4.5	\$116,608,898.91	\$642,127.59	0.00551	99.30
4.5 - 5.5	\$83,796,526.10	\$1,347,113.09	0.01608	98.75
5.5 - 6.5	\$76,685,799.82	\$1,605,006.55	0.02093	97.16
6.5 - 7.5	\$72,782,634.37	\$1,117,211.58	0.01535	95.13
7.5 - 8.5	\$78,035,863.72	\$678,974.69	0.00870	93.67
8.5 - 9.5	\$68,368,659.95	\$1,095,775.49	0.01603	92.85
9.5 - 10.5	\$65,698,831.37	\$293,172.31	0.00446	91.37
10.5 - 11.5	\$64,669,755.11	\$315,543.07	0.00488	90.96
11.5 - 12.5	\$63,087,018.55	\$945,601.14	0.01499	90.51
12.5 - 13.5	\$61,074,931.65	\$1,621,884.48	0.02656	89.16
13.5 - 14.5	\$117,761,812.94	\$879,739.98	0.00747	86.79
14.5 - 15.5	\$119,651,216.05	\$832,329.43	0.00696	86.14
15.5 - 16.5	\$121,036,734.73	\$3,199,744.77	0.02644	85.54
16.5 - 17.5	\$117,869,525.81	\$316,780.71	0.00269	83.28
17.5 - 18.5	\$114,524,305.27	\$119,911.93	0.00105	83.06
18.5 - 19.5	\$113,467,967.01	\$414,035.49	0.00365	82.97
19.5 - 20.5	\$99,693,759.32	\$369,795.29	0.00371	82.67
20.5 - 21.5	\$98,496,385.28	\$2,593,147.22	0.02633	82.36
21.5 - 22.5	\$95,431,145.18	\$928,246.18	0.00973	80.19
22.5 - 23.5	\$93,961,588.88	\$928,751.09	0.00988	79.41
23.5 - 24.5	\$86,863,415.41	\$978,895.39	0.01127	78.63
24.5 - 25.5	\$84,492,806.62	\$286,930.45	0.00340	77.74
25.5 - 26.5	\$84,035,204.25	\$342,722.40	0.00408	77.48
26.5 - 27.5	\$83,353,137.19	\$495,027.99	0.00594	77.16
27.5 - 28.5	\$74,363,465.85	\$1,038,151.96	0.01396	76.70
28.5 - 29.5	\$72,979,011.43	\$87,525.35	0.00120	75.63
29.5 - 30.5	\$72,170,639.08	\$102,478.15	0.00142	75.54
30.5 - 31.5	\$71,833,437.55	\$434,551.89	0.00605	75.43
31.5 - 32.5	\$71,515,886.89	\$113,383.33	0.00159	74.98
32.5 - 33.5	\$70,504,559.63	\$135,486.64	0.00192	74.86
33.5 - 34.5	\$15,479,168.97	\$142,873.90	0.00923	74.72
34.5 - 35.5	\$12,122,825.16	\$21,402.21	0.00177	74.03

Montana-Dakota Utilities Company

Electric Plant

312.00 Boiler Plant Equipment

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1922 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$8,396,279.05	\$91,782.00	0.01093	73.90
36.5 - 37.5	\$11,182,235.92	\$74,958.34	0.00670	73.09
37.5 - 38.5	\$11,029,788.94	\$150,456.12	0.01364	72.60
38.5 - 39.5	\$9,899,134.87	\$22,407.62	0.00226	71.61
39.5 - 40.5	\$6,681,947.03	\$458,425.00	0.06861	71.45
40.5 - 41.5	\$6,611,477.37	\$247,422.00	0.03742	66.54
41.5 - 42.5	\$6,416,405.37	\$1,113,427.90	0.17353	64.05
42.5 - 43.5	\$5,312,857.76	\$72,131.76	0.01358	52.94
43.5 - 44.5	\$5,239,601.39	\$274,503.00	0.05239	52.22
44.5 - 45.5	\$4,960,604.08	\$39,938.95	0.00805	49.48
45.5 - 46.5	\$4,903,126.28	\$19,794.00	0.00404	49.09
46.5 - 47.5	\$4,874,695.06	\$35,768.00	0.00734	48.89
47.5 - 48.5	\$4,836,720.18	\$121,498.00	0.02512	48.53
48.5 - 49.5	\$4,702,780.81	\$25,142.00	0.00535	47.31
49.5 - 50.5	\$4,720,823.14	\$126,550.00	0.02681	47.06
50.5 - 51.5	\$4,591,721.97	\$66,000.00	0.01437	45.80
51.5 - 52.5	\$3,943,267.52	\$14,319.00	0.00363	45.14
52.5 - 53.5	\$3,927,865.90	\$8,900.00	0.00227	44.97
53.5 - 54.5	\$3,918,036.13	\$36,014.00	0.00919	44.87
54.5 - 55.5	\$3,867,437.29	\$0.00	0.00000	44.46
55.5 - 56.5	\$3,823,064.71	\$0.00	0.00000	44.46
56.5 - 57.5	\$335,900.13	\$35,928.74	0.10696	44.46
57.5 - 58.5	\$299,912.16	\$8,400.00	0.02801	39.70
58.5 - 59.5	\$298,493.60	\$1,100.00	0.00369	38.59
59.5 - 60.5	\$297,393.60	\$7,319.16	0.02461	38.45
60.5 - 61.5	\$0.00	\$0.00	0.00000	37.50
61.5 - 62.5	\$0.00	\$0.00	0.00000	37.50
62.5 - 63.5	\$0.00	\$0.00	0.00000	37.50
63.5 - 64.5	\$0.00	\$0.00	0.00000	37.50
64.5 - 65.5	\$0.00	\$0.00	0.00000	37.50
65.5 - 66.5	\$0.00	\$0.00	0.00000	37.50
66.5 - 67.5	\$0.00	\$0.00	0.00000	37.50
67.5 - 68.5	\$0.00	\$0.00	0.00000	37.50
68.5 - 69.5	\$0.00	\$0.00	0.00000	37.50
69.5 - 70.5	\$0.00	\$0.00	0.00000	37.50
70.5 - 71.5	\$0.00	\$0.00	0.00000	37.50

Montana-Dakota Utilities Company
Electric Plant

312.00 Boiler Plant Equipment

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1922 TO 2014

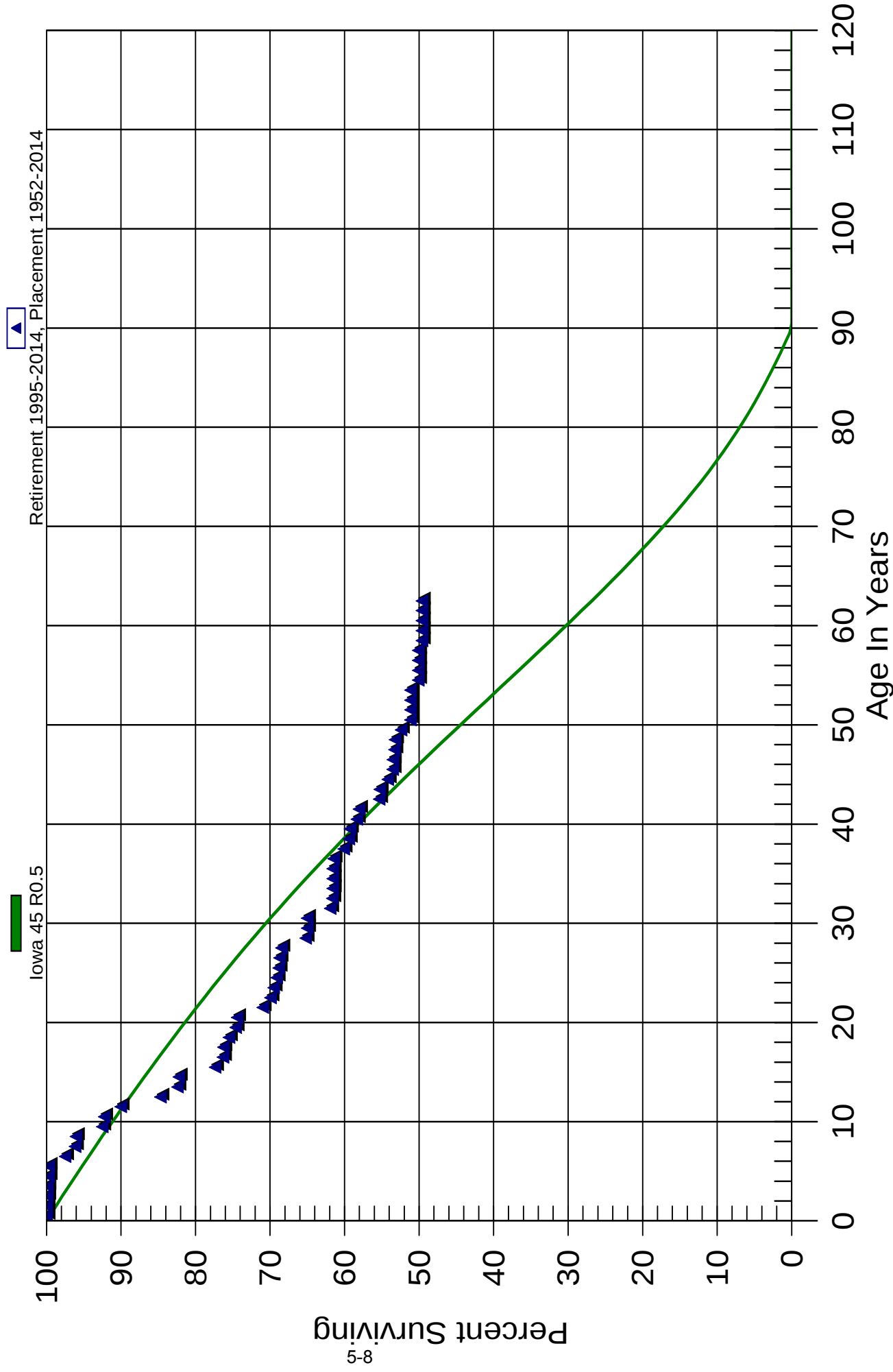
Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
71.5 - 72.5	\$139,670.18	\$0.00	0.00000	37.50
72.5 - 73.5	\$139,670.18	\$0.00	0.00000	37.50
73.5 - 74.5	\$139,670.18	\$0.00	0.00000	37.50
74.5 - 75.5	\$139,670.18	\$0.00	0.00000	37.50
75.5 - 76.5	\$139,670.18	\$0.00	0.00000	37.50
76.5 - 77.5	\$139,670.18	\$0.00	0.00000	37.50
77.5 - 78.5	\$139,670.18	\$0.00	0.00000	37.50
78.5 - 79.5	\$139,670.18	\$0.00	0.00000	37.50
79.5 - 80.5	\$139,670.18	\$0.00	0.00000	37.50
80.5 - 81.5	\$139,670.18	\$0.00	0.00000	37.50
81.5 - 82.5	\$139,670.18	\$0.00	0.00000	37.50
82.5 - 83.5	\$139,670.18	\$0.00	0.00000	37.50
83.5 - 84.5	\$139,670.18	\$0.00	0.00000	37.50
84.5 - 85.5	\$139,670.18	\$0.00	0.00000	37.50
85.5 - 86.5	\$139,670.18	\$0.00	0.00000	37.50
86.5 - 87.5	\$139,670.18	\$0.00	0.00000	37.50
87.5 - 88.5	\$139,670.18	\$0.00	0.00000	37.50
88.5 - 89.5	\$139,670.18	\$0.00	0.00000	37.50
89.5 - 90.5	\$139,670.18	\$0.00	0.00000	37.50
90.5 - 91.5	\$0.00	\$0.00	0.00000	37.50
91.5 - 92.5	\$0.00	\$0.00	0.00000	37.50

Montana-Dakota Utilities Company

Electric Plant

314.00 Turbogenerator Units

Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant

314.00 Turbogenerator Units

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1952 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$59,652,855.03	\$0.00	0.00000	100.00
0.5 - 1.5	\$64,476,539.66	\$0.00	0.00000	100.00
1.5 - 2.5	\$61,923,130.54	\$60,000.00	0.00097	100.00
2.5 - 3.5	\$57,406,511.71	\$15,837.07	0.00028	99.90
3.5 - 4.5	\$56,908,491.13	\$92,103.73	0.00162	99.88
4.5 - 5.5	\$26,363,879.34	\$5,206.90	0.00020	99.71
5.5 - 6.5	\$23,573,301.74	\$518,163.64	0.02198	99.69
6.5 - 7.5	\$22,552,654.21	\$306,996.23	0.01361	97.50
7.5 - 8.5	\$20,370,504.22	\$23,138.36	0.00114	96.18
8.5 - 9.5	\$16,518,702.50	\$609,586.23	0.03690	96.07
9.5 - 10.5	\$13,025,548.25	\$36,330.71	0.00279	92.52
10.5 - 11.5	\$12,742,952.60	\$308,266.72	0.02419	92.26
11.5 - 12.5	\$10,606,307.02	\$627,676.28	0.05918	90.03
12.5 - 13.5	\$12,013,575.42	\$321,669.01	0.02678	84.70
13.5 - 14.5	\$20,835,974.06	\$46,400.29	0.00223	82.44
14.5 - 15.5	\$19,116,137.85	\$1,133,745.00	0.05931	82.25
15.5 - 16.5	\$17,122,344.14	\$230,267.99	0.01345	77.37
16.5 - 17.5	\$16,790,882.06	\$13,250.00	0.00079	76.33
17.5 - 18.5	\$16,393,796.31	\$162,548.21	0.00992	76.27
18.5 - 19.5	\$14,435,081.50	\$172,584.74	0.01196	75.52
19.5 - 20.5	\$19,040,595.66	\$48,899.87	0.00257	74.61
20.5 - 21.5	\$18,961,605.17	\$877,413.66	0.04627	74.42
21.5 - 22.5	\$17,126,078.52	\$251,668.61	0.01470	70.98
22.5 - 23.5	\$16,818,085.37	\$100,847.50	0.00600	69.94
23.5 - 24.5	\$16,655,074.50	\$94,336.65	0.00566	69.52
24.5 - 25.5	\$16,493,629.73	\$61,177.84	0.00371	69.12
25.5 - 26.5	\$16,301,890.16	\$29,308.89	0.00180	68.87
26.5 - 27.5	\$16,171,274.37	\$61,875.50	0.00383	68.74
27.5 - 28.5	\$15,968,445.31	\$759,255.01	0.04755	68.48
28.5 - 29.5	\$15,171,181.20	\$45,217.74	0.00298	65.22
29.5 - 30.5	\$15,033,921.90	\$3,344.35	0.00022	65.03
30.5 - 31.5	\$15,036,340.41	\$714,760.15	0.04754	65.01
31.5 - 32.5	\$17,145,003.39	\$76,599.30	0.00447	61.92
32.5 - 33.5	\$15,661,728.53	\$17,428.27	0.00111	61.65
33.5 - 34.5	\$7,853,602.91	\$454.00	0.00006	61.58
34.5 - 35.5	\$7,857,182.40	\$0.00	0.00000	61.57

Montana-Dakota Utilities Company
Electric Plant

314.00 Turbogenerator Units

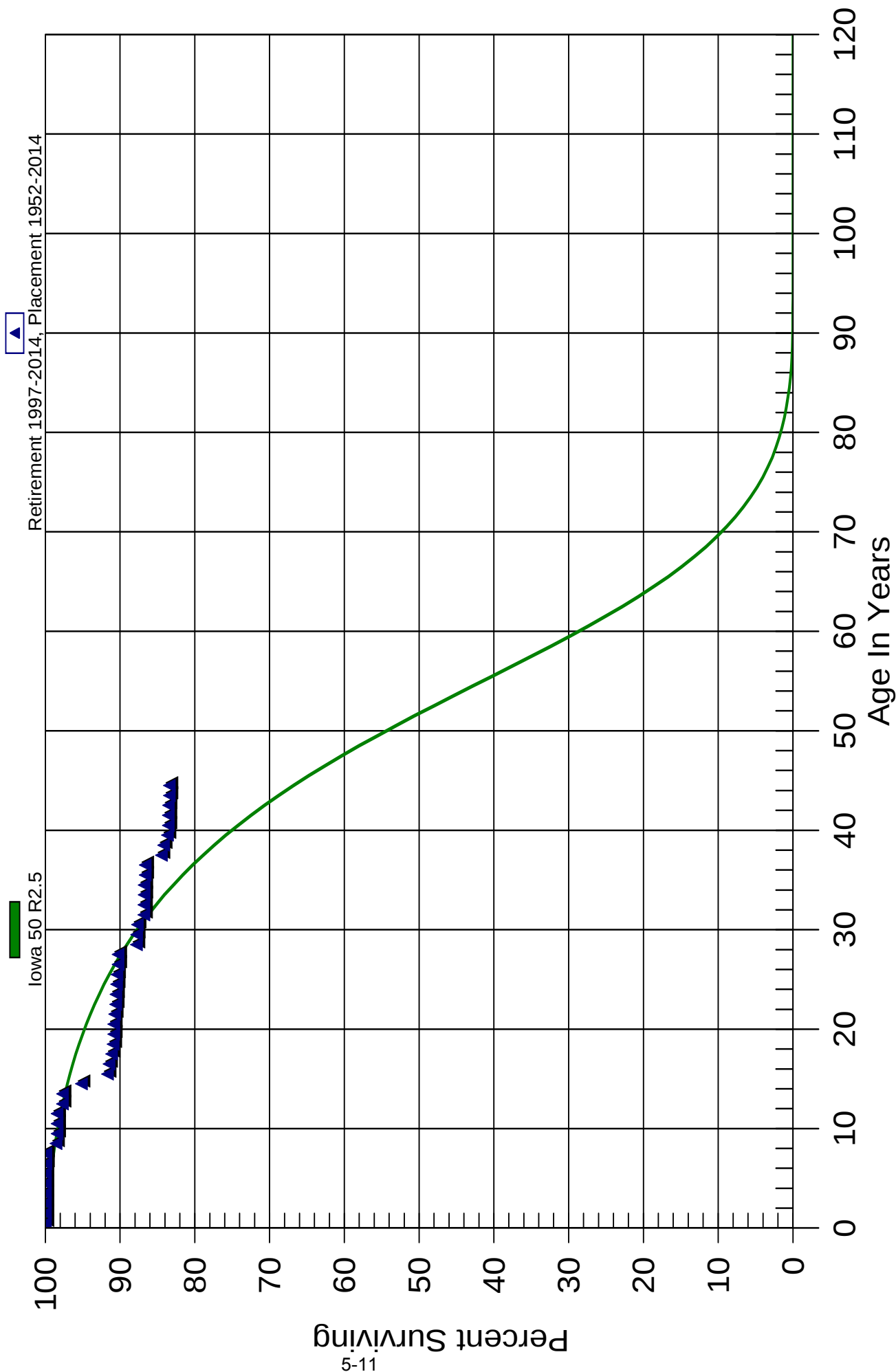
Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1952 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$7,853,689.48	\$13,477.43	0.00172	61.57
36.5 - 37.5	\$10,811,133.16	\$237,900.00	0.02201	61.47
37.5 - 38.5	\$10,594,686.97	\$121,747.14	0.01149	60.12
38.5 - 39.5	\$10,423,004.33	\$23,032.57	0.00221	59.43
39.5 - 40.5	\$5,887,112.84	\$93,777.00	0.01593	59.29
40.5 - 41.5	\$7,360,162.69	\$34,285.00	0.00466	58.35
41.5 - 42.5	\$7,446,622.69	\$350,000.00	0.04700	58.08
42.5 - 43.5	\$7,124,622.69	\$9,000.00	0.00126	55.35
43.5 - 44.5	\$7,112,345.11	\$137,230.00	0.01929	55.28
44.5 - 45.5	\$6,974,882.60	\$84,750.00	0.01215	54.21
45.5 - 46.5	\$6,880,278.33	\$4,100.00	0.00060	53.55
46.5 - 47.5	\$6,874,048.44	\$28,000.00	0.00407	53.52
47.5 - 48.5	\$6,841,039.30	\$8,950.00	0.00131	53.30
48.5 - 49.5	\$6,829,420.51	\$105,740.00	0.01548	53.23
49.5 - 50.5	\$6,722,775.06	\$162,800.00	0.02422	52.41
50.5 - 51.5	\$6,550,247.30	\$0.00	0.00000	51.14
51.5 - 52.5	\$4,118,989.30	\$0.00	0.00000	51.14
52.5 - 53.5	\$4,118,989.30	\$0.00	0.00000	51.14
53.5 - 54.5	\$4,118,989.30	\$83,284.00	0.02022	51.14
54.5 - 55.5	\$4,031,671.81	\$5.00	0.00000	50.11
55.5 - 56.5	\$4,030,704.94	\$0.00	0.00000	50.11
56.5 - 57.5	\$1,577,148.48	\$0.00	0.00000	50.11
57.5 - 58.5	\$1,576,876.85	\$15,000.00	0.00951	50.11
58.5 - 59.5	\$1,561,876.85	\$0.00	0.00000	49.63
59.5 - 60.5	\$1,561,876.85	\$0.00	0.00000	49.63
60.5 - 61.5	\$0.00	\$0.00	0.00000	49.63
61.5 - 62.5	\$0.00	\$0.00	0.00000	49.63

Montana-Dakota Utilities Company
Electric Plant
315.00 Accessory Electric Equipment
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company

Electric Plant

315.00 Accessory Electric Equipment

Observed Life Table

Retirement Expr. 1997 TO 2014

Placement Years 1952 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$8,014,238.07	\$0.00	0.00000	100.00
0.5 - 1.5	\$7,549,471.25	\$0.00	0.00000	100.00
1.5 - 2.5	\$7,448,147.12	\$0.00	0.00000	100.00
2.5 - 3.5	\$7,126,525.53	\$0.00	0.00000	100.00
3.5 - 4.5	\$6,511,705.66	\$0.00	0.00000	100.00
4.5 - 5.5	\$2,965,093.69	\$0.00	0.00000	100.00
5.5 - 6.5	\$2,654,752.64	\$1,589.00	0.00060	100.00
6.5 - 7.5	\$1,471,788.50	\$0.00	0.00000	99.94
7.5 - 8.5	\$1,445,603.88	\$19,634.49	0.01358	99.94
8.5 - 9.5	\$1,270,093.60	\$1,895.96	0.00149	98.58
9.5 - 10.5	\$699,049.58	\$0.00	0.00000	98.44
10.5 - 11.5	\$700,913.77	\$0.00	0.00000	98.44
11.5 - 12.5	\$666,155.40	\$4,971.69	0.00746	98.44
12.5 - 13.5	\$652,596.48	\$0.00	0.00000	97.70
13.5 - 14.5	\$657,867.70	\$17,103.23	0.02600	97.70
14.5 - 15.5	\$630,967.58	\$23,032.45	0.03650	95.16
15.5 - 16.5	\$7,878,462.15	\$18,500.00	0.00235	91.69
16.5 - 17.5	\$7,886,623.30	\$29,696.42	0.00377	91.47
17.5 - 18.5	\$7,800,285.13	\$16,458.00	0.00211	91.13
18.5 - 19.5	\$7,767,626.32	\$7,411.86	0.00095	90.94
19.5 - 20.5	\$7,724,599.85	\$0.00	0.00000	90.85
20.5 - 21.5	\$7,641,807.61	\$9,291.43	0.00122	90.85
21.5 - 22.5	\$10,586,974.10	\$17,700.71	0.00167	90.74
22.5 - 23.5	\$10,550,764.57	\$3,160.25	0.00030	90.59
23.5 - 24.5	\$10,430,887.66	\$10,251.08	0.00098	90.56
24.5 - 25.5	\$10,419,602.64	\$7,323.57	0.00070	90.47
25.5 - 26.5	\$10,402,996.77	\$16,199.64	0.00156	90.41
26.5 - 27.5	\$10,365,318.36	\$0.00	0.00000	90.27
27.5 - 28.5	\$10,364,505.85	\$280,051.43	0.02702	90.27
28.5 - 29.5	\$10,081,831.76	\$5,384.25	0.00053	87.83
29.5 - 30.5	\$10,077,221.81	\$11,049.33	0.00110	87.78
30.5 - 31.5	\$10,062,850.69	\$100,966.90	0.01003	87.68
31.5 - 32.5	\$9,962,160.87	\$0.00	0.00000	86.80
32.5 - 33.5	\$9,918,909.48	\$1,000.00	0.00010	86.80
33.5 - 34.5	\$3,743,551.75	\$851.76	0.00023	86.80
34.5 - 35.5	\$3,685,633.12	\$6,000.00	0.00163	86.78

Montana-Dakota Utilities Company
Electric Plant

315.00 Accessory Electric Equipment

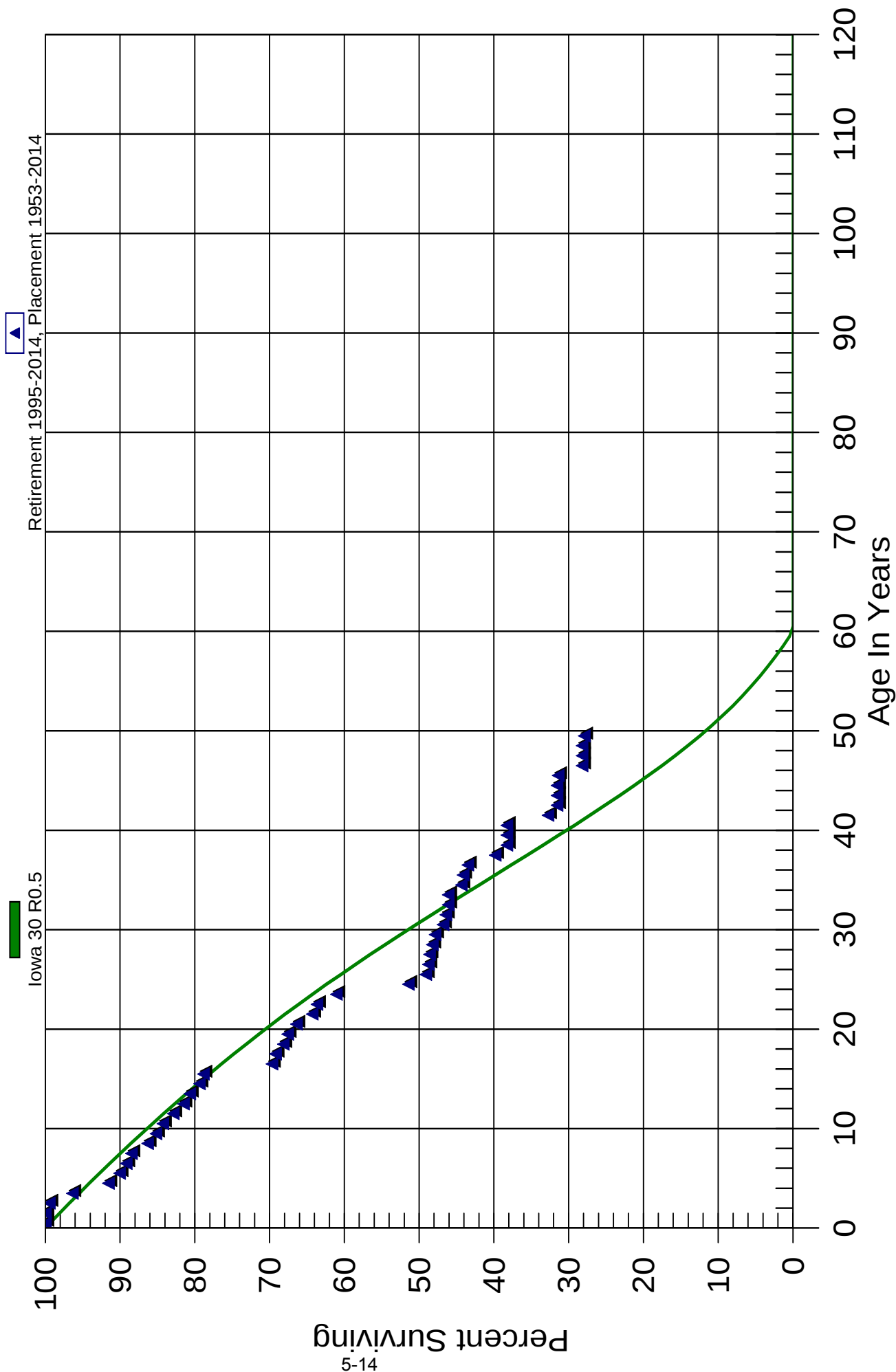
Observed Life Table

Retirement Expr. 1997 TO 2014

Placement Years 1952 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$3,675,722.01	\$0.00	0.00000	86.63
36.5 - 37.5	\$3,671,134.68	\$90,981.12	0.02478	86.63
37.5 - 38.5	\$3,672,433.28	\$12,604.11	0.00343	84.49
38.5 - 39.5	\$4,303,678.54	\$26,874.61	0.00624	84.20
39.5 - 40.5	\$1,374,576.26	\$2,000.00	0.00145	83.67
40.5 - 41.5	\$1,372,576.26	\$0.00	0.00000	83.55
41.5 - 42.5	\$1,372,576.26	\$400.00	0.00029	83.55
42.5 - 43.5	\$1,761,417.86	\$2,504.00	0.00142	83.53
43.5 - 44.5	\$1,777,913.86	\$0.00	0.00000	83.41
44.5 - 45.5	\$1,778,913.86	\$60.00	0.00003	83.41
45.5 - 46.5	\$1,778,853.86	\$4,000.00	0.00225	83.40
46.5 - 47.5	\$1,773,061.37	\$0.00	0.00000	83.22
47.5 - 48.5	\$1,772,287.07	\$5,244.00	0.00296	83.22
48.5 - 49.5	\$1,767,043.07	\$800.00	0.00045	82.97
49.5 - 50.5	\$1,766,243.07	\$500.00	0.00028	82.93
50.5 - 51.5	\$1,762,211.69	\$0.00	0.00000	82.91
51.5 - 52.5	\$1,126,131.63	\$0.00	0.00000	82.91
52.5 - 53.5	\$1,126,131.63	\$0.00	0.00000	82.91
53.5 - 54.5	\$1,126,131.63	\$0.00	0.00000	82.91
54.5 - 55.5	\$1,126,131.63	\$0.00	0.00000	82.91
55.5 - 56.5	\$1,056,956.92	\$3,000.00	0.00284	82.91
56.5 - 57.5	\$400,941.60	\$0.00	0.00000	82.67
57.5 - 58.5	\$400,941.60	\$0.00	0.00000	82.67
58.5 - 59.5	\$400,941.60	\$18,500.00	0.04614	82.67
59.5 - 60.5	\$382,441.60	\$0.00	0.00000	78.86
60.5 - 61.5	\$0.00	\$0.00	0.00000	78.86
61.5 - 62.5	\$0.00	\$0.00	0.00000	78.86

Montana-Dakota Utilities Company
Electric Plant
316.00 Miscellaneous Power Plant Equipment
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant

316.00 Miscellaneous Power Plant Equipment

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1953 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$19,567,625.55	\$0.00	0.00000	100.00
0.5 - 1.5	\$18,942,252.66	\$957.68	0.00005	100.00
1.5 - 2.5	\$18,502,521.08	\$97,671.72	0.00528	99.99
2.5 - 3.5	\$17,085,636.44	\$530,871.59	0.03107	99.47
3.5 - 4.5	\$16,349,947.24	\$815,293.46	0.04987	96.38
4.5 - 5.5	\$14,677,241.30	\$240,790.28	0.01641	91.57
5.5 - 6.5	\$14,406,223.83	\$141,501.00	0.00982	90.07
6.5 - 7.5	\$13,819,547.65	\$110,302.72	0.00798	89.18
7.5 - 8.5	\$13,641,138.95	\$329,421.13	0.02415	88.47
8.5 - 9.5	\$13,255,408.52	\$174,014.15	0.01313	86.34
9.5 - 10.5	\$13,060,674.78	\$141,497.58	0.01083	85.20
10.5 - 11.5	\$12,845,810.41	\$211,652.42	0.01648	84.28
11.5 - 12.5	\$11,141,019.40	\$183,635.14	0.01648	82.89
12.5 - 13.5	\$11,137,759.14	\$114,607.51	0.01029	81.52
13.5 - 14.5	\$11,465,436.13	\$186,713.28	0.01628	80.69
14.5 - 15.5	\$11,247,781.62	\$73,921.20	0.00657	79.37
15.5 - 16.5	\$8,289,967.69	\$964,269.96	0.11632	78.85
16.5 - 17.5	\$7,239,038.79	\$49,229.58	0.00680	69.68
17.5 - 18.5	\$6,390,301.69	\$96,520.62	0.01510	69.20
18.5 - 19.5	\$6,213,592.69	\$52,545.70	0.00846	68.16
19.5 - 20.5	\$2,438,985.23	\$42,510.94	0.01743	67.58
20.5 - 21.5	\$2,150,114.42	\$67,747.97	0.03151	66.40
21.5 - 22.5	\$2,035,567.59	\$20,341.95	0.00999	64.31
22.5 - 23.5	\$1,959,466.41	\$79,612.74	0.04063	63.67
23.5 - 24.5	\$1,831,547.02	\$289,380.46	0.15800	61.08
24.5 - 25.5	\$1,511,836.45	\$68,425.15	0.04526	51.43
25.5 - 26.5	\$1,375,263.83	\$9,959.69	0.00724	49.10
26.5 - 27.5	\$1,334,235.52	\$3,593.66	0.00269	48.75
27.5 - 28.5	\$1,258,835.11	\$9,847.86	0.00782	48.62
28.5 - 29.5	\$1,126,558.93	\$8,460.78	0.00751	48.24
29.5 - 30.5	\$1,083,644.26	\$24,549.90	0.02265	47.87
30.5 - 31.5	\$1,025,624.06	\$7,966.64	0.00777	46.79
31.5 - 32.5	\$967,096.86	\$6,485.01	0.00671	46.43
32.5 - 33.5	\$939,190.94	\$323.83	0.00034	46.12
33.5 - 34.5	\$524,444.25	\$19,843.47	0.03784	46.10
34.5 - 35.5	\$483,396.56	\$2,566.71	0.00531	44.35

Montana-Dakota Utilities Company
Electric Plant

316.00 Miscellaneous Power Plant Equipment

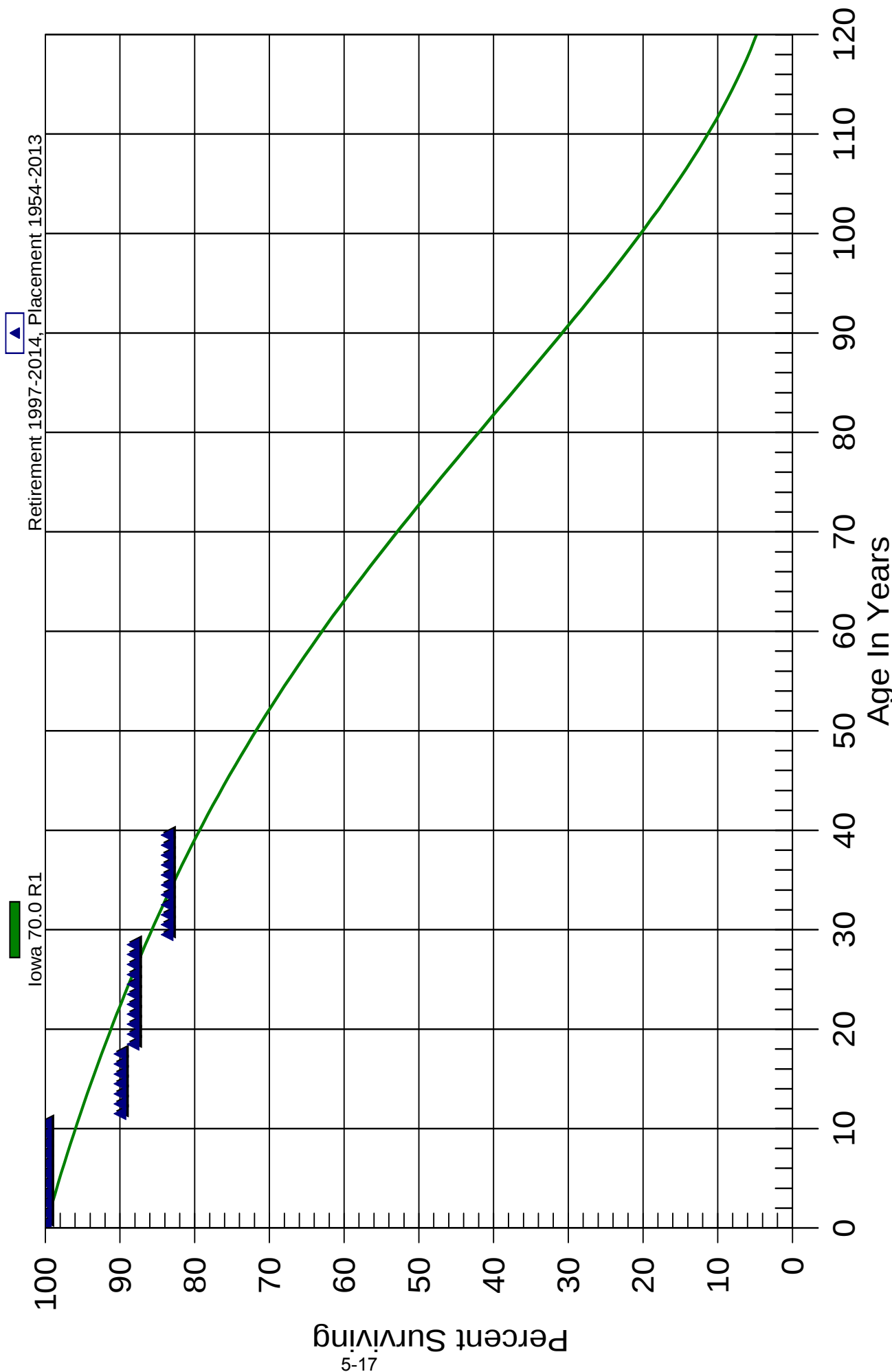
Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1953 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$477,739.20	\$6,853.82	0.01435	44.12
36.5 - 37.5	\$497,457.21	\$41,887.18	0.08420	43.49
37.5 - 38.5	\$418,742.18	\$16,406.81	0.03918	39.82
38.5 - 39.5	\$401,117.34	\$0.00	0.00000	38.26
39.5 - 40.5	\$127,596.83	\$0.00	0.00000	38.26
40.5 - 41.5	\$143,005.40	\$20,601.00	0.14406	38.26
41.5 - 42.5	\$121,665.85	\$4,410.00	0.03625	32.75
42.5 - 43.5	\$113,801.28	\$0.00	0.00000	31.56
43.5 - 44.5	\$112,684.74	\$0.00	0.00000	31.56
44.5 - 45.5	\$112,023.82	\$600.00	0.00536	31.56
45.5 - 46.5	\$110,238.44	\$11,195.00	0.10155	31.40
46.5 - 47.5	\$97,772.16	\$0.00	0.00000	28.21
47.5 - 48.5	\$94,661.34	\$0.00	0.00000	28.21
48.5 - 49.5	\$94,203.50	\$1,000.00	0.01062	28.21
49.5 - 50.5	\$88,268.19	\$4,132.48	0.04682	27.91
50.5 - 51.5	\$81,590.15	\$2,475.00	0.03033	26.60
51.5 - 52.5	\$55,720.14	\$0.00	0.00000	25.79
52.5 - 53.5	\$54,514.45	\$0.00	0.00000	25.79
53.5 - 54.5	\$53,146.51	\$0.00	0.00000	25.79
54.5 - 55.5	\$52,254.70	\$0.00	0.00000	25.79
55.5 - 56.5	\$45,162.13	\$0.00	0.00000	25.79
56.5 - 57.5	\$28,267.59	\$0.00	0.00000	25.79
57.5 - 58.5	\$28,032.22	\$0.00	0.00000	25.79
58.5 - 59.5	\$26,533.19	\$0.00	0.00000	25.79
59.5 - 60.5	\$18,126.18	\$0.00	0.00000	25.79

Montana-Dakota Utilities Company
Electric Plant
341.10, 341.20
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant
341.10, 341.20

Observed Life Table
Retirement Expr. 1997 TO 2014
Placement Years 1954 TO 2013

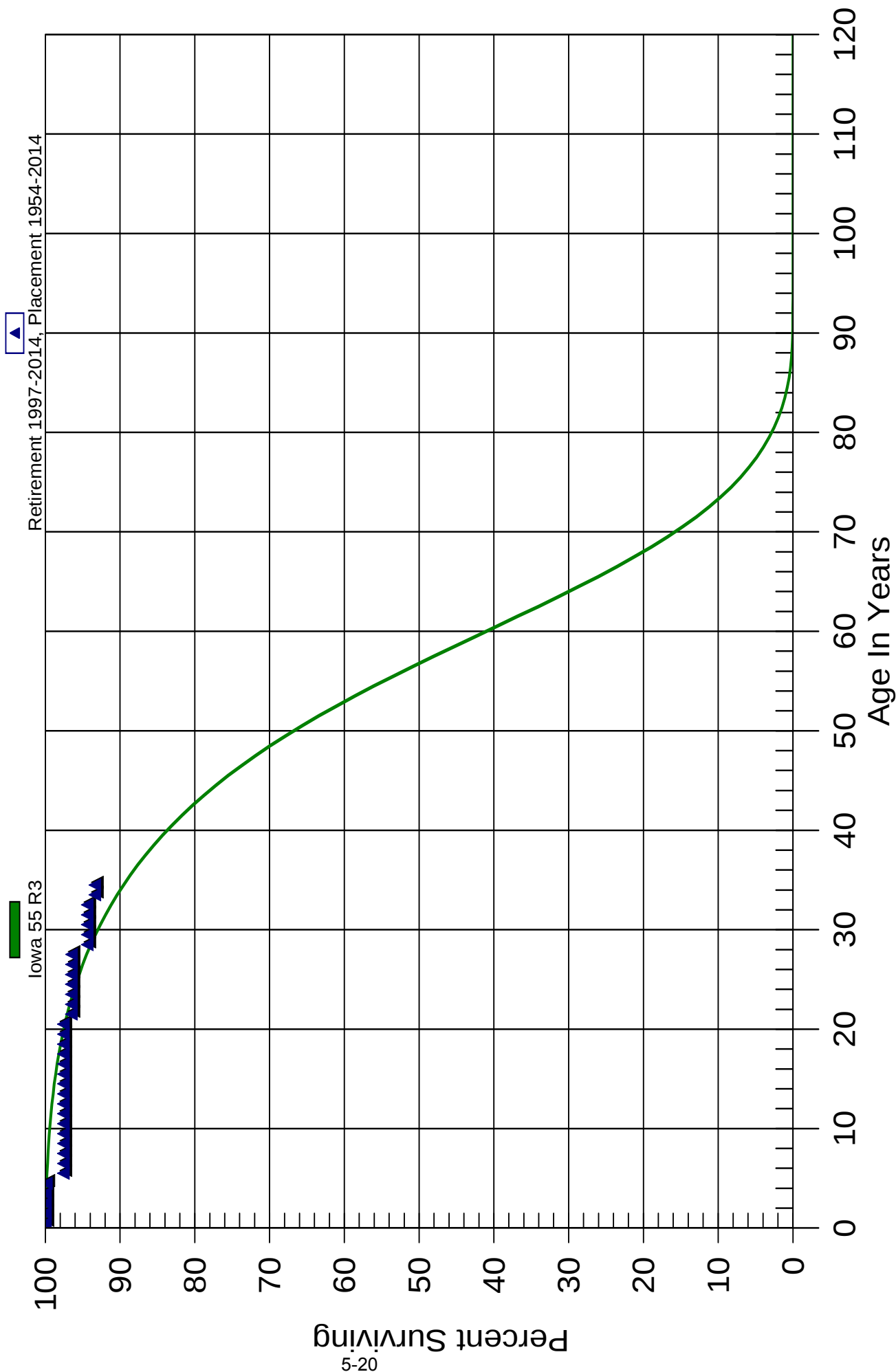
Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$4,941,473.29	\$0.00	0.00000	100.00
0.5 - 1.5	\$4,946,737.46	\$0.00	0.00000	100.00
1.5 - 2.5	\$4,886,305.66	\$0.00	0.00000	100.00
2.5 - 3.5	\$6,613,915.00	\$0.00	0.00000	100.00
3.5 - 4.5	\$6,615,535.51	\$0.00	0.00000	100.00
4.5 - 5.5	\$2,314,473.81	\$0.00	0.00000	100.00
5.5 - 6.5	\$2,314,473.81	\$0.00	0.00000	100.00
6.5 - 7.5	\$1,965,752.83	\$0.00	0.00000	100.00
7.5 - 8.5	\$115,078.10	\$0.00	0.00000	100.00
8.5 - 9.5	\$82,852.35	\$0.00	0.00000	100.00
9.5 - 10.5	\$23,073.17	\$0.00	0.00000	100.00
10.5 - 11.5	\$23,073.17	\$2,305.89	0.09994	100.00
11.5 - 12.5	\$20,767.28	\$0.00	0.00000	90.01
12.5 - 13.5	\$20,767.28	\$0.00	0.00000	90.01
13.5 - 14.5	\$25,485.91	\$0.00	0.00000	90.01
14.5 - 15.5	\$25,485.91	\$0.00	0.00000	90.01
15.5 - 16.5	\$25,485.91	\$0.00	0.00000	90.01
16.5 - 17.5	\$25,485.91	\$0.00	0.00000	90.01
17.5 - 18.5	\$25,734.97	\$500.00	0.01943	90.01
18.5 - 19.5	\$24,607.38	\$0.00	0.00000	88.26
19.5 - 20.5	\$24,607.38	\$0.00	0.00000	88.26
20.5 - 21.5	\$23,183.16	\$0.00	0.00000	88.26
21.5 - 22.5	\$21,562.65	\$0.00	0.00000	88.26
22.5 - 23.5	\$21,562.65	\$0.00	0.00000	88.26
23.5 - 24.5	\$21,562.65	\$0.00	0.00000	88.26
24.5 - 25.5	\$21,562.65	\$0.00	0.00000	88.26
25.5 - 26.5	\$10,078.91	\$0.00	0.00000	88.26
26.5 - 27.5	\$10,078.91	\$0.00	0.00000	88.26
27.5 - 28.5	\$10,078.91	\$0.00	0.00000	88.26
28.5 - 29.5	\$10,078.91	\$522.00	0.05179	88.26
29.5 - 30.5	\$9,556.91	\$0.00	0.00000	83.69
30.5 - 31.5	\$9,556.91	\$0.00	0.00000	83.69
31.5 - 32.5	\$4,838.28	\$0.00	0.00000	83.69
32.5 - 33.5	\$4,838.28	\$0.00	0.00000	83.69
33.5 - 34.5	\$4,838.28	\$0.00	0.00000	83.69
34.5 - 35.5	\$4,838.28	\$0.00	0.00000	83.69

Montana-Dakota Utilities Company
Electric Plant
341.10, 341.20

Observed Life Table
Retirement Expr. 1997 TO 2014
Placement Years 1954 TO 2013

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$4,636.58	\$0.00	0.00000	83.69
36.5 - 37.5	\$0.00	\$0.00	0.00000	83.69
37.5 - 38.5	\$0.00	\$0.00	0.00000	83.69
38.5 - 39.5	\$0.00	\$0.00	0.00000	83.69
39.5 - 40.5	\$0.00	\$0.00	0.00000	83.69
40.5 - 41.5	\$0.00	\$0.00	0.00000	83.69
41.5 - 42.5	\$0.00	\$0.00	0.00000	83.69
42.5 - 43.5	\$327,807.05	\$0.00	0.00000	83.69
43.5 - 44.5	\$327,807.05	\$0.00	0.00000	83.69
44.5 - 45.5	\$327,807.05	\$0.00	0.00000	83.69
45.5 - 46.5	\$327,807.05	\$0.00	0.00000	83.69
46.5 - 47.5	\$327,807.05	\$0.00	0.00000	83.69
47.5 - 48.5	\$327,807.05	\$0.00	0.00000	83.69
48.5 - 49.5	\$327,807.05	\$0.00	0.00000	83.69
49.5 - 50.5	\$327,807.05	\$0.00	0.00000	83.69
50.5 - 51.5	\$327,807.05	\$0.00	0.00000	83.69
51.5 - 52.5	\$327,807.05	\$0.00	0.00000	83.69
52.5 - 53.5	\$327,807.05	\$0.00	0.00000	83.69
53.5 - 54.5	\$327,807.05	\$0.00	0.00000	83.69
54.5 - 55.5	\$327,807.05	\$0.00	0.00000	83.69
55.5 - 56.5	\$327,807.05	\$0.00	0.00000	83.69
56.5 - 57.5	\$327,807.05	\$0.00	0.00000	83.69

Montana-Dakota Utilities Company
Electric Plant
344.10, 344.20
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant
344.10, 344.20

Observed Life Table
Retirement Expr. 1997 TO 2014
Placement Years 1954 TO 2014

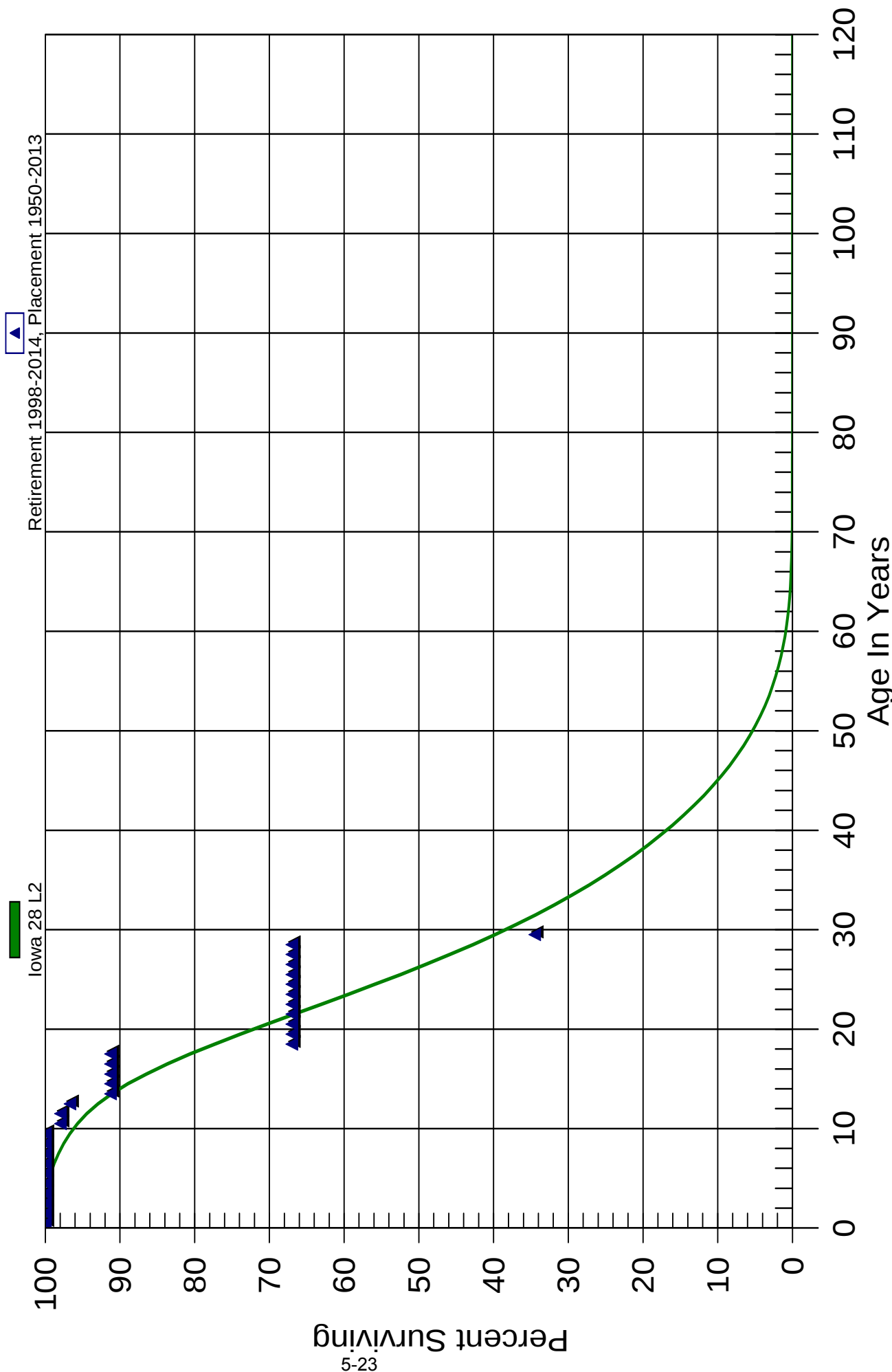
Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$181,690,481.85	\$0.00	0.00000	100.00
0.5 - 1.5	\$129,563,639.64	\$0.00	0.00000	100.00
1.5 - 2.5	\$129,481,222.81	\$0.00	0.00000	100.00
2.5 - 3.5	\$120,067,337.17	\$0.00	0.00000	100.00
3.5 - 4.5	\$119,559,924.89	\$160,630.48	0.00134	100.00
4.5 - 5.5	\$64,974,713.61	\$1,470,461.76	0.02263	99.87
5.5 - 6.5	\$48,514,142.28	\$0.00	0.00000	97.61
6.5 - 7.5	\$48,514,142.28	\$0.00	0.00000	97.61
7.5 - 8.5	\$19,214,009.69	\$0.00	0.00000	97.61
8.5 - 9.5	\$19,196,646.88	\$0.00	0.00000	97.61
9.5 - 10.5	\$18,999,410.96	\$0.00	0.00000	97.61
10.5 - 11.5	\$18,452,214.32	\$0.00	0.00000	97.61
11.5 - 12.5	\$513,776.35	\$0.00	0.00000	97.61
12.5 - 13.5	\$518,074.02	\$0.00	0.00000	97.61
13.5 - 14.5	\$837,501.65	\$0.00	0.00000	97.61
14.5 - 15.5	\$484,864.85	\$0.00	0.00000	97.61
15.5 - 16.5	\$762,212.24	\$0.00	0.00000	97.61
16.5 - 17.5	\$769,532.32	\$0.00	0.00000	97.61
17.5 - 18.5	\$5,424,123.46	\$0.00	0.00000	97.61
18.5 - 19.5	\$5,419,234.89	\$0.00	0.00000	97.61
19.5 - 20.5	\$5,410,122.39	\$0.00	0.00000	97.61
20.5 - 21.5	\$5,276,016.91	\$59,068.00	0.01120	97.61
21.5 - 22.5	\$5,216,948.91	\$0.00	0.00000	96.51
22.5 - 23.5	\$5,216,948.91	\$0.00	0.00000	96.51
23.5 - 24.5	\$5,237,467.88	\$0.00	0.00000	96.51
24.5 - 25.5	\$7,192,411.55	\$0.00	0.00000	96.51
25.5 - 26.5	\$7,192,411.55	\$800.00	0.00011	96.51
26.5 - 27.5	\$7,191,611.55	\$1,000.00	0.00014	96.50
27.5 - 28.5	\$7,190,499.57	\$157,068.17	0.02184	96.49
28.5 - 29.5	\$7,024,287.36	\$0.00	0.00000	94.38
29.5 - 30.5	\$7,024,287.36	\$0.00	0.00000	94.38
30.5 - 31.5	\$7,019,989.69	\$0.00	0.00000	94.38
31.5 - 32.5	\$6,700,562.06	\$0.00	0.00000	94.38
32.5 - 33.5	\$6,698,367.92	\$70,981.82	0.01060	94.38
33.5 - 34.5	\$6,348,455.87	\$0.00	0.00000	93.38
34.5 - 35.5	\$6,341,135.79	\$0.00	0.00000	93.38

Montana-Dakota Utilities Company
Electric Plant
344.10, 344.20

Observed Life Table
Retirement Expr. 1997 TO 2014
Placement Years 1954 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$1,880,961.82	\$0.00	0.00000	93.38
36.5 - 37.5	\$1,880,961.82	\$0.00	0.00000	93.38
37.5 - 38.5	\$1,880,961.82	\$0.00	0.00000	93.38
38.5 - 39.5	\$1,880,961.82	\$0.00	0.00000	93.38
39.5 - 40.5	\$1,880,961.82	\$0.00	0.00000	93.38
40.5 - 41.5	\$1,880,961.82	\$0.00	0.00000	93.38
41.5 - 42.5	\$1,865,820.31	\$0.00	0.00000	93.38
42.5 - 43.5	\$1,363,795.92	\$0.00	0.00000	93.38
43.5 - 44.5	\$1,363,795.92	\$0.00	0.00000	93.38
44.5 - 45.5	\$1,363,795.92	\$0.00	0.00000	93.38
45.5 - 46.5	\$1,363,795.92	\$0.00	0.00000	93.38
46.5 - 47.5	\$1,363,795.92	\$0.00	0.00000	93.38
47.5 - 48.5	\$1,363,795.92	\$0.00	0.00000	93.38
48.5 - 49.5	\$1,363,795.92	\$0.00	0.00000	93.38
49.5 - 50.5	\$1,363,795.92	\$0.00	0.00000	93.38
50.5 - 51.5	\$1,363,795.92	\$0.00	0.00000	93.38
51.5 - 52.5	\$1,363,795.92	\$0.00	0.00000	93.38
52.5 - 53.5	\$1,363,795.92	\$0.00	0.00000	93.38
53.5 - 54.5	\$1,363,795.92	\$0.00	0.00000	93.38
54.5 - 55.5	\$1,363,795.92	\$0.00	0.00000	93.38
55.5 - 56.5	\$1,363,795.92	\$0.00	0.00000	93.38
56.5 - 57.5	\$1,363,795.92	\$0.00	0.00000	93.38

Montana-Dakota Utilities Company
Electric Plant
345.10, 345.20
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant
345.10, 345.20

Observed Life Table
Retirement Expr. 1998 TO 2014
Placement Years 1950 TO 2013

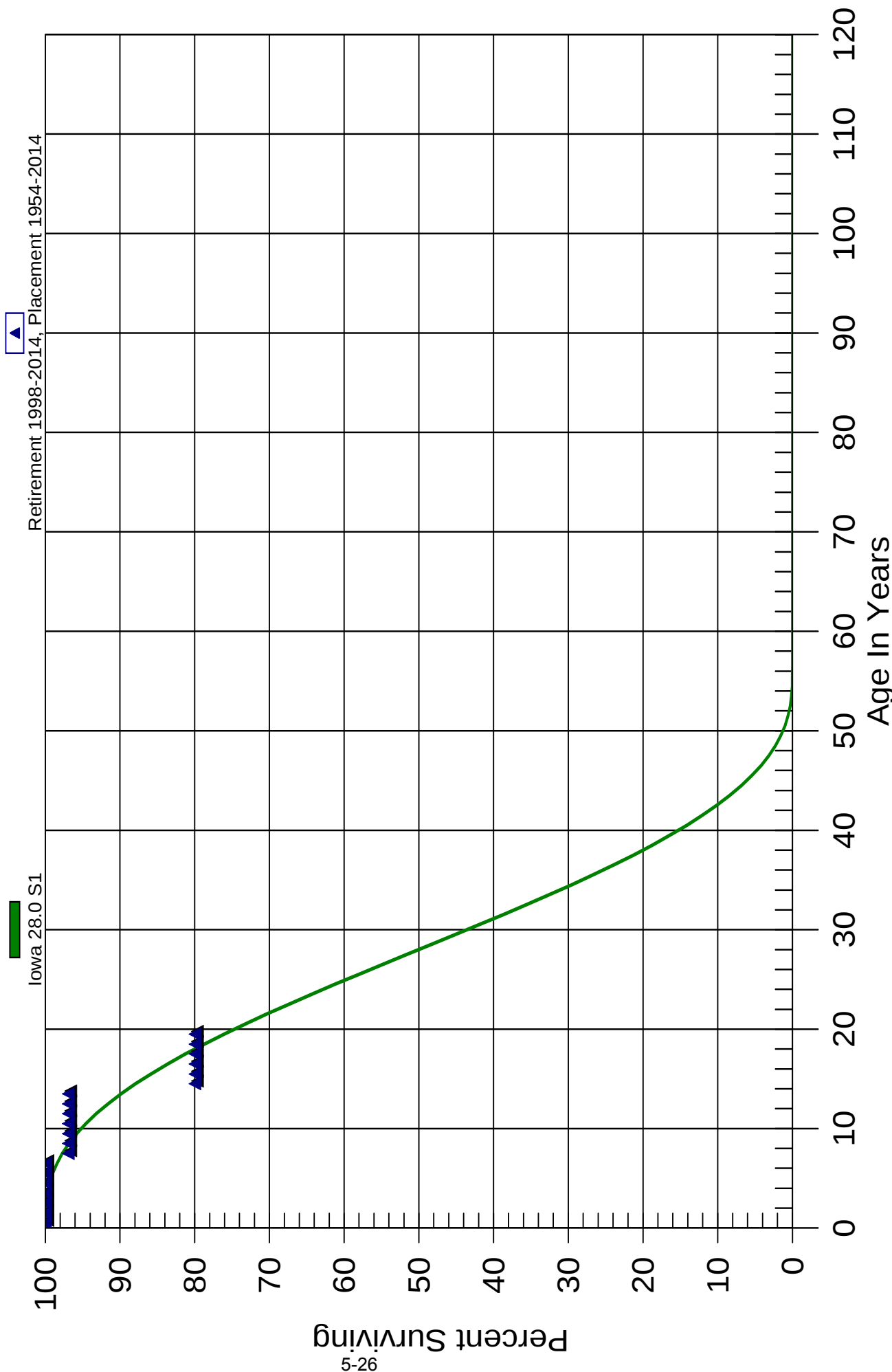
Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$10,642,194.45	\$0.00	0.00000	100.00
0.5 - 1.5	\$10,645,327.34	\$0.00	0.00000	100.00
1.5 - 2.5	\$10,645,327.34	\$0.00	0.00000	100.00
2.5 - 3.5	\$15,144,280.64	\$0.00	0.00000	100.00
3.5 - 4.5	\$15,200,619.97	\$0.00	0.00000	100.00
4.5 - 5.5	\$5,908,423.33	\$0.00	0.00000	100.00
5.5 - 6.5	\$5,924,384.64	\$0.00	0.00000	100.00
6.5 - 7.5	\$5,793,934.65	\$0.00	0.00000	100.00
7.5 - 8.5	\$726,365.76	\$0.00	0.00000	100.00
8.5 - 9.5	\$726,365.76	\$0.00	0.00000	100.00
9.5 - 10.5	\$596,331.06	\$12,169.41	0.02041	100.00
10.5 - 11.5	\$584,161.65	\$0.00	0.00000	97.96
11.5 - 12.5	\$584,161.65	\$7,525.72	0.01288	97.96
12.5 - 13.5	\$576,635.93	\$32,299.68	0.05601	96.70
13.5 - 14.5	\$544,336.25	\$0.00	0.00000	91.28
14.5 - 15.5	\$544,336.25	\$0.00	0.00000	91.28
15.5 - 16.5	\$32,978.33	\$0.00	0.00000	91.28
16.5 - 17.5	\$32,978.33	\$0.00	0.00000	91.28
17.5 - 18.5	\$30,101.88	\$8,000.00	0.26576	91.28
18.5 - 19.5	\$23,301.88	\$0.00	0.00000	67.02
19.5 - 20.5	\$23,301.88	\$0.00	0.00000	67.02
20.5 - 21.5	\$20,539.85	\$0.00	0.00000	67.02
21.5 - 22.5	\$17,417.75	\$0.00	0.00000	67.02
22.5 - 23.5	\$1,456.44	\$0.00	0.00000	67.02
23.5 - 24.5	\$1,456.44	\$0.00	0.00000	67.02
24.5 - 25.5	\$1,456.44	\$0.00	0.00000	67.02
25.5 - 26.5	\$1,456.44	\$0.00	0.00000	67.02
26.5 - 27.5	\$2,471.44	\$0.00	0.00000	67.02
27.5 - 28.5	\$2,471.44	\$0.00	0.00000	67.02
28.5 - 29.5	\$2,471.44	\$1,200.00	0.48555	67.02
29.5 - 30.5	\$1,271.44	\$0.00	0.00000	34.48
30.5 - 31.5	\$1,271.44	\$0.00	0.00000	34.48
31.5 - 32.5	\$1,271.44	\$0.00	0.00000	34.48
32.5 - 33.5	\$1,271.44	\$0.00	0.00000	34.48
33.5 - 34.5	\$1,271.44	\$0.00	0.00000	34.48
34.5 - 35.5	\$1,015.00	\$0.00	0.00000	34.48

Montana-Dakota Utilities Company
Electric Plant
345.10, 345.20

Observed Life Table
Retirement Expr. 1998 TO 2014
Placement Years 1950 TO 2013

<i>Age Interval</i>	<i>\$ Surviving At Beginning of Age Interval</i>	<i>\$ Retired During The Age Interval</i>	<i>Retirement Ratio</i>	<i>% Surviving At Beginning of Age Interval</i>
35.5 - 36.5	\$1,015.00	\$0.00	0.00000	34.48
36.5 - 37.5	\$1,015.00	\$0.00	0.00000	34.48
37.5 - 38.5	\$1,015.00	\$0.00	0.00000	34.48
38.5 - 39.5	\$1,015.00	\$0.00	0.00000	34.48

Montana-Dakota Utilities Company
Electric Plant
346.10, 346.20
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company

Electric Plant

346.10, 346.20

Observed Life Table

Retirement Expr. 1998 TO 2014

Placement Years 1954 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$1,251,966.09	\$0.00	0.00000	100.00
0.5 - 1.5	\$206,658.36	\$0.00	0.00000	100.00
1.5 - 2.5	\$207,342.35	\$0.00	0.00000	100.00
2.5 - 3.5	\$232,598.67	\$0.00	0.00000	100.00
3.5 - 4.5	\$212,995.46	\$0.00	0.00000	100.00
4.5 - 5.5	\$159,946.76	\$0.00	0.00000	100.00
5.5 - 6.5	\$160,442.64	\$0.00	0.00000	100.00
6.5 - 7.5	\$74,983.99	\$2,298.96	0.03066	100.00
7.5 - 8.5	\$31,664.10	\$0.00	0.00000	96.93
8.5 - 9.5	\$27,533.55	\$0.00	0.00000	96.93
9.5 - 10.5	\$21,332.65	\$0.00	0.00000	96.93
10.5 - 11.5	\$12,821.41	\$0.00	0.00000	96.93
11.5 - 12.5	\$12,821.41	\$0.00	0.00000	96.93
12.5 - 13.5	\$17,324.73	\$0.00	0.00000	96.93
13.5 - 14.5	\$18,652.30	\$3,262.95	0.17494	96.93
14.5 - 15.5	\$15,819.09	\$0.00	0.00000	79.98
15.5 - 16.5	\$15,819.09	\$0.00	0.00000	79.98
16.5 - 17.5	\$15,238.61	\$0.00	0.00000	79.98
17.5 - 18.5	\$15,605.84	\$0.00	0.00000	79.98
18.5 - 19.5	\$18,812.69	\$0.00	0.00000	79.98
19.5 - 20.5	\$18,812.69	\$0.00	0.00000	79.98
20.5 - 21.5	\$17,684.32	\$0.00	0.00000	79.98
21.5 - 22.5	\$17,180.40	\$0.00	0.00000	79.98
22.5 - 23.5	\$16,243.18	\$0.00	0.00000	79.98
23.5 - 24.5	\$14,975.73	\$0.00	0.00000	79.98
24.5 - 25.5	\$10,535.54	\$0.00	0.00000	79.98
25.5 - 26.5	\$10,535.54	\$0.00	0.00000	79.98
26.5 - 27.5	\$10,535.54	\$0.00	0.00000	79.98
27.5 - 28.5	\$9,884.37	\$0.00	0.00000	79.98
28.5 - 29.5	\$9,884.37	\$0.00	0.00000	79.98
29.5 - 30.5	\$8,014.47	\$0.00	0.00000	79.98
30.5 - 31.5	\$7,316.43	\$0.00	0.00000	79.98
31.5 - 32.5	\$6,886.69	\$0.00	0.00000	79.98
32.5 - 33.5	\$6,886.69	\$0.00	0.00000	79.98
33.5 - 34.5	\$6,573.24	\$0.00	0.00000	79.98
34.5 - 35.5	\$5,980.42	\$0.00	0.00000	79.98

Montana-Dakota Utilities Company
Electric Plant
346.10, 346.20

Observed Life Table
Retirement Expr. 1998 TO 2014
Placement Years 1954 TO 2014

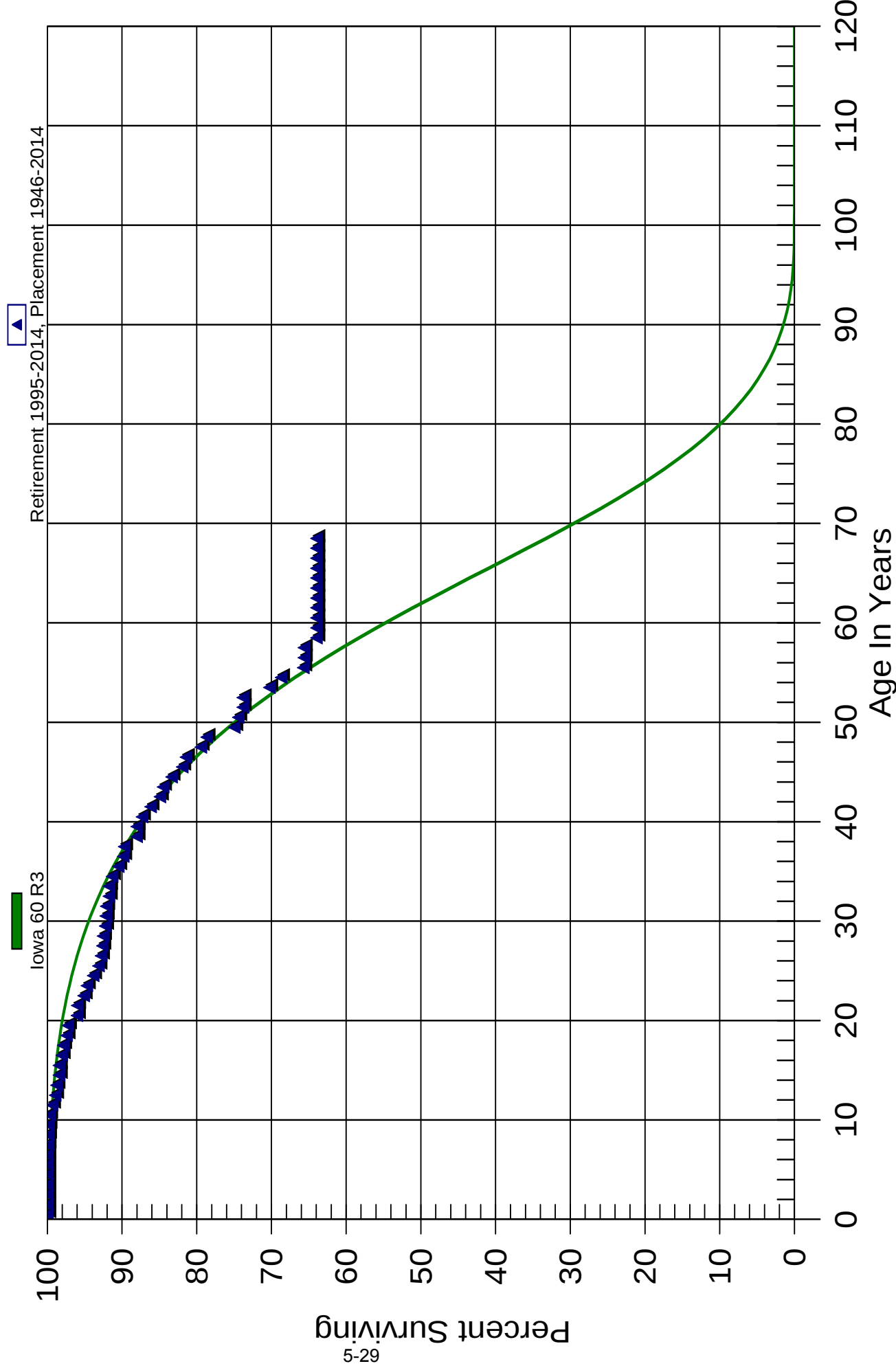
Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$2,089.58	\$0.00	0.00000	79.98
36.5 - 37.5	\$2,089.58	\$0.00	0.00000	79.98
37.5 - 38.5	\$2,089.58	\$0.00	0.00000	79.98
38.5 - 39.5	\$2,089.58	\$0.00	0.00000	79.98
39.5 - 40.5	\$2,089.58	\$0.00	0.00000	79.98
40.5 - 41.5	\$2,089.58	\$0.00	0.00000	79.98
41.5 - 42.5	\$0.00	\$0.00	0.00000	79.98
42.5 - 43.5	\$0.00	\$0.00	0.00000	79.98
43.5 - 44.5	\$3,864.13	\$0.00	0.00000	79.98
44.5 - 45.5	\$3,864.13	\$0.00	0.00000	79.98
45.5 - 46.5	\$3,864.13	\$0.00	0.00000	79.98
46.5 - 47.5	\$3,864.13	\$0.00	0.00000	79.98
47.5 - 48.5	\$3,864.13	\$0.00	0.00000	79.98
48.5 - 49.5	\$3,864.13	\$0.00	0.00000	79.98
49.5 - 50.5	\$3,864.13	\$0.00	0.00000	79.98
50.5 - 51.5	\$3,864.13	\$0.00	0.00000	79.98
51.5 - 52.5	\$3,864.13	\$0.00	0.00000	79.98
52.5 - 53.5	\$3,864.13	\$0.00	0.00000	79.98
53.5 - 54.5	\$3,864.13	\$0.00	0.00000	79.98
54.5 - 55.5	\$3,864.13	\$0.00	0.00000	79.98
55.5 - 56.5	\$3,864.13	\$0.00	0.00000	79.98
56.5 - 57.5	\$3,864.13	\$0.00	0.00000	79.98

Montana-Dakota Utilities Company

Electric Plant

353.00 Station Equipment

Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant
353.00

Observed Life Table
Retirement Expr. 1995 TO 2014
Placement Years 1946 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$72,532,725.47	\$0.00	0.00000	100.00
0.5 - 1.5	\$54,690,267.42	\$0.00	0.00000	100.00
1.5 - 2.5	\$46,329,052.89	\$0.00	0.00000	100.00
2.5 - 3.5	\$40,703,189.84	\$0.00	0.00000	100.00
3.5 - 4.5	\$33,552,407.22	\$0.00	0.00000	100.00
4.5 - 5.5	\$27,776,545.21	\$0.00	0.00000	100.00
5.5 - 6.5	\$24,569,571.94	\$6,330.31	0.00026	100.00
6.5 - 7.5	\$23,330,642.28	\$6,654.98	0.00029	99.97
7.5 - 8.5	\$16,956,903.59	\$7,395.95	0.00044	99.95
8.5 - 9.5	\$17,118,370.24	\$9,318.02	0.00054	99.90
9.5 - 10.5	\$16,570,975.08	\$13,209.14	0.00080	99.85
10.5 - 11.5	\$22,146,669.01	\$88,978.15	0.00402	99.77
11.5 - 12.5	\$23,385,566.69	\$97,165.14	0.00415	99.37
12.5 - 13.5	\$29,318,892.15	\$49,181.80	0.00168	98.95
13.5 - 14.5	\$37,197,473.44	\$123,384.75	0.00332	98.79
14.5 - 15.5	\$36,885,859.98	\$1,903.27	0.00005	98.46
15.5 - 16.5	\$40,956,155.40	\$155,134.81	0.00379	98.46
16.5 - 17.5	\$42,219,335.79	\$84,082.35	0.00199	98.08
17.5 - 18.5	\$42,012,426.15	\$205,154.24	0.00488	97.89
18.5 - 19.5	\$41,671,680.01	\$73,105.55	0.00175	97.41
19.5 - 20.5	\$42,163,236.40	\$521,885.92	0.01238	97.24
20.5 - 21.5	\$42,025,221.02	\$16,426.70	0.00039	96.03
21.5 - 22.5	\$41,907,104.52	\$377,475.81	0.00901	96.00
22.5 - 23.5	\$40,614,331.36	\$184,467.19	0.00454	95.13
23.5 - 24.5	\$40,309,615.38	\$345,709.88	0.00858	94.70
24.5 - 25.5	\$39,659,672.79	\$307,575.92	0.00776	93.89
25.5 - 26.5	\$38,851,014.90	\$143,463.09	0.00369	93.16
26.5 - 27.5	\$38,709,653.76	\$79,456.04	0.00205	92.82
27.5 - 28.5	\$38,858,988.08	\$33,700.82	0.00087	92.63
28.5 - 29.5	\$37,863,098.20	\$112,218.29	0.00296	92.55
29.5 - 30.5	\$37,281,806.56	\$41,449.48	0.00111	92.27
30.5 - 31.5	\$30,462,568.23	\$19,882.65	0.00065	92.17
31.5 - 32.5	\$28,366,125.93	\$106,969.00	0.00377	92.11
32.5 - 33.5	\$22,522,125.99	\$2,039.00	0.00009	91.76
33.5 - 34.5	\$14,479,434.02	\$64,991.94	0.00449	91.75
34.5 - 35.5	\$13,895,420.41	\$125,882.46	0.00906	91.34

Montana-Dakota Utilities Company

Electric Plant

353.00

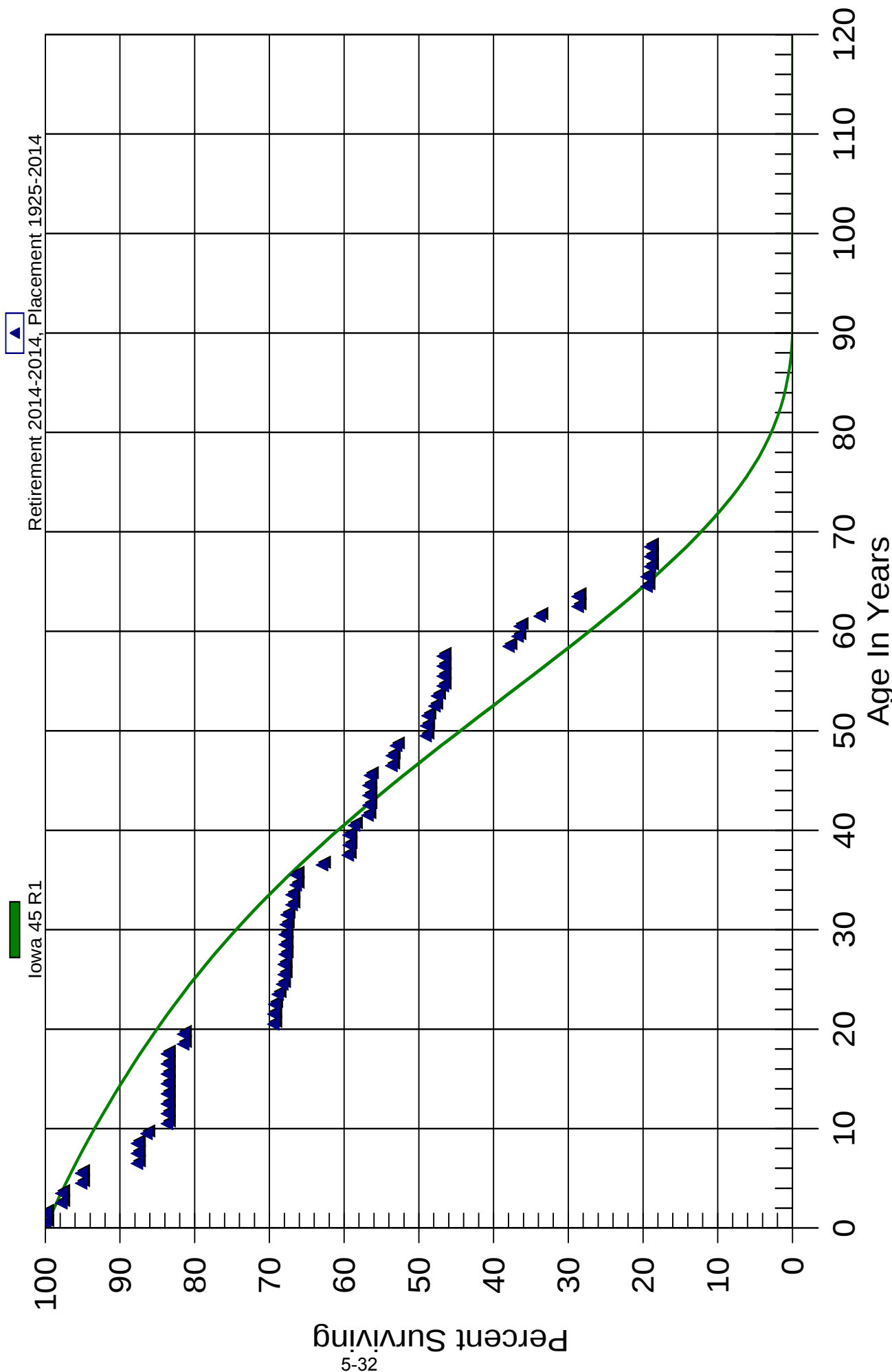
Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1946 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$9,779,113.40	\$74,044.26	0.00757	90.51
36.5 - 37.5	\$8,539,019.43	\$8,808.39	0.00103	89.83
37.5 - 38.5	\$8,011,875.09	\$150,488.57	0.01878	89.74
38.5 - 39.5	\$7,497,948.43	\$2,238.00	0.00030	88.05
39.5 - 40.5	\$6,631,921.18	\$51,360.37	0.00774	88.02
40.5 - 41.5	\$5,872,673.96	\$78,525.21	0.01337	87.34
41.5 - 42.5	\$5,599,519.80	\$81,011.27	0.01447	86.17
42.5 - 43.5	\$5,113,547.03	\$25,160.51	0.00492	84.93
43.5 - 44.5	\$4,801,062.45	\$64,851.77	0.01351	84.51
44.5 - 45.5	\$4,296,282.96	\$73,352.10	0.01707	83.37
45.5 - 46.5	\$4,272,062.19	\$25,723.58	0.00602	81.94
46.5 - 47.5	\$4,158,337.57	\$101,276.96	0.02436	81.45
47.5 - 48.5	\$3,102,990.87	\$30,264.16	0.00975	79.47
48.5 - 49.5	\$3,040,755.18	\$144,448.00	0.04750	78.69
49.5 - 50.5	\$2,675,432.97	\$18,301.53	0.00684	74.95
50.5 - 51.5	\$2,148,002.62	\$17,117.20	0.00797	74.44
51.5 - 52.5	\$1,625,298.70	\$180.00	0.00011	73.85
52.5 - 53.5	\$1,431,379.37	\$68,983.56	0.04819	73.84
53.5 - 54.5	\$1,339,371.45	\$30,074.00	0.02245	70.28
54.5 - 55.5	\$1,063,514.68	\$45,727.00	0.04300	68.70
55.5 - 56.5	\$982,589.92	\$1,392.00	0.00142	65.75
56.5 - 57.5	\$730,615.55	\$0.00	0.00000	65.66
57.5 - 58.5	\$493,985.00	\$12,563.00	0.02543	65.66
58.5 - 59.5	\$378,304.35	\$0.00	0.00000	63.99
59.5 - 60.5	\$365,574.80	\$0.00	0.00000	63.99
60.5 - 61.5	\$290,831.34	\$0.00	0.00000	63.99
61.5 - 62.5	\$216,234.47	\$0.00	0.00000	63.99
62.5 - 63.5	\$213,497.82	\$0.00	0.00000	63.99
63.5 - 64.5	\$197,279.35	\$0.00	0.00000	63.99
64.5 - 65.5	\$87,114.77	\$0.00	0.00000	63.99
65.5 - 66.5	\$60,156.53	\$0.00	0.00000	63.99
66.5 - 67.5	\$27,226.75	\$0.00	0.00000	63.99
67.5 - 68.5	\$1,039.92	\$0.00	0.00000	63.99

Montana-Dakota Utilities Company
Electric Plant
355.00 Poles & Fixtures
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company

Electric Plant

355.00 Poles & Fixtures

Observed Life Table

Retirement Expr. 2014 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$10,893,287.36	\$0.00	0.00000	100.00
0.5 - 1.5	\$3,593,165.90	(\$44.16)	-0.00001	100.00
1.5 - 2.5	\$6,333,458.85	\$136,856.04	0.02161	100.00
2.5 - 3.5	\$3,945,044.13	\$0.00	0.00000	97.84
3.5 - 4.5	\$1,304,989.26	\$35,084.13	0.02688	97.84
4.5 - 5.5	\$369,989.99	\$0.00	0.00000	95.21
5.5 - 6.5	\$1,147,541.57	\$89,961.92	0.07840	95.21
6.5 - 7.5	\$1,381,255.73	\$0.00	0.00000	87.75
7.5 - 8.5	\$440,689.87	\$0.00	0.00000	87.75
8.5 - 9.5	\$399,251.99	\$5,845.96	0.01464	87.75
9.5 - 10.5	\$1,451,698.43	\$46,022.06	0.03170	86.46
10.5 - 11.5	\$500,839.90	\$0.00	0.00000	83.72
11.5 - 12.5	\$386,789.16	\$0.00	0.00000	83.72
12.5 - 13.5	\$288,677.97	\$0.00	0.00000	83.72
13.5 - 14.5	\$508,198.61	\$0.00	0.00000	83.72
14.5 - 15.5	\$166,907.78	\$0.00	0.00000	83.72
15.5 - 16.5	\$167,503.40	\$0.00	0.00000	83.72
16.5 - 17.5	\$1,111,283.58	\$0.00	0.00000	83.72
17.5 - 18.5	\$774,262.33	\$19,926.26	0.02574	83.72
18.5 - 19.5	\$279,425.27	\$0.00	0.00000	81.57
19.5 - 20.5	\$1,809,701.77	\$267,834.25	0.14800	81.57
20.5 - 21.5	\$719,528.55	\$0.00	0.00000	69.49
21.5 - 22.5	\$919,523.89	\$1,775.54	0.00193	69.49
22.5 - 23.5	\$507,024.79	\$3,214.00	0.00634	69.36
23.5 - 24.5	\$378,080.64	\$3,394.02	0.00898	68.92
24.5 - 25.5	\$213,192.65	\$642.80	0.00302	68.30
25.5 - 26.5	\$227,726.60	\$0.00	0.00000	68.10
26.5 - 27.5	\$600,812.08	\$1,186.46	0.00197	68.10
27.5 - 28.5	\$484,903.33	\$0.00	0.00000	67.96
28.5 - 29.5	\$735,496.62	\$0.00	0.00000	67.96
29.5 - 30.5	\$1,375,084.83	\$3,013.76	0.00219	67.96
30.5 - 31.5	\$603,174.47	\$1,114.16	0.00185	67.81
31.5 - 32.5	\$2,558,557.36	\$24,097.52	0.00942	67.69
32.5 - 33.5	\$4,339,488.24	\$1,190.30	0.00027	67.05
33.5 - 34.5	\$332,152.75	\$2,737.52	0.00824	67.03
34.5 - 35.5	\$318,903.97	\$0.00	0.00000	66.48

Montana-Dakota Utilities Company
Electric Plant

355.00 Poles & Fixtures

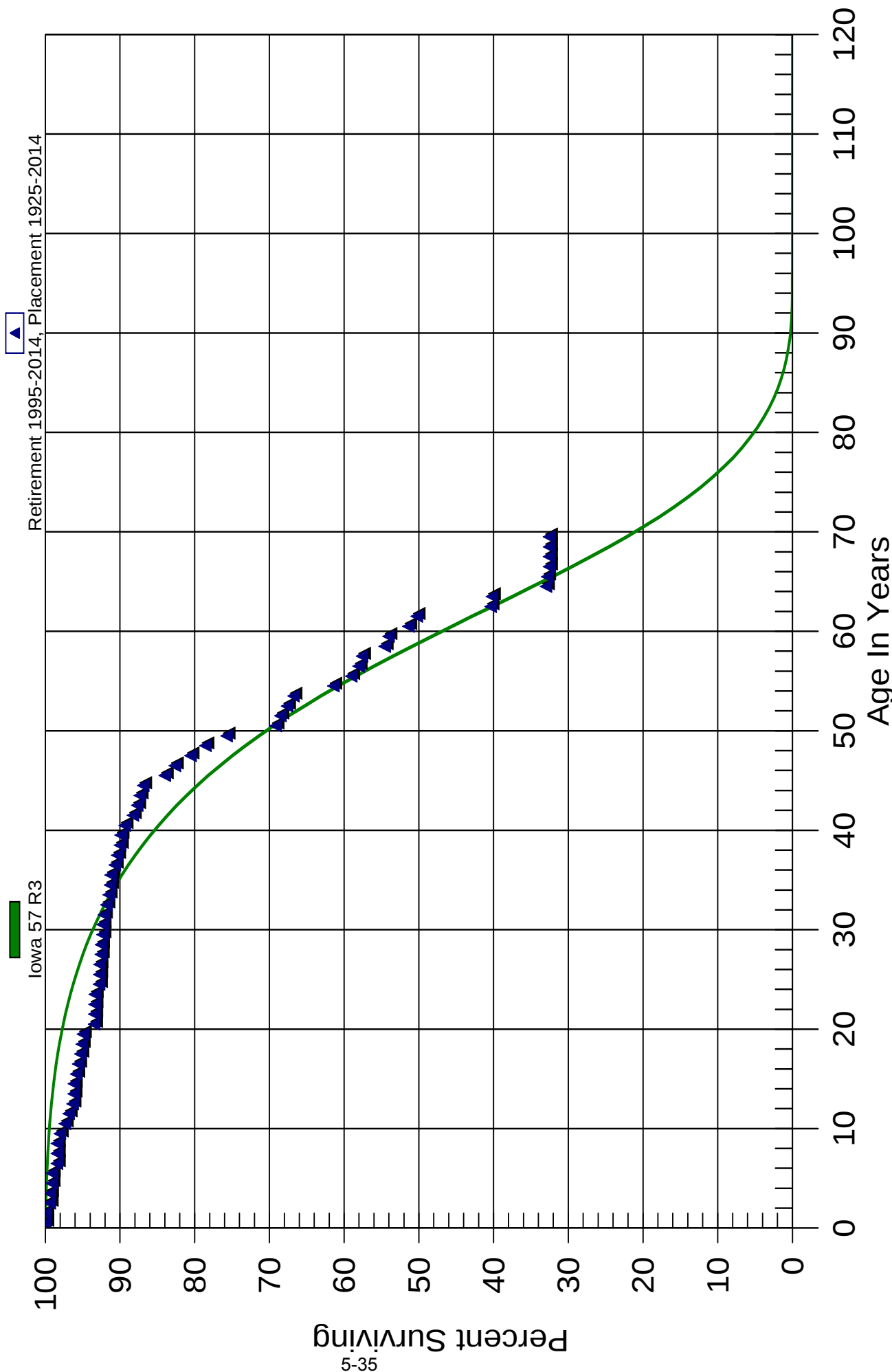
Observed Life Table

Retirement Expr. 2014 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$284,138.81	\$15,042.35	0.05294	66.48
36.5 - 37.5	\$22,141.78	\$1,209.95	0.05465	62.96
37.5 - 38.5	\$109,364.74	\$218.18	0.00199	59.52
38.5 - 39.5	\$635,794.25	\$117.10	0.00018	59.40
39.5 - 40.5	\$1,437,264.06	\$17,162.36	0.01194	59.39
40.5 - 41.5	\$138,030.78	\$4,186.88	0.03033	58.68
41.5 - 42.5	\$165,742.72	\$484.28	0.00292	56.90
42.5 - 43.5	\$116,570.63	\$0.00	0.00000	56.73
43.5 - 44.5	\$120,982.42	\$0.00	0.00000	56.73
44.5 - 45.5	\$234,235.03	\$841.08	0.00359	56.73
45.5 - 46.5	\$170,320.50	\$8,554.96	0.05023	56.53
46.5 - 47.5	\$763,477.33	\$773.60	0.00101	53.69
47.5 - 48.5	\$137,771.24	\$1,463.57	0.01062	53.64
48.5 - 49.5	\$53,227.43	\$3,957.82	0.07436	53.07
49.5 - 50.5	\$480,844.55	\$978.78	0.00204	49.12
50.5 - 51.5	\$177,665.99	\$639.05	0.00360	49.02
51.5 - 52.5	\$90,309.03	\$1,713.17	0.01897	48.84
52.5 - 53.5	\$183,101.80	\$1,259.13	0.00688	47.92
53.5 - 54.5	\$141,023.49	\$2,324.41	0.01648	47.59
54.5 - 55.5	\$30,094.23	\$0.00	0.00000	46.80
55.5 - 56.5	\$85,846.79	\$0.00	0.00000	46.80
56.5 - 57.5	\$42,653.10	\$0.00	0.00000	46.80
57.5 - 58.5	\$148,940.57	\$28,015.56	0.18810	46.80
58.5 - 59.5	\$56,138.88	\$1,756.20	0.03128	38.00
59.5 - 60.5	\$17,850.83	\$145.10	0.00813	36.81
60.5 - 61.5	\$55,738.18	\$4,041.35	0.07251	36.51
61.5 - 62.5	\$19,438.84	\$2,933.08	0.15089	33.86
62.5 - 63.5	\$21,370.64	\$0.00	0.00000	28.75
63.5 - 64.5	\$124,287.50	\$39,915.40	0.32115	28.75
64.5 - 65.5	\$7,467.33	\$0.00	0.00000	19.52
65.5 - 66.5	\$28,473.78	\$666.72	0.02342	19.52
66.5 - 67.5	\$23,819.03	\$0.00	0.00000	19.06
67.5 - 68.5	\$20,238.54	\$0.00	0.00000	19.06

Montana-Dakota Utilities Company
Electric Plant
355.00 Poles & Fixtures
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company

Electric Plant

355.00 Poles & Fixtures

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$35,689,404.04	\$3,815.60	0.00011	100.00
0.5 - 1.5	\$26,744,273.99	(\$44.16)	0.00000	99.99
1.5 - 2.5	\$23,870,871.52	\$139,219.89	0.00583	99.99
2.5 - 3.5	\$18,456,729.90	\$2,827.40	0.00015	99.41
3.5 - 4.5	\$15,028,821.80	\$38,207.24	0.00254	99.39
4.5 - 5.5	\$14,103,540.59	\$753.89	0.00005	99.14
5.5 - 6.5	\$13,947,733.07	\$93,098.36	0.00667	99.13
6.5 - 7.5	\$13,024,337.14	\$746.73	0.00006	98.47
7.5 - 8.5	\$12,277,284.13	\$2,378.81	0.00019	98.47
8.5 - 9.5	\$12,328,226.09	\$48,317.01	0.00392	98.45
9.5 - 10.5	\$12,662,129.40	\$88,272.82	0.00697	98.06
10.5 - 11.5	\$12,620,179.82	\$66,903.59	0.00530	97.38
11.5 - 12.5	\$12,654,369.47	\$66,100.52	0.00522	96.86
12.5 - 13.5	\$14,791,472.24	\$21,103.78	0.00143	96.36
13.5 - 14.5	\$18,868,529.59	\$8,794.01	0.00047	96.22
14.5 - 15.5	\$18,736,451.12	\$60,116.69	0.00321	96.17
15.5 - 16.5	\$18,841,828.45	\$51,302.67	0.00272	95.86
16.5 - 17.5	\$18,982,314.44	\$55,759.04	0.00294	95.60
17.5 - 18.5	\$17,652,340.47	\$40,771.46	0.00231	95.32
18.5 - 19.5	\$16,968,903.82	\$25,250.54	0.00149	95.10
19.5 - 20.5	\$17,315,850.07	\$272,583.76	0.01574	94.96
20.5 - 21.5	\$16,960,775.14	\$4,750.53	0.00028	93.47
21.5 - 22.5	\$16,382,928.59	\$5,602.78	0.00034	93.44
22.5 - 23.5	\$15,632,837.54	\$4,550.73	0.00029	93.41
23.5 - 24.5	\$15,246,760.55	\$95,066.01	0.00624	93.38
24.5 - 25.5	\$14,909,771.06	\$1,839.38	0.00012	92.80
25.5 - 26.5	\$14,936,330.94	\$6,911.37	0.00046	92.79
26.5 - 27.5	\$14,895,366.62	\$28,758.38	0.00193	92.74
27.5 - 28.5	\$15,067,955.79	\$4,384.17	0.00029	92.56
28.5 - 29.5	\$14,813,395.44	\$29,622.96	0.00200	92.54
29.5 - 30.5	\$14,109,663.12	\$6,644.40	0.00047	92.35
30.5 - 31.5	\$13,239,111.07	\$22,907.74	0.00173	92.31
31.5 - 32.5	\$12,829,676.50	\$45,887.09	0.00358	92.15
32.5 - 33.5	\$10,367,007.89	\$35,160.47	0.00339	91.82
33.5 - 34.5	\$6,185,370.35	\$12,010.83	0.00194	91.51
34.5 - 35.5	\$6,030,704.47	\$5,763.04	0.00096	91.33

Montana-Dakota Utilities Company

Electric Plant

355.00 Poles & Fixtures

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$5,748,726.45	\$34,061.78	0.00593	91.24
36.5 - 37.5	\$5,538,751.88	\$19,512.39	0.00352	90.70
37.5 - 38.5	\$5,515,548.24	\$22,757.28	0.00413	90.38
38.5 - 39.5	\$5,557,860.93	\$5,836.51	0.00105	90.01
39.5 - 40.5	\$5,010,945.05	\$29,462.25	0.00588	89.92
40.5 - 41.5	\$3,577,315.76	\$44,658.92	0.01248	89.39
41.5 - 42.5	\$3,463,908.64	\$22,669.62	0.00654	88.27
42.5 - 43.5	\$3,308,878.56	\$12,997.03	0.00393	87.69
43.5 - 44.5	\$3,166,962.05	\$16,812.56	0.00531	87.35
44.5 - 45.5	\$3,331,123.56	\$109,856.93	0.03298	86.89
45.5 - 46.5	\$3,146,439.97	\$50,849.43	0.01616	84.02
46.5 - 47.5	\$2,971,556.23	\$75,832.31	0.02552	82.66
47.5 - 48.5	\$2,192,776.11	\$53,844.08	0.02456	80.55
48.5 - 49.5	\$2,214,283.99	\$80,108.17	0.03618	78.57
49.5 - 50.5	\$2,089,398.35	\$180,669.45	0.08647	75.73
50.5 - 51.5	\$1,431,182.26	\$13,136.46	0.00918	69.18
51.5 - 52.5	\$1,242,277.99	\$16,541.59	0.01332	68.55
52.5 - 53.5	\$1,139,464.95	\$14,309.25	0.01256	67.64
53.5 - 54.5	\$949,628.83	\$75,775.30	0.07979	66.79
54.5 - 55.5	\$741,316.21	\$29,061.21	0.03920	61.46
55.5 - 56.5	\$688,172.24	\$11,402.85	0.01657	59.05
56.5 - 57.5	\$618,938.16	\$4,968.64	0.00803	58.07
57.5 - 58.5	\$573,072.62	\$30,149.05	0.05261	57.60
58.5 - 59.5	\$422,143.66	\$3,869.73	0.00917	54.57
59.5 - 60.5	\$367,932.60	\$18,015.55	0.04896	54.07
60.5 - 61.5	\$335,144.40	\$7,465.47	0.02228	51.43
61.5 - 62.5	\$275,982.10	\$54,193.58	0.19637	50.28
62.5 - 63.5	\$245,198.16	\$1,016.88	0.00415	40.41
63.5 - 64.5	\$222,810.64	\$40,088.19	0.17992	40.24
64.5 - 65.5	\$99,017.07	\$529.36	0.00535	33.00
65.5 - 66.5	\$91,020.38	\$666.72	0.00732	32.82
66.5 - 67.5	\$62,546.60	\$0.00	0.00000	32.58
67.5 - 68.5	\$38,727.57	\$0.00	0.00000	32.58
68.5 - 69.5	\$19,094.99	\$0.00	0.00000	32.58
69.5 - 70.5	\$23,903.01	\$605.96	0.02535	32.58
70.5 - 71.5	\$23,297.05	\$0.00	0.00000	31.76

Montana-Dakota Utilities Company

Electric Plant

355.00 Poles & Fixtures

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1925 TO 2014

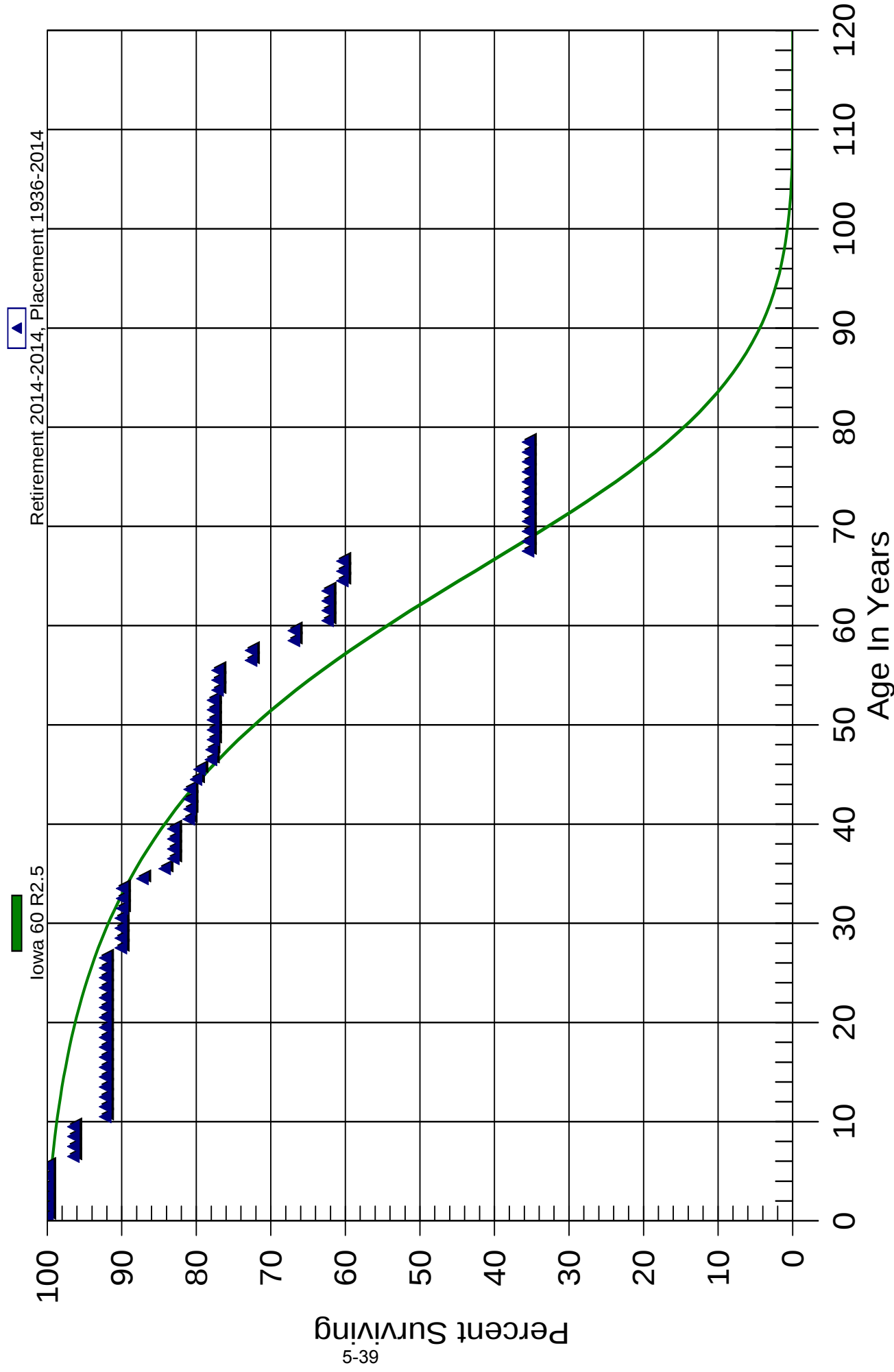
Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
71.5 - 72.5	\$23,297.05	\$0.00	0.00000	31.76
72.5 - 73.5	\$23,297.05	\$0.00	0.00000	31.76
73.5 - 74.5	\$16,981.25	\$0.00	0.00000	31.76
74.5 - 75.5	\$10,819.49	\$0.00	0.00000	31.76
75.5 - 76.5	\$4,808.02	\$0.00	0.00000	31.76
76.5 - 77.5	\$4,808.02	\$0.00	0.00000	31.76
77.5 - 78.5	\$4,808.02	\$0.00	0.00000	31.76
78.5 - 79.5	\$4,808.02	\$0.00	0.00000	31.76
79.5 - 80.5	\$4,808.02	\$0.00	0.00000	31.76
80.5 - 81.5	\$4,808.02	\$0.00	0.00000	31.76
81.5 - 82.5	\$4,808.02	\$0.00	0.00000	31.76
82.5 - 83.5	\$4,808.02	\$0.00	0.00000	31.76
83.5 - 84.5	\$4,808.02	\$0.00	0.00000	31.76
84.5 - 85.5	\$4,808.02	\$0.00	0.00000	31.76
85.5 - 86.5	\$4,808.02	\$0.00	0.00000	31.76
86.5 - 87.5	\$4,808.02	\$0.00	0.00000	31.76
87.5 - 88.5	\$4,808.02	\$0.00	0.00000	31.76
88.5 - 89.5	\$4,808.02	\$0.00	0.00000	31.76

Montana-Dakota Utilities Company

Electric Plant

356.00 Overhead Conductor & Devices

Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant

356.00 Overhead Conductor & Devices

Observed Life Table

Retirement Expr. 2014 TO 2014

Placement Years 1936 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$4,721,124.66	\$0.00	0.00000	100.00
0.5 - 1.5	\$2,785,182.02	\$0.00	0.00000	100.00
1.5 - 2.5	\$3,447,513.44	\$0.00	0.00000	100.00
2.5 - 3.5	\$1,667,859.38	\$0.00	0.00000	100.00
3.5 - 4.5	\$566,878.52	\$0.00	0.00000	100.00
4.5 - 5.5	\$215,514.97	\$0.00	0.00000	100.00
5.5 - 6.5	\$817,554.09	\$28,530.32	0.03490	100.00
6.5 - 7.5	\$703,242.14	\$0.00	0.00000	96.51
7.5 - 8.5	\$220,871.07	\$0.00	0.00000	96.51
8.5 - 9.5	\$40,651.60	\$0.00	0.00000	96.51
9.5 - 10.5	\$703,699.42	\$31,227.02	0.04438	96.51
10.5 - 11.5	\$117,931.85	\$0.00	0.00000	92.23
11.5 - 12.5	\$104,639.87	\$0.00	0.00000	92.23
12.5 - 13.5	\$71,706.86	\$0.00	0.00000	92.23
13.5 - 14.5	\$322,836.76	\$0.00	0.00000	92.23
14.5 - 15.5	\$3,333.70	\$0.00	0.00000	92.23
15.5 - 16.5	\$94,545.25	\$0.00	0.00000	92.23
16.5 - 17.5	\$688,051.94	\$0.00	0.00000	92.23
17.5 - 18.5	\$189,719.90	\$0.00	0.00000	92.23
18.5 - 19.5	\$232,781.63	\$0.00	0.00000	92.23
19.5 - 20.5	\$1,110,499.53	\$0.00	0.00000	92.23
20.5 - 21.5	\$531,264.67	\$0.00	0.00000	92.23
21.5 - 22.5	\$627,157.60	\$0.00	0.00000	92.23
22.5 - 23.5	\$272,742.44	\$0.00	0.00000	92.23
23.5 - 24.5	\$162,812.95	\$0.00	0.00000	92.23
24.5 - 25.5	\$78,846.14	\$0.00	0.00000	92.23
25.5 - 26.5	\$37,761.45	\$0.00	0.00000	92.23
26.5 - 27.5	\$494,033.18	\$11,316.73	0.02291	92.23
27.5 - 28.5	\$458,946.47	\$0.00	0.00000	90.11
28.5 - 29.5	\$737,193.33	\$0.00	0.00000	90.11
29.5 - 30.5	\$1,483,637.80	\$0.00	0.00000	90.11
30.5 - 31.5	\$3,240,835.51	\$5,344.96	0.00165	90.11
31.5 - 32.5	\$2,081,847.17	\$0.00	0.00000	89.97
32.5 - 33.5	\$3,197,930.24	\$0.00	0.00000	89.97
33.5 - 34.5	\$508,475.87	\$15,387.99	0.03026	89.97
34.5 - 35.5	\$323,382.79	\$11,151.72	0.03448	87.24

Montana-Dakota Utilities Company
Electric Plant

356.00 Overhead Conductor & Devices

Observed Life Table

Retirement Expr. 2014 TO 2014

Placement Years 1936 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$312,513.26	\$4,195.86	0.01343	84.24
36.5 - 37.5	\$229,037.69	\$0.00	0.00000	83.10
37.5 - 38.5	\$38,645.23	\$0.00	0.00000	83.10
38.5 - 39.5	\$416,006.86	\$0.00	0.00000	83.10
39.5 - 40.5	\$516,313.30	\$12,935.93	0.02505	83.10
40.5 - 41.5	\$142,401.36	\$230.73	0.00162	81.02
41.5 - 42.5	\$190,768.90	\$0.00	0.00000	80.89
42.5 - 43.5	\$145,657.62	\$0.00	0.00000	80.89
43.5 - 44.5	\$149,022.19	\$1,552.99	0.01042	80.89
44.5 - 45.5	\$332,855.47	\$1,976.01	0.00594	80.05
45.5 - 46.5	\$232,002.79	\$4,404.58	0.01899	79.57
46.5 - 47.5	\$1,218,040.17	\$1,727.45	0.00142	78.06
47.5 - 48.5	\$198,328.66	\$503.42	0.00254	77.95
48.5 - 49.5	\$132,360.47	\$0.00	0.00000	77.75
49.5 - 50.5	\$578,657.54	\$0.00	0.00000	77.75
50.5 - 51.5	\$242,168.08	\$0.00	0.00000	77.75
51.5 - 52.5	\$117,301.19	\$0.00	0.00000	77.75
52.5 - 53.5	\$340,605.96	\$2,569.13	0.00754	77.75
53.5 - 54.5	\$224,731.21	\$0.00	0.00000	77.17
54.5 - 55.5	\$40,593.56	\$0.00	0.00000	77.17
55.5 - 56.5	\$131,185.89	\$7,686.75	0.05859	77.17
56.5 - 57.5	\$55,232.61	\$0.00	0.00000	72.65
57.5 - 58.5	\$215,276.33	\$16,998.74	0.07896	72.65
58.5 - 59.5	\$96,732.29	\$0.00	0.00000	66.91
59.5 - 60.5	\$32,418.94	\$2,186.45	0.06744	66.91
60.5 - 61.5	\$102,516.37	\$0.00	0.00000	62.40
61.5 - 62.5	\$25,306.93	\$0.00	0.00000	62.40
62.5 - 63.5	\$37,989.21	\$0.00	0.00000	62.40
63.5 - 64.5	\$158,146.49	\$5,040.56	0.03187	62.40
64.5 - 65.5	\$13,230.71	\$0.00	0.00000	60.41
65.5 - 66.5	\$52,711.10	\$0.00	0.00000	60.41
66.5 - 67.5	\$79,573.39	\$32,813.46	0.41237	60.41
67.5 - 68.5	\$41,253.03	\$0.00	0.00000	35.50
68.5 - 69.5	\$0.00	\$0.00	0.00000	35.50
69.5 - 70.5	\$0.00	\$0.00	0.00000	35.50
70.5 - 71.5	\$0.00	\$0.00	0.00000	35.50

Montana-Dakota Utilities Company
Electric Plant

356.00 Overhead Conductor & Devices

Observed Life Table

Retirement Expr. 2014 TO 2014

Placement Years 1936 TO 2014

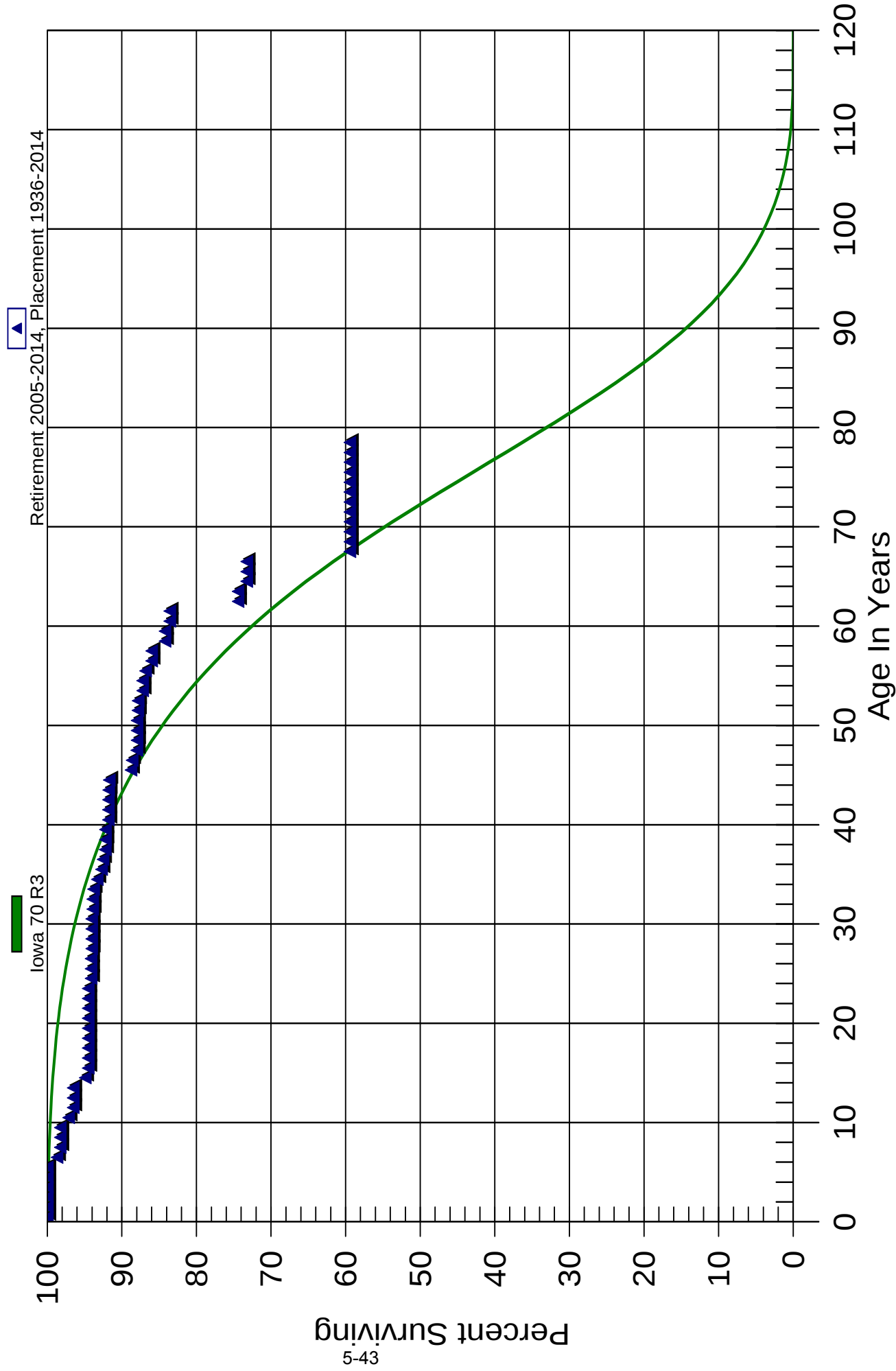
<i>Age Interval</i>	<i>\$ Surviving At Beginning of Age Interval</i>	<i>\$ Retired During The Age Interval</i>	<i>Retirement Ratio</i>	<i>% Surviving At Beginning of Age Interval</i>
71.5 - 72.5	\$0.00	\$0.00	0.00000	35.50
72.5 - 73.5	\$13,653.32	\$0.00	0.00000	35.50
73.5 - 74.5	\$13,320.31	\$0.00	0.00000	35.50
74.5 - 75.5	\$12,995.43	\$0.00	0.00000	35.50
75.5 - 76.5	\$12,678.47	\$0.00	0.00000	35.50
76.5 - 77.5	\$12,369.23	\$0.00	0.00000	35.50
77.5 - 78.5	\$12,369.23	\$0.00	0.00000	35.50

Montana-Dakota Utilities Company

Electric Plant

356.00 Overhead Conductor & Devices

Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant

356.00 Overhead Conductor & Devices

Observed Life Table

Retirement Expr. 2005 TO 2014

Placement Years 1936 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$15,154,601.75	\$0.00	0.00000	100.00
0.5 - 1.5	\$11,168,966.65	\$0.00	0.00000	100.00
1.5 - 2.5	\$8,501,716.48	\$0.00	0.00000	100.00
2.5 - 3.5	\$5,190,970.51	\$0.00	0.00000	100.00
3.5 - 4.5	\$3,594,817.99	\$0.00	0.00000	100.00
4.5 - 5.5	\$3,350,776.23	\$0.00	0.00000	100.00
5.5 - 6.5	\$3,138,594.96	\$40,827.64	0.01301	100.00
6.5 - 7.5	\$2,414,325.36	\$11,036.56	0.00457	98.70
7.5 - 8.5	\$2,388,098.60	\$0.00	0.00000	98.25
8.5 - 9.5	\$2,517,850.83	\$0.00	0.00000	98.25
9.5 - 10.5	\$2,776,281.25	\$31,227.02	0.01125	98.25
10.5 - 11.5	\$3,189,432.12	\$19,830.28	0.00622	97.14
11.5 - 12.5	\$3,582,934.66	\$0.00	0.00000	96.54
12.5 - 13.5	\$4,105,452.39	\$0.00	0.00000	96.54
13.5 - 14.5	\$4,306,487.97	\$72,651.15	0.01687	96.54
14.5 - 15.5	\$4,073,813.01	\$17,035.20	0.00418	94.91
15.5 - 16.5	\$4,132,290.25	\$0.00	0.00000	94.51
16.5 - 17.5	\$4,064,189.72	\$0.00	0.00000	94.51
17.5 - 18.5	\$3,726,302.76	\$0.00	0.00000	94.51
18.5 - 19.5	\$3,995,529.33	\$0.00	0.00000	94.51
19.5 - 20.5	\$4,499,941.03	\$0.00	0.00000	94.51
20.5 - 21.5	\$4,915,411.65	\$0.00	0.00000	94.51
21.5 - 22.5	\$7,624,982.49	\$788.45	0.00010	94.51
22.5 - 23.5	\$9,078,883.61	\$0.00	0.00000	94.50
23.5 - 24.5	\$12,000,466.03	\$46,888.86	0.00391	94.50
24.5 - 25.5	\$12,288,088.37	\$0.00	0.00000	94.13
25.5 - 26.5	\$12,539,745.89	\$0.00	0.00000	94.13
26.5 - 27.5	\$12,817,377.80	\$11,316.73	0.00088	94.13
27.5 - 28.5	\$12,552,382.31	\$349.92	0.00003	94.05
28.5 - 29.5	\$12,131,731.15	\$670.42	0.00006	94.05
29.5 - 30.5	\$11,803,857.66	\$0.00	0.00000	94.04
30.5 - 31.5	\$10,836,302.43	\$16,457.15	0.00152	94.04
31.5 - 32.5	\$7,724,607.91	\$0.00	0.00000	93.90
32.5 - 33.5	\$5,848,917.63	\$6,226.74	0.00106	93.90
33.5 - 34.5	\$2,801,496.17	\$15,387.99	0.00549	93.80
34.5 - 35.5	\$2,448,276.77	\$14,448.06	0.00590	93.29

Montana-Dakota Utilities Company
Electric Plant

356.00 Overhead Conductor & Devices

Observed Life Table

Retirement Expr. 2005 TO 2014

Placement Years 1936 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$2,453,745.09	\$5,770.23	0.00235	92.73
36.5 - 37.5	\$2,377,624.41	\$7,691.61	0.00323	92.52
37.5 - 38.5	\$3,364,786.51	\$703.82	0.00021	92.22
38.5 - 39.5	\$3,650,546.64	\$0.00	0.00000	92.20
39.5 - 40.5	\$3,367,190.44	\$14,415.10	0.00428	92.20
40.5 - 41.5	\$3,431,057.43	\$245.00	0.00007	91.80
41.5 - 42.5	\$3,531,419.39	\$0.00	0.00000	91.80
42.5 - 43.5	\$3,456,968.32	\$513.67	0.00015	91.80
43.5 - 44.5	\$3,675,019.90	\$4,129.68	0.00112	91.78
44.5 - 45.5	\$3,754,440.39	\$119,598.56	0.03186	91.68
45.5 - 46.5	\$3,338,596.63	\$5,258.32	0.00158	88.76
46.5 - 47.5	\$3,241,498.07	\$23,347.70	0.00720	88.62
47.5 - 48.5	\$2,040,071.52	\$503.42	0.00025	87.98
48.5 - 49.5	\$2,057,019.19	\$32.78	0.00002	87.96
49.5 - 50.5	\$2,022,117.12	\$0.00	0.00000	87.96
50.5 - 51.5	\$1,475,878.52	\$1,932.03	0.00131	87.96
51.5 - 52.5	\$1,336,863.91	\$127.50	0.00010	87.84
52.5 - 53.5	\$1,244,742.15	\$8,943.50	0.00719	87.84
53.5 - 54.5	\$930,710.47	\$0.00	0.00000	87.20
54.5 - 55.5	\$923,562.62	\$4,104.01	0.00444	87.20
55.5 - 56.5	\$892,095.76	\$8,448.72	0.00947	86.82
56.5 - 57.5	\$797,044.28	\$0.00	0.00000	85.99
57.5 - 58.5	\$821,385.06	\$16,998.74	0.02070	85.99
58.5 - 59.5	\$649,548.21	\$83.85	0.00013	84.21
59.5 - 60.5	\$552,732.07	\$3,983.13	0.00721	84.20
60.5 - 61.5	\$518,516.45	\$0.00	0.00000	83.60
61.5 - 62.5	\$416,000.08	\$45,643.24	0.10972	83.60
62.5 - 63.5	\$350,090.47	\$0.00	0.00000	74.42
63.5 - 64.5	\$325,754.58	\$5,040.56	0.01547	74.42
64.5 - 65.5	\$180,928.40	\$0.00	0.00000	73.27
65.5 - 66.5	\$213,506.58	\$0.00	0.00000	73.27
66.5 - 67.5	\$173,473.95	\$32,813.46	0.18915	73.27
67.5 - 68.5	\$106,269.79	\$0.00	0.00000	59.41
68.5 - 69.5	\$77,385.99	\$0.00	0.00000	59.41
69.5 - 70.5	\$77,385.99	\$0.00	0.00000	59.41
70.5 - 71.5	\$77,385.99	\$0.00	0.00000	59.41

Montana-Dakota Utilities Company
Electric Plant

356.00 Overhead Conductor & Devices

Observed Life Table

Retirement Expr. 2005 TO 2014

Placement Years 1936 TO 2014

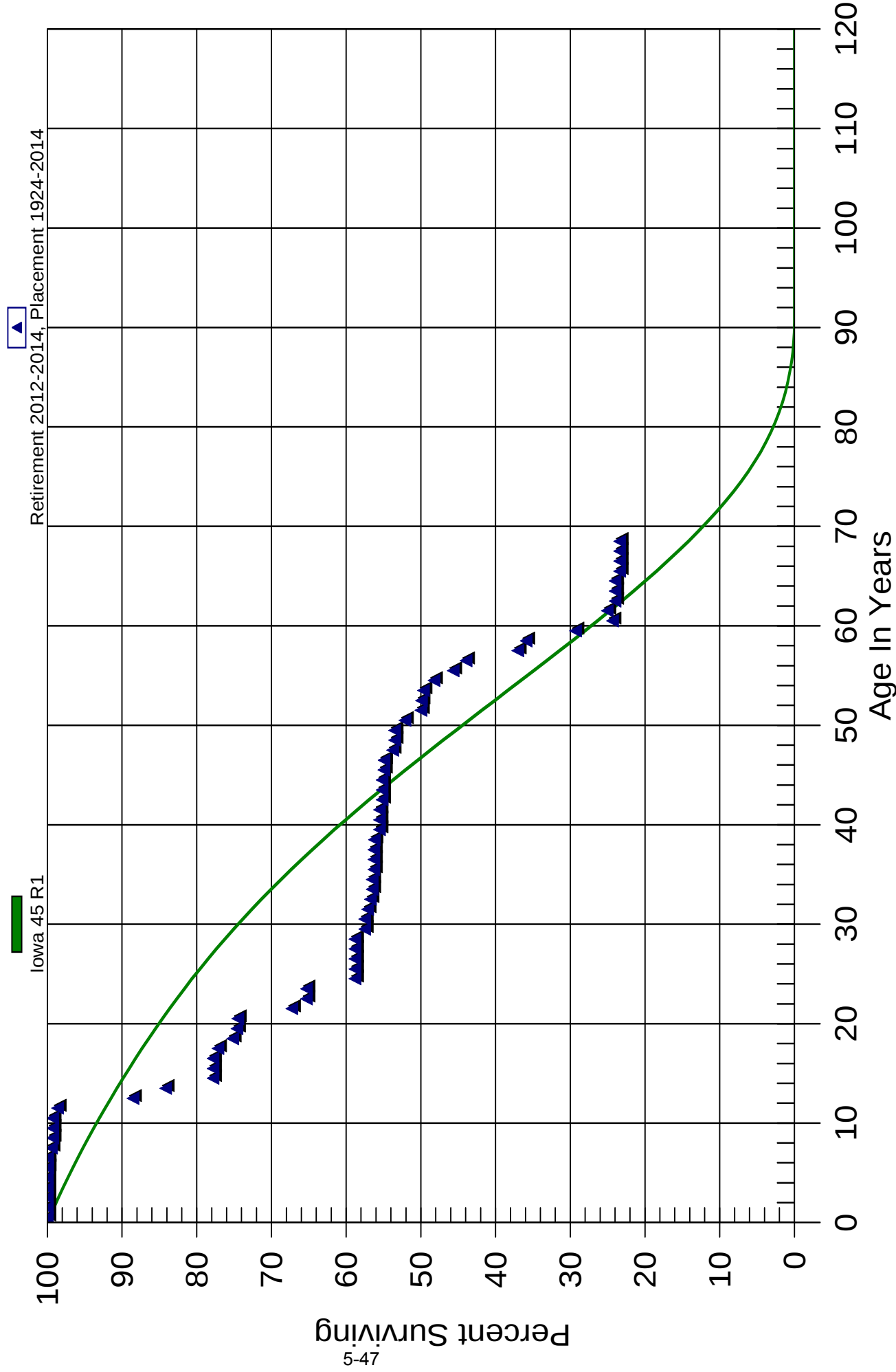
Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
71.5 - 72.5	\$77,385.99	\$0.00	0.00000	59.41
72.5 - 73.5	\$77,385.99	\$0.00	0.00000	59.41
73.5 - 74.5	\$63,732.67	\$0.00	0.00000	59.41
74.5 - 75.5	\$50,412.36	\$0.00	0.00000	59.41
75.5 - 76.5	\$37,416.93	\$0.00	0.00000	59.41
76.5 - 77.5	\$24,738.46	\$0.00	0.00000	59.41
77.5 - 78.5	\$12,369.23	\$0.00	0.00000	59.41

Montana-Dakota Utilities Company

Electric Plant

362.00 Station Equipment

Original And Smooth Survivor Curves



Montana-Dakota Utilities Company

Electric Plant

362.00 Station Equipment

Observed Life Table

Retirement Expr. 2012 TO 2014

Placement Years 1924 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$17,919,085.49	\$0.00	0.00000	100.00
0.5 - 1.5	\$12,100,003.87	\$0.00	0.00000	100.00
1.5 - 2.5	\$11,456,356.41	\$0.00	0.00000	100.00
2.5 - 3.5	\$6,545,100.96	\$0.00	0.00000	100.00
3.5 - 4.5	\$5,777,236.38	\$0.00	0.00000	100.00
4.5 - 5.5	\$7,290,552.00	\$2,272.44	0.00031	100.00
5.5 - 6.5	\$8,364,295.10	\$0.00	0.00000	99.97
6.5 - 7.5	\$7,446,163.35	\$38,707.54	0.00520	99.97
7.5 - 8.5	\$4,708,430.36	\$7,493.71	0.00159	99.45
8.5 - 9.5	\$3,022,681.41	\$0.00	0.00000	99.29
9.5 - 10.5	\$2,532,823.13	\$0.00	0.00000	99.29
10.5 - 11.5	\$2,681,622.50	\$17,706.32	0.00660	99.29
11.5 - 12.5	\$1,377,850.31	\$140,841.52	0.10222	98.64
12.5 - 13.5	\$1,095,759.19	\$54,396.60	0.04964	88.55
13.5 - 14.5	\$812,960.52	\$61,186.75	0.07526	84.16
14.5 - 15.5	\$705,058.29	\$0.00	0.00000	77.82
15.5 - 16.5	\$1,430,848.39	\$0.00	0.00000	77.82
16.5 - 17.5	\$1,700,627.88	\$14,610.69	0.00859	77.82
17.5 - 18.5	\$1,092,822.84	\$27,664.65	0.02531	77.15
18.5 - 19.5	\$3,439,265.18	\$26,909.24	0.00782	75.20
19.5 - 20.5	\$5,001,716.22	\$8,290.50	0.00166	74.61
20.5 - 21.5	\$4,388,576.30	\$425,040.43	0.09685	74.49
21.5 - 22.5	\$2,407,142.23	\$70,466.24	0.02927	67.27
22.5 - 23.5	\$1,427,165.57	\$0.00	0.00000	65.31
23.5 - 24.5	\$1,402,917.47	\$139,309.60	0.09930	65.31
24.5 - 25.5	\$981,146.34	\$0.00	0.00000	58.82
25.5 - 26.5	\$522,729.67	\$0.00	0.00000	58.82
26.5 - 27.5	\$631,150.39	\$0.00	0.00000	58.82
27.5 - 28.5	\$695,467.49	\$0.00	0.00000	58.82
28.5 - 29.5	\$2,128,157.67	\$46,402.97	0.02180	58.82
29.5 - 30.5	\$3,044,118.69	\$600.00	0.00020	57.54
30.5 - 31.5	\$3,152,760.91	\$22,465.74	0.00713	57.53
31.5 - 32.5	\$2,864,226.50	\$19,029.63	0.00664	57.12
32.5 - 33.5	\$2,782,199.11	\$10,333.07	0.00371	56.74
33.5 - 34.5	\$3,205,248.31	\$0.00	0.00000	56.53
34.5 - 35.5	\$2,752,424.17	\$12,399.12	0.00450	56.53

Montana-Dakota Utilities Company

Electric Plant

362.00 Station Equipment

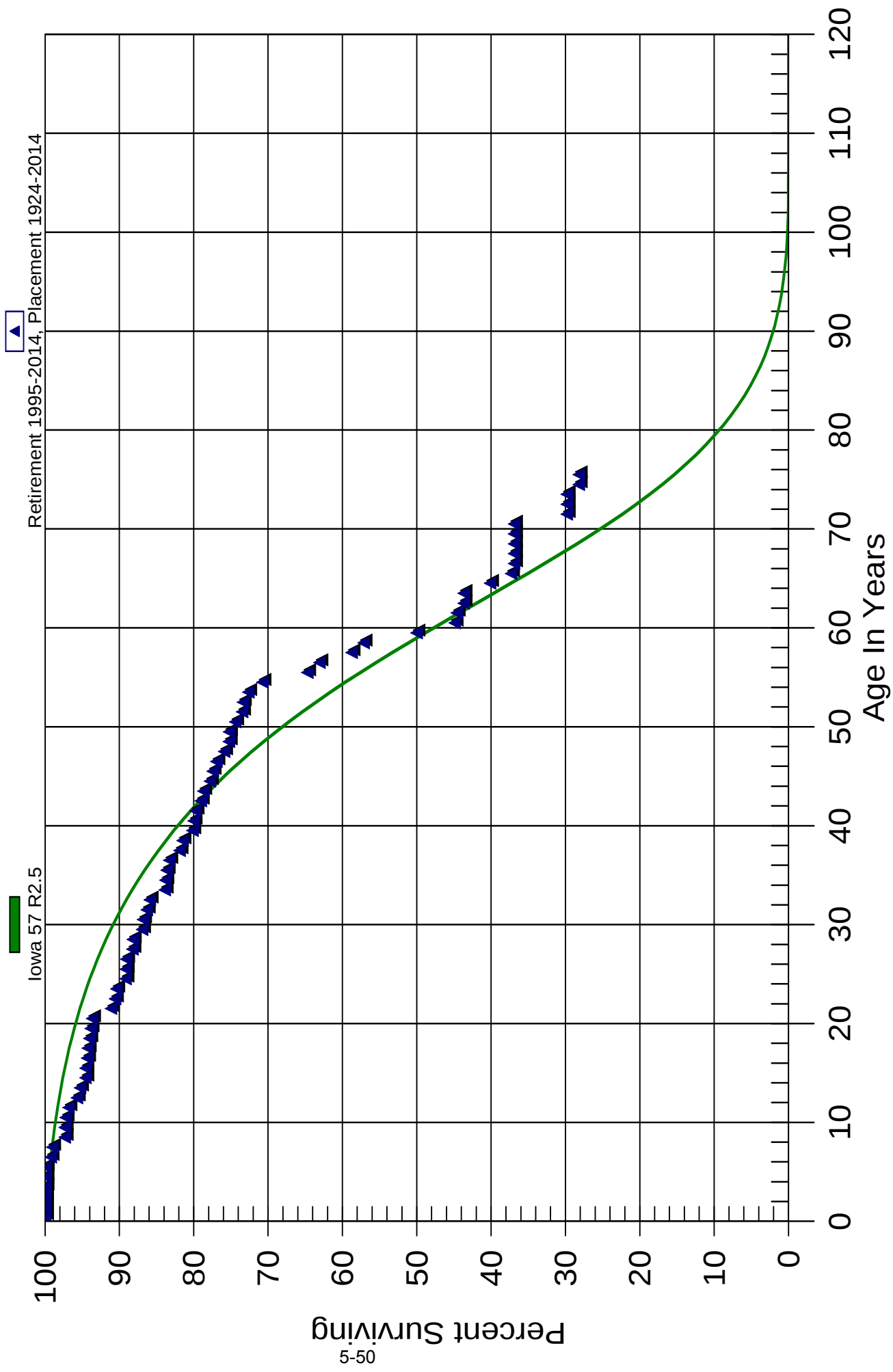
Observed Life Table

Retirement Expr. 2012 TO 2014

Placement Years 1924 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$2,158,700.07	\$0.00	0.00000	56.27
36.5 - 37.5	\$2,370,542.83	\$0.00	0.00000	56.27
37.5 - 38.5	\$1,884,942.28	\$1,558.00	0.00083	56.27
38.5 - 39.5	\$1,596,054.59	\$19,258.80	0.01207	56.23
39.5 - 40.5	\$850,376.71	\$0.00	0.00000	55.55
40.5 - 41.5	\$602,204.37	\$0.00	0.00000	55.55
41.5 - 42.5	\$404,794.42	\$2,583.00	0.00638	55.55
42.5 - 43.5	\$439,420.33	\$0.00	0.00000	55.19
43.5 - 44.5	\$716,507.35	\$0.00	0.00000	55.19
44.5 - 45.5	\$727,487.74	\$3,066.72	0.00422	55.19
45.5 - 46.5	\$655,991.11	\$206.39	0.00031	54.96
46.5 - 47.5	\$528,452.19	\$11,188.74	0.02117	54.94
47.5 - 48.5	\$486,723.06	\$2,254.44	0.00463	53.78
48.5 - 49.5	\$488,503.53	\$0.00	0.00000	53.53
49.5 - 50.5	\$378,537.63	\$9,823.68	0.02595	53.53
50.5 - 51.5	\$346,143.52	\$14,284.02	0.04127	52.14
51.5 - 52.5	\$411,988.27	\$600.00	0.00146	49.99
52.5 - 53.5	\$445,885.65	\$2,250.75	0.00505	49.92
53.5 - 54.5	\$433,959.50	\$12,428.72	0.02864	49.66
54.5 - 55.5	\$318,742.67	\$17,037.57	0.05345	48.24
55.5 - 56.5	\$207,545.98	\$7,790.48	0.03754	45.66
56.5 - 57.5	\$214,219.75	\$33,701.23	0.15732	43.95
57.5 - 58.5	\$232,429.22	\$7,063.84	0.03039	37.04
58.5 - 59.5	\$262,671.00	\$48,286.54	0.18383	35.91
59.5 - 60.5	\$161,969.31	\$27,381.66	0.16905	29.31
60.5 - 61.5	\$119,597.93	(\$3,403.95)	-0.02846	24.35
61.5 - 62.5	\$108,461.99	\$4,482.80	0.04133	25.05
62.5 - 63.5	\$107,996.47	\$0.00	0.00000	24.01
63.5 - 64.5	\$96,634.50	\$0.00	0.00000	24.01
64.5 - 65.5	\$75,635.33	\$1,911.06	0.02527	24.01
65.5 - 66.5	\$59,251.17	\$0.00	0.00000	23.40
66.5 - 67.5	\$34,609.15	\$0.00	0.00000	23.40
67.5 - 68.5	\$14,210.86	\$0.00	0.00000	23.40

Montana-Dakota Utilities Company
Electric Plant
362.00 Station Equipment
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company

Electric Plant

362.00 Station Equipment

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1924 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$39,919,078.37	\$0.00	0.00000	100.00
0.5 - 1.5	\$31,842,793.53	\$3,405.70	0.00011	100.00
1.5 - 2.5	\$32,096,727.23	\$0.00	0.00000	99.99
2.5 - 3.5	\$26,675,800.97	\$15,603.29	0.00058	99.99
3.5 - 4.5	\$24,105,449.89	\$3,873.80	0.00016	99.93
4.5 - 5.5	\$23,080,492.81	\$2,272.44	0.00010	99.91
5.5 - 6.5	\$21,415,912.86	\$143,856.71	0.00672	99.90
6.5 - 7.5	\$19,587,221.41	\$40,980.68	0.00209	99.23
7.5 - 8.5	\$16,600,957.29	\$277,910.68	0.01674	99.03
8.5 - 9.5	\$13,130,920.03	\$0.00	0.00000	97.37
9.5 - 10.5	\$12,501,009.66	\$17,449.40	0.00140	97.37
10.5 - 11.5	\$12,268,192.76	\$48,048.41	0.00392	97.23
11.5 - 12.5	\$12,203,443.43	\$142,341.52	0.01166	96.85
12.5 - 13.5	\$12,994,915.76	\$58,452.93	0.00450	95.72
13.5 - 14.5	\$12,839,729.52	\$97,518.90	0.00760	95.29
14.5 - 15.5	\$13,857,594.31	\$0.00	0.00000	94.57
15.5 - 16.5	\$14,891,006.25	\$35,054.48	0.00235	94.57
16.5 - 17.5	\$15,263,573.79	\$17,790.69	0.00117	94.35
17.5 - 18.5	\$15,112,646.59	\$31,778.51	0.00210	94.24
18.5 - 19.5	\$15,591,656.94	\$26,909.24	0.00173	94.04
19.5 - 20.5	\$16,391,599.51	\$33,660.57	0.00205	93.87
20.5 - 21.5	\$15,985,305.77	\$432,554.25	0.02706	93.68
21.5 - 22.5	\$13,978,661.23	\$85,538.16	0.00612	91.15
22.5 - 23.5	\$12,607,229.29	\$23,938.05	0.00190	90.59
23.5 - 24.5	\$12,479,319.89	\$170,729.75	0.01368	90.42
24.5 - 25.5	\$12,016,121.85	\$4,530.15	0.00038	89.18
25.5 - 26.5	\$11,706,953.01	\$9,279.94	0.00079	89.15
26.5 - 27.5	\$11,857,514.65	\$110,148.27	0.00929	89.08
27.5 - 28.5	\$11,802,618.43	\$7,548.67	0.00064	88.25
28.5 - 29.5	\$11,812,884.43	\$164,643.00	0.01394	88.19
29.5 - 30.5	\$11,592,665.87	\$19,427.83	0.00168	86.96
30.5 - 31.5	\$11,537,047.99	\$65,605.60	0.00569	86.82
31.5 - 32.5	\$10,037,743.26	\$45,643.65	0.00455	86.32
32.5 - 33.5	\$8,838,262.19	\$209,736.72	0.02373	85.93
33.5 - 34.5	\$8,493,895.19	\$7,121.59	0.00084	83.89
34.5 - 35.5	\$7,435,592.55	\$14,965.12	0.00201	83.82

Montana-Dakota Utilities Company

Electric Plant

362.00 Station Equipment

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1924 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$6,331,213.76	\$26,727.46	0.00422	83.65
36.5 - 37.5	\$5,733,928.52	\$95,474.48	0.01665	83.30
37.5 - 38.5	\$4,904,182.93	\$24,421.86	0.00498	81.91
38.5 - 39.5	\$4,294,756.42	\$69,629.10	0.01621	81.50
39.5 - 40.5	\$3,471,662.80	\$7,591.86	0.00219	80.18
40.5 - 41.5	\$3,216,690.83	\$10,073.65	0.00313	80.01
41.5 - 42.5	\$2,966,173.15	\$26,229.56	0.00884	79.76
42.5 - 43.5	\$2,813,630.64	\$12,604.94	0.00448	79.05
43.5 - 44.5	\$2,769,749.38	\$30,769.48	0.01111	78.70
44.5 - 45.5	\$2,660,186.73	\$12,845.50	0.00483	77.82
45.5 - 46.5	\$2,476,545.04	\$15,607.05	0.00630	77.45
46.5 - 47.5	\$2,118,846.22	\$28,990.67	0.01368	76.96
47.5 - 48.5	\$1,993,951.30	\$16,126.31	0.00809	75.91
48.5 - 49.5	\$1,862,902.29	\$950.32	0.00051	75.29
49.5 - 50.5	\$1,647,491.16	\$18,109.78	0.01099	75.25
50.5 - 51.5	\$1,496,745.63	\$18,699.70	0.01249	74.43
51.5 - 52.5	\$1,359,161.48	\$1,970.00	0.00145	73.50
52.5 - 53.5	\$1,291,905.94	\$12,979.61	0.01005	73.39
53.5 - 54.5	\$1,173,204.29	\$30,617.00	0.02610	72.65
54.5 - 55.5	\$943,199.67	\$80,274.96	0.08511	70.76
55.5 - 56.5	\$756,577.47	\$19,351.22	0.02558	64.74
56.5 - 57.5	\$632,479.21	\$43,359.71	0.06856	63.08
57.5 - 58.5	\$562,398.62	\$15,376.92	0.02734	58.76
58.5 - 59.5	\$513,676.54	\$63,917.31	0.12443	57.15
59.5 - 60.5	\$368,218.34	\$37,801.66	0.10266	50.04
60.5 - 61.5	\$277,511.91	\$1,787.73	0.00644	44.90
61.5 - 62.5	\$217,215.09	\$4,482.80	0.02064	44.61
62.5 - 63.5	\$186,154.55	\$0.00	0.00000	43.69
63.5 - 64.5	\$150,150.56	\$12,222.56	0.08140	43.69
64.5 - 65.5	\$96,530.54	\$6,793.76	0.07038	40.13
65.5 - 66.5	\$61,052.82	\$650.12	0.01065	37.31
66.5 - 67.5	\$35,760.68	\$0.00	0.00000	36.91
67.5 - 68.5	\$24,296.03	\$0.00	0.00000	36.91
68.5 - 69.5	\$10,085.17	\$0.00	0.00000	36.91
69.5 - 70.5	\$10,133.64	\$0.00	0.00000	36.91
70.5 - 71.5	\$10,598.64	\$2,033.64	0.19188	36.91

Montana-Dakota Utilities Company
Electric Plant

362.00 Station Equipment

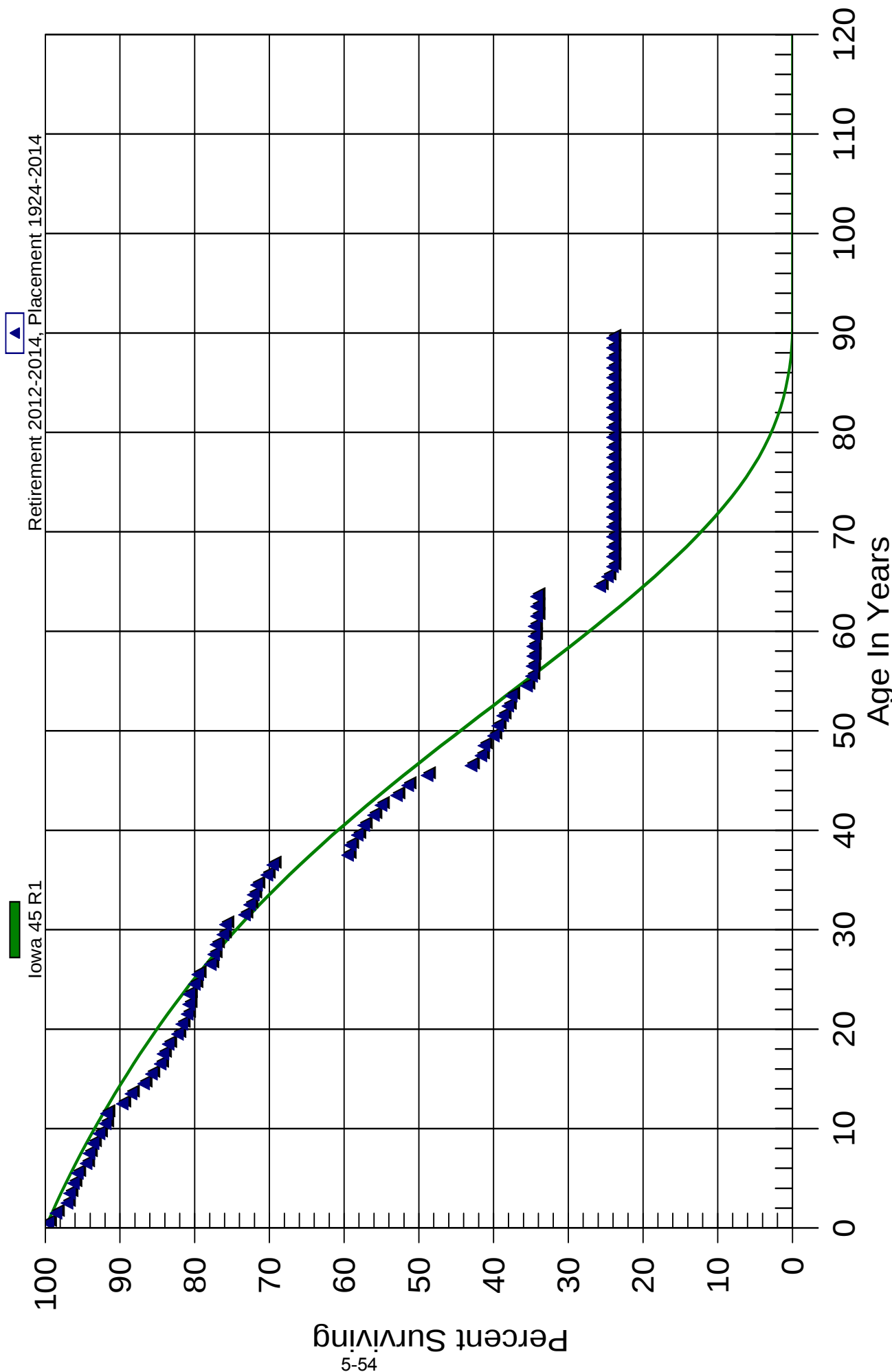
Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1924 TO 2014

<i>Age Interval</i>	<i>\$ Surviving At Beginning of Age Interval</i>	<i>\$ Retired During The Age Interval</i>	<i>Retirement Ratio</i>	<i>% Surviving At Beginning of Age Interval</i>
71.5 - 72.5	\$8,565.00	\$0.00	0.00000	29.83
72.5 - 73.5	\$8,565.00	\$0.00	0.00000	29.83
73.5 - 74.5	\$8,565.00	\$465.00	0.05429	29.83
74.5 - 75.5	\$8,100.00	\$0.00	0.00000	28.21

Montana-Dakota Utilities Company
Electric Plant
364.00 Poles, Towers & Fixtures
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company

Electric Plant

364.00 Poles, Towers & Fixtures

Observed Life Table

Retirement Expr. 2014 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$3,886,846.55	\$13,899.58	0.00358	100.00
0.5 - 1.5	\$3,645,675.94	\$39,333.75	0.01079	99.64
1.5 - 2.5	\$1,558,182.21	\$23,126.92	0.01484	98.57
2.5 - 3.5	\$932,565.89	\$3,329.75	0.00357	97.10
3.5 - 4.5	\$705,135.72	\$3,736.78	0.00530	96.76
4.5 - 5.5	\$865,009.31	\$4,607.93	0.00533	96.24
5.5 - 6.5	\$806,514.09	\$10,173.96	0.01261	95.73
6.5 - 7.5	\$687,798.57	\$2,559.19	0.00372	94.52
7.5 - 8.5	\$692,189.28	\$4,002.36	0.00578	94.17
8.5 - 9.5	\$668,760.06	\$5,769.48	0.00863	93.63
9.5 - 10.5	\$663,712.46	\$6,011.64	0.00906	92.82
10.5 - 11.5	\$482,801.14	\$853.71	0.00177	91.98
11.5 - 12.5	\$797,812.04	\$18,540.97	0.02324	91.82
12.5 - 13.5	\$537,045.61	\$6,890.53	0.01283	89.68
13.5 - 14.5	\$537,458.25	\$10,189.26	0.01896	88.53
14.5 - 15.5	\$749,282.07	\$9,033.61	0.01206	86.85
15.5 - 16.5	\$576,389.93	\$8,019.14	0.01391	85.81
16.5 - 17.5	\$762,459.49	\$3,197.78	0.00419	84.61
17.5 - 18.5	\$978,646.04	\$8,334.74	0.00852	84.26
18.5 - 19.5	\$1,304,695.01	\$19,185.75	0.01471	83.54
19.5 - 20.5	\$1,225,782.68	\$8,669.35	0.00707	82.31
20.5 - 21.5	\$944,863.58	\$8,303.71	0.00879	81.73
21.5 - 22.5	\$939,837.29	\$2,130.71	0.00227	81.01
22.5 - 23.5	\$759,568.76	\$495.21	0.00065	80.83
23.5 - 24.5	\$630,656.63	\$5,694.91	0.00903	80.78
24.5 - 25.5	\$474,247.82	\$2,534.04	0.00534	80.05
25.5 - 26.5	\$449,001.77	\$9,741.90	0.02170	79.62
26.5 - 27.5	\$461,567.61	\$2,414.88	0.00523	77.89
27.5 - 28.5	\$752,234.41	\$3,161.40	0.00420	77.48
28.5 - 29.5	\$900,892.42	\$10,944.64	0.01215	77.16
29.5 - 30.5	\$507,793.04	\$2,176.87	0.00429	76.22
30.5 - 31.5	\$679,296.91	\$22,690.29	0.03340	75.89
31.5 - 32.5	\$536,123.31	\$5,021.45	0.00937	73.36
32.5 - 33.5	\$572,458.75	\$3,918.47	0.00684	72.67
33.5 - 34.5	\$614,094.92	\$3,837.79	0.00625	72.17
34.5 - 35.5	\$490,355.60	\$9,430.86	0.01923	71.72

Montana-Dakota Utilities Company
Electric Plant

364.00 Poles, Towers & Fixtures

Observed Life Table

Retirement Expr. 2014 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$381,012.42	\$4,186.49	0.01099	70.34
36.5 - 37.5	\$450,182.59	\$64,829.99	0.14401	69.57
37.5 - 38.5	\$418,431.49	\$2,425.76	0.00580	59.55
38.5 - 39.5	\$307,529.97	\$5,036.60	0.01638	59.21
39.5 - 40.5	\$177,838.71	\$2,580.58	0.01451	58.24
40.5 - 41.5	\$274,181.66	\$6,304.00	0.02299	57.39
41.5 - 42.5	\$326,883.11	\$5,744.70	0.01757	56.07
42.5 - 43.5	\$203,554.42	\$7,741.83	0.03803	55.09
43.5 - 44.5	\$248,118.56	\$7,026.98	0.02832	52.99
44.5 - 45.5	\$347,328.58	\$17,362.43	0.04999	51.49
45.5 - 46.5	\$245,416.94	\$29,534.62	0.12034	48.92
46.5 - 47.5	\$190,166.22	\$5,848.46	0.03075	43.03
47.5 - 48.5	\$203,371.20	\$2,039.09	0.01003	41.71
48.5 - 49.5	\$179,918.90	\$5,496.57	0.03055	41.29
49.5 - 50.5	\$180,259.52	\$2,665.38	0.01479	40.03
50.5 - 51.5	\$149,413.66	\$2,428.58	0.01625	39.44
51.5 - 52.5	\$142,418.74	\$2,593.20	0.01821	38.79
52.5 - 53.5	\$120,414.89	\$1,398.72	0.01162	38.09
53.5 - 54.5	\$113,904.38	\$6,196.00	0.05440	37.65
54.5 - 55.5	\$110,689.46	\$2,088.00	0.01886	35.60
55.5 - 56.5	\$79,845.76	\$232.00	0.00291	34.93
56.5 - 57.5	\$77,552.44	\$174.00	0.00224	34.82
57.5 - 58.5	\$66,411.49	\$0.00	0.00000	34.75
58.5 - 59.5	\$56,623.24	\$290.00	0.00512	34.75
59.5 - 60.5	\$50,329.16	\$0.00	0.00000	34.57
60.5 - 61.5	\$43,544.51	\$406.00	0.00932	34.57
61.5 - 62.5	\$30,710.12	\$0.00	0.00000	34.25
62.5 - 63.5	\$23,373.05	\$0.00	0.00000	34.25
63.5 - 64.5	\$21,391.95	\$5,286.70	0.24714	34.25
64.5 - 65.5	\$16,046.53	\$638.00	0.03976	25.78
65.5 - 66.5	\$13,000.18	\$349.16	0.02686	24.76
66.5 - 67.5	\$10,373.39	\$0.00	0.00000	24.09
67.5 - 68.5	\$8,385.37	\$0.00	0.00000	24.09
68.5 - 69.5	\$0.00	\$0.00	0.00000	24.09
69.5 - 70.5	\$0.00	\$0.00	0.00000	24.09
70.5 - 71.5	\$0.00	\$0.00	0.00000	24.09

Montana-Dakota Utilities Company
Electric Plant

364.00 Poles, Towers & Fixtures

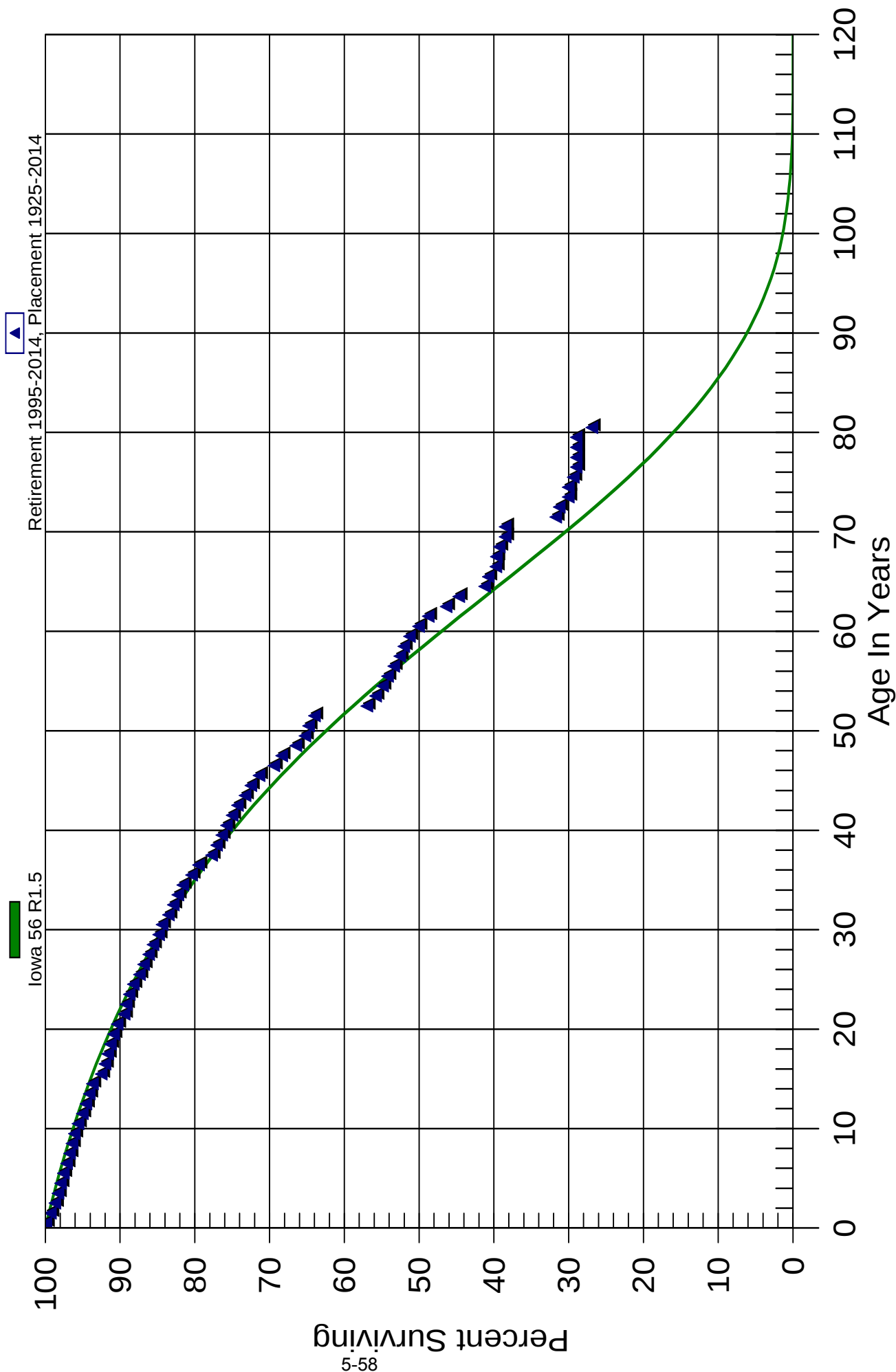
Observed Life Table

Retirement Expr. 2014 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
71.5 - 72.5	\$0.00	\$0.00	0.00000	24.09
72.5 - 73.5	\$987.05	\$0.00	0.00000	24.09
73.5 - 74.5	\$962.98	\$0.00	0.00000	24.09
74.5 - 75.5	\$939.49	\$0.00	0.00000	24.09
75.5 - 76.5	\$916.57	\$0.00	0.00000	24.09
76.5 - 77.5	\$894.22	\$0.00	0.00000	24.09
77.5 - 78.5	\$894.22	\$0.00	0.00000	24.09
78.5 - 79.5	\$638.35	\$0.00	0.00000	24.09
79.5 - 80.5	\$0.00	\$0.00	0.00000	24.09
80.5 - 81.5	\$0.00	\$0.00	0.00000	24.09
81.5 - 82.5	\$0.00	\$0.00	0.00000	24.09
82.5 - 83.5	\$0.00	\$0.00	0.00000	24.09
83.5 - 84.5	\$0.00	\$0.00	0.00000	24.09
84.5 - 85.5	\$0.00	\$0.00	0.00000	24.09
85.5 - 86.5	\$0.00	\$0.00	0.00000	24.09
86.5 - 87.5	\$0.00	\$0.00	0.00000	24.09
87.5 - 88.5	\$0.00	\$0.00	0.00000	24.09
88.5 - 89.5	\$0.00	\$0.00	0.00000	24.09

Montana-Dakota Utilities Company
Electric Plant
364.00 Poles, Towers & Fixtures
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant

364.00 Poles, Towers & Fixtures

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$22,713,968.96	\$18,697.68	0.00082	100.00
0.5 - 1.5	\$20,170,169.40	\$119,155.97	0.00591	99.92
1.5 - 2.5	\$17,561,914.23	\$106,644.45	0.00607	99.33
2.5 - 3.5	\$16,919,057.00	\$68,682.89	0.00406	98.72
3.5 - 4.5	\$16,728,368.77	\$60,705.96	0.00363	98.32
4.5 - 5.5	\$16,651,189.96	\$65,792.35	0.00395	97.97
5.5 - 6.5	\$16,223,958.58	\$69,918.19	0.00431	97.58
6.5 - 7.5	\$15,853,983.41	\$66,452.16	0.00419	97.16
7.5 - 8.5	\$15,662,852.08	\$48,624.21	0.00310	96.75
8.5 - 9.5	\$15,727,189.85	\$52,678.46	0.00335	96.45
9.5 - 10.5	\$15,997,744.62	\$84,008.62	0.00525	96.13
10.5 - 11.5	\$15,803,971.36	\$94,840.62	0.00600	95.62
11.5 - 12.5	\$15,968,263.67	\$82,692.81	0.00518	95.05
12.5 - 13.5	\$15,691,335.26	\$70,779.53	0.00451	94.56
13.5 - 14.5	\$15,727,493.86	\$71,781.90	0.00456	94.13
14.5 - 15.5	\$15,819,996.99	\$198,186.85	0.01253	93.70
15.5 - 16.5	\$15,430,195.20	\$82,882.10	0.00537	92.53
16.5 - 17.5	\$15,149,456.83	\$62,420.06	0.00412	92.03
17.5 - 18.5	\$14,526,737.67	\$54,159.86	0.00373	91.65
18.5 - 19.5	\$13,967,620.45	\$67,129.23	0.00481	91.31
19.5 - 20.5	\$12,968,890.75	\$69,473.41	0.00536	90.87
20.5 - 21.5	\$11,880,493.96	\$119,251.27	0.01004	90.38
21.5 - 22.5	\$11,119,591.19	\$33,642.52	0.00303	89.48
22.5 - 23.5	\$10,516,249.28	\$50,327.35	0.00479	89.21
23.5 - 24.5	\$9,932,556.33	\$62,001.97	0.00624	88.78
24.5 - 25.5	\$9,549,879.14	\$87,718.60	0.00919	88.22
25.5 - 26.5	\$9,338,935.59	\$60,675.10	0.00650	87.41
26.5 - 27.5	\$9,129,488.29	\$71,058.25	0.00778	86.85
27.5 - 28.5	\$8,848,416.80	\$58,291.07	0.00659	86.17
28.5 - 29.5	\$8,288,281.35	\$73,038.11	0.00881	85.60
29.5 - 30.5	\$7,594,051.51	\$41,165.13	0.00542	84.85
30.5 - 31.5	\$7,298,645.89	\$73,689.66	0.01010	84.39
31.5 - 32.5	\$6,749,165.50	\$51,898.30	0.00769	83.54
32.5 - 33.5	\$6,335,665.44	\$46,090.52	0.00727	82.89
33.5 - 34.5	\$5,898,528.91	\$47,739.61	0.00809	82.29
34.5 - 35.5	\$5,438,410.03	\$78,959.78	0.01452	81.63

Montana-Dakota Utilities Company
Electric Plant

364.00 Poles, Towers & Fixtures

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$5,069,525.83	\$58,233.04	0.01149	80.44
36.5 - 37.5	\$4,724,181.76	\$103,582.55	0.02193	79.52
37.5 - 38.5	\$4,326,460.64	\$36,878.10	0.00852	77.77
38.5 - 39.5	\$3,950,340.88	\$35,389.23	0.00896	77.11
39.5 - 40.5	\$3,691,523.62	\$31,028.89	0.00841	76.42
40.5 - 41.5	\$3,549,869.76	\$35,463.12	0.00999	75.78
41.5 - 42.5	\$3,301,016.09	\$31,169.56	0.00944	75.02
42.5 - 43.5	\$2,991,272.42	\$40,551.12	0.01356	74.31
43.5 - 44.5	\$2,791,355.49	\$29,996.10	0.01075	73.30
44.5 - 45.5	\$2,615,352.64	\$39,651.65	0.01516	72.52
45.5 - 46.5	\$2,270,638.99	\$62,862.74	0.02769	71.42
46.5 - 47.5	\$2,014,092.68	\$30,186.17	0.01499	69.44
47.5 - 48.5	\$1,821,316.71	\$50,588.81	0.02778	68.40
48.5 - 49.5	\$1,693,371.12	\$31,121.05	0.01838	66.50
49.5 - 50.5	\$1,496,370.32	\$11,530.93	0.00771	65.28
50.5 - 51.5	\$1,310,592.45	\$15,192.01	0.01159	64.77
51.5 - 52.5	\$1,150,626.08	\$126,093.96	0.10959	64.02
52.5 - 53.5	\$891,366.58	\$18,716.47	0.02100	57.01
53.5 - 54.5	\$757,056.99	\$12,184.00	0.01609	55.81
54.5 - 55.5	\$653,773.59	\$8,086.00	0.01237	54.91
55.5 - 56.5	\$538,199.62	\$8,116.00	0.01508	54.23
56.5 - 57.5	\$451,386.43	\$6,913.48	0.01532	53.41
57.5 - 58.5	\$368,278.73	\$3,909.29	0.01062	52.60
58.5 - 59.5	\$299,026.17	\$4,258.00	0.01424	52.04
59.5 - 60.5	\$239,595.28	\$5,682.00	0.02371	51.30
60.5 - 61.5	\$183,642.12	\$4,746.00	0.02584	50.08
61.5 - 62.5	\$135,757.61	\$6,612.00	0.04870	48.79
62.5 - 63.5	\$103,780.19	\$3,862.00	0.03721	46.41
63.5 - 64.5	\$77,183.14	\$5,938.70	0.07694	44.68
64.5 - 65.5	\$56,590.35	\$696.00	0.01230	41.25
65.5 - 66.5	\$40,659.82	\$987.16	0.02428	40.74
66.5 - 67.5	\$27,775.64	\$58.00	0.00209	39.75
67.5 - 68.5	\$17,344.25	\$174.00	0.01003	39.67
68.5 - 69.5	\$8,842.88	\$174.00	0.01968	39.27
69.5 - 70.5	\$9,248.88	\$0.00	0.00000	38.50
70.5 - 71.5	\$9,248.88	\$1,624.00	0.17559	38.50

Montana-Dakota Utilities Company
Electric Plant

364.00 Poles, Towers & Fixtures

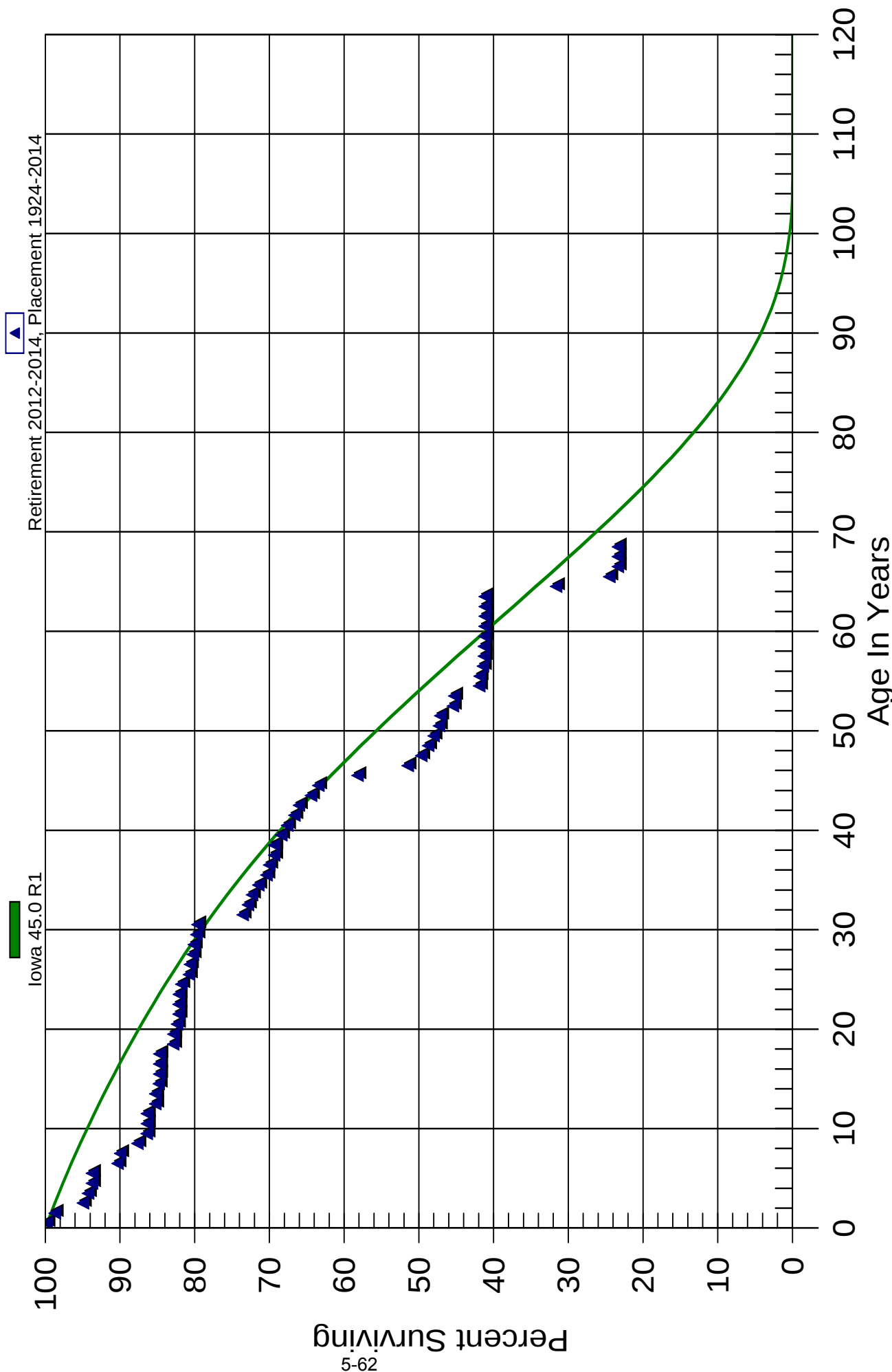
Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
71.5 - 72.5	\$7,624.88	\$116.00	0.01521	31.74
72.5 - 73.5	\$7,508.88	\$290.00	0.03862	31.25
73.5 - 74.5	\$6,231.83	\$0.00	0.00000	30.05
74.5 - 75.5	\$5,268.85	\$116.00	0.02202	30.05
75.5 - 76.5	\$4,213.36	\$58.00	0.01377	29.38
76.5 - 77.5	\$3,238.79	\$0.00	0.00000	28.98
77.5 - 78.5	\$2,344.57	\$0.00	0.00000	28.98
78.5 - 79.5	\$1,450.35	\$0.00	0.00000	28.98
79.5 - 80.5	\$812.00	\$58.00	0.07143	28.98

Montana-Dakota Utilities Company
Electric Plant
365.00 Overhead Conductor & Devices
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant

365.00 Overhead Conductor & Devices

Observed Life Table

Retirement Expr. 2014 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$3,894,246.00	\$5,766.00	0.00148	100.00
0.5 - 1.5	\$4,052,160.89	\$44,702.33	0.01103	99.85
1.5 - 2.5	\$1,529,950.82	\$58,786.67	0.03842	98.75
2.5 - 3.5	\$483,299.03	\$3,480.02	0.00720	94.96
3.5 - 4.5	\$396,970.75	\$2,184.50	0.00550	94.27
4.5 - 5.5	\$339,962.91	(\$23.55)	-0.00007	93.75
5.5 - 6.5	\$490,020.68	\$17,932.56	0.03660	93.76
6.5 - 7.5	\$469,363.76	\$1,809.88	0.00386	90.33
7.5 - 8.5	\$439,992.87	\$11,325.74	0.02574	89.98
8.5 - 9.5	\$434,469.91	\$6,039.27	0.01390	87.66
9.5 - 10.5	\$389,781.35	\$200.91	0.00052	86.45
10.5 - 11.5	\$258,511.10	\$0.00	0.00000	86.40
11.5 - 12.5	\$282,581.23	\$3,699.76	0.01309	86.40
12.5 - 13.5	\$398,516.61	\$0.00	0.00000	85.27
13.5 - 14.5	\$235,927.26	\$1,265.67	0.00536	85.27
14.5 - 15.5	\$518,504.61	\$306.52	0.00059	84.81
15.5 - 16.5	\$355,338.88	\$0.00	0.00000	84.76
16.5 - 17.5	\$473,275.85	\$203.32	0.00043	84.76
17.5 - 18.5	\$399,412.71	\$8,642.87	0.02164	84.73
18.5 - 19.5	\$2,261,562.06	\$671.35	0.00030	82.89
19.5 - 20.5	\$579,831.45	\$3,545.80	0.00612	82.87
20.5 - 21.5	\$498,197.97	\$1,076.80	0.00216	82.36
21.5 - 22.5	\$573,302.63	\$143.95	0.00025	82.18
22.5 - 23.5	\$599,967.21	\$153.52	0.00026	82.16
23.5 - 24.5	\$316,081.06	\$1,363.76	0.00431	82.14
24.5 - 25.5	\$336,522.98	\$4,090.09	0.01215	81.79
25.5 - 26.5	\$285,766.17	\$575.05	0.00201	80.79
26.5 - 27.5	\$303,302.16	\$1,338.74	0.00441	80.63
27.5 - 28.5	\$575,172.94	\$1,099.91	0.00191	80.27
28.5 - 29.5	\$823,231.55	\$3,540.18	0.00430	80.12
29.5 - 30.5	\$308,118.34	\$517.01	0.00168	79.78
30.5 - 31.5	\$563,740.84	\$42,961.69	0.07621	79.64
31.5 - 32.5	\$439,432.40	\$4,143.02	0.00943	73.57
32.5 - 33.5	\$333,728.56	\$2,410.96	0.00722	72.88
33.5 - 34.5	\$431,989.08	\$4,988.03	0.01155	72.35
34.5 - 35.5	\$309,736.16	\$4,763.90	0.01538	71.52

Montana-Dakota Utilities Company
Electric Plant

365.00 Overhead Conductor & Devices

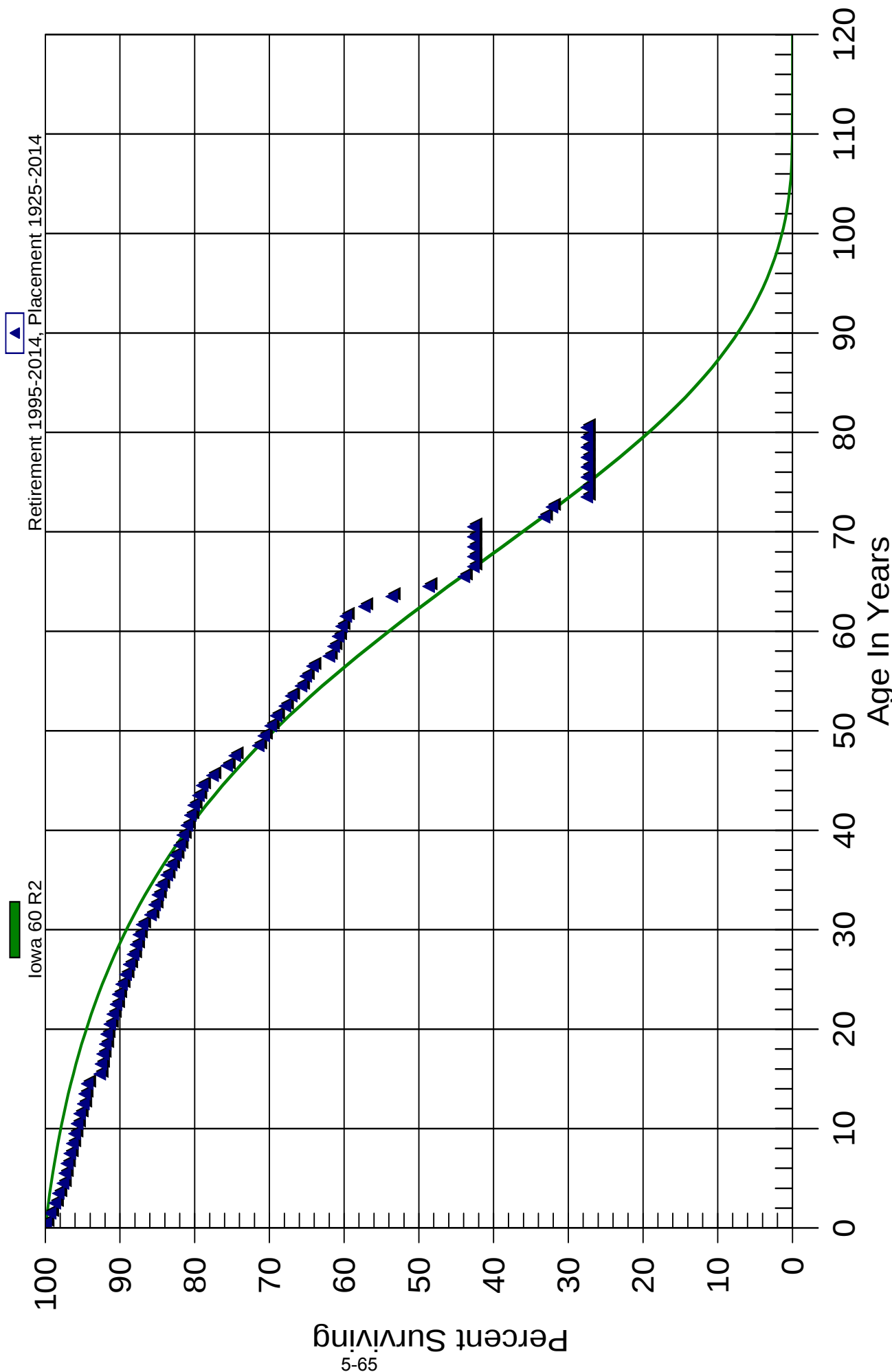
Observed Life Table

Retirement Expr. 2014 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$287,300.93	\$1,566.17	0.00545	70.42
36.5 - 37.5	\$287,070.45	\$2,660.34	0.00927	70.03
37.5 - 38.5	\$327,359.44	\$213.88	0.00065	69.38
38.5 - 39.5	\$247,182.65	\$3,237.38	0.01310	69.34
39.5 - 40.5	\$95,175.79	\$1,112.76	0.01169	68.43
40.5 - 41.5	\$206,124.36	\$2,960.10	0.01436	67.63
41.5 - 42.5	\$234,221.67	\$2,132.73	0.00911	66.66
42.5 - 43.5	\$160,183.68	\$3,883.52	0.02424	66.05
43.5 - 44.5	\$234,619.60	\$3,568.07	0.01521	64.45
44.5 - 45.5	\$263,126.24	\$21,817.54	0.08292	63.47
45.5 - 46.5	\$194,727.82	\$22,422.45	0.11515	58.21
46.5 - 47.5	\$147,904.74	\$5,276.37	0.03567	51.51
47.5 - 48.5	\$160,355.35	\$2,903.77	0.01811	49.67
48.5 - 49.5	\$154,282.67	\$2,263.85	0.01467	48.77
49.5 - 50.5	\$144,900.87	\$2,250.92	0.01553	48.05
50.5 - 51.5	\$114,802.79	\$416.23	0.00363	47.31
51.5 - 52.5	\$119,684.96	\$4,298.51	0.03592	47.14
52.5 - 53.5	\$93,119.42	\$343.21	0.00369	45.44
53.5 - 54.5	\$83,806.27	\$6,196.52	0.07394	45.28
54.5 - 55.5	\$67,133.54	\$83.49	0.00124	41.93
55.5 - 56.5	\$49,719.86	\$526.88	0.01060	41.88
56.5 - 57.5	\$46,137.03	\$167.66	0.00363	41.43
57.5 - 58.5	\$35,155.45	\$0.00	0.00000	41.28
58.5 - 59.5	\$31,586.01	\$61.05	0.00193	41.28
59.5 - 60.5	\$27,828.09	\$0.00	0.00000	41.20
60.5 - 61.5	\$21,301.57	\$12.03	0.00056	41.20
61.5 - 62.5	\$14,542.45	\$0.00	0.00000	41.18
62.5 - 63.5	\$9,448.19	\$0.00	0.00000	41.18
63.5 - 64.5	\$8,184.41	\$1,897.01	0.23178	41.18
64.5 - 65.5	\$6,212.91	\$1,396.89	0.22484	31.63
65.5 - 66.5	\$3,800.58	\$179.93	0.04734	24.52
66.5 - 67.5	\$2,488.99	\$0.00	0.00000	23.36
67.5 - 68.5	\$1,602.41	\$0.00	0.00000	23.36

Montana-Dakota Utilities Company
Electric Plant
365.00 Overhead Conductor & Devices
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant

365.00 Overhead Conductor & Devices

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$18,613,700.63	\$8,012.59	0.00043	100.00
0.5 - 1.5	\$15,351,878.84	\$93,774.31	0.00611	99.96
1.5 - 2.5	\$11,941,762.16	\$75,478.07	0.00632	99.35
2.5 - 3.5	\$10,983,018.63	\$52,431.00	0.00477	98.72
3.5 - 4.5	\$11,095,991.05	\$68,221.84	0.00615	98.25
4.5 - 5.5	\$10,966,058.36	\$27,357.45	0.00249	97.64
5.5 - 6.5	\$10,946,988.09	\$33,816.92	0.00309	97.40
6.5 - 7.5	\$10,741,356.49	\$40,697.50	0.00379	97.10
7.5 - 8.5	\$10,592,308.21	\$37,354.56	0.00353	96.73
8.5 - 9.5	\$10,748,171.73	\$32,407.79	0.00302	96.39
9.5 - 10.5	\$11,153,484.07	\$41,292.84	0.00370	96.10
10.5 - 11.5	\$11,023,976.52	\$38,141.24	0.00346	95.74
11.5 - 12.5	\$11,305,232.21	\$60,340.74	0.00534	95.41
12.5 - 13.5	\$11,440,796.82	\$20,388.65	0.00178	94.90
13.5 - 14.5	\$11,395,420.03	\$39,376.83	0.00346	94.73
14.5 - 15.5	\$11,594,477.21	\$207,063.75	0.01786	94.41
15.5 - 16.5	\$11,205,864.45	\$20,417.34	0.00182	92.72
16.5 - 17.5	\$11,139,521.85	\$29,000.65	0.00260	92.55
17.5 - 18.5	\$10,770,751.85	\$41,133.99	0.00382	92.31
18.5 - 19.5	\$10,692,234.00	\$17,761.78	0.00166	91.96
19.5 - 20.5	\$8,687,074.54	\$40,725.11	0.00469	91.81
20.5 - 21.5	\$8,166,734.36	\$37,978.79	0.00465	91.37
21.5 - 22.5	\$7,857,897.61	\$37,382.71	0.00476	90.95
22.5 - 23.5	\$7,497,683.38	\$22,605.39	0.00301	90.52
23.5 - 24.5	\$7,042,074.21	\$35,559.03	0.00505	90.24
24.5 - 25.5	\$6,940,112.91	\$40,804.06	0.00588	89.79
25.5 - 26.5	\$6,820,223.73	\$38,021.53	0.00557	89.26
26.5 - 27.5	\$6,705,014.68	\$37,813.67	0.00564	88.76
27.5 - 28.5	\$6,534,824.34	\$30,141.27	0.00461	88.26
28.5 - 29.5	\$6,110,675.87	\$26,133.25	0.00428	87.86
29.5 - 30.5	\$5,497,913.20	\$26,731.64	0.00486	87.48
30.5 - 31.5	\$5,374,038.94	\$70,257.64	0.01307	87.05
31.5 - 32.5	\$4,919,726.61	\$30,983.76	0.00630	85.92
32.5 - 33.5	\$4,589,079.29	\$22,958.43	0.00500	85.38
33.5 - 34.5	\$4,354,929.23	\$23,713.72	0.00545	84.95
34.5 - 35.5	\$4,026,776.27	\$34,658.35	0.00861	84.49

Montana-Dakota Utilities Company
Electric Plant

365.00 Overhead Conductor & Devices

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$3,763,741.55	\$27,301.50	0.00725	83.76
36.5 - 37.5	\$3,503,079.74	\$24,003.71	0.00685	83.15
37.5 - 38.5	\$3,248,461.71	\$21,756.81	0.00670	82.58
38.5 - 39.5	\$2,942,313.79	\$15,367.90	0.00522	82.03
39.5 - 40.5	\$2,729,310.65	\$18,318.68	0.00671	81.60
40.5 - 41.5	\$2,649,752.67	\$15,659.24	0.00591	81.05
41.5 - 42.5	\$2,458,443.84	\$12,768.56	0.00519	80.57
42.5 - 43.5	\$2,233,414.76	\$18,060.00	0.00809	80.15
43.5 - 44.5	\$2,088,559.19	\$12,989.34	0.00622	79.51
44.5 - 45.5	\$1,890,108.51	\$33,451.42	0.01770	79.01
45.5 - 46.5	\$1,627,556.29	\$39,972.97	0.02456	77.61
46.5 - 47.5	\$1,428,966.46	\$19,848.37	0.01389	75.71
47.5 - 48.5	\$1,276,718.33	\$53,809.36	0.04215	74.66
48.5 - 49.5	\$1,071,053.64	\$11,357.05	0.01060	71.51
49.5 - 50.5	\$910,606.46	\$11,906.01	0.01307	70.75
50.5 - 51.5	\$760,714.31	\$7,690.59	0.01011	69.83
51.5 - 52.5	\$639,333.17	\$11,098.88	0.01736	69.12
52.5 - 53.5	\$519,141.97	\$6,356.40	0.01224	67.92
53.5 - 54.5	\$420,093.76	\$8,339.75	0.01985	67.09
54.5 - 55.5	\$343,687.60	\$3,201.14	0.00931	65.76
55.5 - 56.5	\$273,604.94	\$3,846.79	0.01406	65.14
56.5 - 57.5	\$220,566.02	\$7,524.49	0.03411	64.23
57.5 - 58.5	\$167,356.04	\$1,649.41	0.00986	62.04
58.5 - 59.5	\$130,552.01	\$1,322.33	0.01013	61.43
59.5 - 60.5	\$97,717.34	\$716.91	0.00734	60.80
60.5 - 61.5	\$69,172.34	\$673.98	0.00974	60.36
61.5 - 62.5	\$47,208.82	\$1,945.95	0.04122	59.77
62.5 - 63.5	\$32,617.43	\$2,094.09	0.06420	57.31
63.5 - 64.5	\$22,472.04	\$2,059.63	0.09165	53.63
64.5 - 65.5	\$14,324.03	\$1,396.89	0.09752	48.71
65.5 - 66.5	\$8,111.12	\$233.47	0.02878	43.96
66.5 - 67.5	\$5,021.27	\$0.00	0.00000	42.70
67.5 - 68.5	\$2,532.28	\$0.00	0.00000	42.70
68.5 - 69.5	\$929.87	\$0.00	0.00000	42.70
69.5 - 70.5	\$1,194.47	\$0.00	0.00000	42.70
70.5 - 71.5	\$1,194.47	\$264.60	0.22152	42.70

Montana-Dakota Utilities Company
Electric Plant

365.00 Overhead Conductor & Devices

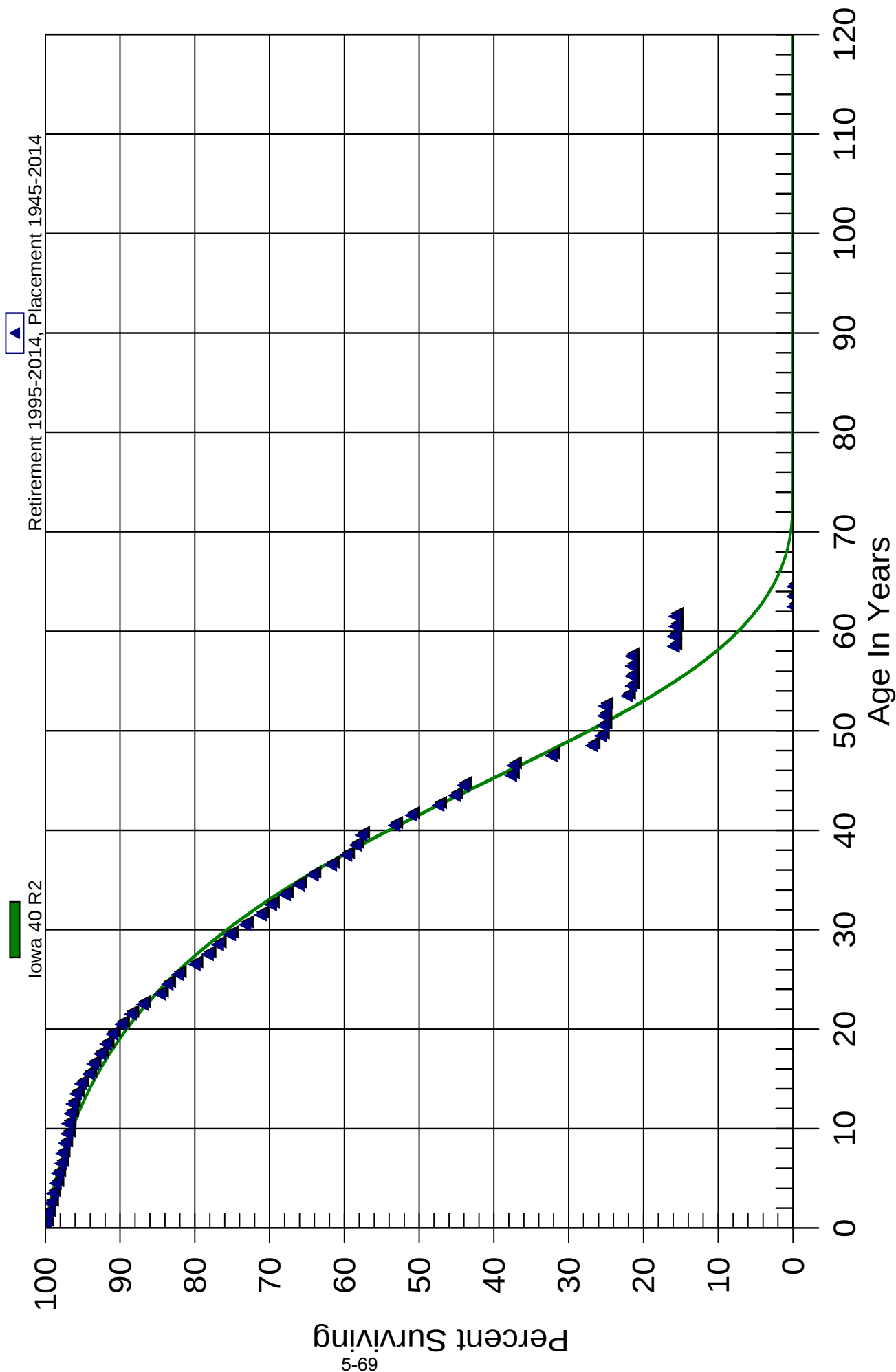
Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1925 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
71.5 - 72.5	\$929.87	\$29.74	0.03198	33.24
72.5 - 73.5	\$900.13	\$130.09	0.14452	32.17
73.5 - 74.5	\$769.13	\$0.00	0.00000	27.52
74.5 - 75.5	\$768.24	\$0.00	0.00000	27.52
75.5 - 76.5	\$767.37	\$0.00	0.00000	27.52
76.5 - 77.5	\$766.52	\$0.00	0.00000	27.52
77.5 - 78.5	\$765.69	\$0.00	0.00000	27.52
78.5 - 79.5	\$764.86	\$0.00	0.00000	27.52
79.5 - 80.5	\$764.27	\$0.00	0.00000	27.52

Montana-Dakota Utilities Company
Electric Plant
367.00 Underground Conductor & Devices
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant

367.00 Underground Conductor & Devices

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1945 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$78,714,733.56	\$7,613.19	0.00010	100.00
0.5 - 1.5	\$67,459,953.82	\$148,347.86	0.00220	99.99
1.5 - 2.5	\$56,307,625.97	\$226,522.03	0.00402	99.77
2.5 - 3.5	\$48,968,502.58	\$156,131.47	0.00319	99.37
3.5 - 4.5	\$44,949,594.38	\$179,431.55	0.00399	99.05
4.5 - 5.5	\$40,992,116.60	\$112,176.46	0.00274	98.66
5.5 - 6.5	\$37,073,436.60	\$161,217.09	0.00435	98.39
6.5 - 7.5	\$32,723,055.14	\$47,727.03	0.00146	97.96
7.5 - 8.5	\$29,325,992.88	\$97,583.70	0.00333	97.82
8.5 - 9.5	\$26,790,697.48	\$98,490.83	0.00368	97.49
9.5 - 10.5	\$25,800,264.09	\$28,680.95	0.00111	97.13
10.5 - 11.5	\$24,711,001.93	\$81,851.71	0.00331	97.02
11.5 - 12.5	\$23,447,667.82	\$63,603.20	0.00271	96.70
12.5 - 13.5	\$22,273,972.86	\$114,037.22	0.00512	96.44
13.5 - 14.5	\$21,688,230.50	\$141,902.66	0.00654	95.95
14.5 - 15.5	\$21,226,368.65	\$236,984.84	0.01116	95.32
15.5 - 16.5	\$20,593,473.64	\$124,578.48	0.00605	94.25
16.5 - 17.5	\$20,144,475.46	\$206,499.36	0.01025	93.68
17.5 - 18.5	\$18,948,692.48	\$160,897.61	0.00849	92.72
18.5 - 19.5	\$18,599,558.24	\$169,688.82	0.00912	91.94
19.5 - 20.5	\$16,987,683.49	\$225,669.46	0.01328	91.10
20.5 - 21.5	\$15,701,425.02	\$219,106.98	0.01395	89.89
21.5 - 22.5	\$14,491,205.86	\$258,149.09	0.01781	88.63
22.5 - 23.5	\$12,950,052.67	\$352,445.62	0.02722	87.05
23.5 - 24.5	\$12,111,518.63	\$139,472.27	0.01152	84.69
24.5 - 25.5	\$11,420,780.17	\$193,530.17	0.01695	83.71
25.5 - 26.5	\$11,005,417.83	\$297,348.69	0.02702	82.29
26.5 - 27.5	\$10,395,966.65	\$227,266.68	0.02186	80.07
27.5 - 28.5	\$9,783,039.03	\$168,776.91	0.01725	78.32
28.5 - 29.5	\$8,894,688.33	\$189,136.54	0.02126	76.97
29.5 - 30.5	\$7,998,605.49	\$216,489.83	0.02707	75.33
30.5 - 31.5	\$7,045,177.11	\$197,967.96	0.02810	73.29
31.5 - 32.5	\$6,096,912.69	\$118,851.50	0.01949	71.23
32.5 - 33.5	\$5,206,150.98	\$138,418.33	0.02659	69.84
33.5 - 34.5	\$4,068,966.38	\$110,917.30	0.02726	67.99
34.5 - 35.5	\$3,299,913.17	\$93,625.68	0.02837	66.13

Montana-Dakota Utilities Company
Electric Plant

367.00 Underground Conductor & Devices

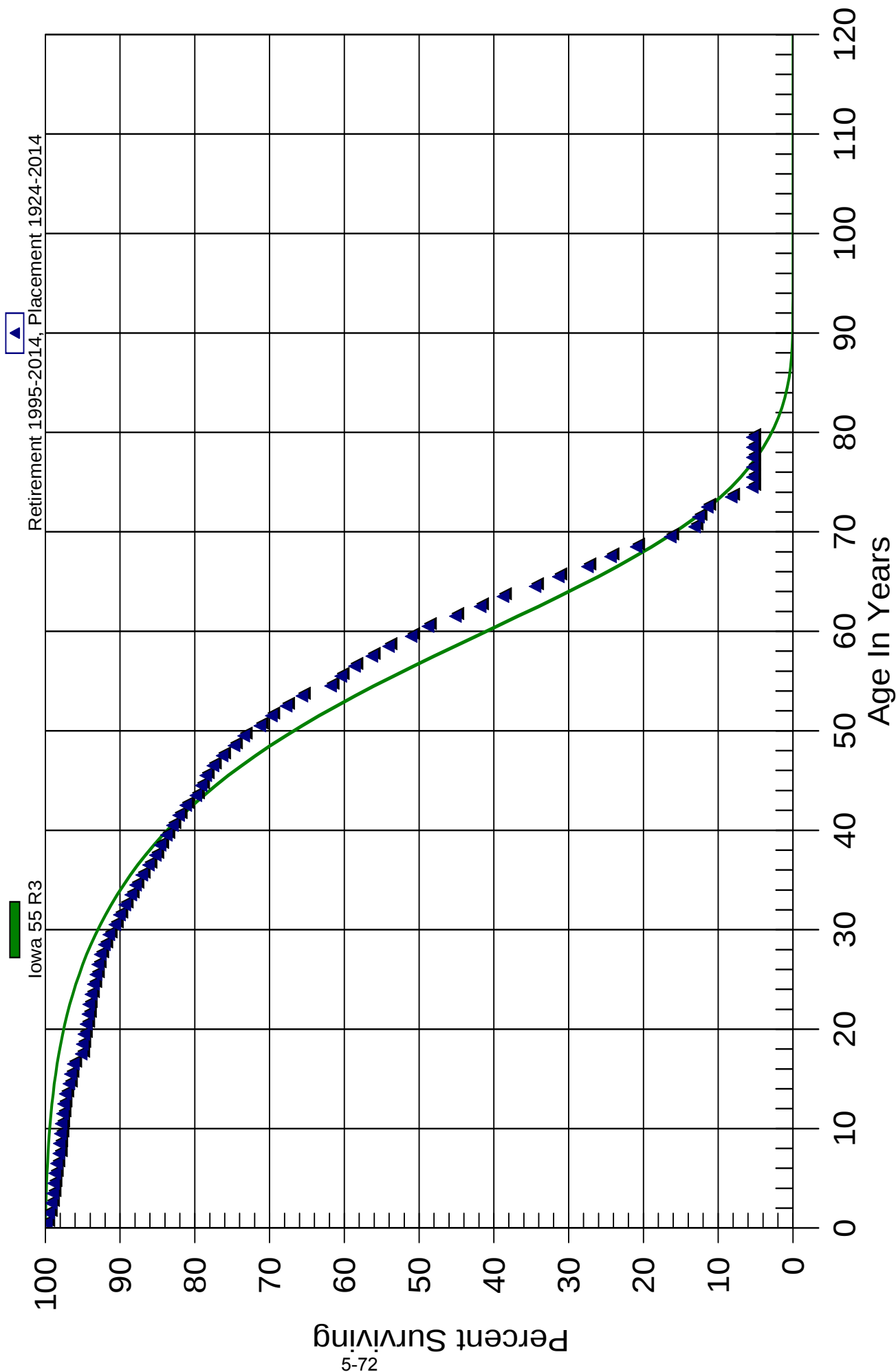
Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1945 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$2,319,470.40	\$88,467.51	0.03814	64.26
36.5 - 37.5	\$1,698,260.94	\$55,579.62	0.03273	61.81
37.5 - 38.5	\$1,190,346.03	\$25,461.89	0.02139	59.78
38.5 - 39.5	\$789,356.51	\$10,033.10	0.01271	58.50
39.5 - 40.5	\$540,277.42	\$41,313.17	0.07647	57.76
40.5 - 41.5	\$278,537.42	\$11,842.98	0.04252	53.34
41.5 - 42.5	\$163,308.26	\$11,580.97	0.07091	51.08
42.5 - 43.5	\$112,462.86	\$5,139.84	0.04570	47.45
43.5 - 44.5	\$85,527.28	\$2,178.80	0.02547	45.29
44.5 - 45.5	\$59,441.87	\$8,601.07	0.14470	44.13
45.5 - 46.5	\$51,979.83	\$400.08	0.00770	37.75
46.5 - 47.5	\$40,557.16	\$5,552.25	0.13690	37.46
47.5 - 48.5	\$28,705.51	\$4,797.75	0.16714	32.33
48.5 - 49.5	\$21,296.66	\$963.54	0.04524	26.92
49.5 - 50.5	\$23,307.91	\$326.03	0.01399	25.71
50.5 - 51.5	\$22,448.67	\$0.00	0.00000	25.35
51.5 - 52.5	\$22,442.30	\$134.05	0.00597	25.35
52.5 - 53.5	\$50,095.71	\$5,957.98	0.11893	25.20
53.5 - 54.5	\$44,053.43	\$1,098.18	0.02493	22.20
54.5 - 55.5	\$15,249.65	\$0.00	0.00000	21.65
55.5 - 56.5	\$15,249.65	\$0.00	0.00000	21.65
56.5 - 57.5	\$15,249.65	\$0.00	0.00000	21.65
57.5 - 58.5	\$15,249.65	\$3,992.30	0.26180	21.65
58.5 - 59.5	\$11,254.06	\$0.00	0.00000	15.98
59.5 - 60.5	\$11,253.59	\$112.45	0.00999	15.98
60.5 - 61.5	\$11,141.00	\$0.00	0.00000	15.82
61.5 - 62.5	\$11,141.00	\$11,129.25	0.99895	15.82
62.5 - 63.5	\$8.91	\$0.00	0.00000	0.02
63.5 - 64.5	\$7.25	\$0.00	0.00000	0.02

Montana-Dakota Utilities Company
Electric Plant
368.00 Line Transformers
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company

Electric Plant

368.00 Line Transformers

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1924 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$45,093,623.95	\$64,890.45	0.00144	100.00
0.5 - 1.5	\$40,665,337.96	\$118,618.05	0.00292	99.86
1.5 - 2.5	\$35,810,637.10	\$118,082.08	0.00330	99.56
2.5 - 3.5	\$30,549,827.81	\$59,277.51	0.00194	99.24
3.5 - 4.5	\$28,091,081.32	\$36,672.66	0.00131	99.04
4.5 - 5.5	\$26,825,650.12	\$44,845.44	0.00167	98.91
5.5 - 6.5	\$25,490,950.32	\$61,952.83	0.00243	98.75
6.5 - 7.5	\$21,871,204.78	\$66,070.32	0.00302	98.51
7.5 - 8.5	\$18,293,283.33	\$15,541.87	0.00085	98.21
8.5 - 9.5	\$17,077,627.62	\$21,345.13	0.00125	98.13
9.5 - 10.5	\$16,997,608.91	\$23,911.76	0.00141	98.01
10.5 - 11.5	\$17,050,412.00	\$28,788.35	0.00169	97.87
11.5 - 12.5	\$16,959,637.48	\$25,067.57	0.00148	97.70
12.5 - 13.5	\$17,071,719.04	\$41,270.21	0.00242	97.56
13.5 - 14.5	\$17,628,451.97	\$86,137.97	0.00489	97.32
14.5 - 15.5	\$17,839,040.23	\$38,113.65	0.00214	96.85
15.5 - 16.5	\$18,105,816.64	\$67,798.10	0.00374	96.64
16.5 - 17.5	\$18,303,974.49	\$207,314.36	0.01133	96.28
17.5 - 18.5	\$17,798,658.00	\$21,973.88	0.00123	95.19
18.5 - 19.5	\$17,500,170.39	\$37,720.71	0.00216	95.07
19.5 - 20.5	\$17,095,074.62	\$58,539.73	0.00342	94.87
20.5 - 21.5	\$17,299,646.98	\$42,859.02	0.00248	94.54
21.5 - 22.5	\$17,042,019.98	\$22,253.38	0.00131	94.31
22.5 - 23.5	\$16,697,207.35	\$48,673.38	0.00292	94.18
23.5 - 24.5	\$16,488,913.54	\$56,036.91	0.00340	93.91
24.5 - 25.5	\$16,163,256.30	\$61,784.51	0.00382	93.59
25.5 - 26.5	\$15,473,125.94	\$41,764.54	0.00270	93.23
26.5 - 27.5	\$15,320,183.49	\$52,971.96	0.00346	92.98
27.5 - 28.5	\$15,429,899.59	\$88,534.08	0.00574	92.66
28.5 - 29.5	\$14,941,829.64	\$101,929.42	0.00682	92.13
29.5 - 30.5	\$14,281,780.04	\$123,488.96	0.00865	91.50
30.5 - 31.5	\$13,114,023.79	\$86,509.95	0.00660	90.71
31.5 - 32.5	\$12,284,129.47	\$100,820.87	0.00821	90.11
32.5 - 33.5	\$11,188,760.89	\$98,437.50	0.00880	89.37
33.5 - 34.5	\$9,891,169.91	\$72,746.78	0.00735	88.58
34.5 - 35.5	\$8,959,786.21	\$85,486.49	0.00954	87.93

Montana-Dakota Utilities Company

Electric Plant

368.00 Line Transformers

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1924 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$7,817,420.87	\$79,022.71	0.01011	87.09
36.5 - 37.5	\$6,598,440.52	\$71,498.25	0.01084	86.21
37.5 - 38.5	\$5,634,700.44	\$41,293.26	0.00733	85.28
38.5 - 39.5	\$5,104,650.76	\$51,456.65	0.01008	84.65
39.5 - 40.5	\$4,720,540.92	\$45,122.11	0.00956	83.80
40.5 - 41.5	\$3,957,296.29	\$39,220.68	0.00991	83.00
41.5 - 42.5	\$3,560,239.72	\$40,916.31	0.01149	82.18
42.5 - 43.5	\$3,313,630.24	\$55,949.46	0.01688	81.23
43.5 - 44.5	\$3,063,660.51	\$25,952.62	0.00847	79.86
44.5 - 45.5	\$2,864,790.20	\$23,828.20	0.00832	79.18
45.5 - 46.5	\$2,795,252.92	\$33,022.98	0.01181	78.52
46.5 - 47.5	\$2,469,422.81	\$39,972.05	0.01619	77.60
47.5 - 48.5	\$2,113,798.55	\$43,544.62	0.02060	76.34
48.5 - 49.5	\$1,911,947.47	\$33,292.15	0.01741	74.77
49.5 - 50.5	\$1,650,737.72	\$48,642.00	0.02947	73.47
50.5 - 51.5	\$1,430,946.02	\$30,874.40	0.02158	71.30
51.5 - 52.5	\$1,235,386.92	\$35,010.72	0.02834	69.76
52.5 - 53.5	\$1,088,766.80	\$33,859.60	0.03110	67.79
53.5 - 54.5	\$898,876.40	\$52,516.74	0.05842	65.68
54.5 - 55.5	\$707,386.93	\$15,308.00	0.02164	61.84
55.5 - 56.5	\$564,424.02	\$17,341.50	0.03072	60.50
56.5 - 57.5	\$469,142.15	\$18,331.02	0.03907	58.64
57.5 - 58.5	\$383,399.73	\$15,330.50	0.03999	56.35
58.5 - 59.5	\$297,895.33	\$16,753.33	0.05624	54.10
59.5 - 60.5	\$238,200.18	\$10,448.63	0.04386	51.06
60.5 - 61.5	\$188,752.81	\$14,156.35	0.07500	48.82
61.5 - 62.5	\$138,070.21	\$10,088.25	0.07307	45.16
62.5 - 63.5	\$96,438.49	\$7,072.83	0.07334	41.86
63.5 - 64.5	\$66,223.08	\$7,320.10	0.11054	38.79
64.5 - 65.5	\$50,310.00	\$4,566.86	0.09077	34.50
65.5 - 66.5	\$36,134.20	\$4,461.00	0.12346	31.37
66.5 - 67.5	\$22,846.26	\$2,558.51	0.11199	27.50
67.5 - 68.5	\$13,585.64	\$1,916.75	0.14109	24.42
68.5 - 69.5	\$6,122.32	\$1,330.25	0.21728	20.97
69.5 - 70.5	\$4,743.60	\$943.51	0.19890	16.41
70.5 - 71.5	\$3,997.09	\$151.00	0.03778	13.15

Montana-Dakota Utilities Company
Electric Plant

368.00 Line Transformers

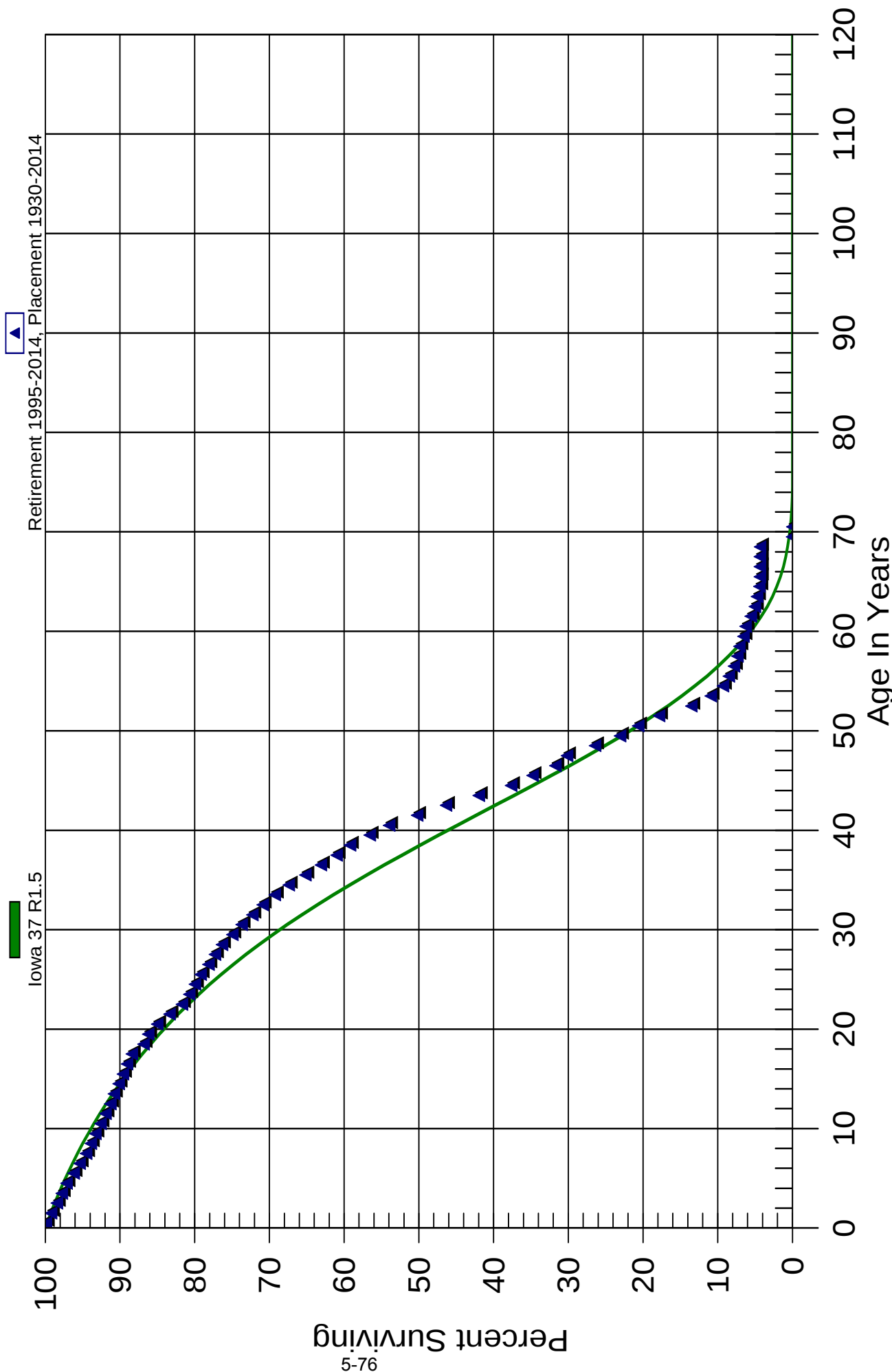
Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1924 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
71.5 - 72.5	\$3,846.09	\$365.35	0.09499	12.65
72.5 - 73.5	\$3,480.74	\$970.00	0.27868	11.45
73.5 - 74.5	\$2,180.79	\$742.50	0.34047	8.26
74.5 - 75.5	\$1,116.38	\$0.00	0.00000	5.45
75.5 - 76.5	\$802.32	\$0.00	0.00000	5.45
76.5 - 77.5	\$495.92	\$0.00	0.00000	5.45
77.5 - 78.5	\$346.46	\$0.00	0.00000	5.45
78.5 - 79.5	\$197.00	\$0.00	0.00000	5.45

Montana-Dakota Utilities Company
Electric Plant
369.10 Services - Overhead
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant

369.10 Services - Overhead

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1930 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$2,452,450.45	\$1,819.39	0.00074	100.00
0.5 - 1.5	\$2,391,894.19	\$16,589.95	0.00694	99.93
1.5 - 2.5	\$2,070,298.96	\$16,035.23	0.00775	99.23
2.5 - 3.5	\$1,979,060.58	\$13,374.41	0.00676	98.46
3.5 - 4.5	\$1,918,530.64	\$12,736.55	0.00664	97.80
4.5 - 5.5	\$1,904,313.92	\$18,594.44	0.00976	97.15
5.5 - 6.5	\$1,831,314.60	\$15,067.82	0.00823	96.20
6.5 - 7.5	\$1,787,509.61	\$16,581.53	0.00928	95.41
7.5 - 8.5	\$1,809,235.28	\$12,067.06	0.00667	94.52
8.5 - 9.5	\$1,830,025.34	\$11,600.18	0.00634	93.89
9.5 - 10.5	\$1,887,446.14	\$13,748.51	0.00728	93.30
10.5 - 11.5	\$1,925,172.65	\$13,862.66	0.00720	92.62
11.5 - 12.5	\$1,969,689.65	\$13,637.96	0.00692	91.95
12.5 - 13.5	\$2,026,481.60	\$10,863.38	0.00536	91.32
13.5 - 14.5	\$2,091,722.60	\$14,698.33	0.00703	90.83
14.5 - 15.5	\$2,209,746.62	\$14,200.30	0.00643	90.19
15.5 - 16.5	\$2,270,695.73	\$14,098.58	0.00621	89.61
16.5 - 17.5	\$2,296,483.79	\$16,198.36	0.00705	89.05
17.5 - 18.5	\$2,333,265.69	\$42,058.99	0.01803	88.42
18.5 - 19.5	\$2,319,640.71	\$15,944.23	0.00687	86.83
19.5 - 20.5	\$2,382,794.58	\$33,593.66	0.01410	86.23
20.5 - 21.5	\$2,324,043.21	\$44,607.18	0.01919	85.02
21.5 - 22.5	\$2,248,588.22	\$45,576.96	0.02027	83.39
22.5 - 23.5	\$2,161,102.61	\$25,902.93	0.01199	81.70
23.5 - 24.5	\$2,095,684.66	\$19,159.84	0.00914	80.72
24.5 - 25.5	\$2,077,171.94	\$19,997.31	0.00963	79.98
25.5 - 26.5	\$1,992,711.75	\$26,155.63	0.01313	79.21
26.5 - 27.5	\$1,902,764.53	\$20,938.63	0.01100	78.17
27.5 - 28.5	\$1,809,759.70	\$22,503.95	0.01243	77.31
28.5 - 29.5	\$1,690,580.22	\$30,548.06	0.01807	76.35
29.5 - 30.5	\$1,573,216.01	\$26,386.70	0.01677	74.97
30.5 - 31.5	\$1,445,307.91	\$27,741.37	0.01919	73.71
31.5 - 32.5	\$1,310,754.47	\$25,411.15	0.01939	72.30
32.5 - 33.5	\$1,183,703.56	\$26,945.01	0.02276	70.89
33.5 - 34.5	\$1,043,152.99	\$28,189.82	0.02702	69.28
34.5 - 35.5	\$915,349.66	\$29,990.07	0.03276	67.41

Montana-Dakota Utilities Company
Electric Plant

369.10 Services - Overhead

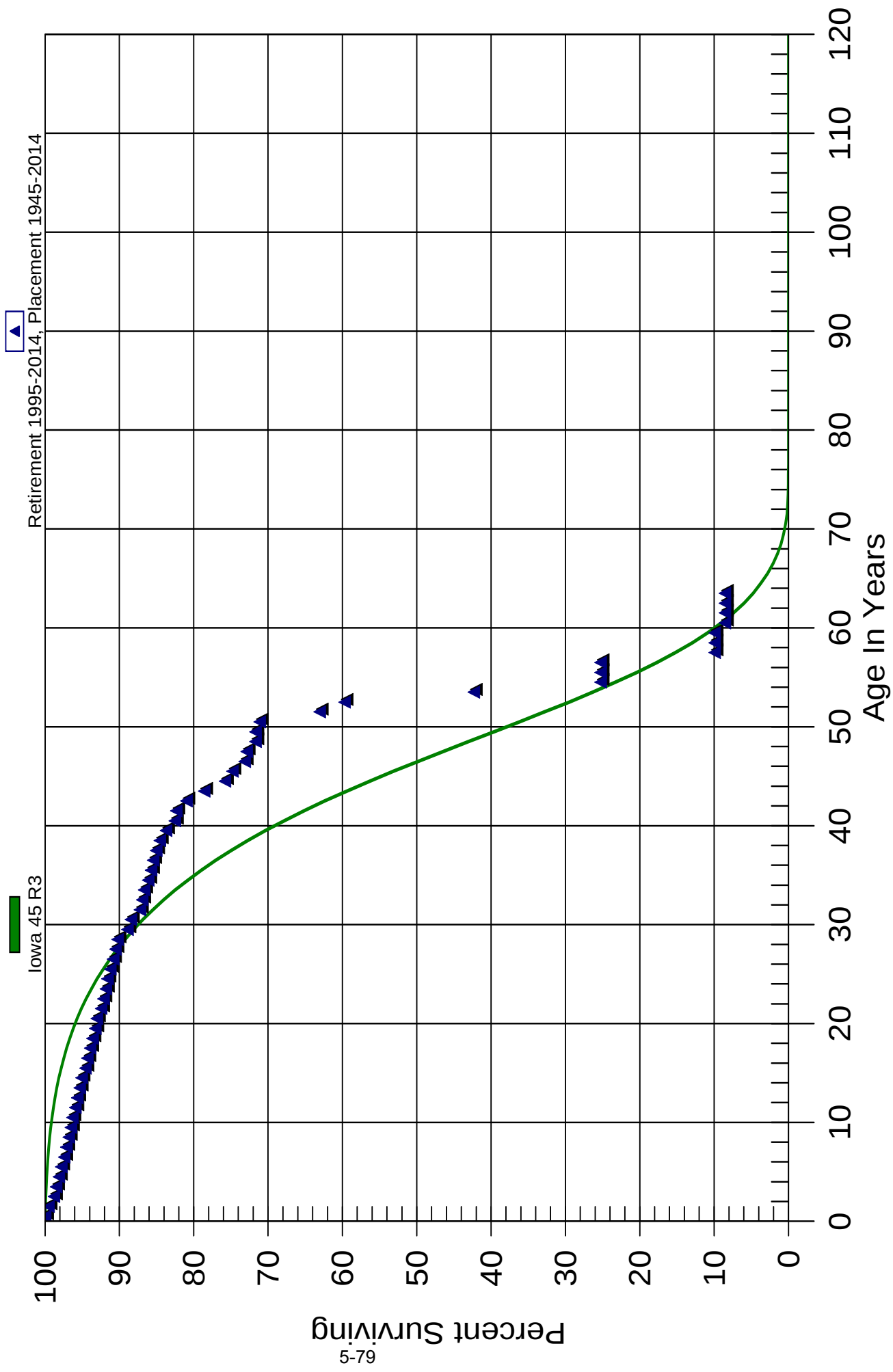
Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1930 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$782,122.36	\$24,939.22	0.03189	65.20
36.5 - 37.5	\$663,902.89	\$22,287.41	0.03357	63.12
37.5 - 38.5	\$529,398.50	\$15,337.57	0.02897	61.00
38.5 - 39.5	\$410,456.59	\$18,515.60	0.04511	59.23
39.5 - 40.5	\$319,250.79	\$14,615.72	0.04578	56.56
40.5 - 41.5	\$237,934.41	\$16,477.02	0.06925	53.97
41.5 - 42.5	\$180,233.46	\$13,852.31	0.07686	50.23
42.5 - 43.5	\$139,836.97	\$13,236.41	0.09466	46.37
43.5 - 44.5	\$108,766.89	\$11,180.13	0.10279	41.98
44.5 - 45.5	\$91,701.14	\$7,060.20	0.07699	37.67
45.5 - 46.5	\$72,414.13	\$6,360.48	0.08783	34.77
46.5 - 47.5	\$57,323.64	\$2,806.62	0.04896	31.71
47.5 - 48.5	\$48,414.08	\$6,000.24	0.12394	30.16
48.5 - 49.5	\$38,633.66	\$4,898.29	0.12679	26.42
49.5 - 50.5	\$30,842.63	\$3,232.96	0.10482	23.07
50.5 - 51.5	\$25,487.95	\$3,462.95	0.13587	20.65
51.5 - 52.5	\$20,715.06	\$4,998.06	0.24128	17.85
52.5 - 53.5	\$15,146.27	\$2,917.32	0.19261	13.54
53.5 - 54.5	\$20,125.32	\$3,001.75	0.14915	10.93
54.5 - 55.5	\$17,495.87	\$1,501.00	0.08579	9.30
55.5 - 56.5	\$16,014.33	\$1,280.35	0.07995	8.50
56.5 - 57.5	\$14,733.98	\$847.25	0.05750	7.82
57.5 - 58.5	\$13,886.73	\$513.50	0.03698	7.37
58.5 - 59.5	\$13,392.98	\$1,046.75	0.07816	7.10
59.5 - 60.5	\$12,365.98	\$523.11	0.04230	6.55
60.5 - 61.5	\$11,842.87	\$1,301.97	0.10994	6.27
61.5 - 62.5	\$10,521.15	\$1,024.00	0.09733	5.58
62.5 - 63.5	\$9,497.15	\$553.00	0.05823	5.04
63.5 - 64.5	\$8,944.15	\$612.25	0.06845	4.74
64.5 - 65.5	\$8,351.65	\$118.50	0.01419	4.42
65.5 - 66.5	\$8,233.15	\$0.00	0.00000	4.36
66.5 - 67.5	\$8,233.15	\$0.00	0.00000	4.36
67.5 - 68.5	\$8,233.15	\$39.50	0.00480	4.36
68.5 - 69.5	\$8,193.65	\$8,134.40	0.99277	4.34
69.5 - 70.5	\$59.25	\$19.75	0.33333	0.03

Montana-Dakota Utilities Company
Electric Plant
369.20 Services - Underground
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company

Electric Plant

369.20 Services - Underground

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1945 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$20,561,895.41	\$2,339.13	0.00011	100.00
0.5 - 1.5	\$18,515,336.86	\$88,187.40	0.00476	99.99
1.5 - 2.5	\$15,865,644.05	\$112,115.81	0.00707	99.51
2.5 - 3.5	\$13,368,154.88	\$39,103.65	0.00293	98.81
3.5 - 4.5	\$12,082,286.53	\$47,224.52	0.00391	98.52
4.5 - 5.5	\$11,068,596.89	\$36,057.13	0.00326	98.14
5.5 - 6.5	\$10,319,986.43	\$43,105.97	0.00418	97.82
6.5 - 7.5	\$9,528,523.06	\$27,413.63	0.00288	97.41
7.5 - 8.5	\$9,027,827.18	\$29,787.81	0.00330	97.13
8.5 - 9.5	\$8,547,520.71	\$24,327.75	0.00285	96.81
9.5 - 10.5	\$8,238,333.65	\$18,334.96	0.00223	96.53
10.5 - 11.5	\$8,074,297.87	\$34,227.06	0.00424	96.32
11.5 - 12.5	\$8,051,675.78	\$20,556.97	0.00255	95.91
12.5 - 13.5	\$8,248,020.10	\$28,287.92	0.00343	95.66
13.5 - 14.5	\$8,572,567.61	\$21,627.03	0.00252	95.33
14.5 - 15.5	\$8,807,666.34	\$49,561.07	0.00563	95.09
15.5 - 16.5	\$8,895,651.72	\$23,075.72	0.00259	94.56
16.5 - 17.5	\$8,928,944.01	\$35,214.31	0.00394	94.31
17.5 - 18.5	\$8,866,641.82	\$29,944.18	0.00338	93.94
18.5 - 19.5	\$8,710,307.88	\$35,740.26	0.00410	93.62
19.5 - 20.5	\$8,492,002.03	\$17,332.77	0.00204	93.24
20.5 - 21.5	\$8,072,981.43	\$51,239.77	0.00635	93.05
21.5 - 22.5	\$7,758,249.93	\$26,248.41	0.00338	92.46
22.5 - 23.5	\$7,424,701.54	\$24,545.56	0.00331	92.15
23.5 - 24.5	\$7,197,540.49	\$19,728.55	0.00274	91.84
24.5 - 25.5	\$6,971,471.46	\$28,936.12	0.00415	91.59
25.5 - 26.5	\$6,702,545.42	\$26,190.30	0.00391	91.21
26.5 - 27.5	\$6,433,145.81	\$22,122.54	0.00344	90.85
27.5 - 28.5	\$6,158,528.17	\$19,611.87	0.00318	90.54
28.5 - 29.5	\$5,866,124.15	\$86,022.89	0.01466	90.25
29.5 - 30.5	\$5,440,944.32	\$29,359.91	0.00540	88.93
30.5 - 31.5	\$4,964,826.13	\$68,373.75	0.01377	88.45
31.5 - 32.5	\$4,345,750.63	\$15,360.34	0.00353	87.23
32.5 - 33.5	\$3,702,419.94	\$11,420.10	0.00308	86.92
33.5 - 34.5	\$2,992,563.10	\$18,871.14	0.00631	86.65
34.5 - 35.5	\$2,408,343.78	\$10,009.06	0.00416	86.11

Montana-Dakota Utilities Company

Electric Plant

369.20 Services - Underground

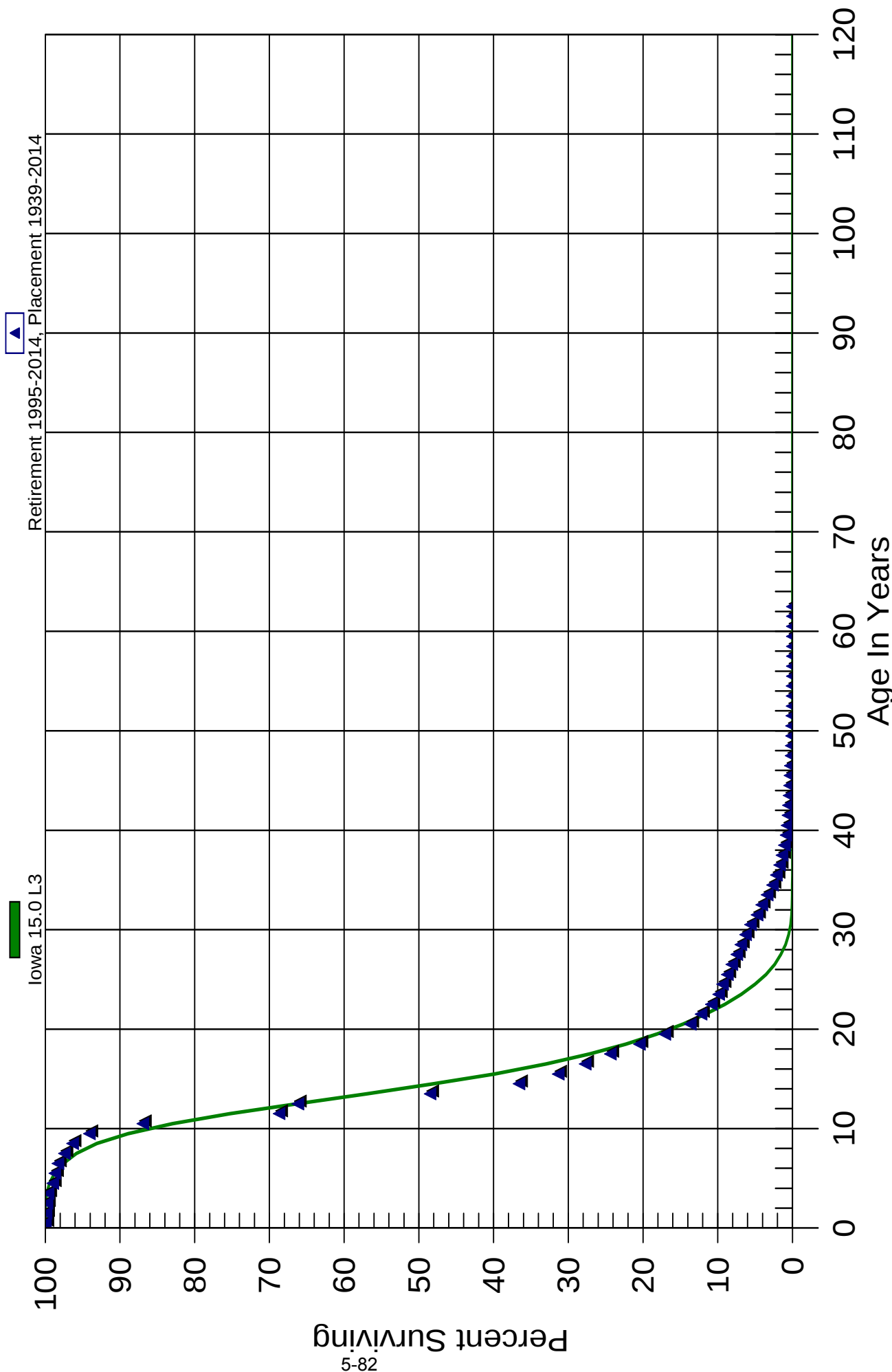
Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1945 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$1,859,088.77	\$6,489.21	0.00349	85.75
36.5 - 37.5	\$1,382,444.21	\$6,386.90	0.00462	85.45
37.5 - 38.5	\$949,687.54	\$5,543.65	0.00584	85.06
38.5 - 39.5	\$627,230.20	\$6,117.29	0.00975	84.56
39.5 - 40.5	\$426,933.28	\$6,112.81	0.01432	83.74
40.5 - 41.5	\$267,984.74	\$606.28	0.00226	82.54
41.5 - 42.5	\$183,119.93	\$3,017.07	0.01648	82.35
42.5 - 43.5	\$129,570.17	\$3,830.93	0.02957	80.99
43.5 - 44.5	\$94,938.40	\$3,383.84	0.03564	78.60
44.5 - 45.5	\$66,669.97	\$875.68	0.01313	75.80
45.5 - 46.5	\$47,660.00	\$1,044.86	0.02192	74.80
46.5 - 47.5	\$33,415.24	\$118.26	0.00354	73.16
47.5 - 48.5	\$25,073.73	\$408.93	0.01631	72.90
48.5 - 49.5	\$18,820.99	\$0.00	0.00000	71.71
49.5 - 50.5	\$14,258.17	\$118.26	0.00829	71.71
50.5 - 51.5	\$10,892.66	\$1,235.01	0.11338	71.12
51.5 - 52.5	\$7,341.43	\$390.30	0.05316	63.06
52.5 - 53.5	\$5,605.88	\$1,630.88	0.29092	59.70
53.5 - 54.5	\$2,919.26	\$1,176.47	0.40300	42.33
54.5 - 55.5	\$1,208.17	\$0.00	0.00000	25.27
55.5 - 56.5	\$945.30	\$0.00	0.00000	25.27
56.5 - 57.5	\$845.03	\$512.97	0.60704	25.27
57.5 - 58.5	\$295.82	\$0.00	0.00000	9.93
58.5 - 59.5	\$287.29	\$0.00	0.00000	9.93
59.5 - 60.5	\$286.19	\$39.58	0.13830	9.93
60.5 - 61.5	\$246.61	\$0.00	0.00000	8.56
61.5 - 62.5	\$246.61	\$0.00	0.00000	8.56
62.5 - 63.5	\$246.61	\$0.00	0.00000	8.56

Montana-Dakota Utilities Company
Electric Plant
370.00 Meters
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant
370.00 Meters

Observed Life Table
Retirement Expr. 1995 TO 2014
Placement Years 1939 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$21,839,617.47	\$5,391.00	0.00025	100.00
0.5 - 1.5	\$22,320,669.54	\$18,360.03	0.00082	99.98
1.5 - 2.5	\$20,790,261.25	\$23,503.13	0.00113	99.89
2.5 - 3.5	\$17,564,531.03	\$27,556.48	0.00157	99.78
3.5 - 4.5	\$17,010,043.36	\$105,183.41	0.00618	99.62
4.5 - 5.5	\$15,731,601.02	\$45,508.96	0.00289	99.01
5.5 - 6.5	\$15,325,852.29	\$62,710.36	0.00409	98.72
6.5 - 7.5	\$13,028,246.25	\$115,453.24	0.00886	98.32
7.5 - 8.5	\$8,035,807.45	\$89,697.23	0.01116	97.45
8.5 - 9.5	\$7,914,552.90	\$184,636.28	0.02333	96.36
9.5 - 10.5	\$7,710,346.14	\$587,137.92	0.07615	94.11
10.5 - 11.5	\$7,026,697.15	\$1,472,596.22	0.20957	86.94
11.5 - 12.5	\$5,559,115.88	\$204,145.45	0.03672	68.72
12.5 - 13.5	\$5,408,523.10	\$1,446,044.78	0.26736	66.20
13.5 - 14.5	\$4,023,773.28	\$986,870.33	0.24526	48.50
14.5 - 15.5	\$3,128,180.62	\$449,961.96	0.14384	36.60
15.5 - 16.5	\$2,806,888.71	\$322,789.76	0.11500	31.34
16.5 - 17.5	\$2,634,632.18	\$319,672.16	0.12133	27.74
17.5 - 18.5	\$2,365,433.12	\$378,765.18	0.16013	24.37
18.5 - 19.5	\$2,026,948.38	\$336,211.97	0.16587	20.47
19.5 - 20.5	\$1,752,686.60	\$347,806.85	0.19844	17.07
20.5 - 21.5	\$1,576,749.92	\$168,208.86	0.10668	13.68
21.5 - 22.5	\$1,497,628.05	\$169,666.80	0.11329	12.23
22.5 - 23.5	\$1,383,984.26	\$124,081.51	0.08966	10.84
23.5 - 24.5	\$1,315,677.48	\$67,515.65	0.05132	9.87
24.5 - 25.5	\$1,281,257.73	\$88,517.31	0.06909	9.36
25.5 - 26.5	\$1,249,285.89	\$86,618.59	0.06933	8.72
26.5 - 27.5	\$1,214,595.90	\$99,368.73	0.08181	8.11
27.5 - 28.5	\$1,151,309.93	\$84,496.29	0.07339	7.45
28.5 - 29.5	\$1,112,992.22	\$102,475.27	0.09207	6.90
29.5 - 30.5	\$1,049,798.96	\$111,878.17	0.10657	6.27
30.5 - 31.5	\$979,855.62	\$148,704.37	0.15176	5.60
31.5 - 32.5	\$912,133.40	\$122,529.67	0.13433	4.75
32.5 - 33.5	\$866,366.53	\$152,908.22	0.17649	4.11
33.5 - 34.5	\$795,203.06	\$169,226.38	0.21281	3.38
34.5 - 35.5	\$699,423.13	\$133,902.10	0.19145	2.66

Montana-Dakota Utilities Company

Electric Plant

370.00 Meters

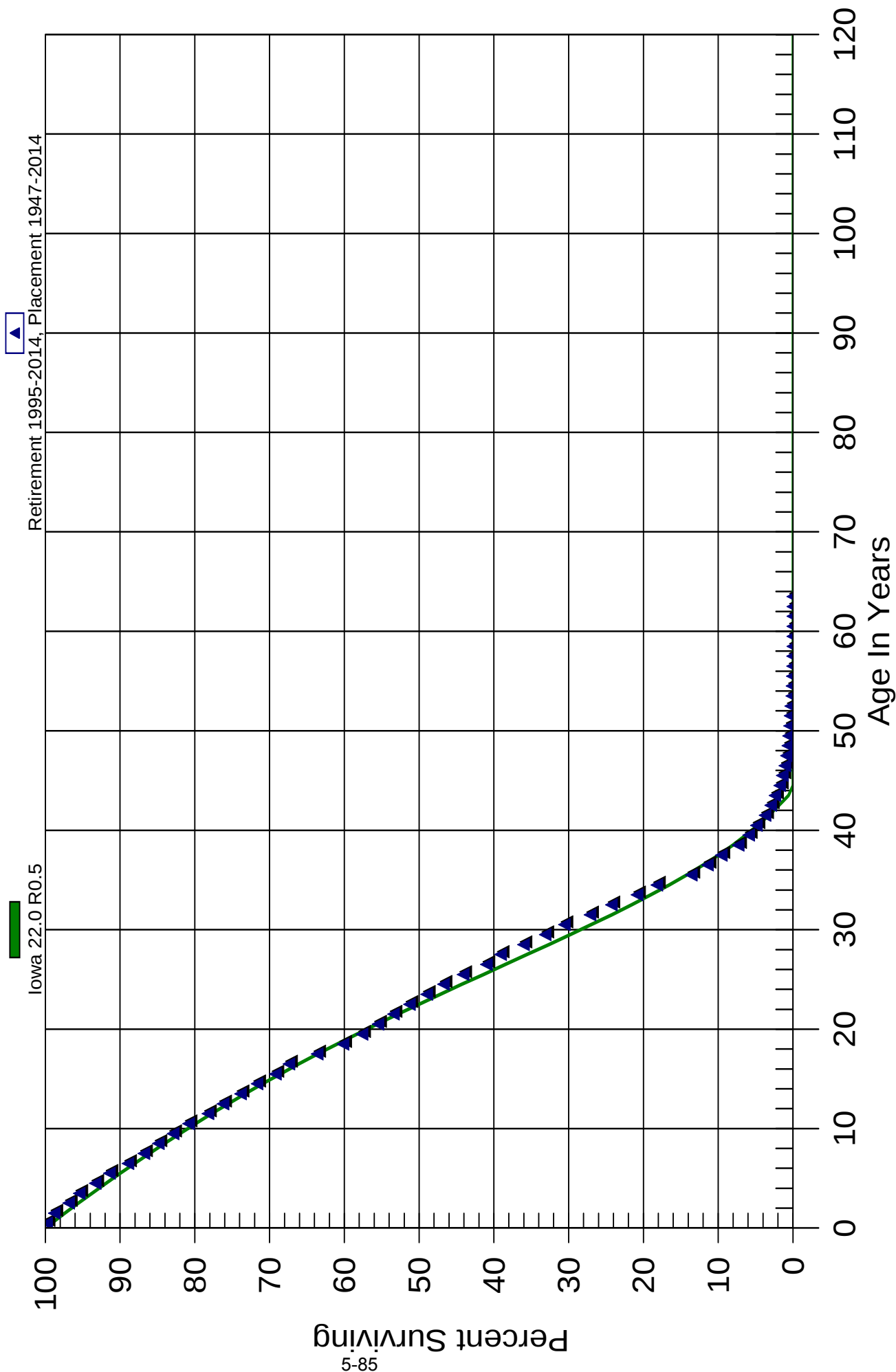
Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1939 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$615,506.69	\$124,984.76	0.20306	2.15
36.5 - 37.5	\$548,464.26	\$106,334.47	0.19388	1.72
37.5 - 38.5	\$488,664.53	\$105,286.43	0.21546	1.38
38.5 - 39.5	\$411,900.01	\$87,983.40	0.21360	1.09
39.5 - 40.5	\$358,887.00	\$57,365.52	0.15984	0.85
40.5 - 41.5	\$335,949.15	\$53,329.54	0.15874	0.72
41.5 - 42.5	\$320,136.72	\$40,786.38	0.12740	0.60
42.5 - 43.5	\$309,871.37	\$40,605.13	0.13104	0.53
43.5 - 44.5	\$290,439.83	\$46,382.96	0.15970	0.46
44.5 - 45.5	\$275,175.19	\$44,716.30	0.16250	0.38
45.5 - 46.5	\$267,101.46	\$48,169.97	0.18034	0.32
46.5 - 47.5	\$225,813.41	\$64,826.42	0.28708	0.26
47.5 - 48.5	\$163,667.50	\$29,446.13	0.17991	0.19
48.5 - 49.5	\$139,603.82	\$27,522.17	0.19714	0.15
49.5 - 50.5	\$123,903.90	\$24,239.26	0.19563	0.12
50.5 - 51.5	\$107,930.67	\$28,346.93	0.26264	0.10
51.5 - 52.5	\$90,773.50	\$21,575.78	0.23769	0.07
52.5 - 53.5	\$75,595.11	\$18,959.76	0.25081	0.06
53.5 - 54.5	\$57,019.44	\$15,108.56	0.26497	0.04
54.5 - 55.5	\$41,910.88	\$7,327.67	0.17484	0.03
55.5 - 56.5	\$34,704.99	\$8,221.94	0.23691	0.03
56.5 - 57.5	\$26,483.05	\$6,431.25	0.24284	0.02
57.5 - 58.5	\$20,051.80	\$6,418.38	0.32009	0.01
58.5 - 59.5	\$13,633.42	\$6,079.64	0.44594	0.01
59.5 - 60.5	\$7,553.78	\$4,713.25	0.62396	0.01
60.5 - 61.5	\$2,840.53	\$1,856.25	0.65349	0.00
61.5 - 62.5	\$984.28	\$562.50	0.57148	0.00

Montana-Dakota Utilities Company
Electric Plant
371.00 Installation on Customers Premises
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant

371.00 Installation on Customers Premises

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1947 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$2,689,187.56	\$4,370.38	0.00163	100.00
0.5 - 1.5	\$2,669,290.22	\$27,677.25	0.01037	99.84
1.5 - 2.5	\$2,480,730.58	\$48,596.89	0.01959	98.80
2.5 - 3.5	\$2,394,019.84	\$35,128.89	0.01467	96.87
3.5 - 4.5	\$2,290,397.25	\$50,801.92	0.02218	95.45
4.5 - 5.5	\$2,246,957.05	\$45,998.74	0.02047	93.33
5.5 - 6.5	\$2,143,555.58	\$58,221.22	0.02716	91.42
6.5 - 7.5	\$1,988,056.57	\$47,599.01	0.02394	88.93
7.5 - 8.5	\$1,883,327.94	\$41,833.83	0.02221	86.81
8.5 - 9.5	\$1,753,256.29	\$40,272.12	0.02297	84.88
9.5 - 10.5	\$1,649,369.67	\$41,433.40	0.02512	82.93
10.5 - 11.5	\$1,550,718.20	\$49,760.36	0.03209	80.84
11.5 - 12.5	\$1,450,115.94	\$37,626.14	0.02595	78.25
12.5 - 13.5	\$1,369,867.61	\$41,895.89	0.03058	76.22
13.5 - 14.5	\$1,279,030.41	\$38,140.86	0.02982	73.89
14.5 - 15.5	\$1,237,196.90	\$42,609.62	0.03444	71.69
15.5 - 16.5	\$1,134,233.60	\$29,676.29	0.02616	69.22
16.5 - 17.5	\$1,051,257.37	\$58,806.05	0.05594	67.41
17.5 - 18.5	\$896,777.81	\$48,660.97	0.05426	63.63
18.5 - 19.5	\$759,597.16	\$31,975.82	0.04210	60.18
19.5 - 20.5	\$725,127.82	\$26,952.35	0.03717	57.65
20.5 - 21.5	\$653,147.91	\$24,419.11	0.03739	55.51
21.5 - 22.5	\$569,094.73	\$22,591.74	0.03970	53.43
22.5 - 23.5	\$487,284.56	\$22,117.76	0.04539	51.31
23.5 - 24.5	\$419,469.74	\$19,070.75	0.04546	48.98
24.5 - 25.5	\$373,643.23	\$20,986.22	0.05617	46.75
25.5 - 26.5	\$326,593.34	\$23,052.72	0.07059	44.13
26.5 - 27.5	\$286,184.45	\$13,324.48	0.04656	41.01
27.5 - 28.5	\$260,094.16	\$20,312.97	0.07810	39.10
28.5 - 29.5	\$223,651.17	\$17,991.86	0.08045	36.05
29.5 - 30.5	\$207,519.68	\$16,181.13	0.07797	33.15
30.5 - 31.5	\$184,138.68	\$20,610.52	0.11193	30.56
31.5 - 32.5	\$152,784.23	\$16,003.81	0.10475	27.14
32.5 - 33.5	\$134,559.41	\$19,104.47	0.14198	24.30
33.5 - 34.5	\$111,967.24	\$14,240.54	0.12718	20.85
34.5 - 35.5	\$100,455.10	\$25,404.55	0.25289	18.20

Montana-Dakota Utilities Company

Electric Plant

371.00 Installation on Customers Premises

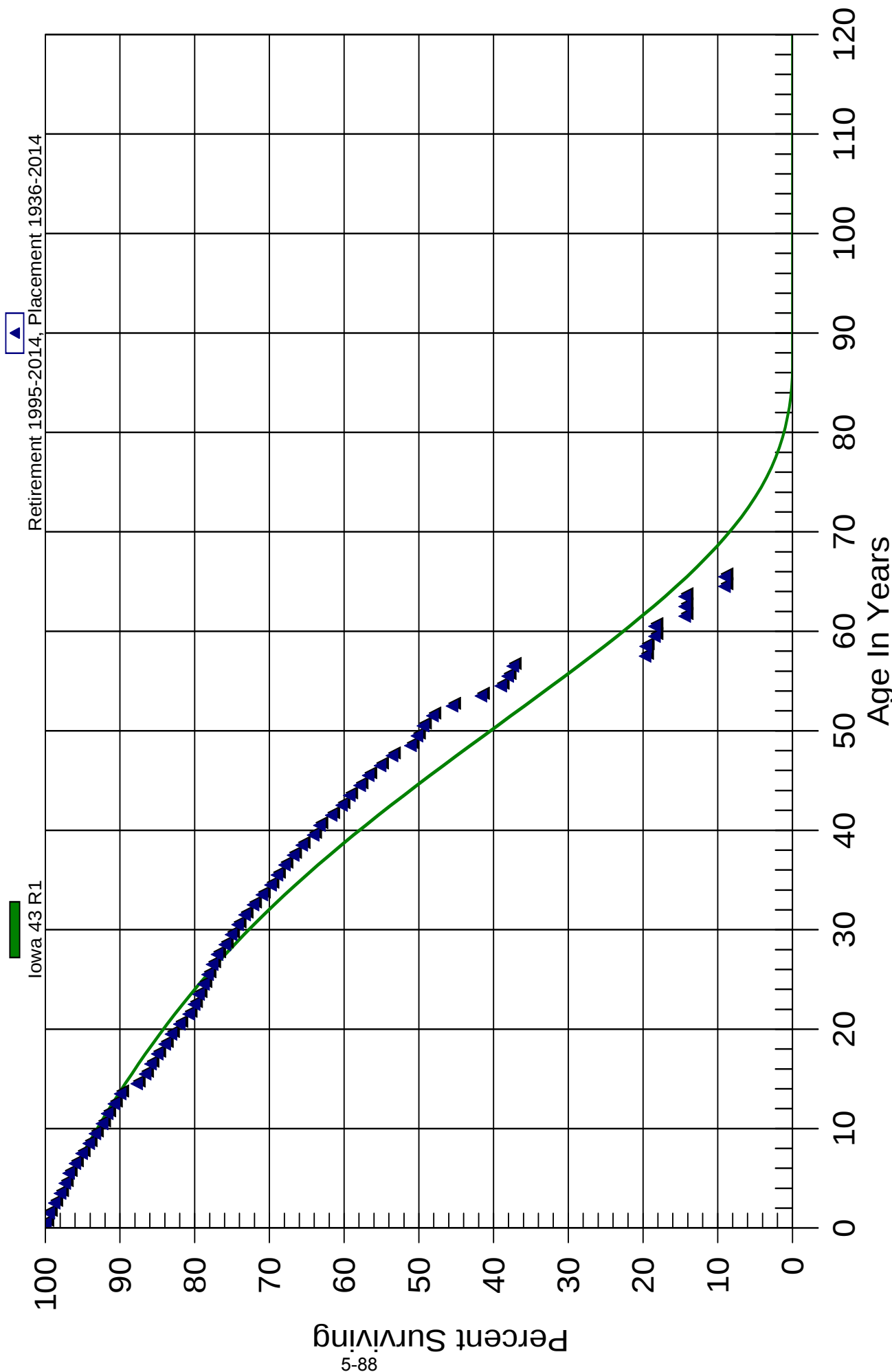
Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1947 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$74,946.67	\$11,982.63	0.15988	13.60
36.5 - 37.5	\$63,484.97	\$10,148.35	0.15985	11.42
37.5 - 38.5	\$54,726.75	\$12,929.12	0.23625	9.60
38.5 - 39.5	\$43,255.04	\$8,294.90	0.19177	7.33
39.5 - 40.5	\$35,982.90	\$6,279.98	0.17453	5.92
40.5 - 41.5	\$30,582.74	\$7,259.30	0.23737	4.89
41.5 - 42.5	\$23,740.36	\$4,672.25	0.19681	3.73
42.5 - 43.5	\$21,179.72	\$4,085.35	0.19289	3.00
43.5 - 44.5	\$17,609.11	\$4,618.30	0.26227	2.42
44.5 - 45.5	\$13,883.66	\$2,772.74	0.19971	1.78
45.5 - 46.5	\$11,619.82	\$2,919.88	0.25128	1.43
46.5 - 47.5	\$8,788.64	\$1,674.57	0.19054	1.07
47.5 - 48.5	\$7,643.86	\$1,542.43	0.20179	0.87
48.5 - 49.5	\$6,225.74	\$860.50	0.13822	0.69
49.5 - 50.5	\$5,489.02	\$1,296.97	0.23628	0.60
50.5 - 51.5	\$4,192.05	\$495.65	0.11824	0.45
51.5 - 52.5	\$3,696.40	\$955.11	0.25839	0.40
52.5 - 53.5	\$2,923.07	\$1,486.37	0.50850	0.30
53.5 - 54.5	\$1,494.70	\$239.78	0.16042	0.15
54.5 - 55.5	\$1,254.92	\$550.96	0.43904	0.12
55.5 - 56.5	\$703.96	\$115.21	0.16366	0.07
56.5 - 57.5	\$588.75	\$120.03	0.20387	0.06
57.5 - 58.5	\$468.72	\$352.72	0.75252	0.05
58.5 - 59.5	\$116.00	\$0.00	0.00000	0.01
59.5 - 60.5	\$116.00	\$0.00	0.00000	0.01
60.5 - 61.5	\$116.00	\$58.00	0.50000	0.01
61.5 - 62.5	\$58.00	\$0.00	0.00000	0.01
62.5 - 63.5	\$116.00	\$58.00	0.50000	0.01

Montana-Dakota Utilities Company
Electric Plant
373.00 Street Lighting System
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company

Electric Plant

373.00 Street Lighting System

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1936 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$3,649,083.75	\$926.23	0.00025	100.00
0.5 - 1.5	\$3,442,718.60	\$15,079.29	0.00438	99.97
1.5 - 2.5	\$3,154,057.83	\$23,130.03	0.00733	99.54
2.5 - 3.5	\$3,065,976.71	\$23,908.34	0.00780	98.81
3.5 - 4.5	\$2,939,033.15	\$19,641.33	0.00668	98.04
4.5 - 5.5	\$2,831,860.58	\$14,754.57	0.00521	97.38
5.5 - 6.5	\$2,701,646.56	\$23,484.00	0.00869	96.87
6.5 - 7.5	\$2,532,179.12	\$23,489.22	0.00928	96.03
7.5 - 8.5	\$2,468,759.72	\$24,939.06	0.01010	95.14
8.5 - 9.5	\$2,445,897.52	\$21,169.83	0.00866	94.18
9.5 - 10.5	\$2,484,042.40	\$25,400.10	0.01023	93.36
10.5 - 11.5	\$2,451,667.38	\$18,237.91	0.00744	92.41
11.5 - 12.5	\$2,570,580.00	\$25,304.45	0.00984	91.72
12.5 - 13.5	\$2,668,952.22	\$24,630.49	0.00923	90.82
13.5 - 14.5	\$2,672,961.60	\$65,854.72	0.02464	89.98
14.5 - 15.5	\$2,842,930.34	\$36,759.69	0.01293	87.76
15.5 - 16.5	\$3,075,424.52	\$24,979.89	0.00812	86.63
16.5 - 17.5	\$3,072,204.66	\$32,208.43	0.01048	85.93
17.5 - 18.5	\$2,938,612.26	\$34,948.93	0.01189	85.03
18.5 - 19.5	\$2,966,152.44	\$29,238.67	0.00986	84.01
19.5 - 20.5	\$3,016,655.72	\$41,161.88	0.01364	83.19
20.5 - 21.5	\$2,916,260.82	\$43,642.33	0.01497	82.05
21.5 - 22.5	\$2,917,943.42	\$26,313.91	0.00902	80.82
22.5 - 23.5	\$2,931,569.59	\$21,664.32	0.00739	80.09
23.5 - 24.5	\$2,949,534.07	\$25,134.66	0.00852	79.50
24.5 - 25.5	\$2,948,554.26	\$20,074.99	0.00681	78.82
25.5 - 26.5	\$3,097,916.50	\$24,535.51	0.00792	78.29
26.5 - 27.5	\$3,116,049.66	\$25,943.98	0.00833	77.67
27.5 - 28.5	\$3,119,335.38	\$42,313.87	0.01357	77.02
28.5 - 29.5	\$3,100,486.68	\$34,456.90	0.01111	75.98
29.5 - 30.5	\$2,996,768.93	\$34,368.58	0.01147	75.13
30.5 - 31.5	\$3,007,947.30	\$38,359.13	0.01275	74.27
31.5 - 32.5	\$2,828,083.55	\$43,379.82	0.01534	73.32
32.5 - 33.5	\$2,681,213.75	\$43,511.28	0.01623	72.20
33.5 - 34.5	\$2,509,930.06	\$40,831.10	0.01627	71.03
34.5 - 35.5	\$2,205,231.65	\$27,665.91	0.01255	69.87

Montana-Dakota Utilities Company

Electric Plant

373.00 Street Lighting System

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1936 TO 2014

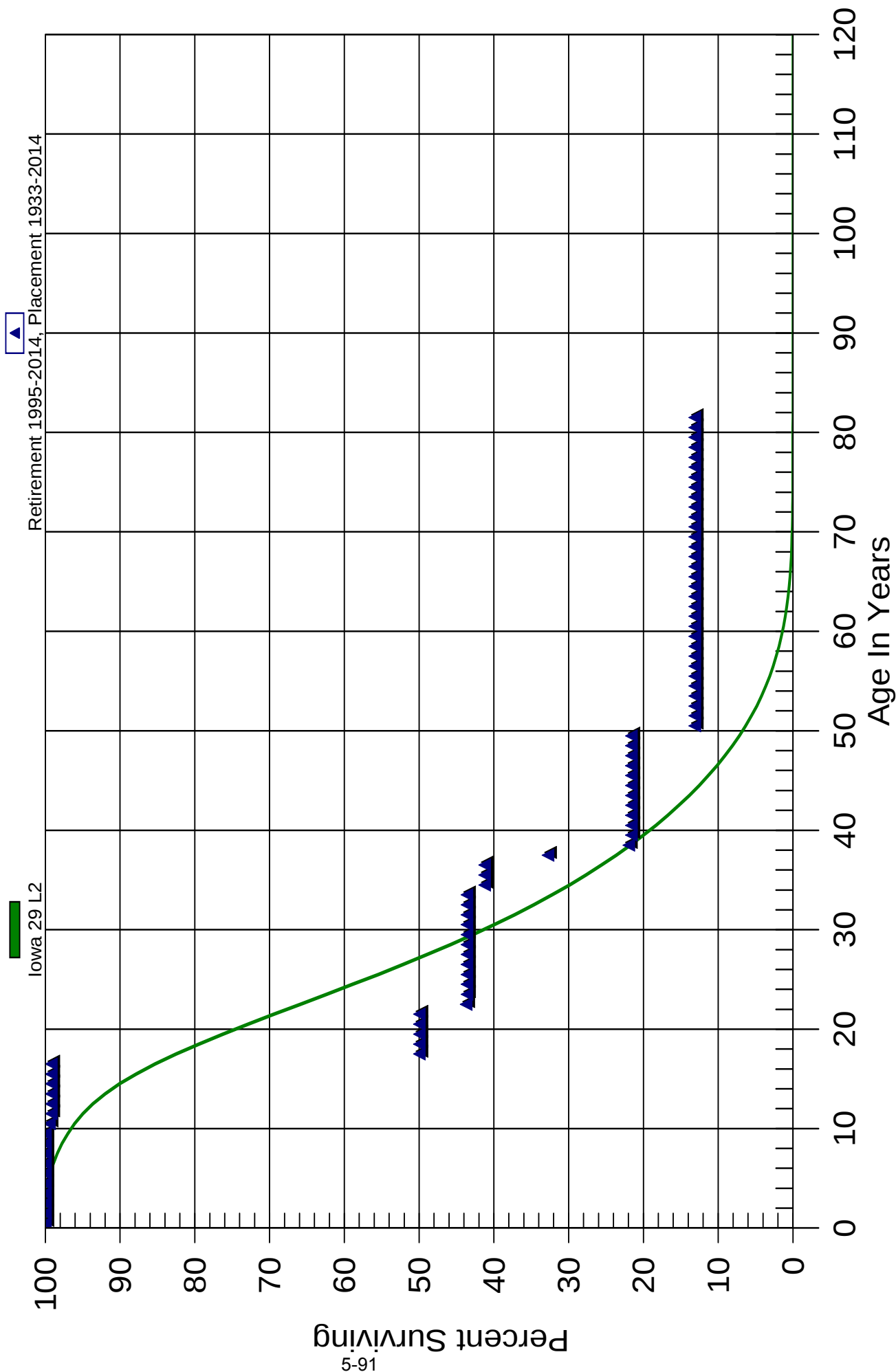
Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$1,870,655.23	\$26,953.28	0.01441	68.99
36.5 - 37.5	\$1,731,276.57	\$29,329.12	0.01694	68.00
37.5 - 38.5	\$1,610,921.78	\$28,158.39	0.01748	66.85
38.5 - 39.5	\$1,434,031.32	\$33,370.69	0.02327	65.68
39.5 - 40.5	\$1,293,608.64	\$16,687.32	0.01290	64.15
40.5 - 41.5	\$1,189,113.56	\$29,740.07	0.02501	63.32
41.5 - 42.5	\$1,063,453.52	\$23,846.04	0.02242	61.74
42.5 - 43.5	\$957,135.29	\$16,477.41	0.01722	60.36
43.5 - 44.5	\$870,235.68	\$20,340.93	0.02337	59.32
44.5 - 45.5	\$797,282.20	\$15,815.69	0.01984	57.93
45.5 - 46.5	\$577,611.95	\$16,164.73	0.02799	56.78
46.5 - 47.5	\$490,898.06	\$14,160.27	0.02885	55.19
47.5 - 48.5	\$391,644.33	\$18,190.63	0.04645	53.60
48.5 - 49.5	\$296,988.40	\$4,884.55	0.01645	51.11
49.5 - 50.5	\$243,202.05	\$3,948.33	0.01623	50.27
50.5 - 51.5	\$175,312.61	\$4,547.29	0.02594	49.45
51.5 - 52.5	\$126,684.70	\$6,857.10	0.05413	48.17
52.5 - 53.5	\$91,935.61	\$7,807.67	0.08493	45.56
53.5 - 54.5	\$69,005.12	\$4,373.35	0.06338	41.69
54.5 - 55.5	\$50,574.02	\$1,209.04	0.02391	39.05
55.5 - 56.5	\$36,343.85	\$641.95	0.01766	38.12
56.5 - 57.5	\$28,834.36	\$13,646.51	0.47327	37.45
57.5 - 58.5	\$12,581.93	\$58.00	0.00461	19.72
58.5 - 59.5	\$8,200.00	\$483.24	0.05893	19.63
59.5 - 60.5	\$4,636.92	\$0.00	0.00000	18.48
60.5 - 61.5	\$2,184.62	\$479.90	0.21967	18.48
61.5 - 62.5	\$731.22	\$0.00	0.00000	14.42
62.5 - 63.5	\$301.13	\$0.00	0.00000	14.42
63.5 - 64.5	\$110.17	\$40.77	0.37006	14.42
64.5 - 65.5	\$15.27	\$0.00	0.00000	9.08

Montana-Dakota Utilities Company

Electric Plant

390.00 General Structures & Improvements

Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant

390.00 General Structures & Improvements

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1933 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$523,861.18	\$0.00	0.00000	100.00
0.5 - 1.5	\$376,201.00	\$0.00	0.00000	100.00
1.5 - 2.5	\$383,615.56	\$0.00	0.00000	100.00
2.5 - 3.5	\$223,548.47	\$0.00	0.00000	100.00
3.5 - 4.5	\$229,866.74	\$0.00	0.00000	100.00
4.5 - 5.5	\$278,671.95	\$0.00	0.00000	100.00
5.5 - 6.5	\$322,850.29	\$0.00	0.00000	100.00
6.5 - 7.5	\$327,943.17	\$0.00	0.00000	100.00
7.5 - 8.5	\$330,145.84	\$0.00	0.00000	100.00
8.5 - 9.5	\$261,668.75	\$0.00	0.00000	100.00
9.5 - 10.5	\$262,627.05	\$1,438.62	0.00548	100.00
10.5 - 11.5	\$240,612.79	\$604.17	0.00251	99.45
11.5 - 12.5	\$185,280.18	\$0.00	0.00000	99.20
12.5 - 13.5	\$189,355.93	\$0.00	0.00000	99.20
13.5 - 14.5	\$356,926.89	\$0.00	0.00000	99.20
14.5 - 15.5	\$346,589.19	\$0.00	0.00000	99.20
15.5 - 16.5	\$357,457.81	\$0.00	0.00000	99.20
16.5 - 17.5	\$357,974.01	\$177,633.35	0.49622	99.20
17.5 - 18.5	\$177,021.83	\$0.00	0.00000	49.98
18.5 - 19.5	\$179,296.93	\$0.00	0.00000	49.98
19.5 - 20.5	\$180,210.23	\$0.00	0.00000	49.98
20.5 - 21.5	\$224,399.19	\$0.00	0.00000	49.98
21.5 - 22.5	\$225,457.98	\$28,281.39	0.12544	49.98
22.5 - 23.5	\$199,856.40	\$446.08	0.00223	43.71
23.5 - 24.5	\$194,786.27	\$0.00	0.00000	43.61
24.5 - 25.5	\$146,666.79	\$0.00	0.00000	43.61
25.5 - 26.5	\$98,730.80	\$0.00	0.00000	43.61
26.5 - 27.5	\$95,694.38	\$0.00	0.00000	43.61
27.5 - 28.5	\$106,115.37	\$0.00	0.00000	43.61
28.5 - 29.5	\$106,577.07	\$0.00	0.00000	43.61
29.5 - 30.5	\$106,890.22	\$0.00	0.00000	43.61
30.5 - 31.5	\$108,565.89	\$0.00	0.00000	43.61
31.5 - 32.5	\$105,497.62	\$0.00	0.00000	43.61
32.5 - 33.5	\$101,856.07	\$0.00	0.00000	43.61
33.5 - 34.5	\$74,495.27	\$4,054.00	0.05442	43.61
34.5 - 35.5	\$63,514.30	\$0.00	0.00000	41.24

Montana-Dakota Utilities Company
Electric Plant

390.00 General Structures & Improvements

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1933 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$53,373.69	\$0.00	0.00000	41.24
36.5 - 37.5	\$54,250.04	\$11,164.38	0.20579	41.24
37.5 - 38.5	\$64,994.30	\$21,447.15	0.32999	32.75
38.5 - 39.5	\$42,722.00	\$642.20	0.01503	21.94
39.5 - 40.5	\$43,973.05	\$0.00	0.00000	21.61
40.5 - 41.5	\$34,392.31	\$0.00	0.00000	21.61
41.5 - 42.5	\$31,115.48	\$0.00	0.00000	21.61
42.5 - 43.5	\$25,896.66	\$0.00	0.00000	21.61
43.5 - 44.5	\$36,829.68	\$0.00	0.00000	21.61
44.5 - 45.5	\$40,364.24	\$0.00	0.00000	21.61
45.5 - 46.5	\$40,360.34	\$0.00	0.00000	21.61
46.5 - 47.5	\$45,310.12	\$0.00	0.00000	21.61
47.5 - 48.5	\$50,022.63	\$0.00	0.00000	21.61
48.5 - 49.5	\$89,896.52	\$0.00	0.00000	21.61
49.5 - 50.5	\$88,625.07	\$34,767.97	0.39230	21.61
50.5 - 51.5	\$52,181.43	\$0.00	0.00000	13.13
51.5 - 52.5	\$51,777.30	\$0.00	0.00000	13.13
52.5 - 53.5	\$51,343.10	\$0.00	0.00000	13.13
53.5 - 54.5	\$56,280.00	\$0.00	0.00000	13.13
54.5 - 55.5	\$61,086.05	\$0.00	0.00000	13.13
55.5 - 56.5	\$65,657.38	\$0.00	0.00000	13.13
56.5 - 57.5	\$69,881.00	\$0.00	0.00000	13.13
57.5 - 58.5	\$74,463.50	\$0.00	0.00000	13.13
58.5 - 59.5	\$78,057.54	\$0.00	0.00000	13.13
59.5 - 60.5	\$80,051.93	\$0.00	0.00000	13.13
60.5 - 61.5	\$77,459.61	\$0.00	0.00000	13.13
61.5 - 62.5	\$79,287.33	\$0.00	0.00000	13.13
62.5 - 63.5	\$77,417.59	\$0.00	0.00000	13.13
63.5 - 64.5	\$64,790.35	\$0.00	0.00000	13.13
64.5 - 65.5	\$61,212.26	\$0.00	0.00000	13.13
65.5 - 66.5	\$60,714.73	\$0.00	0.00000	13.13
66.5 - 67.5	\$55,147.11	\$0.00	0.00000	13.13
67.5 - 68.5	\$49,579.49	\$0.00	0.00000	13.13
68.5 - 69.5	\$44,011.87	\$0.00	0.00000	13.13
69.5 - 70.5	\$44,011.87	\$0.00	0.00000	13.13
70.5 - 71.5	\$44,011.87	\$0.00	0.00000	13.13

Montana-Dakota Utilities Company
Electric Plant

390.00 General Structures & Improvements

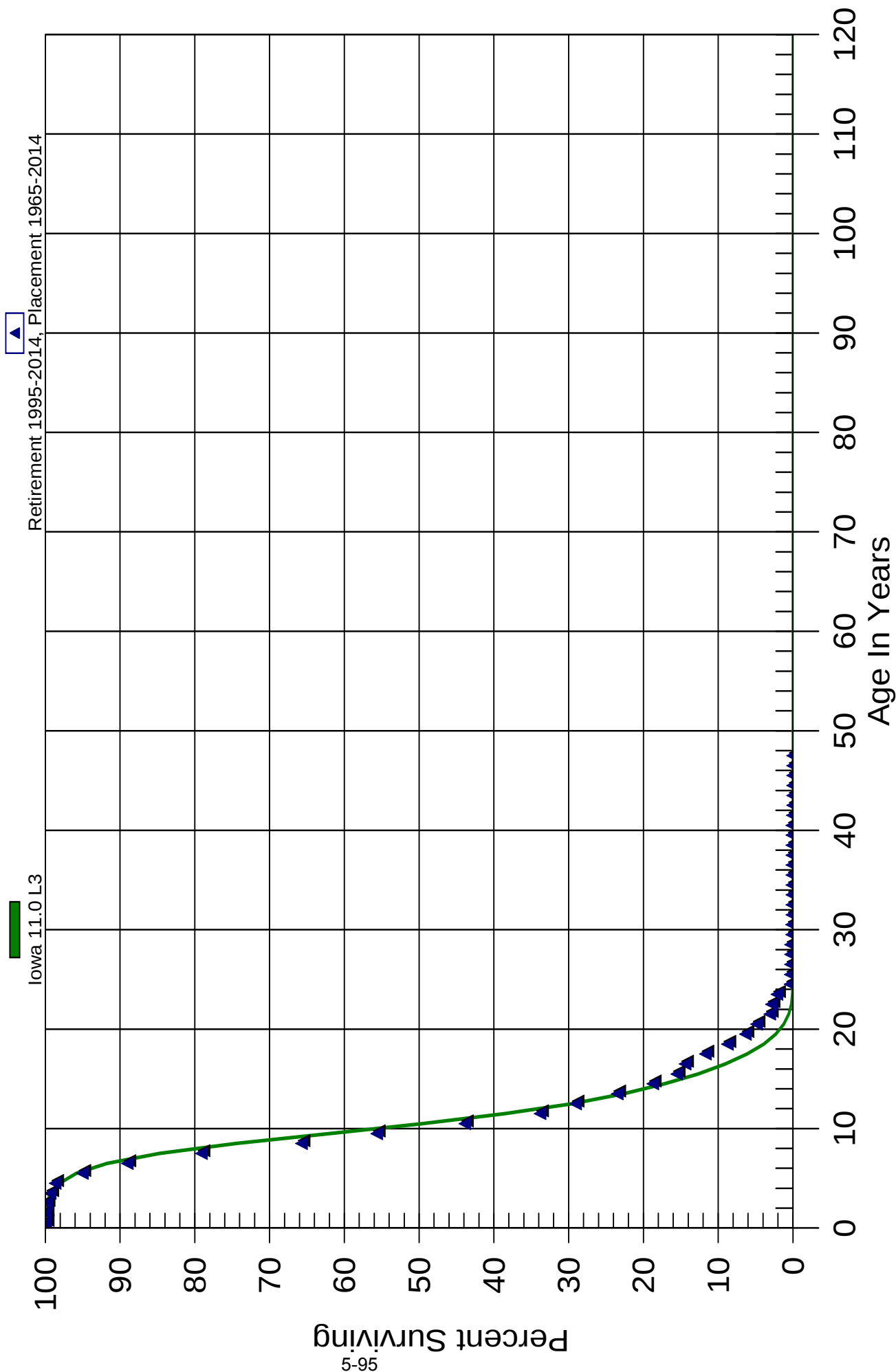
Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1933 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
71.5 - 72.5	\$44,011.87	\$0.00	0.00000	13.13
72.5 - 73.5	\$44,011.87	\$0.00	0.00000	13.13
73.5 - 74.5	\$38,444.25	\$0.00	0.00000	13.13
74.5 - 75.5	\$33,012.43	\$0.00	0.00000	13.13
75.5 - 76.5	\$27,713.09	\$0.00	0.00000	13.13
76.5 - 77.5	\$22,543.00	\$0.00	0.00000	13.13
77.5 - 78.5	\$17,499.01	\$0.00	0.00000	13.13
78.5 - 79.5	\$12,455.02	\$0.00	0.00000	13.13
79.5 - 80.5	\$7,654.08	\$0.00	0.00000	13.13
80.5 - 81.5	\$2,970.24	\$0.00	0.00000	13.13

Montana-Dakota Utilities Company
Electric Plant
392.20 Transportation Equipment
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company

Electric Plant

392.20 Transportation Equipment

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1965 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$9,680,388.14	\$3,705.45	0.00038	100.00
0.5 - 1.5	\$9,156,176.31	\$0.00	0.00000	99.96
1.5 - 2.5	\$8,777,892.11	\$10,142.58	0.00116	99.96
2.5 - 3.5	\$8,824,342.19	\$44,183.04	0.00501	99.85
3.5 - 4.5	\$8,322,366.80	\$55,615.95	0.00668	99.35
4.5 - 5.5	\$8,259,393.45	\$304,627.95	0.03688	98.68
5.5 - 6.5	\$7,758,058.04	\$490,670.07	0.06325	95.04
6.5 - 7.5	\$6,879,389.11	\$766,923.99	0.11148	89.03
7.5 - 8.5	\$5,398,972.91	\$912,826.70	0.16907	79.11
8.5 - 9.5	\$3,994,667.77	\$610,798.80	0.15290	65.73
9.5 - 10.5	\$3,008,082.49	\$637,331.96	0.21187	55.68
10.5 - 11.5	\$2,092,126.09	\$479,172.22	0.22904	43.88
11.5 - 12.5	\$1,473,171.89	\$206,853.80	0.14041	33.83
12.5 - 13.5	\$1,230,281.55	\$235,215.33	0.19119	29.08
13.5 - 14.5	\$954,549.04	\$194,141.11	0.20339	23.52
14.5 - 15.5	\$658,224.47	\$111,608.40	0.16956	18.74
15.5 - 16.5	\$509,030.59	\$37,133.32	0.07295	15.56
16.5 - 17.5	\$421,651.00	\$79,139.54	0.18769	14.43
17.5 - 18.5	\$310,648.76	\$77,605.07	0.24982	11.72
18.5 - 19.5	\$235,504.23	\$65,557.92	0.27837	8.79
19.5 - 20.5	\$177,310.98	\$41,484.62	0.23397	6.34
20.5 - 21.5	\$135,826.36	\$49,242.25	0.36254	4.86
21.5 - 22.5	\$106,601.89	\$8,197.28	0.07690	3.10
22.5 - 23.5	\$81,318.74	\$20,017.78	0.24616	2.86
23.5 - 24.5	\$57,068.97	\$46,857.23	0.82106	2.16
24.5 - 25.5	\$10,211.74	\$773.58	0.07575	0.39
25.5 - 26.5	\$15,819.02	\$928.98	0.05873	0.36
26.5 - 27.5	\$14,890.04	\$0.00	0.00000	0.34
27.5 - 28.5	\$14,890.04	\$0.00	0.00000	0.34
28.5 - 29.5	\$14,890.04	\$6,591.09	0.44265	0.34
29.5 - 30.5	\$13,241.50	\$0.00	0.00000	0.19
30.5 - 31.5	\$13,241.50	\$1,112.09	0.08399	0.19
31.5 - 32.5	\$12,129.41	\$0.00	0.00000	0.17
32.5 - 33.5	\$12,129.41	\$806.00	0.06645	0.17
33.5 - 34.5	\$11,323.41	\$0.00	0.00000	0.16
34.5 - 35.5	\$11,323.41	\$0.00	0.00000	0.16

Montana-Dakota Utilities Company
Electric Plant

392.20 Transportation Equipment

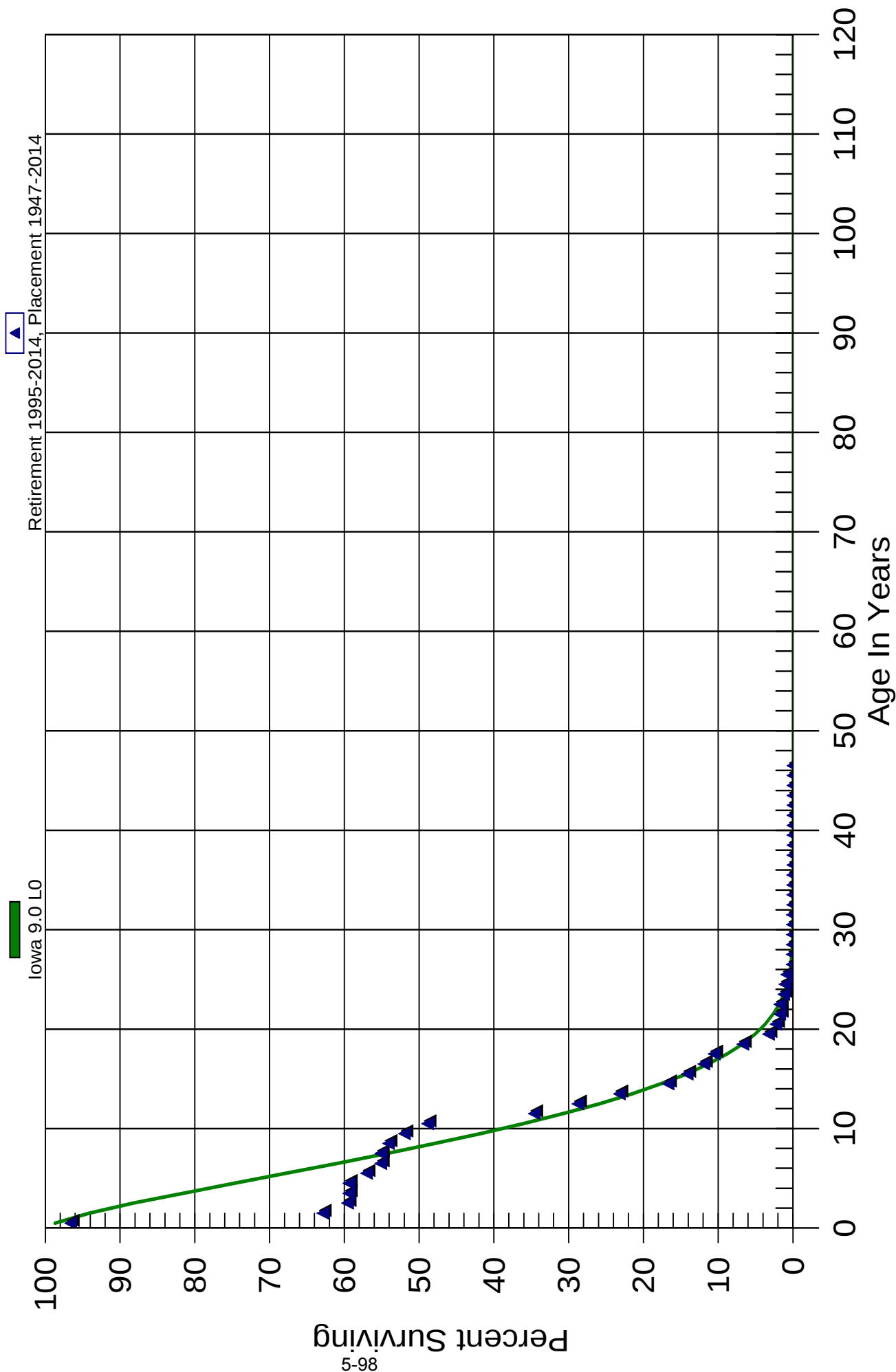
Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1965 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$11,323.41	\$0.00	0.00000	0.16
36.5 - 37.5	\$11,323.41	\$0.00	0.00000	0.16
37.5 - 38.5	\$11,323.41	\$0.00	0.00000	0.16
38.5 - 39.5	\$11,323.41	\$0.00	0.00000	0.16
39.5 - 40.5	\$11,323.41	\$0.00	0.00000	0.16
40.5 - 41.5	\$11,323.41	\$6,380.86	0.56351	0.16
41.5 - 42.5	\$4,942.55	\$2,497.51	0.50531	0.07
42.5 - 43.5	\$2,445.04	\$0.00	0.00000	0.03
43.5 - 44.5	\$2,445.04	\$0.00	0.00000	0.03
44.5 - 45.5	\$2,445.04	\$0.00	0.00000	0.03
45.5 - 46.5	\$2,445.04	\$0.00	0.00000	0.03
46.5 - 47.5	\$2,445.04	\$0.00	0.00000	0.03

Montana-Dakota Utilities Company
Electric Plant
396.20 Power Operated Equipment
Original And Smooth Survivor Curves



Montana-Dakota Utilities Company
Electric Plant

396.20 Power Operated Equipment

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1947 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
0.0 - 0.5	\$2,533,365.44	\$85,920.22	0.03392	100.00
0.5 - 1.5	\$3,199,949.64	\$1,116,610.86	0.34895	96.61
1.5 - 2.5	\$2,546,013.16	\$134,760.07	0.05293	62.90
2.5 - 3.5	\$2,455,208.23	\$7,085.87	0.00289	59.57
3.5 - 4.5	\$2,863,332.31	\$0.00	0.00000	59.40
4.5 - 5.5	\$3,001,680.26	\$118,793.90	0.03958	59.40
5.5 - 6.5	\$3,140,769.55	\$105,475.80	0.03358	57.05
6.5 - 7.5	\$3,130,876.86	\$0.00	0.00000	55.13
7.5 - 8.5	\$3,529,538.58	\$66,265.92	0.01877	55.13
8.5 - 9.5	\$3,424,482.40	\$135,707.79	0.03963	54.09
9.5 - 10.5	\$3,621,444.21	\$213,431.72	0.05894	51.95
10.5 - 11.5	\$3,487,391.63	\$1,018,462.35	0.29204	48.89
11.5 - 12.5	\$2,860,308.26	\$483,227.42	0.16894	34.61
12.5 - 13.5	\$2,695,838.64	\$518,465.00	0.19232	28.76
13.5 - 14.5	\$2,311,322.57	\$650,541.62	0.28146	23.23
14.5 - 15.5	\$1,756,861.31	\$269,556.41	0.15343	16.69
15.5 - 16.5	\$1,495,406.09	\$234,451.52	0.15678	14.13
16.5 - 17.5	\$1,282,837.97	\$148,196.18	0.11552	11.92
17.5 - 18.5	\$1,177,095.00	\$427,821.81	0.36346	10.54
18.5 - 19.5	\$749,273.19	\$384,320.23	0.51292	6.71
19.5 - 20.5	\$471,526.71	\$143,489.45	0.30431	3.27
20.5 - 21.5	\$341,754.75	\$76,278.31	0.22320	2.27
21.5 - 22.5	\$245,458.66	\$0.00	0.00000	1.77
22.5 - 23.5	\$247,164.45	\$75,844.97	0.30686	1.77
23.5 - 24.5	\$172,049.08	\$20,899.79	0.12148	1.22
24.5 - 25.5	\$163,077.34	\$35,237.36	0.21608	1.08
25.5 - 26.5	\$127,839.98	\$114,678.51	0.89705	0.84
26.5 - 27.5	\$13,161.47	\$0.00	0.00000	0.09
27.5 - 28.5	\$23,848.17	\$0.00	0.00000	0.09
28.5 - 29.5	\$23,848.17	\$874.32	0.03666	0.09
29.5 - 30.5	\$33,286.57	\$0.00	0.00000	0.08
30.5 - 31.5	\$34,526.46	\$0.00	0.00000	0.08
31.5 - 32.5	\$34,526.46	\$11,928.05	0.34548	0.08
32.5 - 33.5	\$28,597.03	\$359.10	0.01256	0.05
33.5 - 34.5	\$33,598.45	\$1,087.20	0.03236	0.05
34.5 - 35.5	\$32,511.25	\$5,998.62	0.18451	0.05

Montana-Dakota Utilities Company
Electric Plant

396.20 Power Operated Equipment

Observed Life Table

Retirement Expr. 1995 TO 2014

Placement Years 1947 TO 2014

Age Interval	\$ Surviving At Beginning of Age Interval	\$ Retired During The Age Interval	Retirement Ratio	% Surviving At Beginning of Age Interval
35.5 - 36.5	\$26,512.63	\$9,592.77	0.36182	0.04
36.5 - 37.5	\$19,835.86	\$0.00	0.00000	0.03
37.5 - 38.5	\$19,835.86	\$11,559.34	0.58275	0.03
38.5 - 39.5	\$9,476.52	\$0.00	0.00000	0.01
39.5 - 40.5	\$13,320.37	\$0.00	0.00000	0.01
40.5 - 41.5	\$13,320.37	\$0.00	0.00000	0.01
41.5 - 42.5	\$13,320.37	\$4,116.00	0.30900	0.01
42.5 - 43.5	\$9,204.37	\$0.00	0.00000	0.01
43.5 - 44.5	\$9,204.37	\$0.00	0.00000	0.01
44.5 - 45.5	\$9,204.37	\$3,843.85	0.41761	0.01
45.5 - 46.5	\$5,360.52	\$0.00	0.00000	0.00