

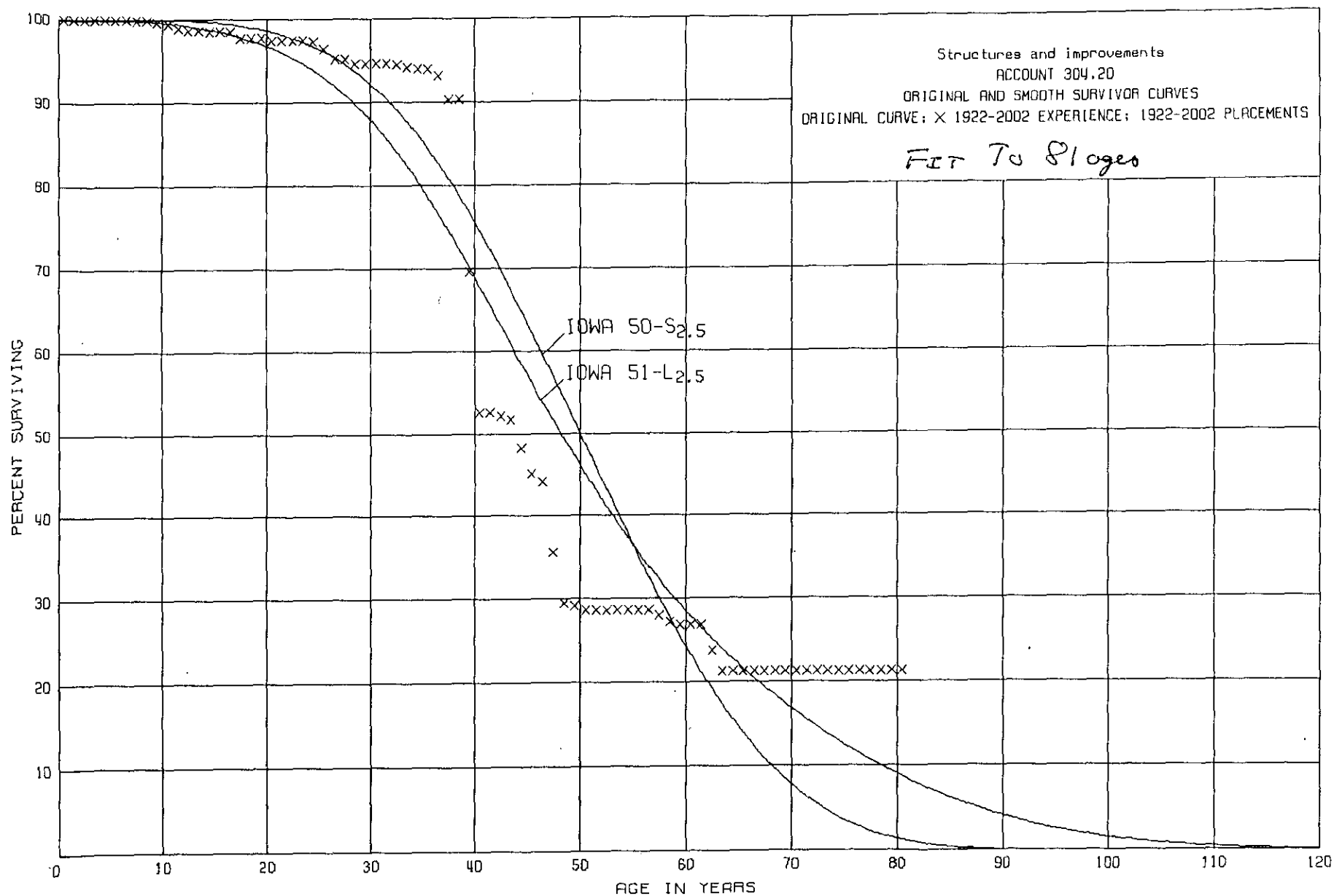
Depreciation Study Service Life Statistics

Missouri-American Water Company –
St. Louis District

Account 311

(MAWC Account 304.20)

Structures and Improvements – Source of Supply



Structures and improvements

ACCOUNT 304.20

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1922-2002

EXPERIENCE BAND 1922-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
72.9-S0	11.10	0 - 46	NOT FITTED		
64.4-S0.5	10.40	0 - 46	NOT FITTED		
57.9-S1	9.47	0 - 46	NOT FITTED		
53.7-S1.5	8.68	0 - 46	NOT FITTED		
50.3-S2	7.72	0 - 46	NOT FITTED		
48.1-S2.5	6.91	0 - 46	NOT FITTED		
46.3-S3	6.08	0 - 46	NOT FITTED		
43.5-S4	4.75	0 - 46	NOT FITTED		
42.2-S5	5.54	0 - 46	NOT FITTED		
41.7-S6	8.39	0 - 46	NOT FITTED		
97.0-R0.5	12.56	0 - 46	NOT FITTED		
78.1-R1	12.13	0 - 46	NOT FITTED		
66.0-R1.5	11.46	0 - 46	NOT FITTED		
57.2-R2	10.36	0 - 46	NOT FITTED		
51.9-R2.5	9.30	0 - 46	NOT FITTED		
48.1-R3	7.93	0 - 46	NOT FITTED		
44.3-R4	5.78	0 - 46	NOT FITTED		
42.3-R5	4.90	0 - 46	NOT FITTED		
101.4-L0	11.86	0 - 46	NOT FITTED		
85.2-L0.5	11.29	0 - 46	NOT FITTED		
73.1-L1	10.38	0 - 46	NOT FITTED		
64.6-L1.5	9.65	0 - 46	NOT FITTED		
58.2-L2	8.50	0 - 46	NOT FITTED		
53.8-L2.5	7.72	0 - 46	NOT FITTED		
50.3-L3	6.57	0 - 46	NOT FITTED		
45.4-L4	4.94	0 - 46	NOT FITTED		
43.2-L5	4.68	0 - 46	NOT FITTED		
119.3-O1	12.76	0 - 46	NOT FITTED		
134.2-O2	12.76	0 - 46	NOT FITTED		
195.3-O3	12.80	0 - 46	NOT FITTED		

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

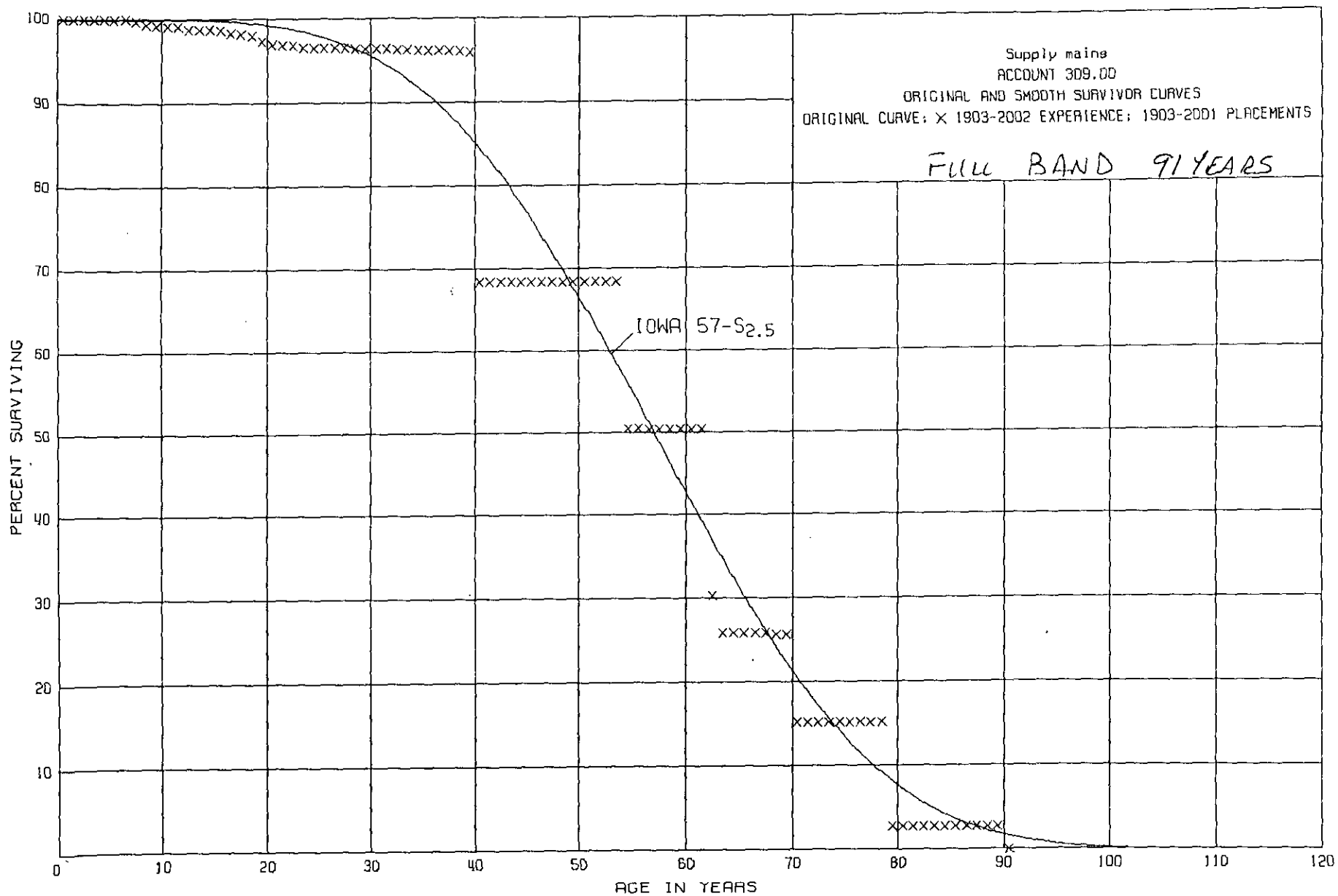
Account 316

(MAWC Account 309.00)

Supply Mains

ITEMS

- Air Chambers
- Blow-offs and Overflows
- Bridges and Culverts
- Canals
- Electrolysis Control Equipment
- Gauges and Recorders
- Jointing and Jointing Materials
- Manholes
- Meters and Meter Houses
- Municipal Inspection or Permits
- Pavement Disturbed
- Pipes, Aqueducts or Conduits
- Placing Mains and Accessories
- Pressure Regulators
- Protection of Street Openings
- Shut-offs
- Special Castings
- Sterilizing New Mains
- Surge Tanks
- Trenching
- Tunnels
- Valves and Appurtenances
- Valve Vaults



ACCOUNT 309.00

PLACEMENT BAND 1903-2001

EXPERIENCE BAND 1903-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
82.2-S0	7.65	0 - 55	NOT FITTED		
73.3-S0.5	6.97	0 - 55	NOT FITTED		
66.5-S1	6.16	0 - 55	NOT FITTED		
62.0-S1.5	5.65	0 - 55	NOT FITTED		
58.4-S2	5.27	0 - 55	NOT FITTED		
56.0-S2.5	5.32	0 - 55	NOT FITTED		
54.0-S3	5.77	0 - 55	NOT FITTED		
106.2-R0.5	9.27	0 - 55	NOT FITTED		
86.6-R1	8.77	0 - 55	NOT FITTED		
74.1-R1.5	8.04	0 - 55	NOT FITTED		
65.2-R2	6.99	0 - 55	NOT FITTED		
59.7-R2.5	6.17	0 - 55	NOT FITTED		
55.7-R3	5.53	0 - 55	NOT FITTED		
51.8-R4	6.29	0 - 55	NOT FITTED		
49.9-R5	10.37	0 - 55	NOT FITTED		
112.8-L0	8.48	0 - 55	NOT FITTED		
95.8-L0.5	7.85	0 - 55	NOT FITTED		
83.1-L1	6.93	0 - 55	NOT FITTED		
74.0-L1.5	6.30	0 - 55	NOT FITTED		
67.1-L2	5.49	0 - 55	NOT FITTED		
62.4-L2.5	5.29	0 - 55	NOT FITTED		
58.6-L3	5.37	0 - 55	NOT FITTED		
53.2-L4	7.17	0 - 55	NOT FITTED		
129.8-O1	9.51	0 - 55	NOT FITTED		
145.9-O2	9.51	0 - 55	NOT FITTED		
212.0-O3	9.57	0 - 55	NOT FITTED		

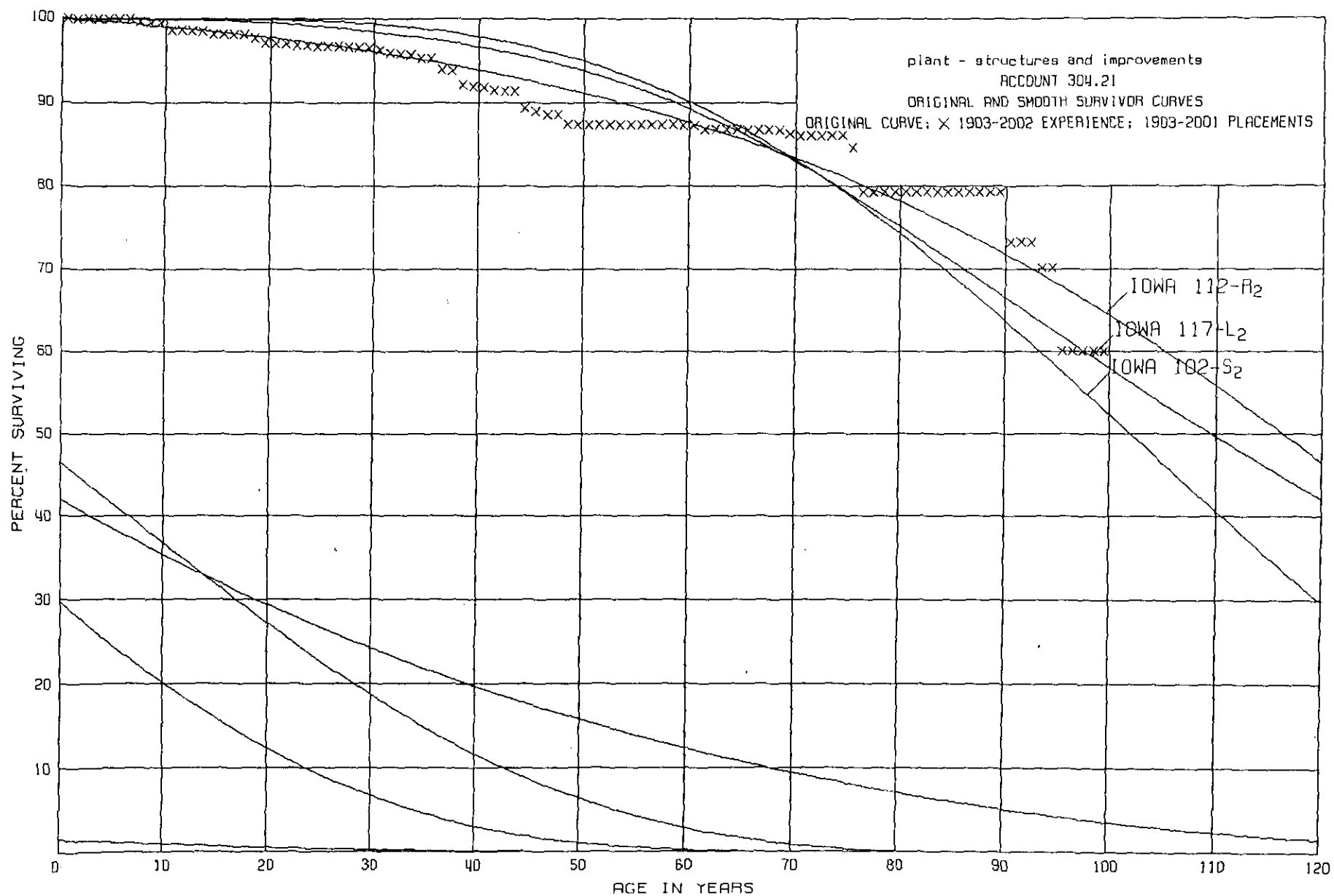
Total Band
91 years

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

Account 321

(MAWC Account 304.21&304.22)

Structures and Improvements – Pumping Plant



plant - structures and improvements

ACCOUNT 304.21

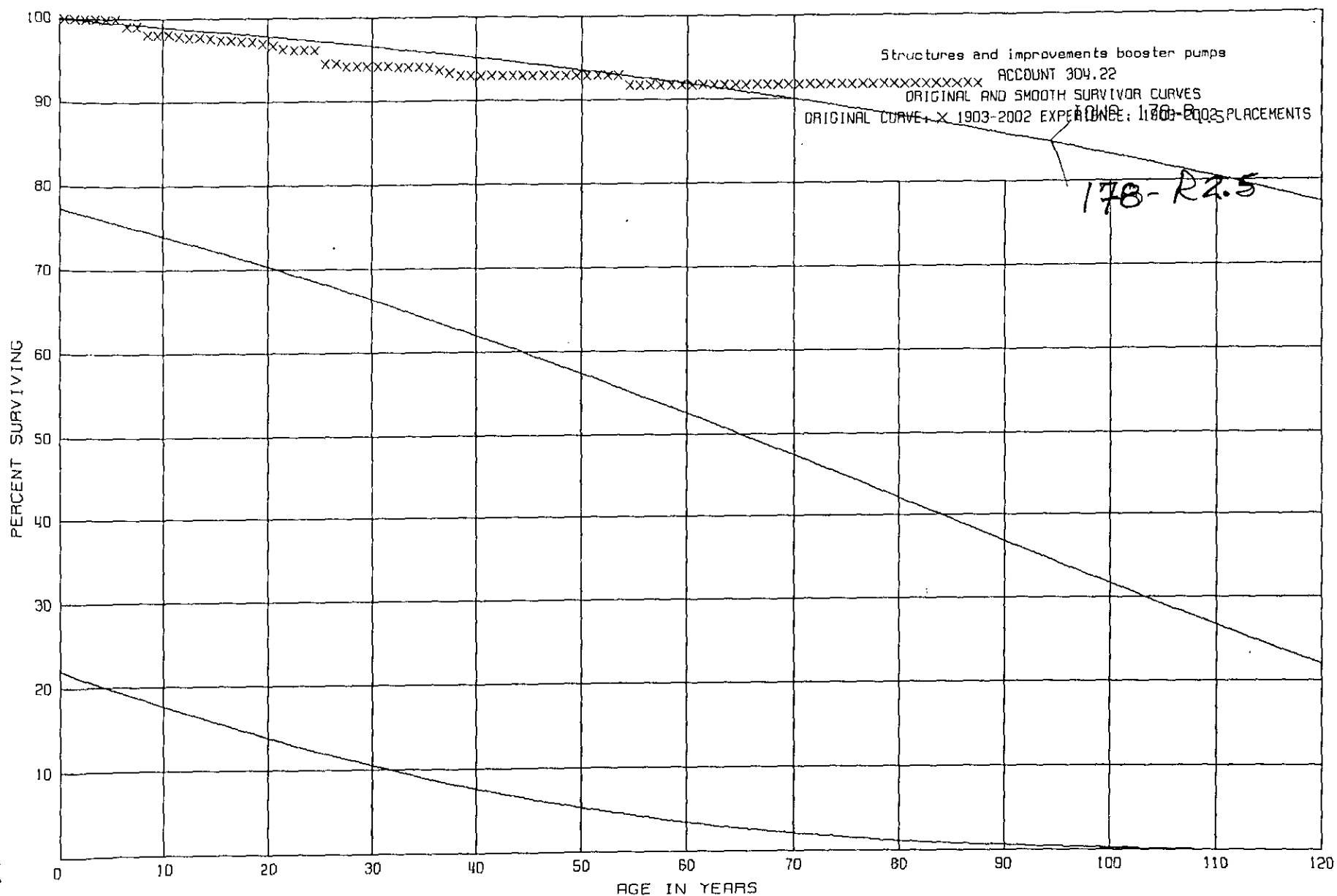
SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1903-2001

EXPERIENCE BAND 1903-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
140.0-S0	1.48	0 - 72			
120.1-S0.5	1.98	0 - 72			
104.6-S1	2.95	0 - 72			
208.0-R0.5	1.44	0 - 72			
161.5-R1	1.32	0 - 72			
130.5-R1.5	1.31	0 - 72			
107.2-R2	1.73	0 - 72			
93.9-R2.5	2.49	0 - 72			
203.8-L0	1.17	0 - 72			
165.6-L0.5	1.36	0 - 72			
136.0-L1	2.06	0 - 72			
260.6-O1	1.51	0 - 72			
293.0-O2	1.50	0 - 72			
320.0-O3	= STOP	FITTING			
320.0-O4	= STOP	FITTING			

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



Structures and improvements booster pumps

ACCOUNT 304.22

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1903-2002

EXPERIENCE BAND 1903-2002

SURVIVOR RESID RANGE OF
CURVE MEAS FIT

SURVIVOR RESID RANGE OF
CURVE MEAS FIT*

NOT FITTED

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

May years 88

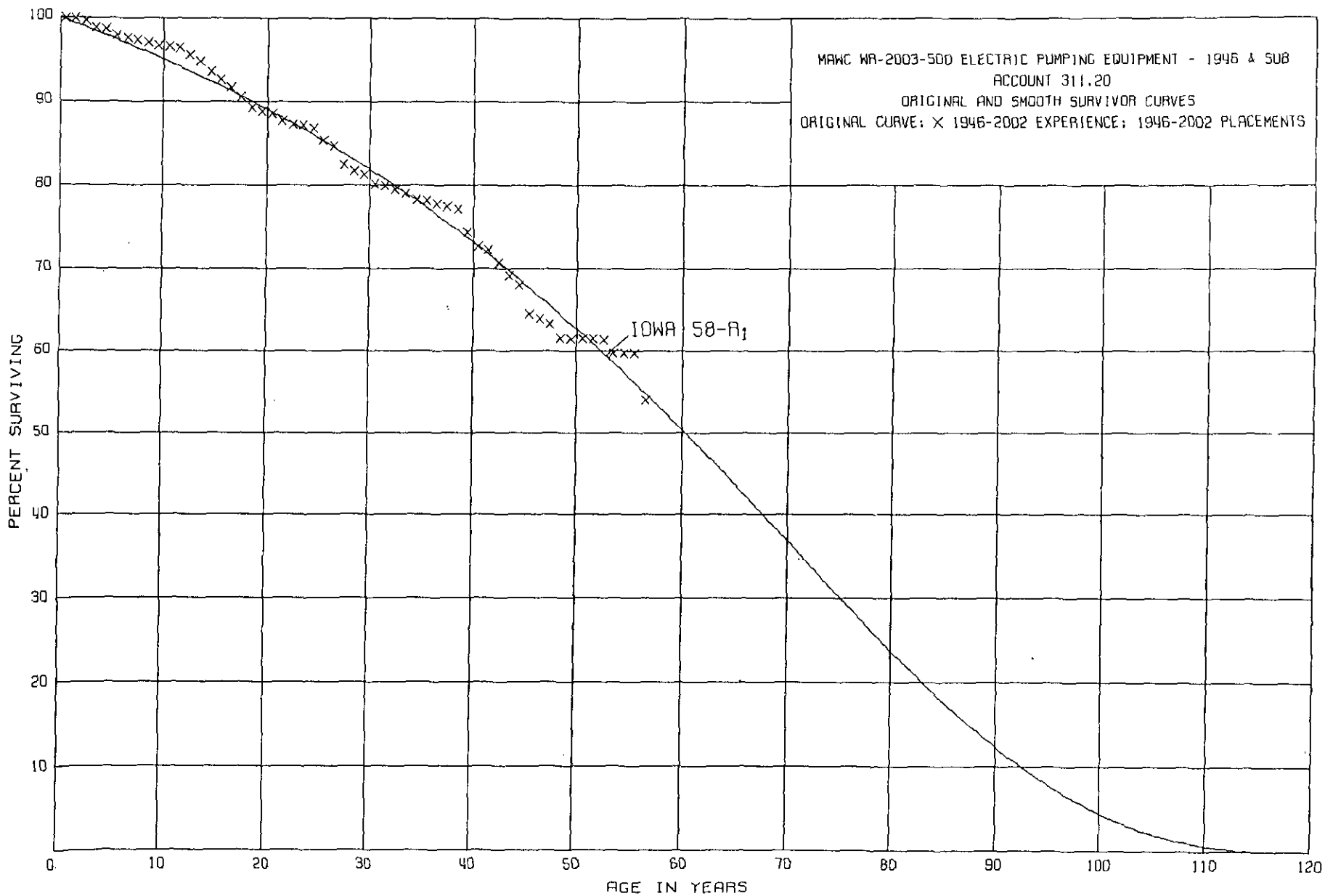
Account 325

(MAWC Account 311.10-311.30)

Electric Pumping Equipment

ITEMS

- Motors for Driving Pumps
- Pumps, including setting, gearing, shafting and belting
- Water Piping within Station, including valves
- Auxiliary Equipment for Motors and Pumps
- Electric Power Lines and Switching
- Regulating, Recording and Measuring Devices
- Foundations, Frames and Bed Plates
- Ladders, Stairs and Platforms



MAWC WR-2003-500 ELECTRIC PUMPING EQUIPMENT - 1946 & SUB

ACCOUNT 311.20

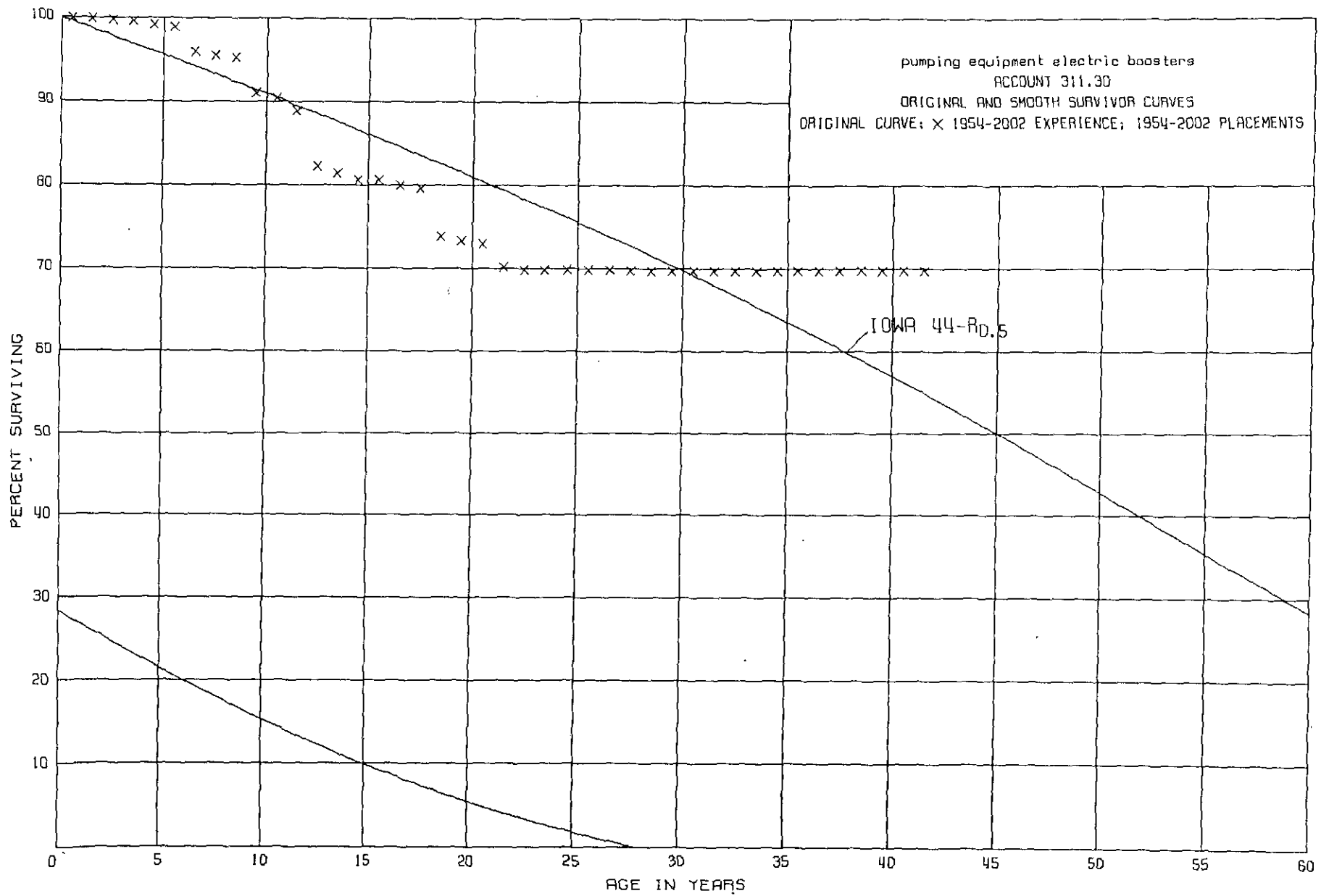
SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1946-2002

EXPERIENCE BAND 1946-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
58.3-S0	1.48	0 - 50	59.6-S0	1.50	26 - 50
53.9-S0.5	2.63	0 - 50	56.0-S0.5	2.07	26 - 50
50.5-S1	4.36	0 - 50	53.4-S1	3.24	26 - 50
67.5-R0.5	2.29	0 - 50	64.0-R0.5	2.09	26 - 50
58.2-R1	1.29	0 - 50	57.2-R1	1.35	26 - 50
52.7-R1.5	1.41	0 - 50	53.2-R1.5	1.58	26 - 50
48.8-R2	3.27	0 - 50	50.4-R2	2.98	26 - 50
75.5-L0	1.51	0 - 50	NOT FITTED		
66.9-L0.5	1.32	0 - 50	67.9-L0.5	1.58	26 - 50
60.5-L1	2.48	0 - 50	63.1-L1	1.95	26 - 50
55.7-L1.5	3.83	0 - 50	58.6-L1.5	3.01	26 - 50
79.6-O1	2.91	0 - 50	NOT FITTED		
89.6-O2	2.91	0 - 50	NOT FITTED		
128.5-O3	3.12	0 - 50	NOT FITTED		

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



pumping equipment electric boosters

ACCOUNT 311.30

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1954-2002

EXPERIENCE BAND 1954-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
40.6-S0	8.84	0 - 42			NOT FITTED
38.5-S0.5	10.70	0 - 42			NOT FITTED
36.9-S1	12.78	0 - 42			NOT FITTED
44.2-R0.5	6.22	0 - 42			NOT FITTED
39.9-R1	7.98	0 - 42			NOT FITTED
37.5-R1.5	10.11	0 - 42			NOT FITTED
50.2-L0	6.52	0 - 42			NOT FITTED
45.9-L0.5	8.00	0 - 42			NOT FITTED
42.6-L1	9.72	0 - 42			NOT FITTED
50.2-O1	5.18	0 - 42			NOT FITTED
56.5-O2	5.17	0 - 42			NOT FITTED
79.7-O3	4.77	0 - 42			NOT FITTED
106.0-O4	4.58	0 - 42			NOT FITTED

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

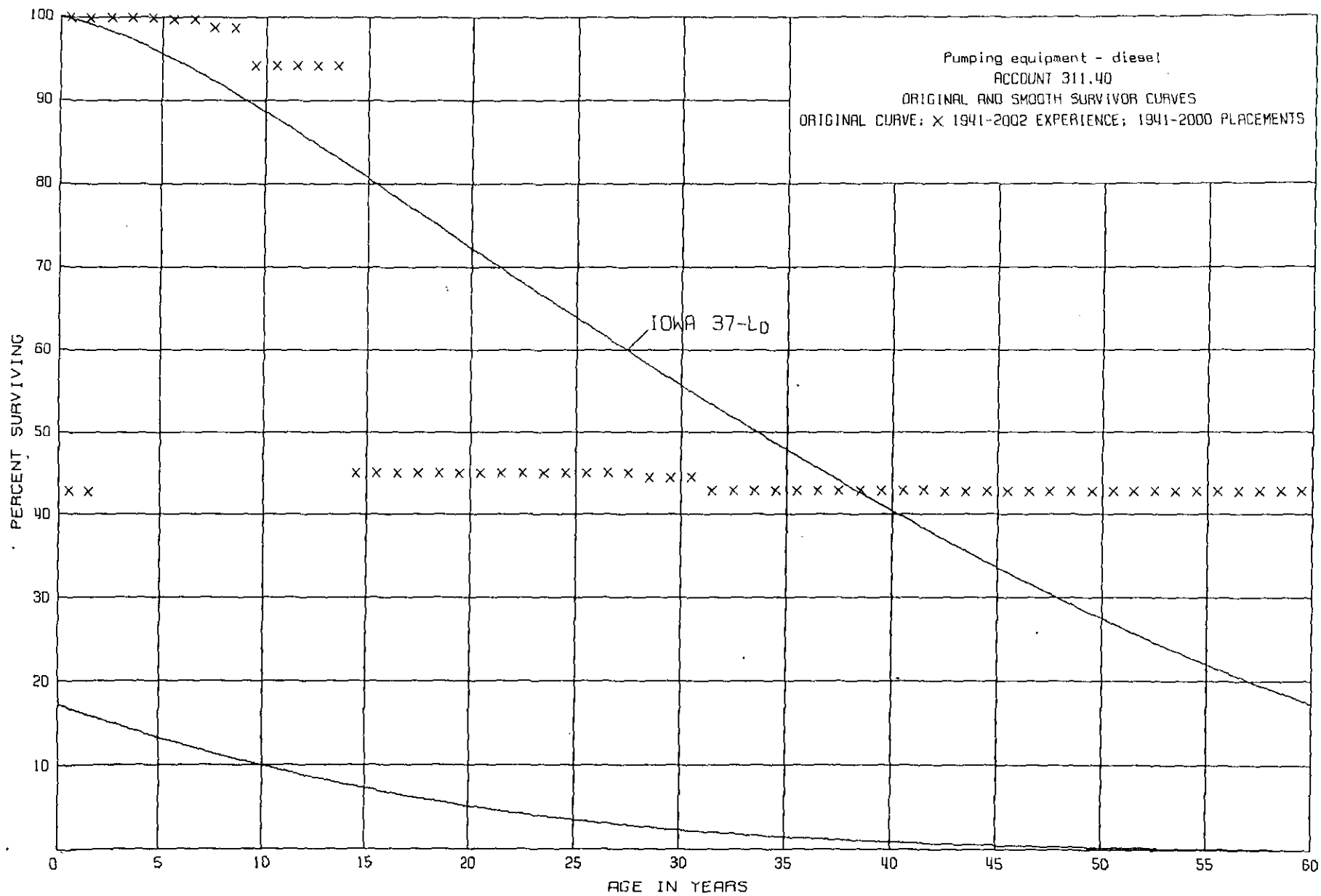
Account 326

(MAWC Account 311.40)

Diesel Pumping Equipment

ITEMS

- Engines for Driving Pumps
- Pumps, including setting, gearing, shafting and belting
- Water Piping within Station, including valves
- Auxiliary Equipment for Engines and Pumps
- Oil Supply Lines and Accessories
- Regulating, Recording and Measuring Devices
- Foundations, Frames and Bed Plates
- Ladders, Stairs and Platforms



Pumping equipment - diesel

ACCOUNT 311.40

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1941-2000

EXPERIENCE BAND 1941-2002

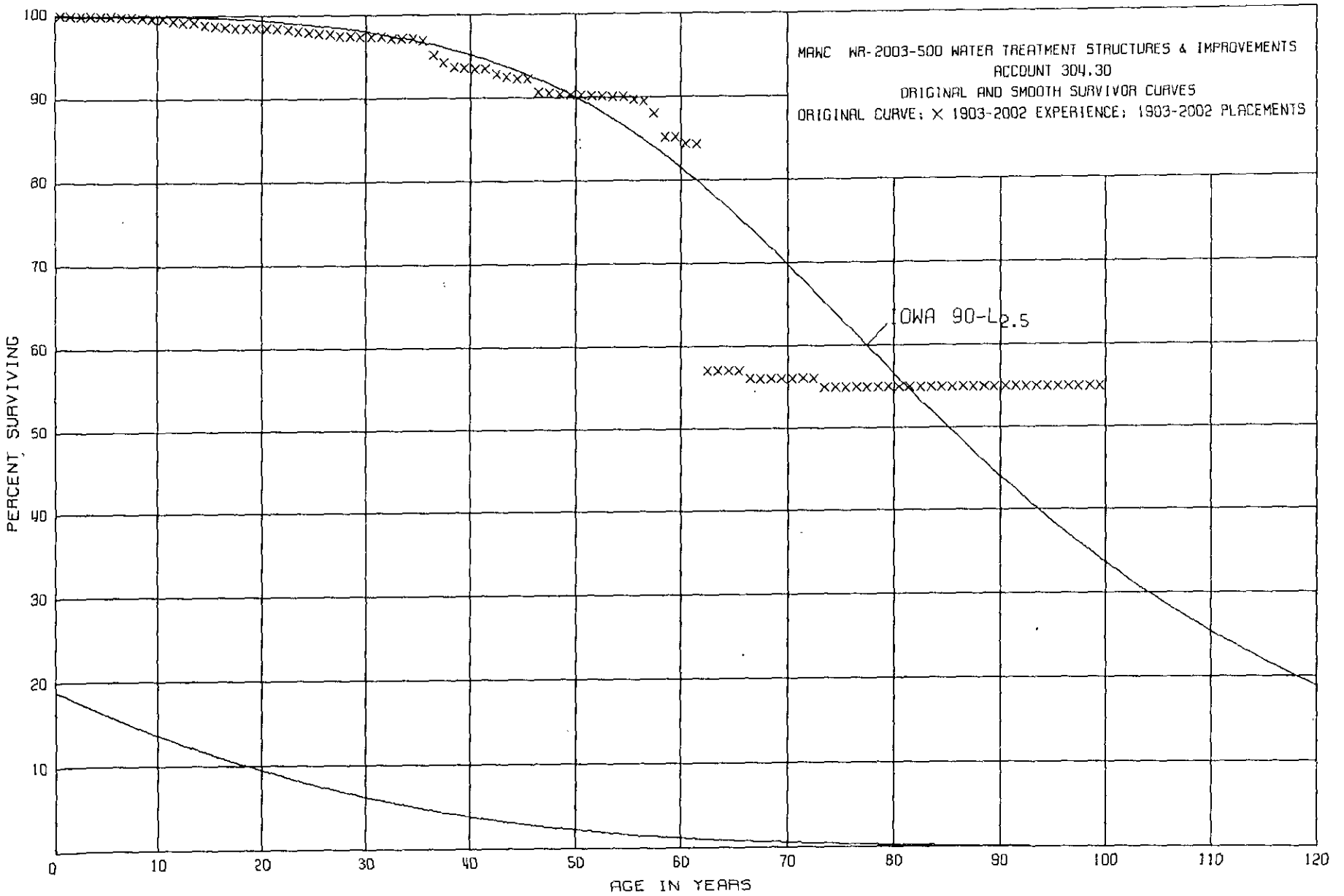
SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
29.3-S0	18.48	0 - 49			NOT FITTED
29.2-S0.5	20.38	0 - 49			NOT FITTED
29.1-S1	22.35	0 - 49			NOT FITTED
29.6-R0.5	17.18	0 - 49			NOT FITTED
29.2-R1	19.82	0 - 49			NOT FITTED
29.1-R1.5	22.08	0 - 49			NOT FITTED
31.8-L0	14.59	0 - 49			NOT FITTED
30.9-L0.5	15.80	0 - 49			NOT FITTED
30.2-L1	17.16	0 - 49			NOT FITTED
30.0-O1	14.87	0 - 49			NOT FITTED
33.4-O2	14.40	0 - 49			NOT FITTED
41.8-O3	12.45	0 - 49			NOT FITTED
52.1-O4	11.89	0 - 49			NOT FITTED

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

Account 331

(MAWC Account 304.30)

Structures and Improvements – Water Treatment



MAWC WR-2003-500 WATER TREATMENT STRUCTURES & IMPROVEMENTS

ACCOUNT 304.30

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1903-2002

EXPERIENCE BAND 1903-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
135.3-S0	5.01	0 - 64			
114.7-S0.5	4.74	0 - 64			
98.5-S1	4.39	0 - 64			
88.9-S1.5	4.19	0 - 64			
80.9-S2	4.10	0 - 64			
76.0-S2.5	4.09	0 - 64			
71.8-S3	4.37	0 - 64			
65.6-S4	5.53	0 - 64			
211.0-R0.5	5.79	0 - 64			
161.7-R1	5.64	0 - 64			
128.6-R1.5	5.41	0 - 64			
103.1-R2	4.93	0 - 64			
88.9-R2.5	4.51	0 - 64			
78.3-R3	4.04	0 - 64			
68.4-R4	4.03	0 - 64			
63.0-R5	5.87	0 - 64			
200.8-L0	5.36	0 - 64			
161.1-L0.5	5.14	0 - 64			
129.8-L1	4.70	0 - 64			
111.1-L1.5	4.46	0 - 64			
95.7-L2	4.12	0 - 64			
86.8-L2.5	4.00	0 - 64			
79.1-L3	4.02	0 - 64			
69.2-L4	4.42	0 - 64			
266.1-O1	5.86	0 - 64			
299.2-O2	5.86	0 - 64			
320.0-O3	= STOP	FITTING			
320.0-O4	= STOP	FITTING			

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

Account 332

(MAWC Account 320.00)

Water Treatment Equipment

ITEMS

AERATORS

- Air Compressors
- Piping System, including valves
- Spray Nozzles
- Substructures

CHEMICAL TREATING PLANT

- Agitating Equipment
- Ammonia Machines
- Carbonating Equipment
- Chemical Manufacturing Plants
- Chemical Pumps
- Chemical Handling Equipment
- Chlorine Machines
- Coke
- Dry Feed Machines
- Dry Storage Bins
- Electrolytic Cell
- Elevator
- Fluoridation Equipment
- Gauges

- Gravity Feed or Pump Feed Apparatus
- Motors
- Piping System, including valves
- Rate Controllers
- Sludge Pumps

- Softening Equipment
- Solution Feed Equipment
- Solution Tanks
- Switchboards
- Weighting Equipment

CLEAR WATER BASIN

- Basin
- Gauges
- Piping System, including valves
- Substructures

FILTER PLANT

- Air Blower and Compressor
- Filters
- Gauges
- Piping System
- Rate Controllers

- Sand, Gravel or Other Filter Media
- Substructures
- Surface Work Equipment
- Valve Control Tables
- Valve Operating Mechanism
- Valves

- Wash Troughs
- Wash Water Pumps
- Wash Water Tanks

MIXING CHAMBERS

- Piping System, including valves
- Chambers
- Mechanical Mixers

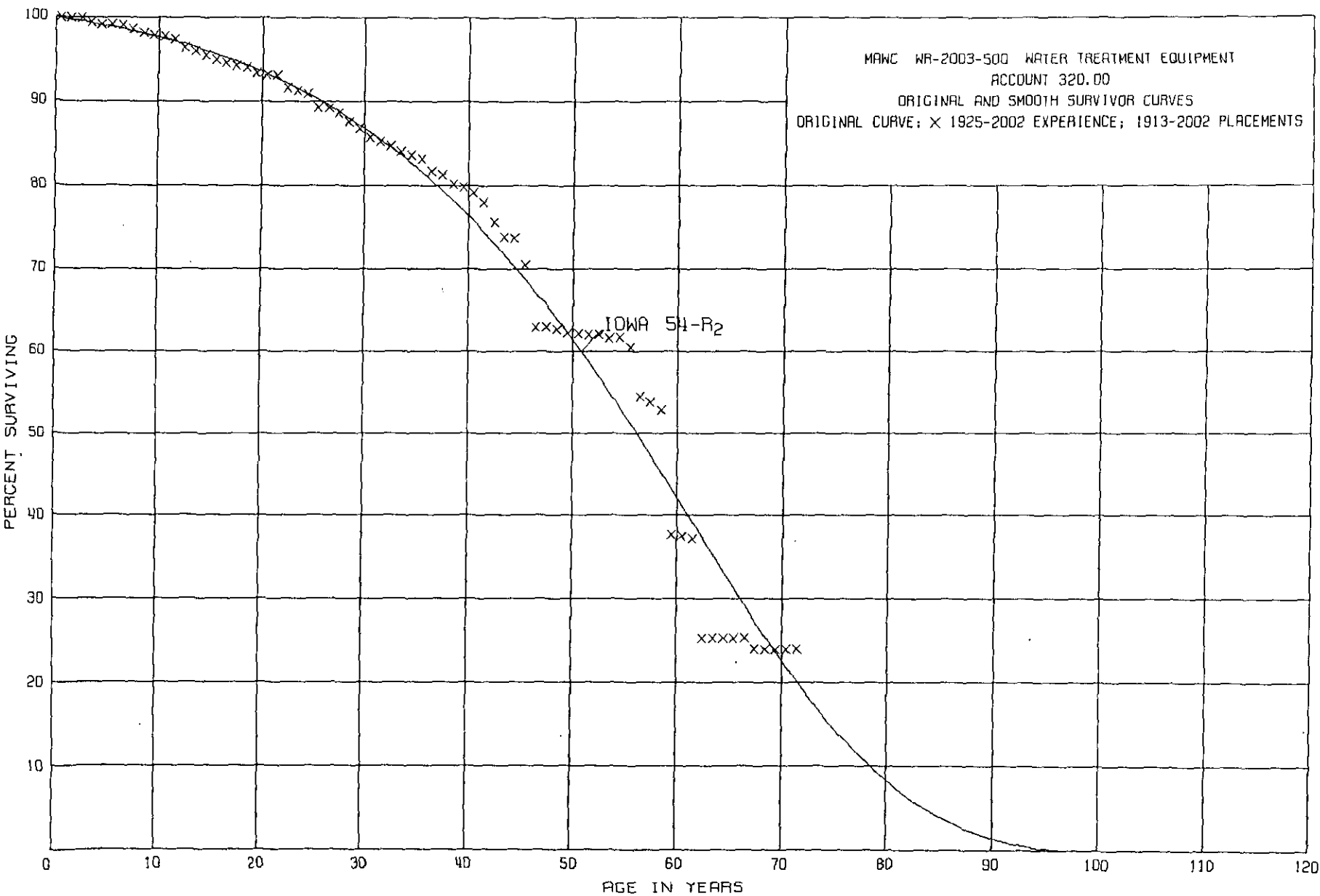
SEDIMENTATION OR COAGULATION BASIN

- Basins
- Coagulant Storage Tanks
- Feeder Equipment
- Industrial Railroad
- Mechanical Mixers
- Orifice Devices
- Piping System, including valves

- Screens and Hoists
- Sludge Removal Apparatus

SOFTENING PLANT

- Carbonating Chambers and Equipment
- Clear Water Basins
- Gauges
- Gravel
- Meters
- Mixing Tanks and Chambers
- Permanent Chemical Softening Agents
- Piping System, including valves
- Salt Solution or Brine Tanks and Appurtenances
- Salt Solution Pumps
- Salt Storage Bins
- Sedimentation or Coagulation Basis
- Substructures
- Underdrain Systems
- Wash Water Controllers



MAWC WR-2003-500 WATER TREATMENT EQUIPMENT

ACCOUNT 320.00

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1913-2002

EXPERIENCE BAND 1925-2002

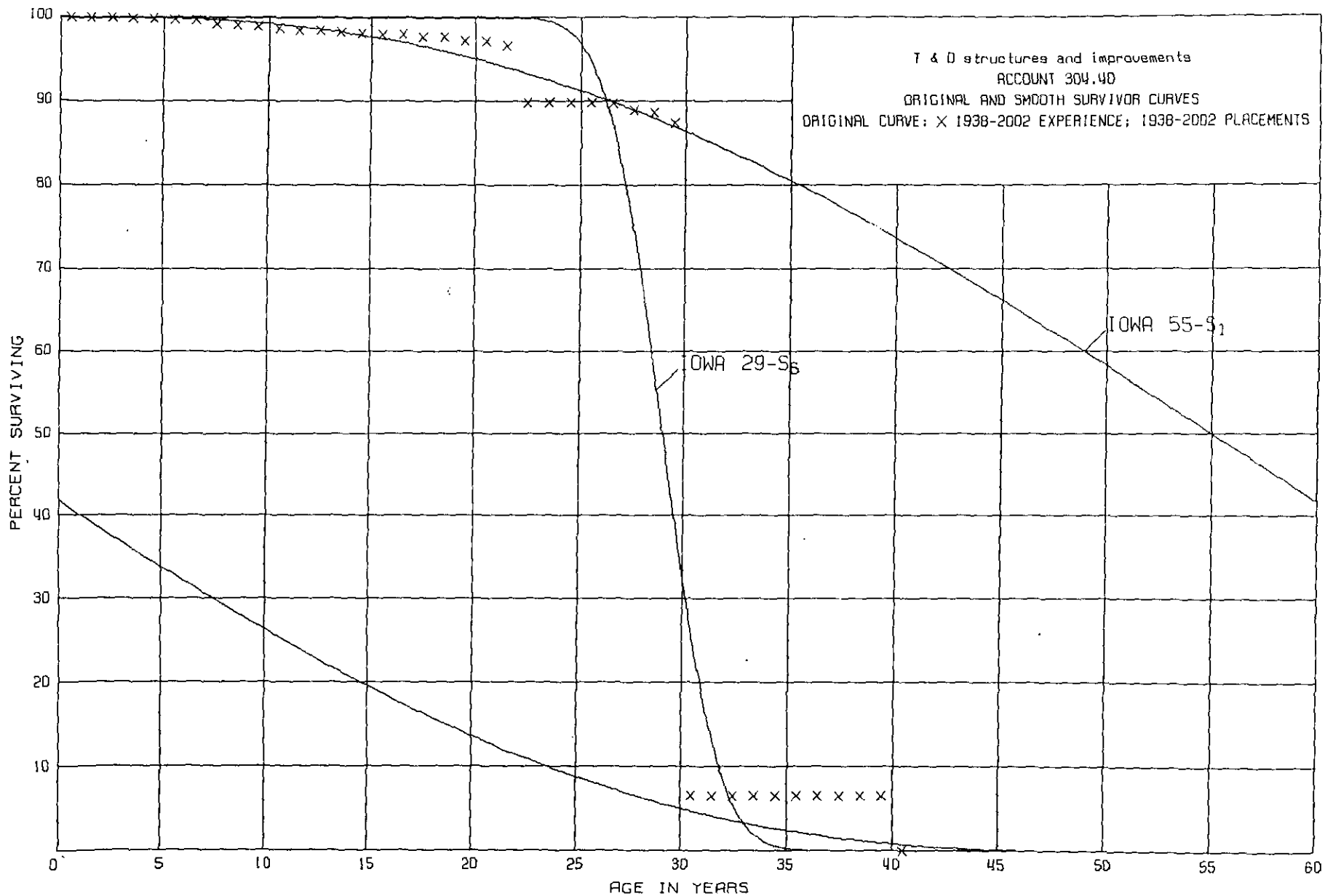
SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
66.8-S0	2.31	0 - 53		NOT FITTED	
61.0-S0.5	1.73	0 - 53		NOT FITTED	
56.7-S1	2.29	0 - 53		NOT FITTED	
53.7-S1.5	3.32	0 - 53		NOT FITTED	
79.8-R0.5	4.43	0 - 53		NOT FITTED	
67.6-R1	3.47	0 - 53		NOT FITTED	
60.2-R1.5	2.28	0 - 53		NOT FITTED	
54.9-R2	1.44	0 - 53		NOT FITTED	
51.6-R2.5	2.53	0 - 53	53.0-R2.5	2.48	32 - 53
49.2-R3	4.70	0 - 53	51.4-R3	3.80	32 - 53
88.1-L0	3.49	0 - 53		NOT FITTED	
77.1-L0.5	2.58	0 - 53		NOT FITTED	
68.8-L1	1.92	0 - 53		NOT FITTED	
62.7-L1.5	1.99	0 - 53		NOT FITTED	
58.1-L2	3.44	0 - 53		NOT FITTED	
95.3-O1	4.92	0 - 53		NOT FITTED	
107.2-O2	4.92	0 - 53		NOT FITTED	
154.6-O3	5.08	0 - 53		NOT FITTED	

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

Account 341

(MAWC Account 304.40&304.46)

**Structures and Improvements – Transmission and
Distribution**



T & D structures and improvements

ACCOUNT 304.40

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1938-2002

EXPERIENCE BAND 1938-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
60.9-S0	14.00	0 - 31			NOT FITTED
52.2-S0.5	13.71	0 - 31			NOT FITTED
45.4-S1	13.28	0 - 31			NOT FITTED
41.2-S1.5	12.94	0 - 31			NOT FITTED
37.8-S2	12.51	0 - 31			NOT FITTED
35.7-S2.5	12.17	0 - 31			NOT FITTED
33.8-S3	11.78	0 - 31			NOT FITTED
31.1-S4	11.06	0 - 31			NOT FITTED
29.8-S5	10.62	0 - 31			NOT FITTED
29.1-S6	10.89	0 - 31			NOT FITTED
91.1-R0.5	14.70	0 - 31			NOT FITTED
70.6-R1	14.55	0 - 31			NOT FITTED
56.9-R1.5	14.31	0 - 31			NOT FITTED
46.6-R2	13.84	0 - 31			NOT FITTED
40.7-R2.5	13.38	0 - 31			NOT FITTED
36.4-R3	12.73	0 - 31			NOT FITTED
32.2-R4	11.65	0 - 31			NOT FITTED
30.0-R5	10.47	0 - 31			NOT FITTED
88.9-L0	14.34	0 - 31			NOT FITTED
72.1-L0.5	14.11	0 - 31			NOT FITTED
59.1-L1	13.67	0 - 31			NOT FITTED
51.0-L1.5	13.38	0 - 31			NOT FITTED
44.4-L2	12.83	0 - 31			NOT FITTED
40.5-L2.5	12.53	0 - 31			NOT FITTED
37.2-L3	12.02	0 - 31			NOT FITTED
32.8-L4	11.18	0 - 31			NOT FITTED
30.7-L5	10.52	0 - 31			NOT FITTED
114.2-O1	14.76	0 - 31			NOT FITTED
128.4-O2	14.76	0 - 31			NOT FITTED
187.9-O3	14.78	0 - 31			NOT FITTED

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

MAWC WR-2003-500 STRUCTURES AND IMPROVEMENTS – RIVER CROSSING

ACCOUNT 304.46

NO RETIREMENTS

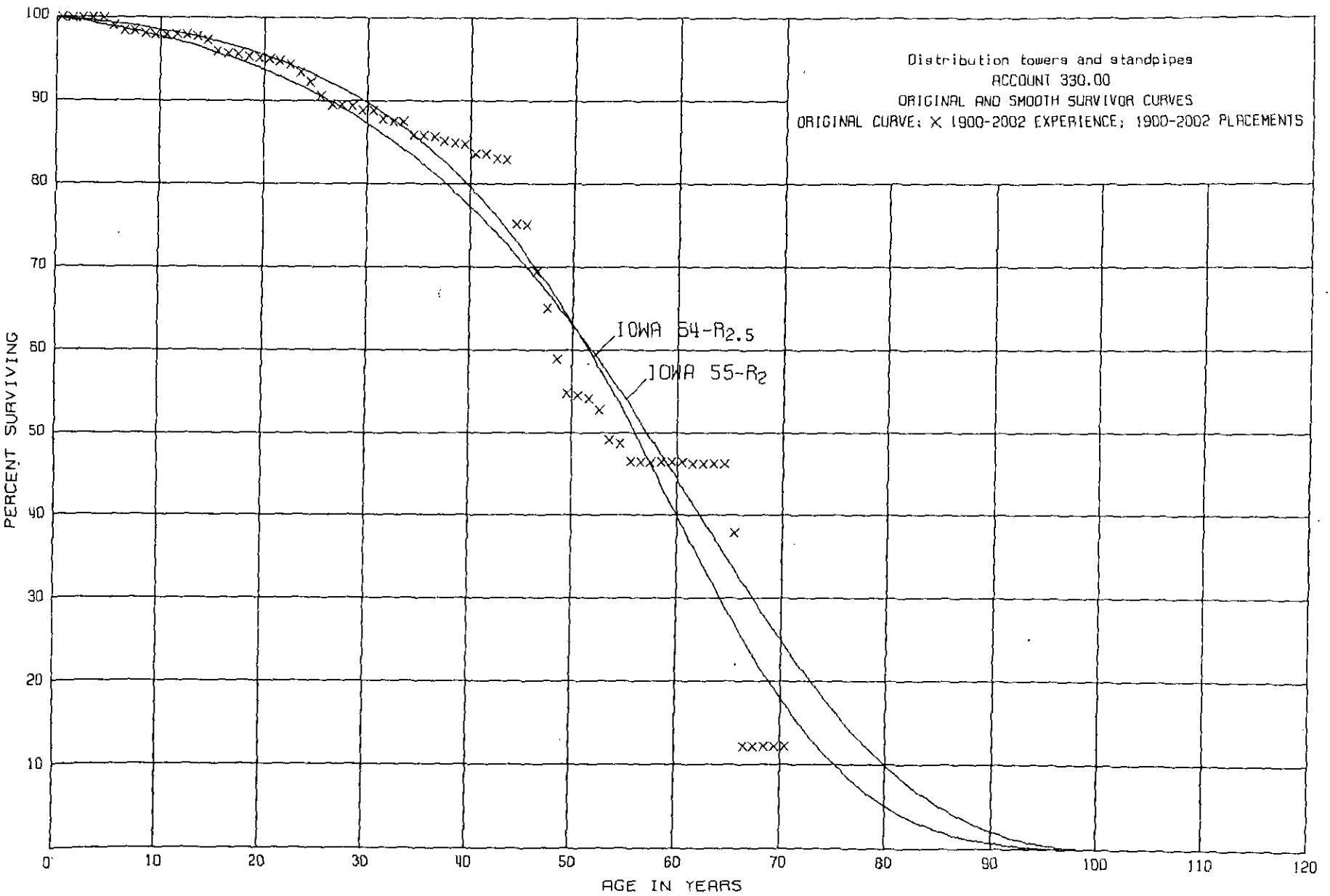
Account 342

(MAWC Account 330.00)

Distribution Reservoirs and Standpipes

ITEMS

- Aerators
- Bridges and Culverts
- Clearing Land
- Dams
- Embankments
- Fences
- Foundations
- Gates and Gate Houses
- Landscaping
- Lighting Systems
- Piping System within Reservoirs
- Retaining Walls
- Roads and Paths
- Rust-proofing Apparatus
- Sewers
- Spillways and Channels
- Standpipes
- Superstructures
- Tanks
- Towers
- Valves and Appurtenances
- Valve Vaults and Houses
- Water level Control Apparatus



Distribution towers and standpipes

ACCOUNT 330.00

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1900-2002

EXPERIENCE BAND 1900-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
76.4-S0	3.21	0 - 49	NOT FITTED		
67.7-S0.5	2.87	0 - 49	NOT FITTED		
61.0-S1	2.92	0 - 49	NOT FITTED		
56.7-S1.5	3.21	0 - 49	NOT FITTED		
100.9-R0.5	4.51	0 - 49	NOT FITTED		
81.5-R1	4.06	0 - 49	NOT FITTED		
69.1-R1.5	3.44	0 - 49	NOT FITTED		
60.2-R2	2.69	0 - 49	NOT FITTED		
54.7-R2.5	2.46	0 - 49	NOT FITTED		
50.8-R3	3.24	0 - 49	NOT FITTED		
46.9-R4	5.91	0 - 49	NOT FITTED		
105.9-L0	3.81	0 - 49	NOT FITTED		
89.3-L0.5	3.34	0 - 49	NOT FITTED		
76.8-L1	2.92	0 - 49	NOT FITTED		
68.0-L1.5	2.80	0 - 49	NOT FITTED		
61.4-L2	3.38	0 - 49	NOT FITTED		
56.9-L2.5	3.87	0 - 49	NOT FITTED		
123.8-O1	4.71	0 - 49	NOT FITTED		
139.3-O2	4.71	0 - 49	NOT FITTED		
202.6-O3	4.77	0 - 49	NOT FITTED		

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

Flages total

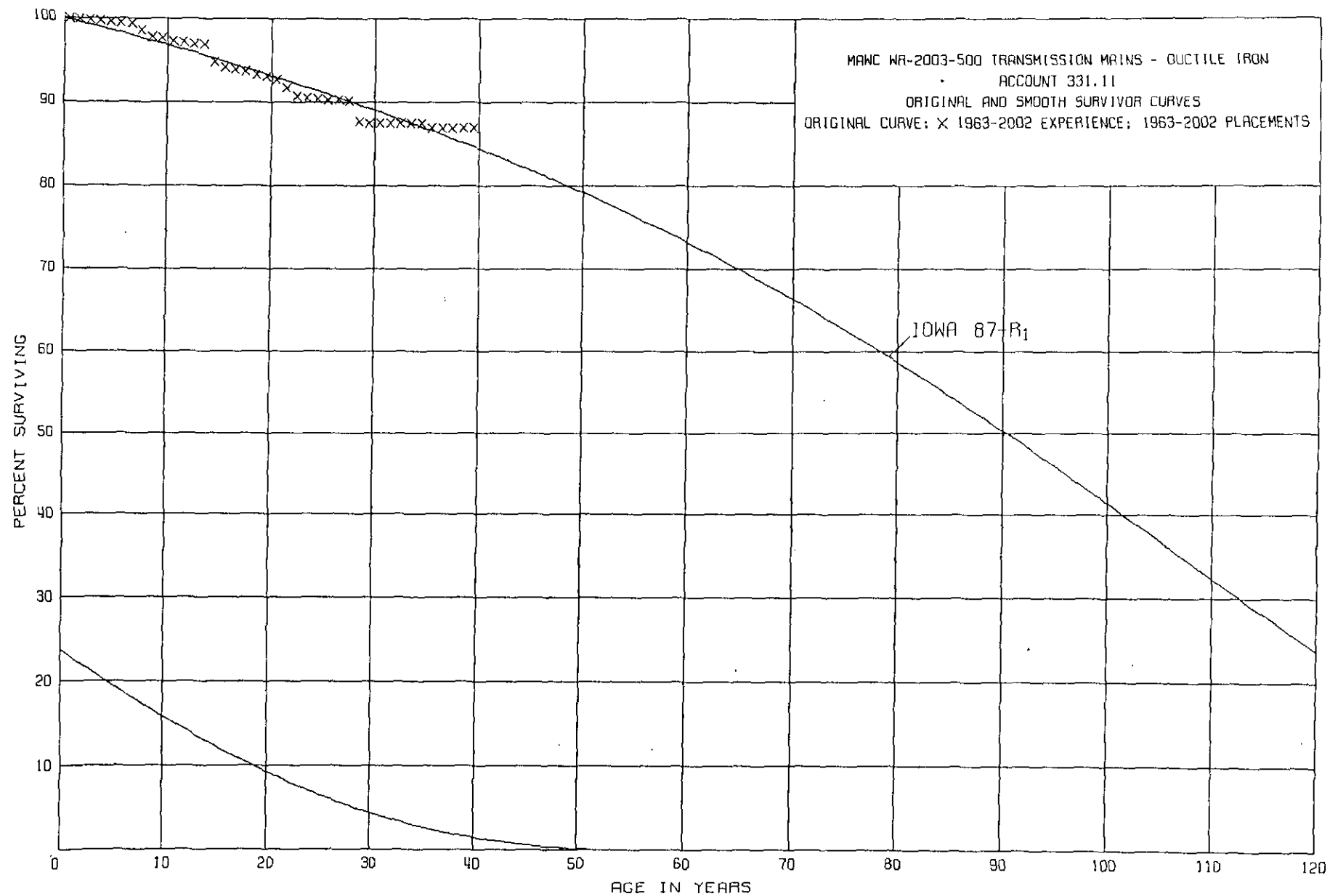
Account 343

(MAWC Account 331.11-331.30)

Transmission and Distribution Mains

ITEMS

- Air Chambers
- Blow-offs and Overflows
- Bridges and Culverts
- Canals
- Electrolysis Control Equipment
- Gauges and Recorders
- Jointing and Jointing Materials
- Manholes
- Meters and Meter Houses
- Municipal Inspection or Permits
- Pavement Disturbed
- Pipes
- Placing Mains and Accessories
- Pressure Regulators
- Protection of Street Openings
- Shut-offs
- Special Castings
- Sterilizing New Mains
- Surge Tanks
- Trenching
- Tunnels
- Valves and Appurtenances
- Valve Vaults



MAWC WR-2003-500 TRANSMISSION MAINS - DUCTILE IRON

ACCOUNT 331.11

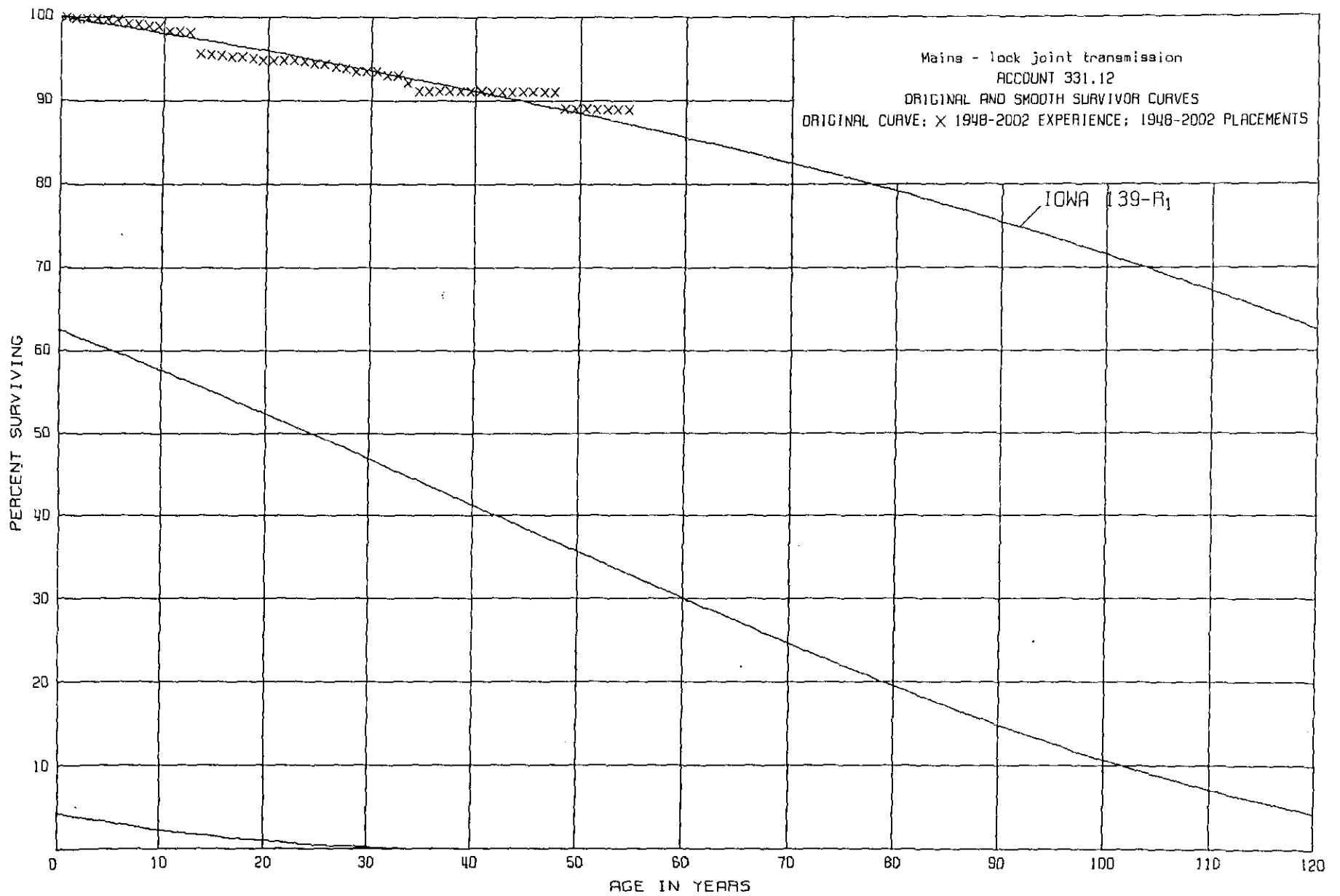
SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1963-2002

EXPERIENCE BAND 1963-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
70.3-S0	0.80	0 - 32			
59.3-S0.5	1.23	0 - 32			
50.6-S1	2.11	0 - 32			
					NOT FITTED
112.2-R0.5	1.04	0 - 32			NOT FITTED
85.5-R1	0.88	0 - 32			NOT FITTED
67.5-R1.5	0.73	0 - 32			NOT FITTED
53.5-R2	0.87	0 - 32			NOT FITTED
45.8-R2.5	1.45	0 - 32			NOT FITTED
105.2-L0	0.58	0 - 32			NOT FITTED
84.0-L0.5	0.67	0 - 32			NOT FITTED
67.0-L1	1.29	0 - 32			NOT FITTED
141.8-O1	1.10	0 - 32			NOT FITTED
159.5-O2	1.10	0 - 32			NOT FITTED
233.8-O3	1.12	0 - 32			NOT FITTED

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



Mains - lock joint transmission

ACCOUNT 331.12

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

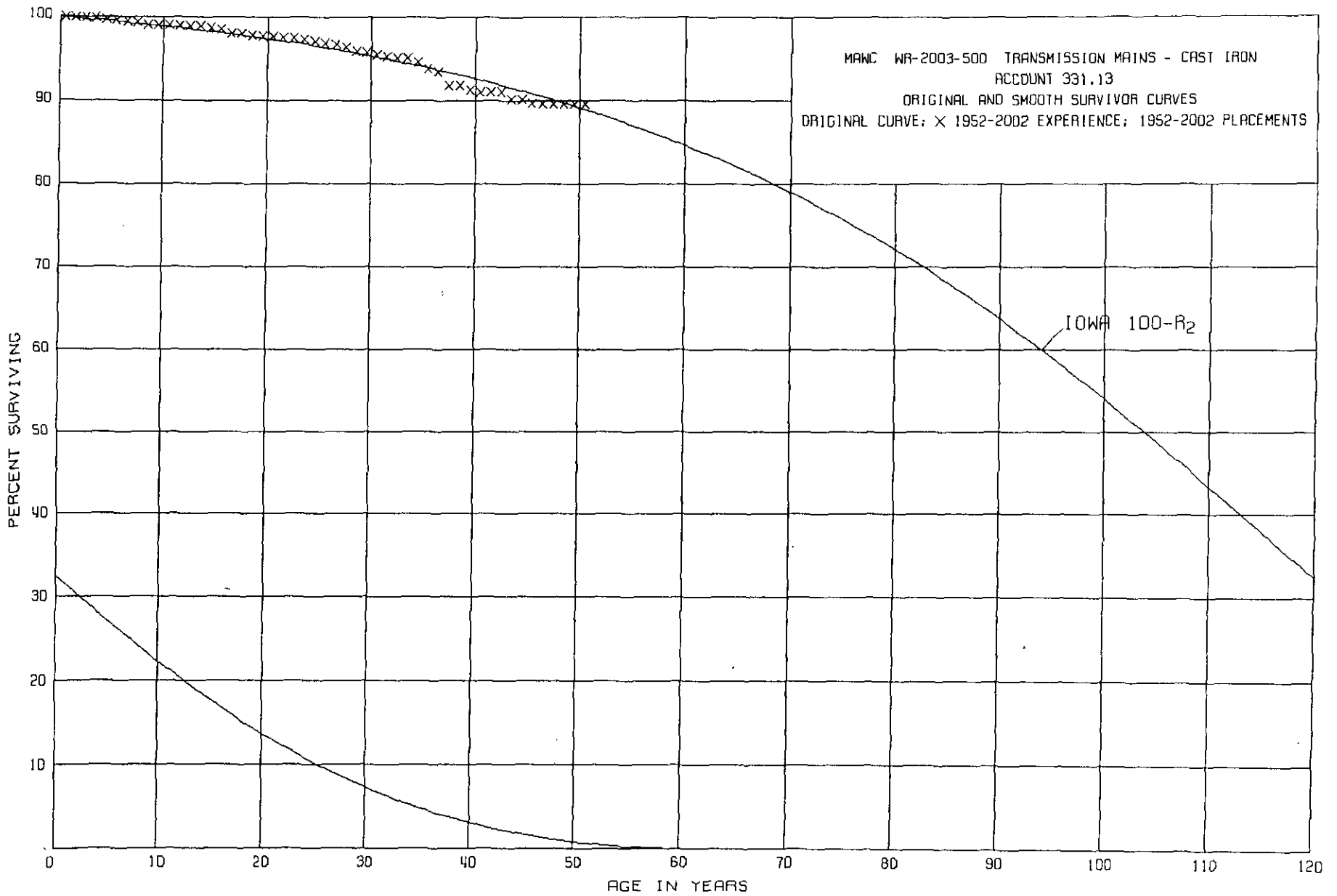
PLACEMENT BAND 1948-2002

EXPERIENCE BAND 1948-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
115.9-S0	1.91	0 - 55			
98.4-S0.5	2.42	0 - 55			
84.5-S1	3.38	0 - 55			
			NOT FITTED		
			NOT FITTED		
			NOT FITTED		
180.5-R0.5	0.75	0 - 55			
138.4-R1	0.89	0 - 55			
110.1-R1.5	1.16	0 - 55			
			NOT FITTED		
			NOT FITTED		
			NOT FITTED		
171.9-L0	1.30	0 - 55			
138.0-L0.5	1.61	0 - 55			
111.3-L1	2.47	0 - 55			
			NOT FITTED		
			NOT FITTED		
			NOT FITTED		
227.5-O1	0.70	0 - 55			
255.8-O2	0.70	0 - 55			
			NOT FITTED		
320.0-O3	= STOP FITTING				
320.0-O4	= STOP FITTING				

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

Full Band 55



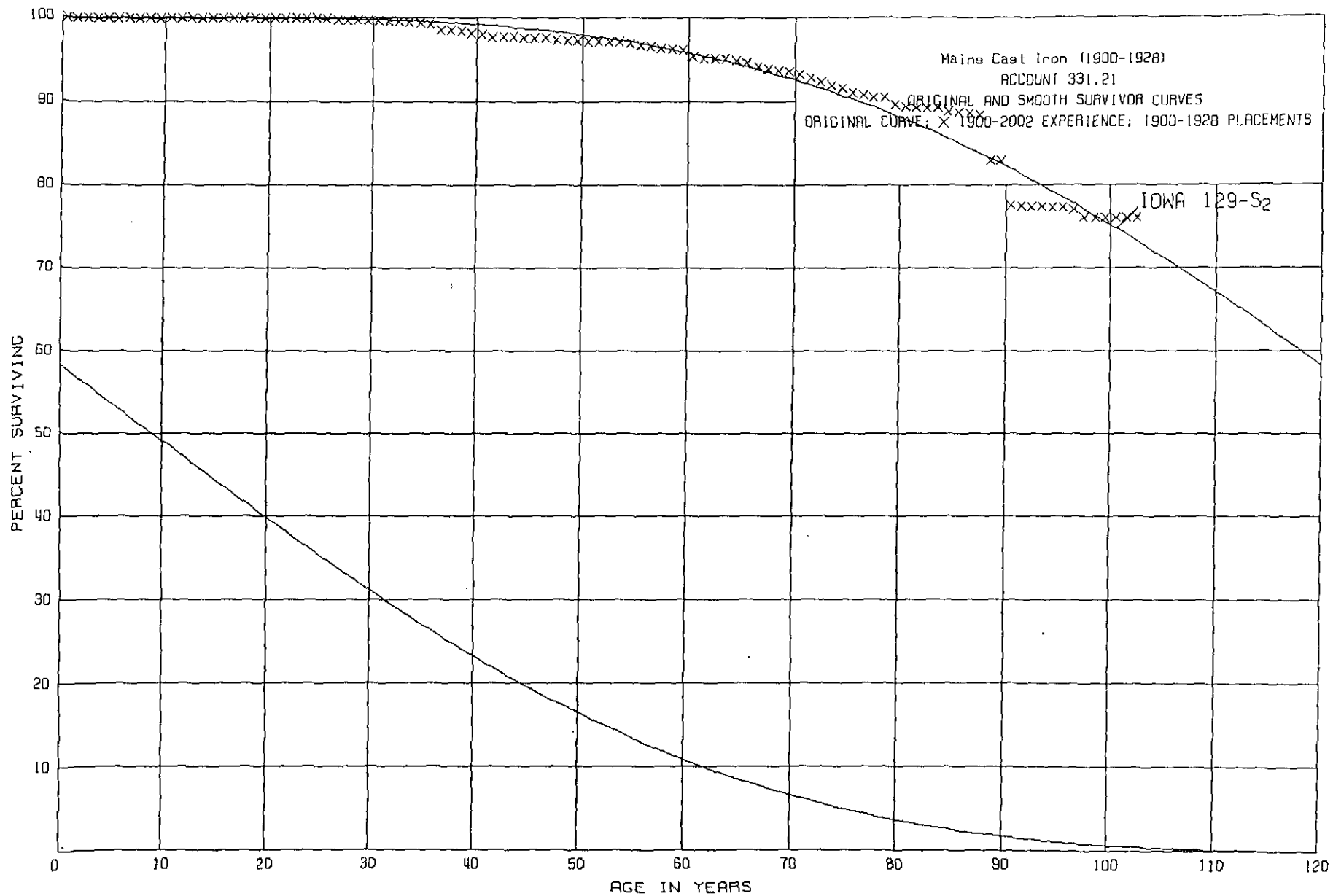
MAWC WR-2003-500 TRANSMISSION MAINS - CAST IRON

ACCOUNT 331.13

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1900-2002			1	EXPERIENCE BAND 1900-2002		
SURVIVOR CURVE	RESID MEAS	RANGE OF FIT		SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
151.9-S0	1.93	0 - 93		NOT FITTED		
133.7-S0.5	2.34	0 - 93		NOT FITTED		
119.7-S1	3.33	0 - 93		NOT FITTED		
205.4-R0.5	2.26	0 - 93		NOT FITTED		
164.4-R1	1.99	0 - 93		NOT FITTED		
138.0-R1.5	1.76	0 - 93		NOT FITTED		
118.7-R2	2.09	0 - 93		NOT FITTED		
107.2-R2.5	2.94	0 - 93		NOT FITTED		
212.8-L0	1.85	0 - 93		NOT FITTED		
177.9-L0.5	1.83	0 - 93		NOT FITTED		
151.6-L1	2.41	0 - 93		NOT FITTED		
133.6-L1.5	2.98	0 - 93		NOT FITTED		
253.4-O1	2.40	0 - 93		NOT FITTED		
284.9-O2	2.40	0 - 93		NOT FITTED		
320.0-O3	= STOP FITTING					
320.0-O4	= STOP FITTING					

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



Mains Cast Iron (1900-1928)

ACCOUNT 331.21

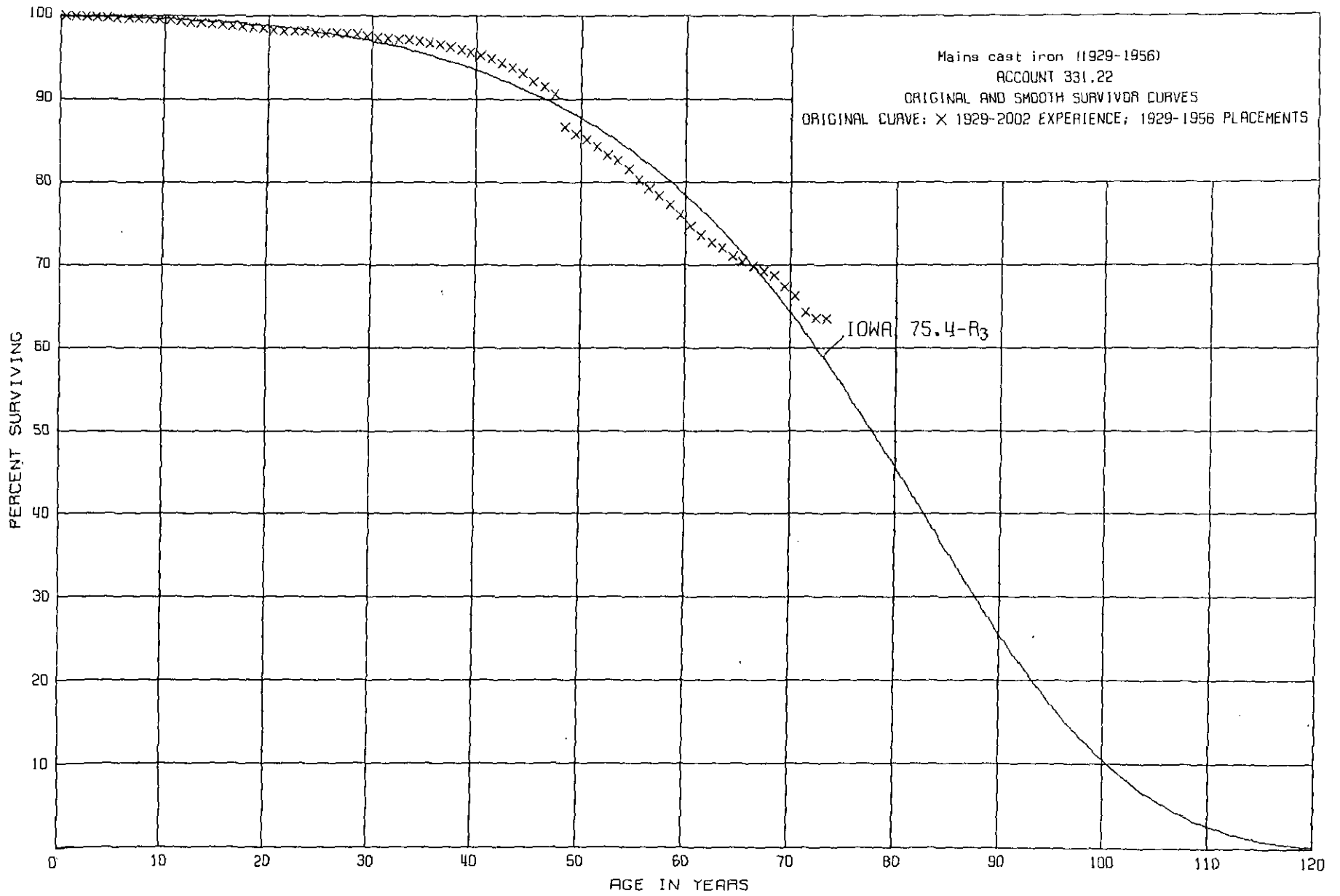
SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1900-1928

EXPERIENCE BAND 1900-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
214.7-S0	3.44	0 -103			
182.4-S0.5	2.95	0 -103			
157.0-S1	2.15	0 -103			
141.8-S1.5	1.67	0 -103			
129.3-S2	1.31	0 -103			
121.5-S2.5	1.47	0 -103			
115.0-S3	2.25	0 -103			
320.0-R0.5	= STOP FITTING				
255.0-R1	4.48	0 -103			
203.4-R1.5	4.14	0 -103			
163.6-R2	3.37	0 -103			
141.5-R2.5	2.65	0 -103			
125.0-R3	1.61	0 -103			
109.5-R4	1.90	0 -103			
317.5-L0	4.03	0 -103			
255.3-L0.5	3.69	0 -103			
206.4-L1	2.88	0 -103			
177.0-L1.5	2.43	0 -103			
152.8-L2	1.53	0 -103			
138.7-L2.5	1.27	0 -103			
126.5-L3	1.52	0 -103			
110.9-L4	3.06	0 -103			
320.0-O1	= STOP FITTING				
320.0-O2	= STOP FITTING				
320.0-O3	= STOP FITTING				
320.0-O4	= STOP FITTING				

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



Mains cast iron (1929-1956)

ACCOUNT 331.22

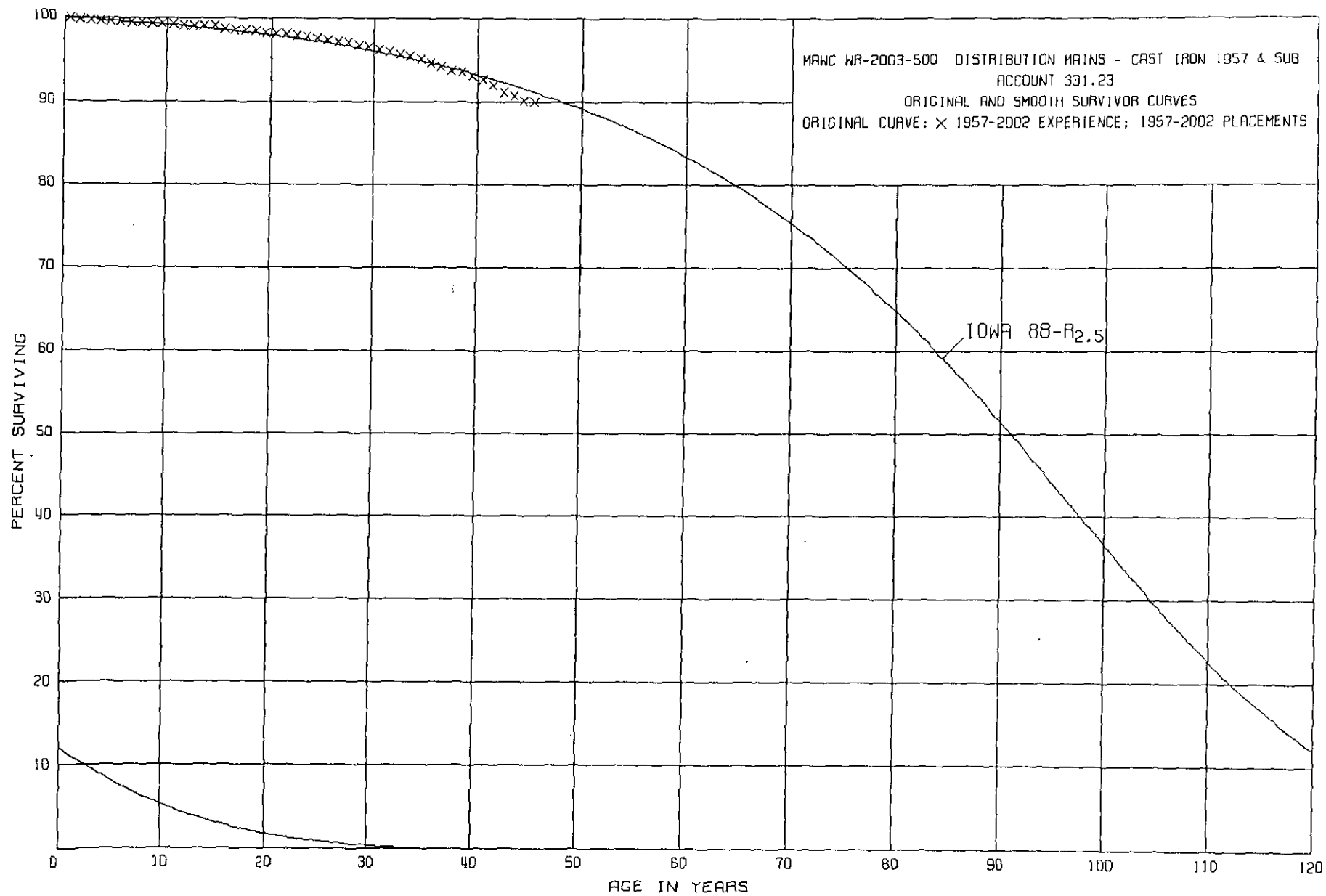
SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1929-1956

EXPERIENCE BAND 1929-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
111.6-S0	4.39	0 - 74			NOT FITTED
99.3-S0.5	3.46	0 - 74			NOT FITTED
90.0-S1	2.22	0 - 74			NOT FITTED
83.8-S1.5	1.44	0 - 74			NOT FITTED
78.9-S2	1.52	0 - 74			NOT FITTED
75.6-S2.5	2.51	0 - 74			NOT FITTED
144.8-R0.5	6.46	0 - 74			NOT FITTED
117.8-R1	5.86	0 - 74			NOT FITTED
100.7-R1.5	4.98	0 - 74			NOT FITTED
88.3-R2	3.56	0 - 74			NOT FITTED
80.8-R2.5	2.38	0 - 74			NOT FITTED
75.3-R3	1.72	0 - 74			NOT FITTED
69.9-R4	4.52	0 - 74			NOT FITTED
67.3-R5	9.81	0 - 74	69.4-R5	12.76	51 - 74
153.5-L0	5.47	0 - 74			NOT FITTED
130.1-L0.5	4.68	0 - 74			NOT FITTED
112.6-L1	3.39	0 - 74			NOT FITTED
100.2-L1.5	2.49	0 - 74			NOT FITTED
90.8-L2	1.25	0 - 74			NOT FITTED
84.3-L2.5	1.48	0 - 74			NOT FITTED
79.2-L3	2.83	0 - 74			NOT FITTED
177.1-O1	6.74	0 - 74			NOT FITTED
199.1-O2	6.74	0 - 74			NOT FITTED
289.4-O3	6.81	0 - 74			NOT FITTED

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



MAWC WR-2003-500 DISTRIBUTION MAINS - CAST IRON 1957 & SUB

ACCOUNT 331.23

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1957-2002

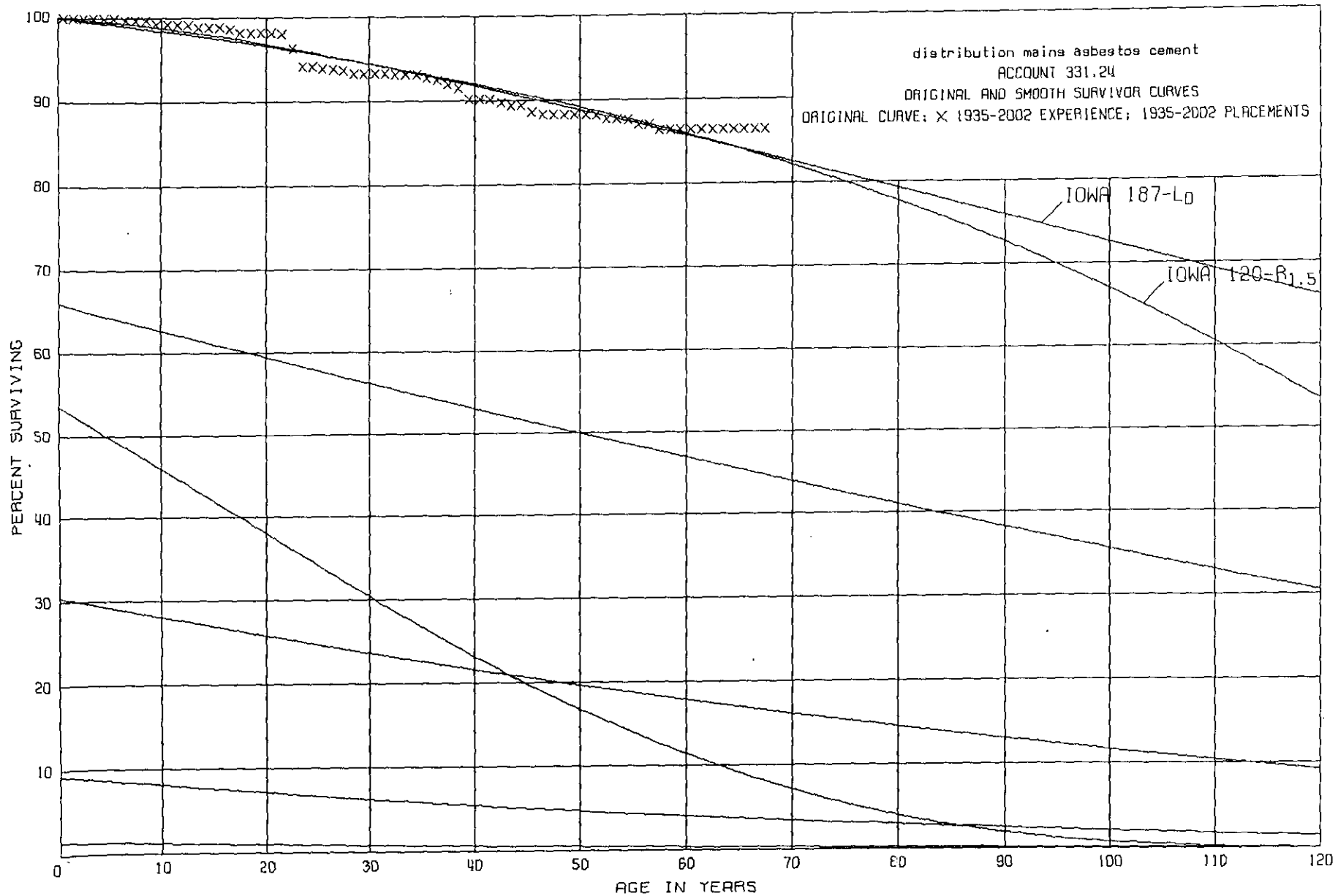
EXPERIENCE BAND 1957-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT
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SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
-------------------	---------------	------------------

NOT FITTED

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



distribution mains asbestos cement

ACCOUNT 331.24

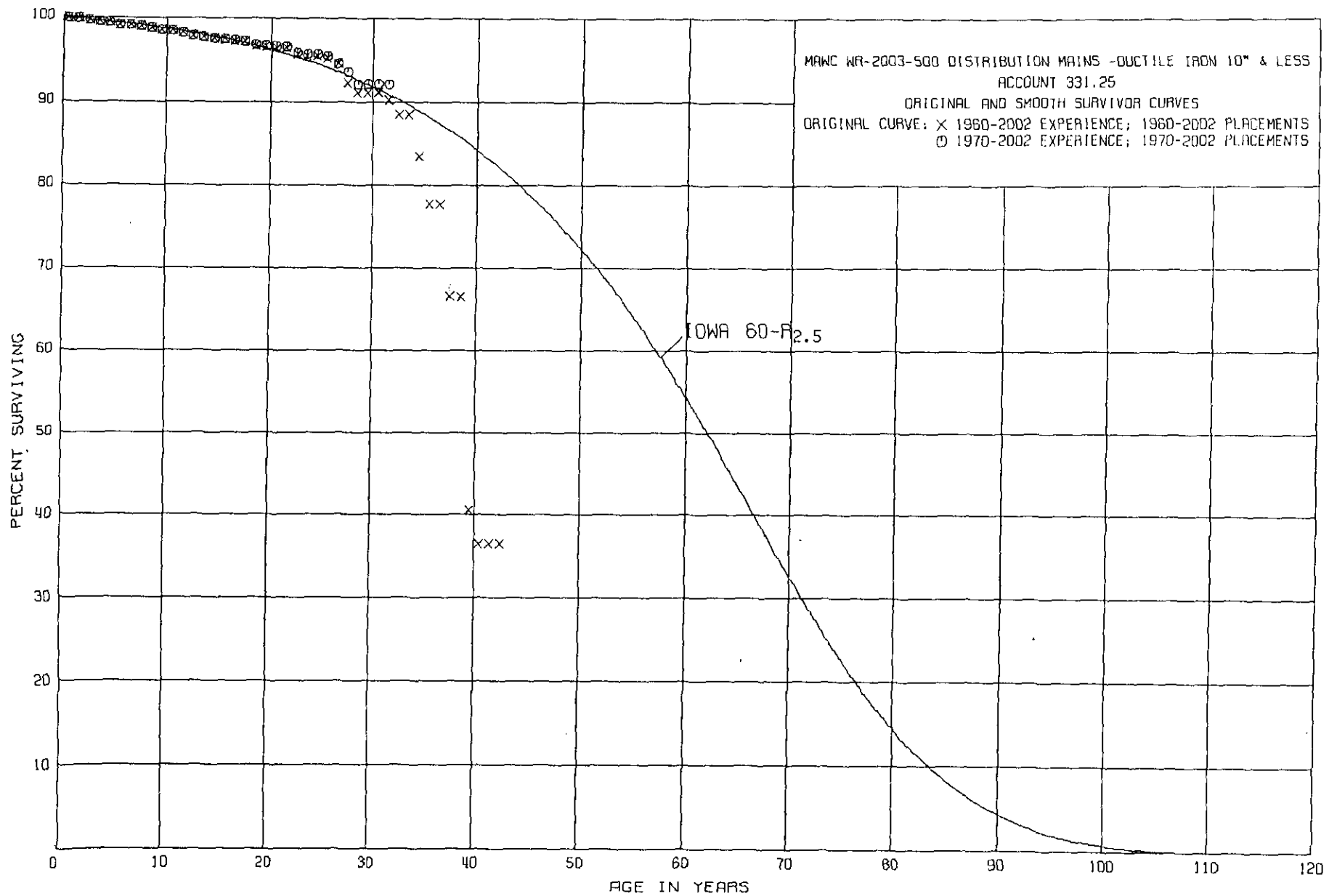
SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1935-2002

EXPERIENCE BAND 1935-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
124.6-S0	1.23	0 - 62			
106.4-S0.5	1.74	0 - 62		NOT FITTED	
92.1-S1	2.72	0 - 62		NOT FITTED	
188.7-R0.5	1.21	0 - 62		NOT FITTED	
145.7-R1	1.08	0 - 62		NOT FITTED	
117.0-R1.5	1.04	0 - 62		NOT FITTED	
95.2-R2	1.43	0 - 62		NOT FITTED	
82.9-R2.5	2.16	0 - 62		NOT FITTED	
182.8-L0	0.89	0 - 62		NOT FITTED	
147.8-L0.5	1.09	0 - 62		NOT FITTED	
120.5-L1	1.83	0 - 62		NOT FITTED	
237.0-O1	1.28	0 - 62		NOT FITTED	
266.5-O2	1.28	0 - 62		NOT FITTED	
320.0-O3	= STOP	FITTING			
320.0-O4	= STOP	FITTING			

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



MAWC WR-2003-500 DISTRIBUTION MAINS -DUCTILE IRON 10" & LESS

ACCOUNT 331.25

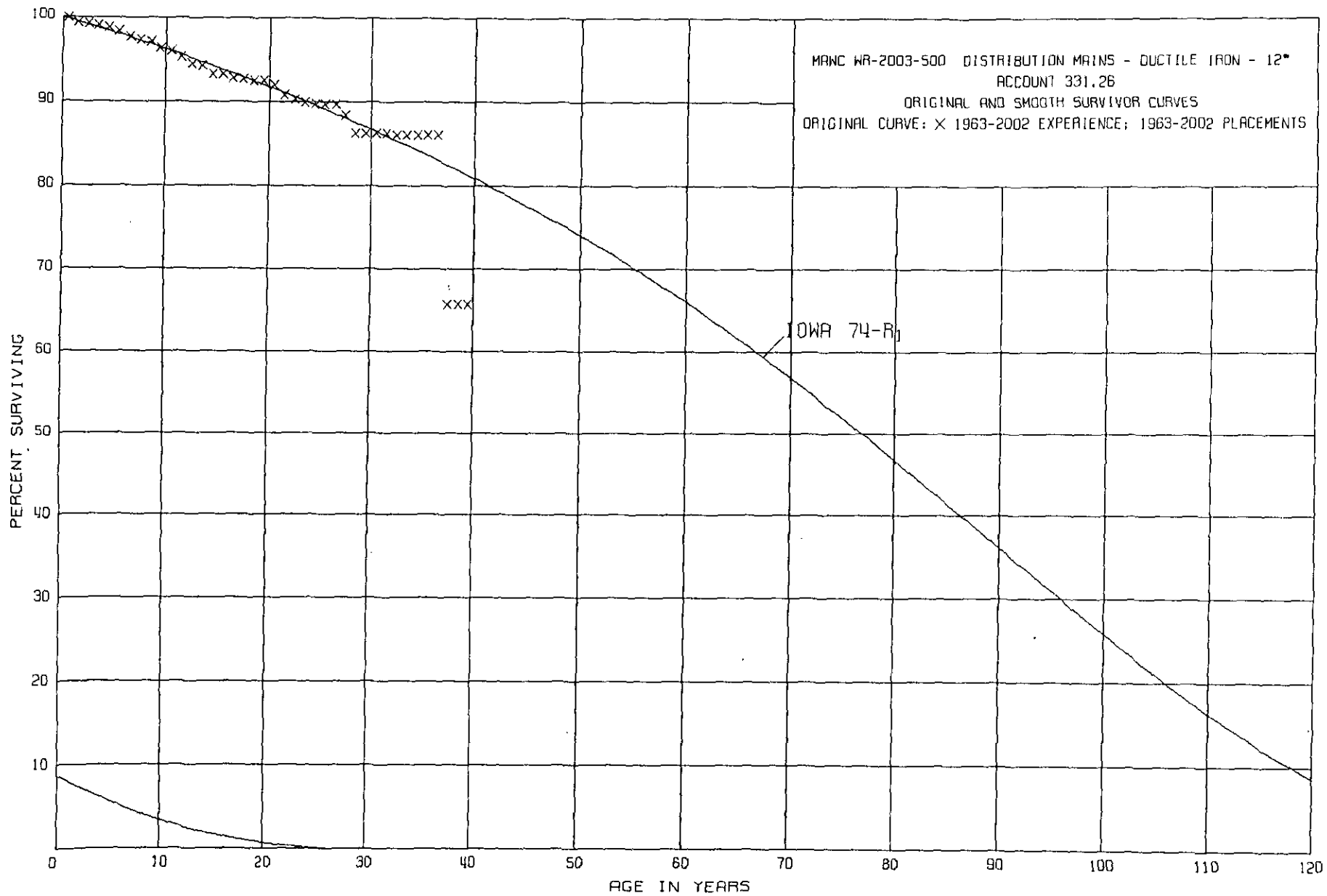
SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1960-2002 1 EXPERIENCE BAND 1960-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
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NOT FITTED

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



MAWC WR-2003-500 DISTRIBUTION MAINS - DUCTILE IRON - 12"

ACCOUNT 331.26

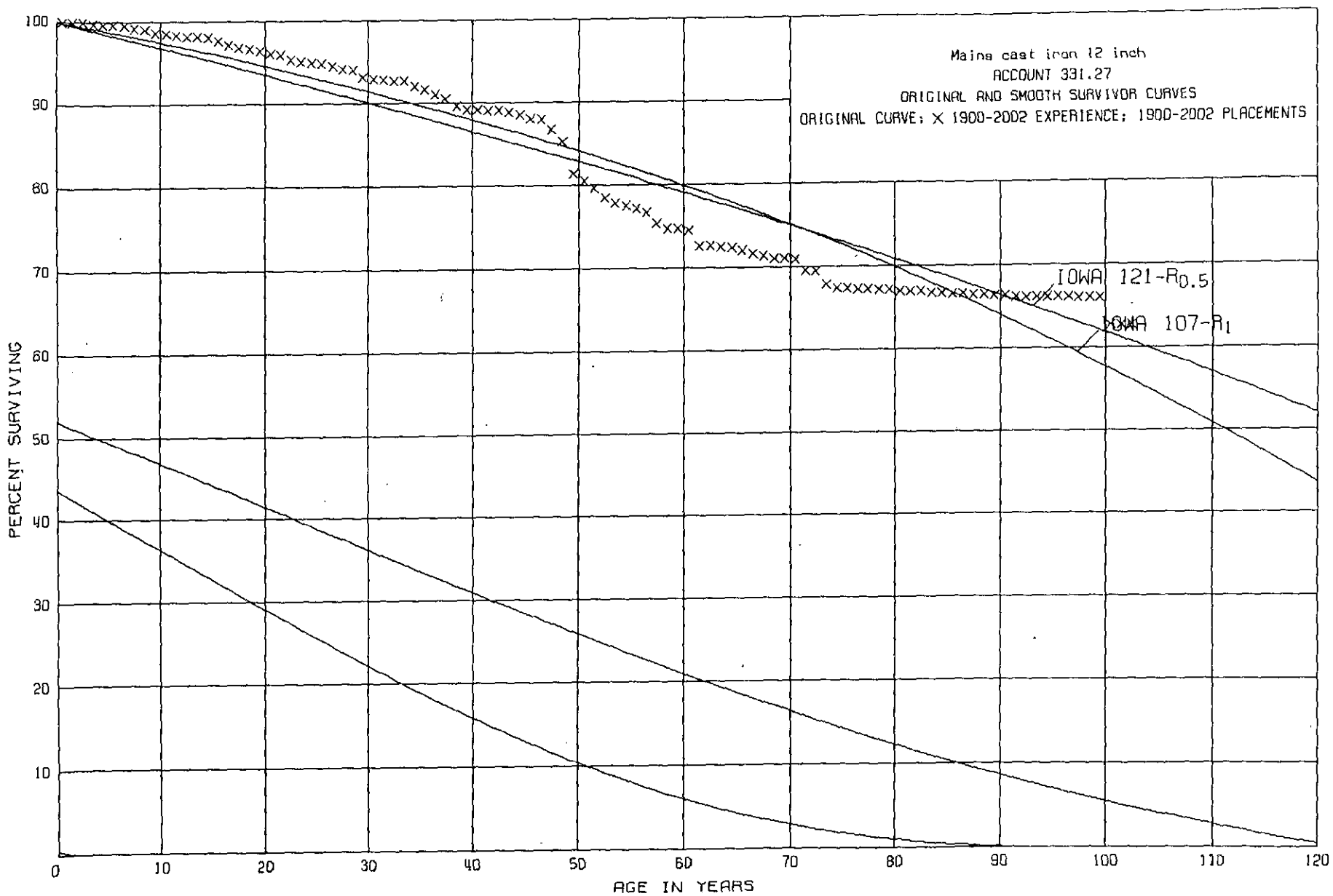
SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1963-2002

EXPERIENCE BAND 1963-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
62.7-S0	1.37	0 - 31			NOT FITTED
53.5-S0.5	1.91	0 - 31			NOT FITTED
46.3-S1	2.91	0 - 31			NOT FITTED
95.3-R0.5	0.57	0 - 31			NOT FITTED
73.5-R1	0.51	0 - 31			NOT FITTED
59.0-R1.5	0.65	0 - 31			NOT FITTED
47.9-R2	1.37	0 - 31			NOT FITTED
92.1-L0	0.76	0 - 31			NOT FITTED
74.4-L0.5	1.08	0 - 31			NOT FITTED
60.6-L1	1.96	0 - 31			NOT FITTED
119.8-O1	0.63	0 - 31			NOT FITTED
134.7-O2	0.63	0 - 31			NOT FITTED
197.2-O3	0.64	0 - 31			NOT FITTED

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



Mains cast iron 12 inch

ACCOUNT 331.27

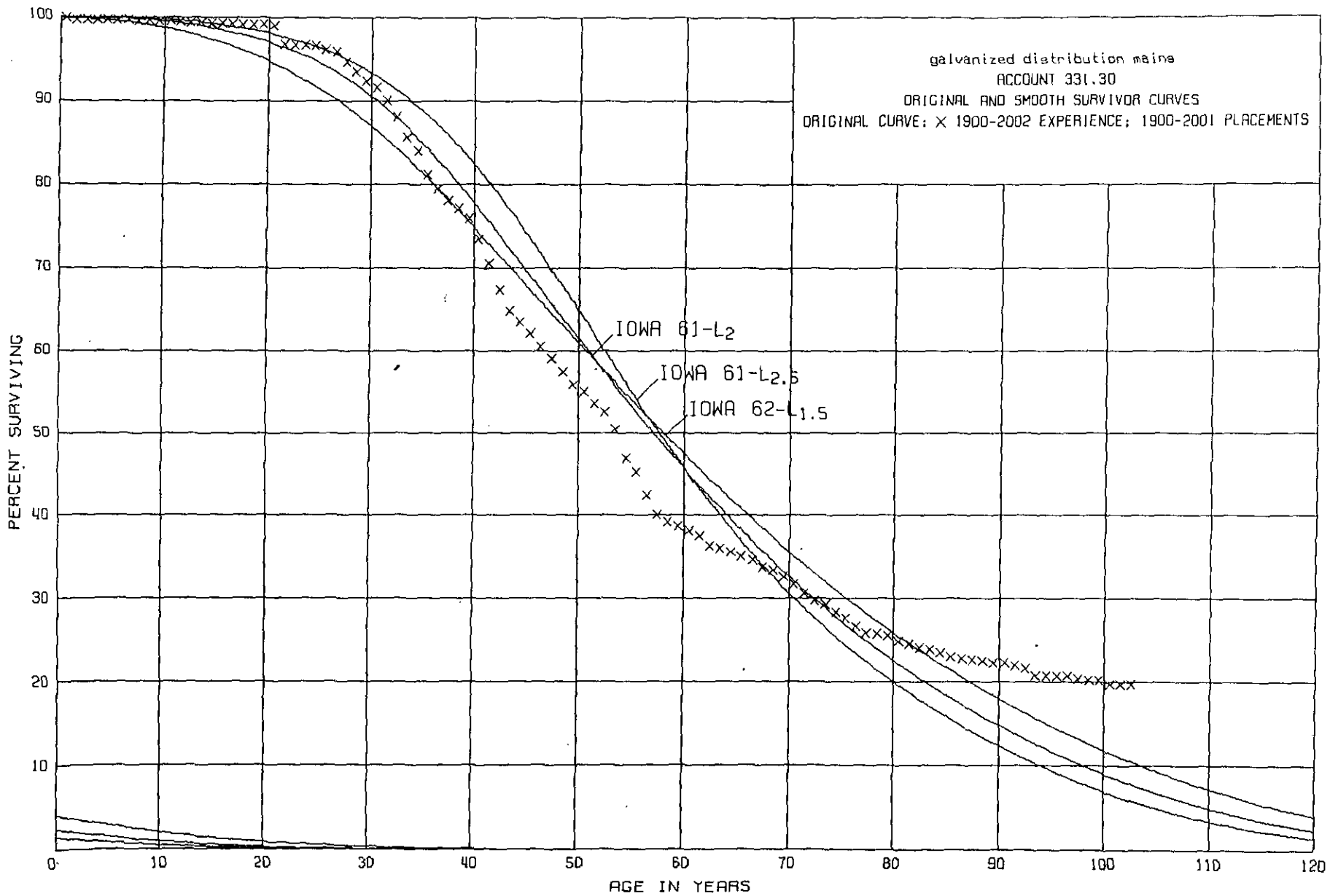
SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1900-2002

EXPERIENCE BAND 1900-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
106.2-S0	3.30	0 - 98			
99.2-S0.5	4.56	0 - 98			
93.8-S1	6.27	0 - 98			
			NOT FITTED		
119.8-R0.5	3.23	0 - 98			
105.2-R1	3.26	0 - 98			
96.7-R1.5	4.22	0 - 98			
			NOT FITTED		
135.0-L0	2.57	0 - 98			
121.2-L0.5	2.87	0 - 98			
110.8-L1	3.87	0 - 98			
			NOT FITTED		
139.3-O1	3.52	0 - 98			
156.7-O2	3.52	0 - 98			
223.6-O3	3.66	0 - 98			
			NOT FITTED		

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



galvanized distribution mains

ACCOUNT 331.30

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1900-2001

EXPERIENCE BAND 1900-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
60.7-S0	6.91	0 -103	58.5-S0	6.82	34 -103
60.5-S0.5	6.94	0 -103	59.2-S0.5	7.79	34 -103
60.3-S1	7.70	0 -103	59.7-S1	9.24	34 -103
61.1-R0.5	8.61	0 -103	57.3-R0.5	6.80	34 -103
60.4-R1	8.46	0 -103	58.0-R1	8.59	34 -103
60.3-R1.5	8.97	0 -103	58.7-R1.5	10.12	34 -103
60.2-R2	10.23	0 -103	59.3-R2	12.20	34 -103
65.4-L0	8.22	0 -103	60.2-L0	5.21	34 -103
63.8-L0.5	6.65	0 -103	60.2-L0.5	4.71	34 -103
62.4-L1	5.41	0 -103	60.2-L1	4.72	34 -103
61.8-L1.5	4.74	0 -103	60.6-L1.5	5.03	34 -103
61.2-L2	5.14	0 -103	60.9-L2	6.18	34 -103
60.8-L2.5	6.87	0 -103	61.0-L2.5	8.40	34 -103
61.9-O1	9.89	0 -103	56.4-O1	6.44	34 -103
68.7-O2	9.88	0 -103	61.5-O2	5.59	34 -103
85.5-O3	12.09	0 -103	71.3-O3	8.19	34 -103

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

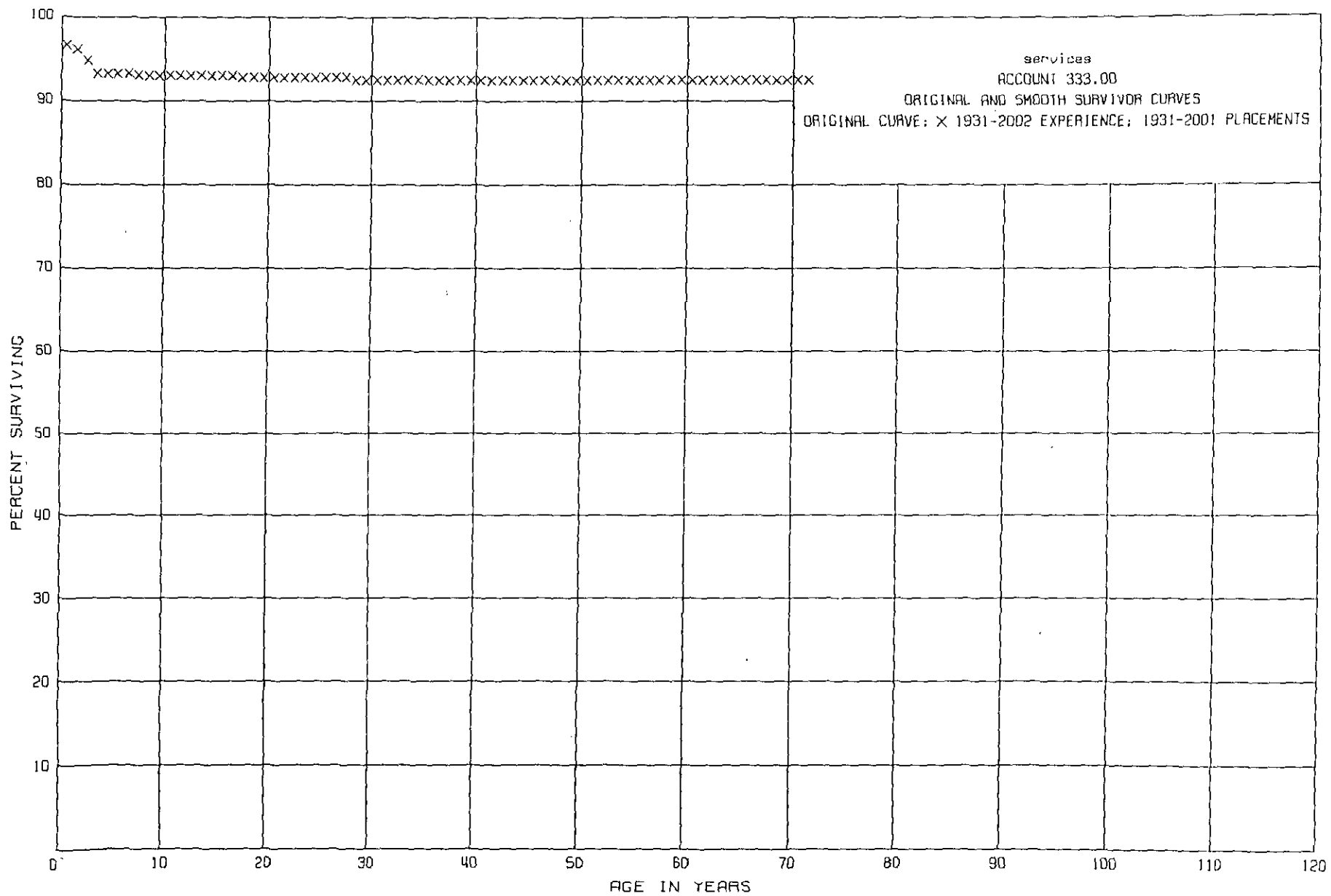
Account 345

(MAWC Account 333.00)

Services

ITEMS

- Corporation Stops or Tees
- Gate Valves and boxes
- Goose Necks
- Jointing and Jointing Materials
- Municipal Inspection or Permits
- Pavement Disturbed
- Pipes
- Placing Pipes and Accessories
- Protection of Street Openings
- Service or Curb Boxes
- Service or Curb Stops
- Tapping Main



services

ACCOUNT 333.00

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1931-2001

EXPERIENCE BAND 1931-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT
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SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
-------------------	---------------	------------------

NOT FITTED

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

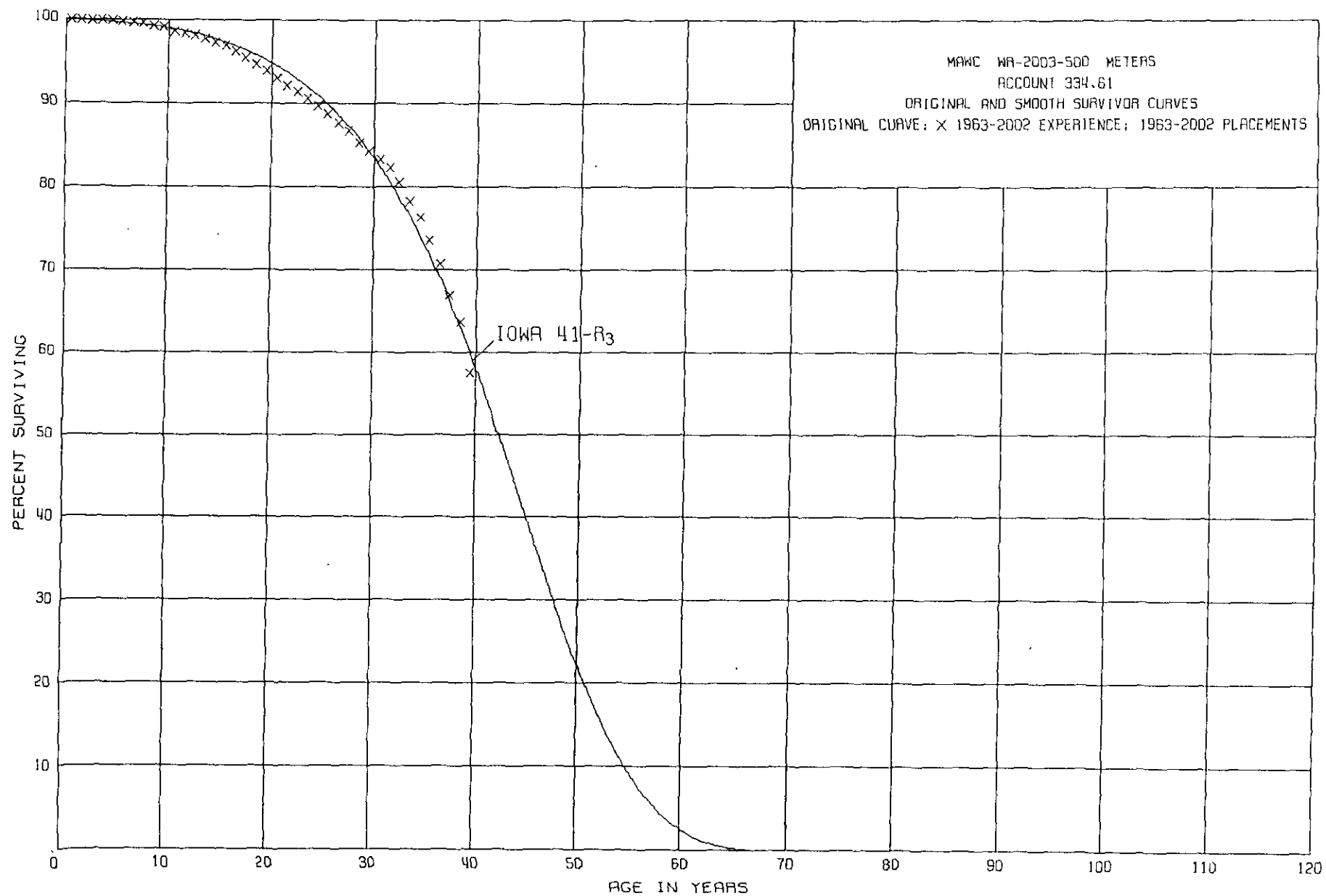
Account 346

(MAWC Account 334.61&334.62)

Meters

ITEMS

- Meters including badging and initial testing
- Remote Meter Registers



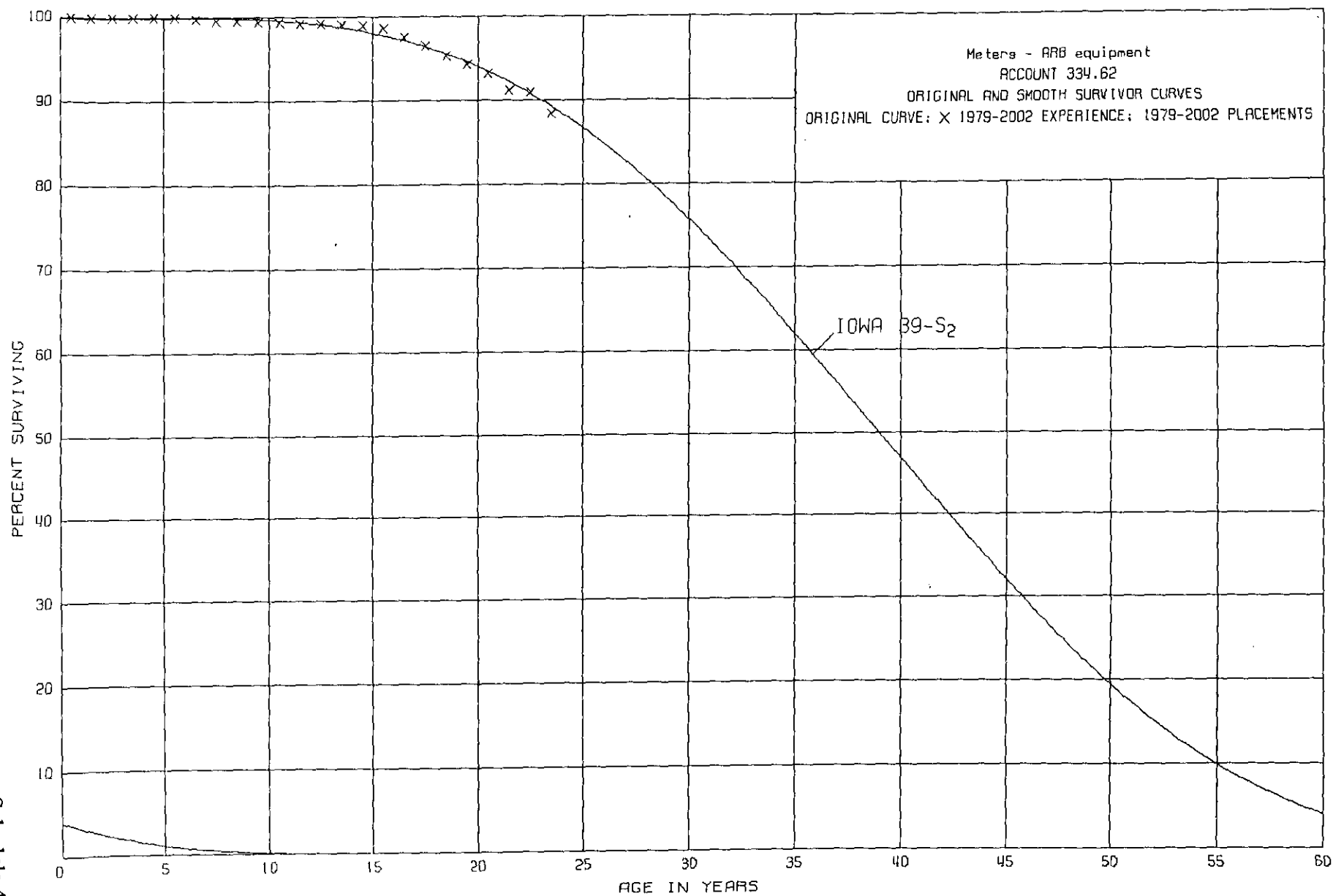
MAWC WR-2003-500 METERS

ACCOUNT 334.61

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1963-2002			2	EXPERIENCE BAND 1963-2002		
SURVIVOR CURVE	RESID MEAS	RANGE OF FIT		SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
60.7-S0	3.90	0 - 40		NOT FITTED		
54.0-S0.5	3.03	0 - 40		NOT FITTED		
48.9-S1	2.00	0 - 40		NOT FITTED		
45.5-S1.5	1.46	0 - 40		NOT FITTED		
42.8-S2	1.98	0 - 40		NOT FITTED		
41.0-S2.5	2.82	0 - 40		NOT FITTED		
79.1-R0.5	5.88	0 - 40		NOT FITTED		
64.2-R1	5.28	0 - 40		NOT FITTED		
54.8-R1.5	4.41	0 - 40		NOT FITTED		
48.0-R2	3.00	0 - 40		NOT FITTED		
43.9-R2.5	1.72	0 - 40		NOT FITTED		
40.9-R3	1.09	0 - 40		NOT FITTED		
37.9-R4	4.20	0 - 40		NOT FITTED		
36.4-R5	9.39	0 - 40		NOT FITTED		
83.7-L0	4.92	0 - 40		NOT FITTED		
70.8-L0.5	4.17	0 - 40		NOT FITTED		
61.2-L1	3.03	0 - 40		NOT FITTED		
54.4-L1.5	2.19	0 - 40		NOT FITTED		
49.3-L2	1.52	0 - 40		NOT FITTED		
45.8-L2.5	1.69	0 - 40		NOT FITTED		
42.9-L3	3.11	0 - 40		NOT FITTED		
96.8-O1	6.15	0 - 40		NOT FITTED		
108.8-O2	6.14	0 - 40		NOT FITTED		
158.2-O3	6.21	0 - 40		NOT FITTED		

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



Meters - ARB equipment

ACCOUNT 334.62

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1979-2002

EXPERIENCE BAND 1979-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT
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SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
-------------------	---------------	------------------

NOT FITTED

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

max years - 24

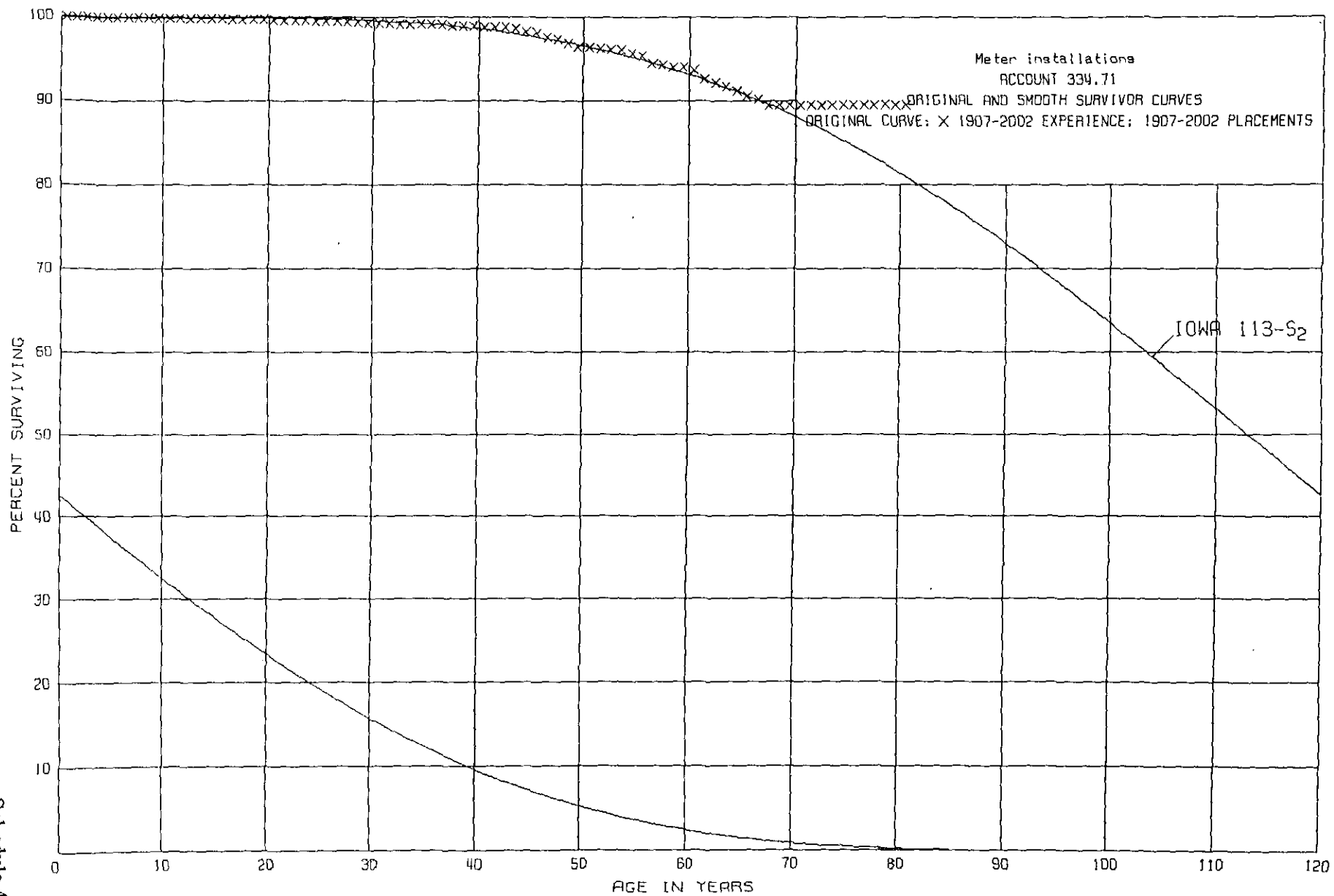
Account 347

(MAWC Account 334.71&334.72)

Meter Installations

ITEMS

- Installation Labor
- Meter Coupling
- Meter Bars
- Meter Yokes
- Meter Fittings, Connections and Shelves
- Meter Vaults or Boxes
- Stops



Meter installations

ACCOUNT 334.71

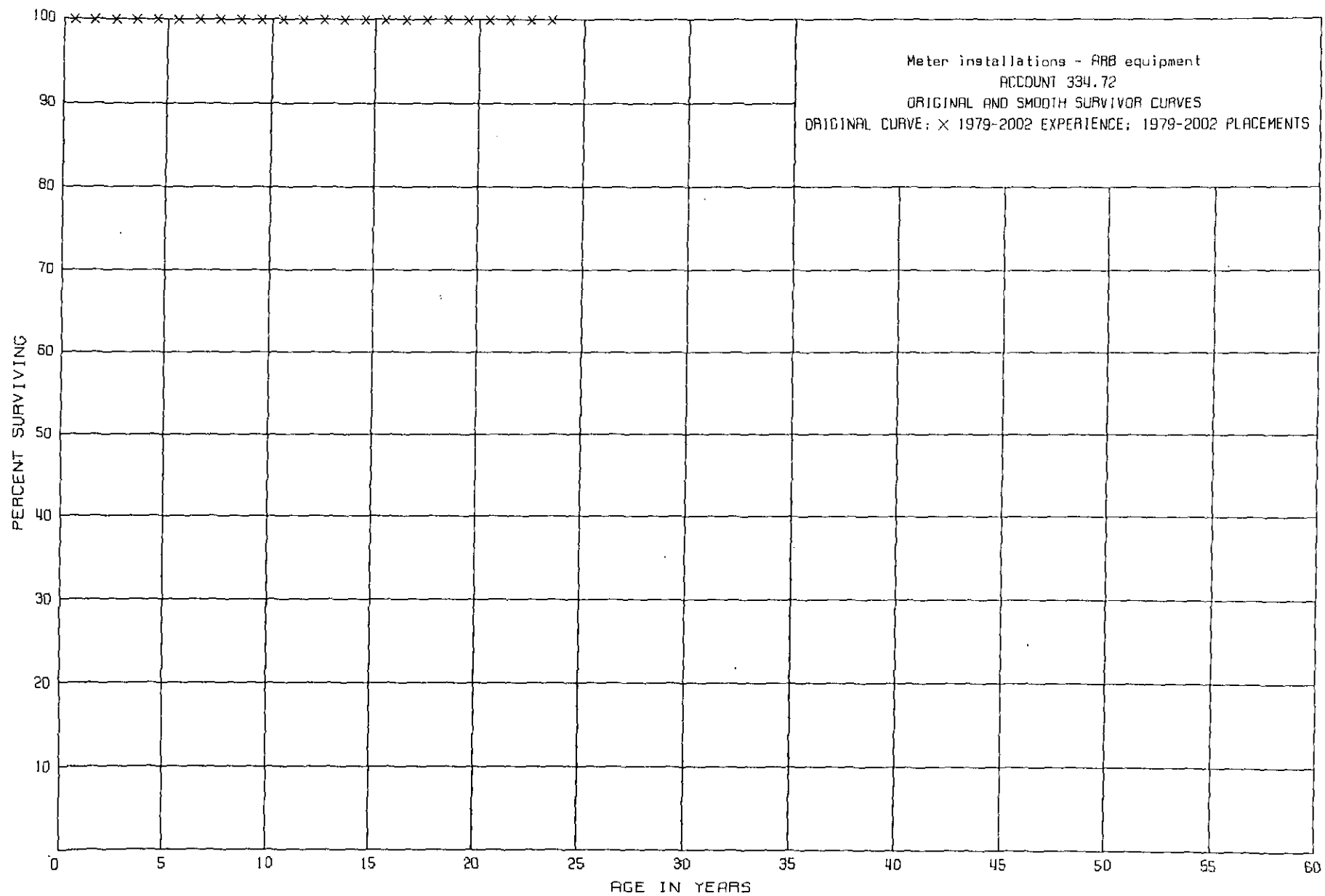
SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1907-2002

EXPERIENCE BAND 1907-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
238.8-S0	1.47	0 - 75			
191.8-S0.5	1.26	0 - 75			
152.3-S1	0.76	0 - 75			
132.6-S1.5	0.58	0 - 75			
115.1-S2	0.65	0 - 75			
105.6-S2.5	0.92	0 - 75			
320.0-R0.5	= STOP	FITTING			
320.0-R1	= STOP	FITTING			
260.8-R1.5	2.01	0 - 75			
185.3-R2	1.73	0 - 75			
146.8-R2.5	1.41	0 - 75			
117.3-R3	0.78	0 - 75			
93.4-R4	1.12	0 - 75			
320.0-L0	= STOP	FITTING			
297.2-L0.5	1.70	0 - 75			
216.3-L1	1.30	0 - 75			
177.4-L1.5	1.08	0 - 75			
141.8-L2	0.65	0 - 75			
125.4-L2.5	0.57	0 - 75			
109.3-L3	0.91	0 - 75			
320.0-O1	= STOP	FITTING			
320.0-O2	= STOP	FITTING			
320.0-O3	= STOP	FITTING			
320.0-O4	= STOP	FITTING			

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



Meter installations - ARB equipment

ACCOUNT 334.72

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1979-2002

EXPERIENCE BAND 1979-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT
-------------------	---------------	-----------------

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
-------------------	---------------	------------------

NOT FITTED

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

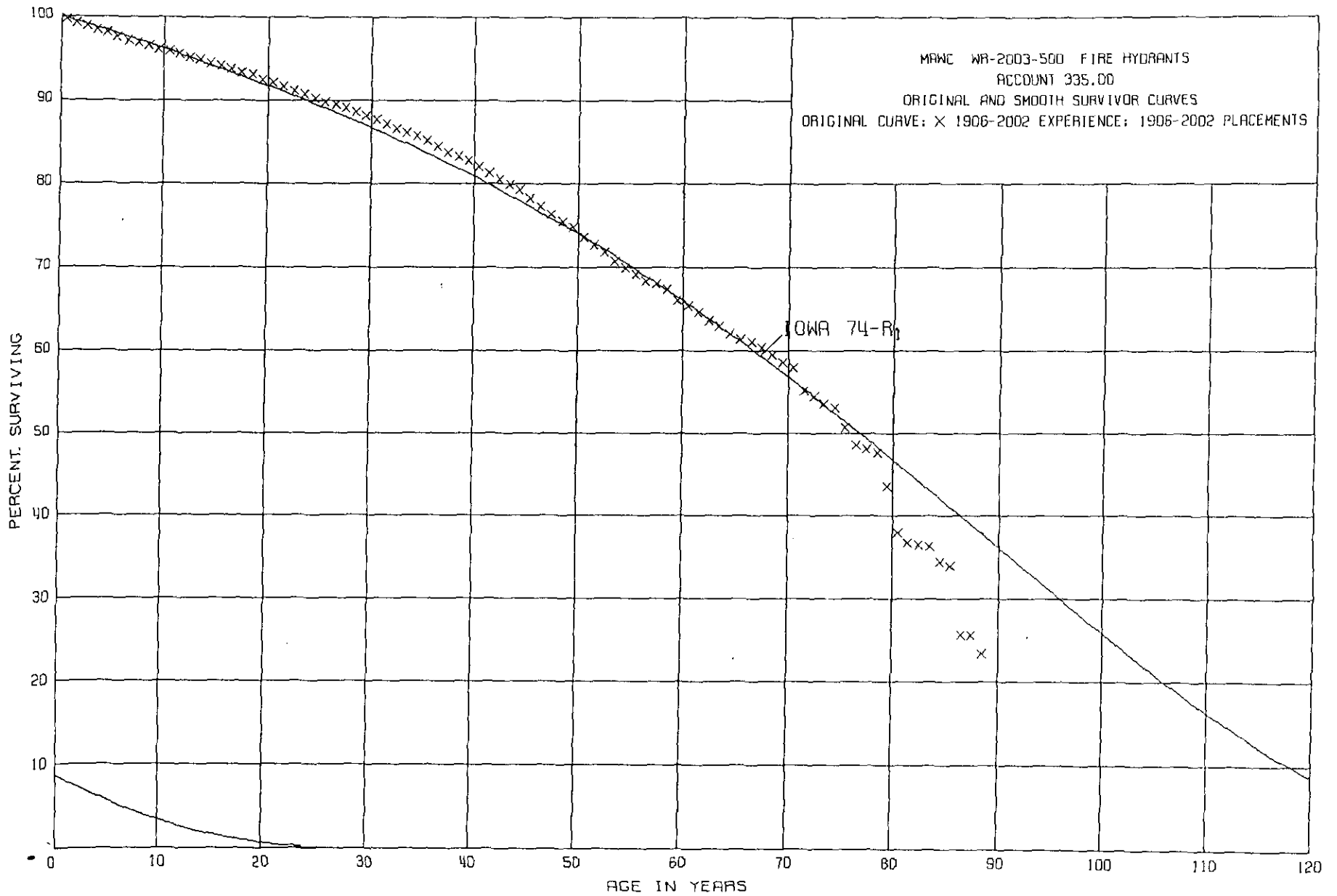
Account 348

(MAWC Account 335.00)

Hydrants

ITEMS

- Connections to Main
- Excavation, Backfill and Disposal of Excess Excavated Material
- Hydrants and Fittings
- Manholes
- Pavement Disturbed
- Pipe including leads and drains
- Tee at Main
- Valves and Valve Boxes



MAWC WR-2003-500 FIRE HYDRANTS

ACCOUNT 335.00

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1906-2002

EXPERIENCE BAND 1906-2002

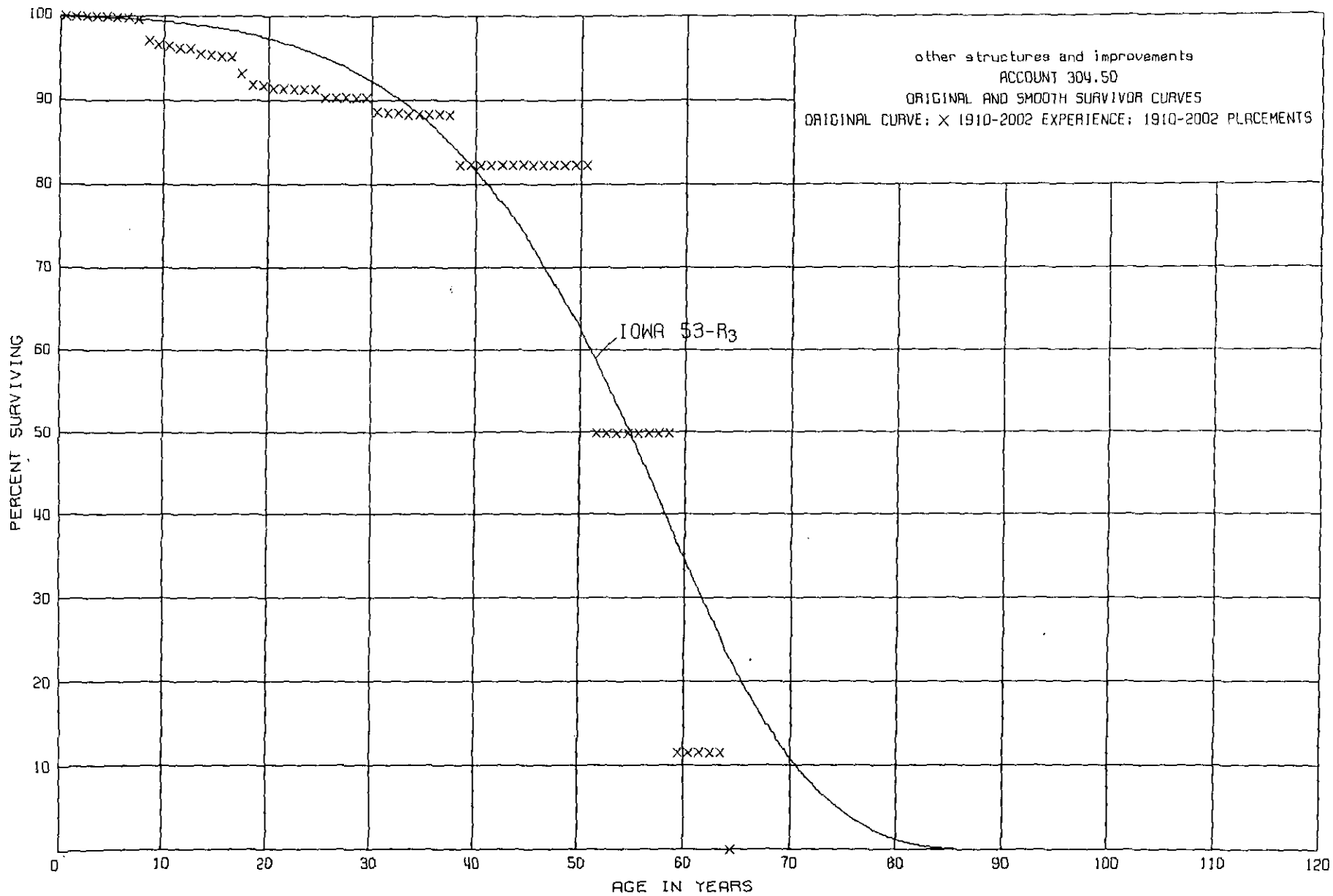
SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
74.5-S0	1.56	0 - 54			
67.2-S0.5	2.52	0 - 54			
61.6-S1	4.02	0 - 54			
92.6-R0.5	1.32	0 - 54			
76.8-R1	0.64	0 - 54			
67.0-R1.5	0.82	0 - 54			
60.0-R2	2.45	0 - 54			
100.4-L0	0.90	0 - 54			
86.4-L0.5	1.22	0 - 54			
76.0-L1	2.53	0 - 54			
112.0-O1	1.68	0 - 54			
126.0-O2	1.68	0 - 54			
182.5-O3	1.78	0 - 54			
			NOT FITTED		
			NOT FITTED		
			NOT FITTED		
			NOT FITTED		
			NOT FITTED		
			NOT FITTED		
			NOT FITTED		
			NOT FITTED		
			NOT FITTED		
			NOT FITTED		
			NOT FITTED		
			NOT FITTED		

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

Account 390

(MAWC Account 304.50)

Structures and Improvements – General Plant



other structures and improvements

ACCOUNT 304.50

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1910-2002

EXPERIENCE BAND 1910-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
79.1-S0	1.83	0 - 46			NOT FITTED
69.1-S0.5	2.46	0 - 46			NOT FITTED
61.3-S1	3.62	0 - 46			NOT FITTED
109.9-R0.5	1.32	0 - 46			NOT FITTED
87.1-R1	1.21	0 - 46			NOT FITTED
72.3-R1.5	1.32	0 - 46			NOT FITTED
61.4-R2	2.11	0 - 46			NOT FITTED
112.1-L0	1.28	0 - 46			NOT FITTED
92.9-L0.5	1.59	0 - 46			NOT FITTED
78.3-L1	2.55	0 - 46			NOT FITTED
136.2-O1	1.40	0 - 46			NOT FITTED
153.1-O2	1.40	0 - 46			NOT FITTED
223.5-O3	1.43	0 - 46			NOT FITTED

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

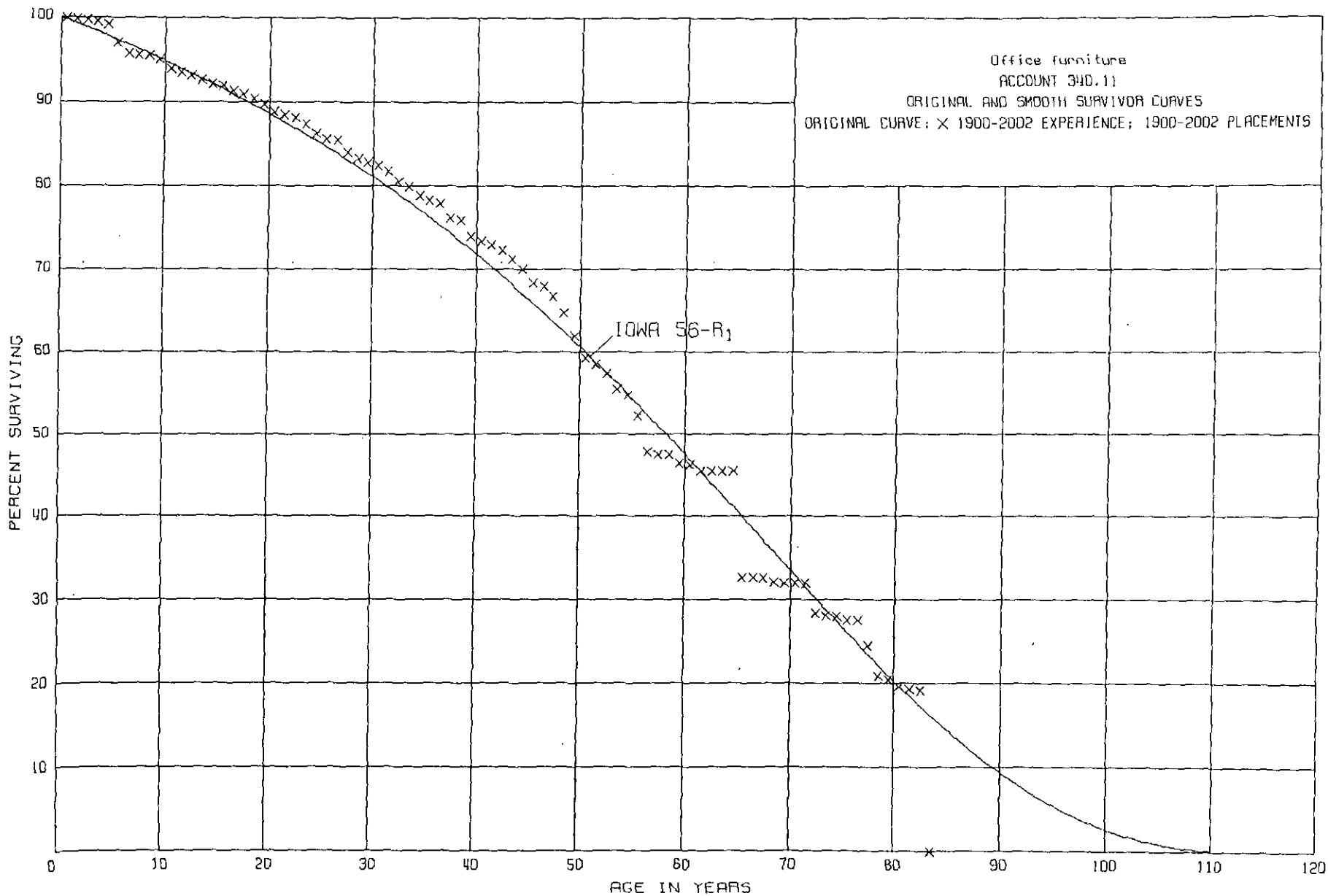
Account 391

(MAWC Account 340.11&340.12)

Office Furniture and Equipment

ITEMS

- Book Cases and Shelves
- Desks, Chairs, and Desk Equipment
- Drafting Room Equipment
- Electronic Data Processing Equipment
- Filing, Storage, and Other Cabinets
- Floor Covering
- Library and Library Equipment
- Mechanical Office Equipment
- Safes
- Tables



Office furniture

ACCOUNT 340.11

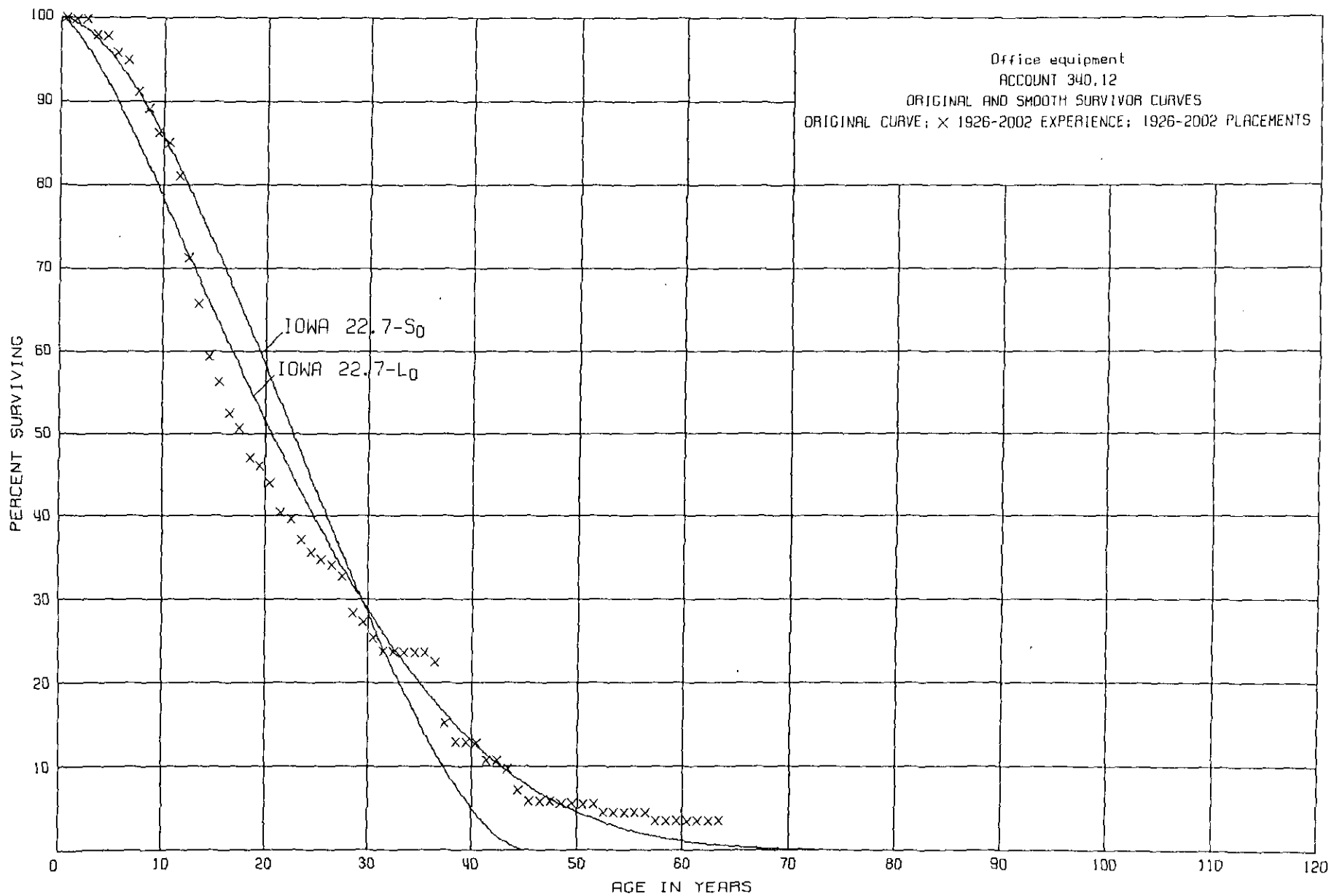
SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1900-2002

EXPERIENCE BAND 1900-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
58.1-S0	1.99	0 - 44		NOT FITTED	
52.7-S0.5	3.14	0 - 44		NOT FITTED	
48.6-S1	4.75	0 - 44	53.3-S1	2.64	27 - 44
70.8-R0.5	0.91	0 - 44		NOT FITTED	
59.3-R1	0.52	0 - 44		NOT FITTED	
52.2-R1.5	1.52	0 - 44	54.1-R1.5	1.04	27 - 44
47.2-R2	3.31	0 - 44	50.2-R2	2.24	27 - 44
77.5-L0	0.85	0 - 44		NOT FITTED	
67.2-L0.5	1.62	0 - 44		NOT FITTED	
59.6-L1	3.06	0 - 44		NOT FITTED	
85.1-O1	1.29	0 - 44		NOT FITTED	
95.7-O2	1.29	0 - 44		NOT FITTED	
138.4-O3	1.42	0 - 44		NOT FITTED	

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



Office equipment

ACCOUNT 340.12

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1926-2002

EXPERIENCE BAND 1926-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
19.4-S0	4.49	0 - 27	18.9-S0	5.31	11 - 27
19.1-S0.5	5.34	0 - 27	18.9-S0.5	6.97	11 - 27
18.8-S1	6.92	0 - 27	18.9-S1	8.84	11 - 27
19.9-R0.5	5.99	0 - 27	18.6-R0.5	4.81	11 - 27
19.1-R1	5.84	0 - 27	18.5-R1	6.85	11 - 27
18.8-R1.5	7.08	0 - 27	18.5-R1.5	9.24	11 - 27
18.5-R2	9.12	0 - 27	18.5-R2	11.81	11 - 27
22.1-L0	5.38	0 - 27	20.6-L0	3.42	11 - 27
21.1-L0.5	4.09	0 - 27	20.2-L0.5	3.52	11 - 27
20.3-L1	3.50	0 - 27	19.9-L1	4.16	11 - 27
19.8-L1.5	4.44	0 - 27	19.8-L1.5	5.73	11 - 27
19.4-L2	6.20	0 - 27	19.7-L2	7.66	11 - 27
21.0-O1	7.20	0 - 27	18.9-O1	3.92	11 - 27
23.6-O2	7.22	0 - 27	21.1-O2	3.81	11 - 27

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

max. age 64

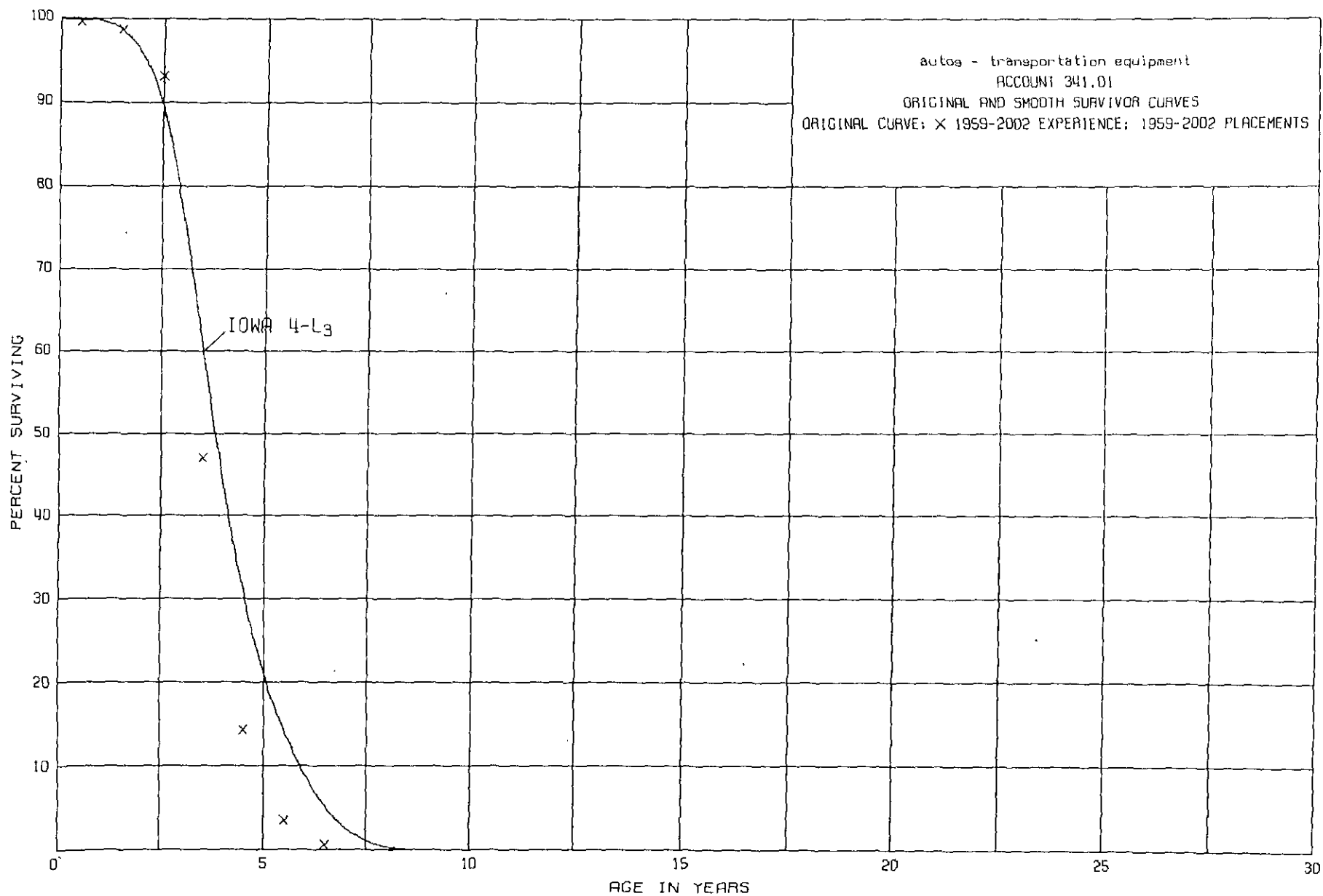
Account 392

(MAWC Account 341.01&342.01)

Transportation Equipment

ITEMS

- Airplanes
- Automobiles
- Bicycles
- Electrical Vehicles
- Motor Trucks
- Motorcycles
- Repair Cars or Trucks
- Tractors and Trailers
- Other Transportation Vehicles



autos - transportation equipment

ACCOUNT 341.01

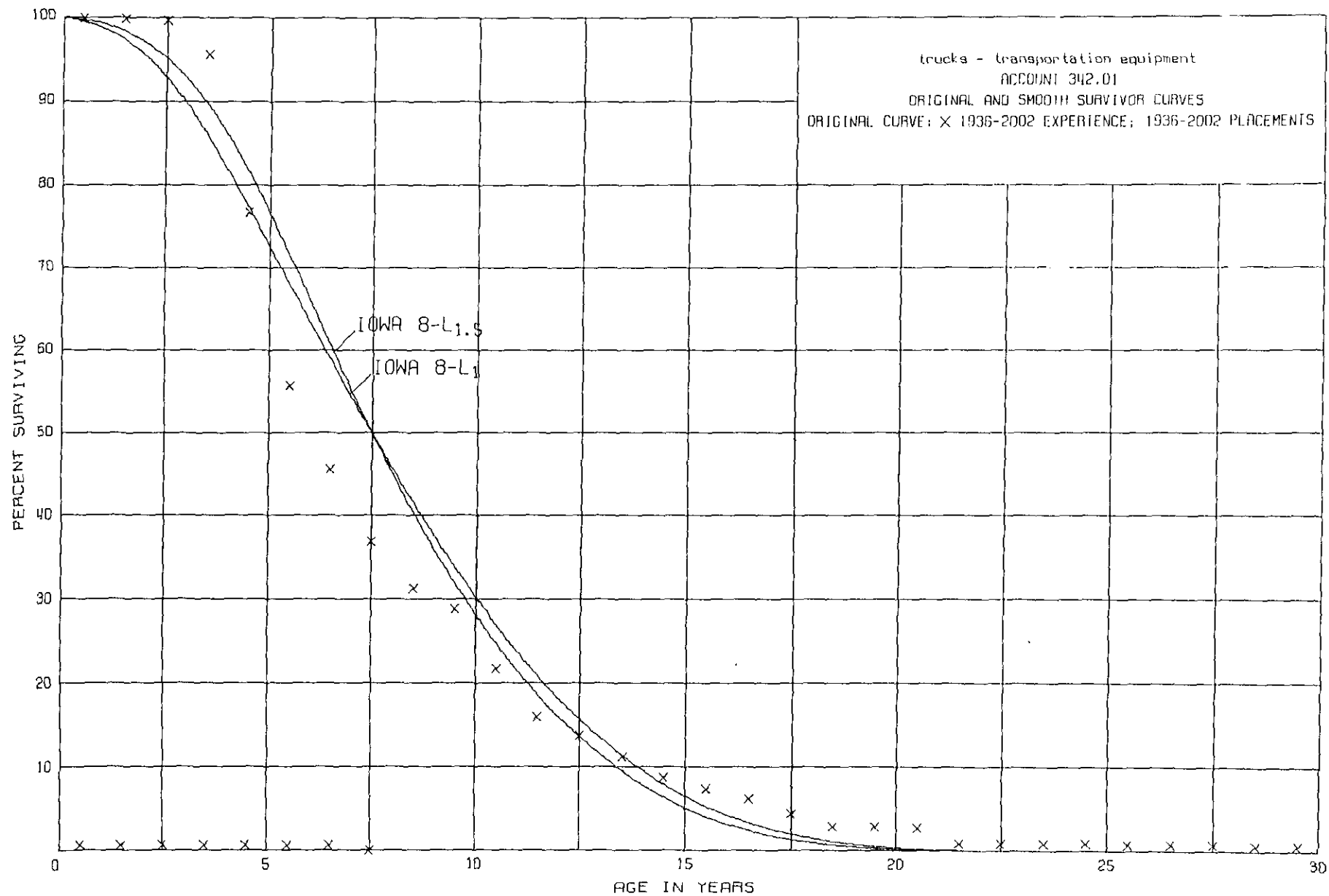
SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1959-2002

EXPERIENCE BAND 1959-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
3.6-S0	12.94	0 - 7		NOT FITTED	
3.6-S0.5	10.96	0 - 7		NOT FITTED	
3.6-S1	9.09	0 - 7		NOT FITTED	
3.6-S1.5	7.26	0 - 7		NOT FITTED	
3.6-S2	5.61	0 - 7		NOT FITTED	
3.6-S2.5	4.24	0 - 7		NOT FITTED	
3.6-S3	3.38	0 - 7		NOT FITTED	
3.6-S4	4.67	0 - 7		NOT FITTED	
3.6-S5	7.24	0 - 7		NOT FITTED	
3.6-R0.5	15.15	0 - 7		NOT FITTED	
3.6-R1	12.64	0 - 7		NOT FITTED	
3.6-R1.5	10.45	0 - 7		NOT FITTED	
3.6-R2	8.49	0 - 7		NOT FITTED	
3.6-R2.5	6.74	0 - 7		NOT FITTED	
3.6-R3	5.57	0 - 7		NOT FITTED	
3.6-R4	5.76	0 - 7		NOT FITTED	
3.6-R5	7.67	0 - 7		NOT FITTED	
3.7-L0	17.23	0 - 7		NOT FITTED	
3.7-L0.5	15.50	0 - 7		NOT FITTED	
3.6-L1	13.57	0 - 7		NOT FITTED	
3.6-L1.5	11.48	0 - 7		NOT FITTED	
3.6-L2	9.45	0 - 7		NOT FITTED	
3.6-L2.5	7.11	0 - 7		NOT FITTED	
3.6-L3	4.81	0 - 7		NOT FITTED	
3.6-L4	1.89	0 - 7		NOT FITTED	
3.6-L5	4.52	0 - 7		NOT FITTED	
3.6-O1	17.90	0 - 7		NOT FITTED	
3.8-O2	18.36	0 - 7		NOT FITTED	

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



trucks - transportation equipment

ACCOUNT 342.01

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1936-2002

EXPERIENCE BAND 1936-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
7.5-S0	7.91	0 - 17	6.8-S0	6.17	4 - 12
7.5-S0.5	8.09	0 - 17	6.9-S0.5	7.44	4 - 12
7.5-S1	8.75	0 - 17	7.0-S1	9.13	4 - 12
7.5-R0.5	9.00	0 - 17	6.7-R0.5	5.97	4 - 12
7.5-R1	9.31	0 - 17	6.8-R1	8.08	4 - 12
7.5-R1.5	9.82	0 - 17	6.8-R1.5	9.98	4 - 12
7.6-L0	7.43	0 - 17	7.0-L0	4.43	4 - 12
7.6-L0.5	6.37	0 - 17	7.0-L0.5	4.00	4 - 12
7.6-L1	5.82	0 - 17	7.0-L1	4.16	4 - 12
7.6-L1.5	5.77	0 - 17	7.1-L1.5	4.88	4 - 12
7.6-L2	6.46	0 - 17	7.1-L2	6.29	4 - 12
7.5-L2.5	7.90	0 - 17	7.1-L2.5	8.76	4 - 12
7.5-O1	9.67	0 - 17	6.6-O1	5.26	4 - 12
7.8-O2	8.73	0 - 17	7.2-O2	4.92	4 - 12
8.8-O3	12.07	0 - 17	8.3-O3	7.69	4 - 12

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

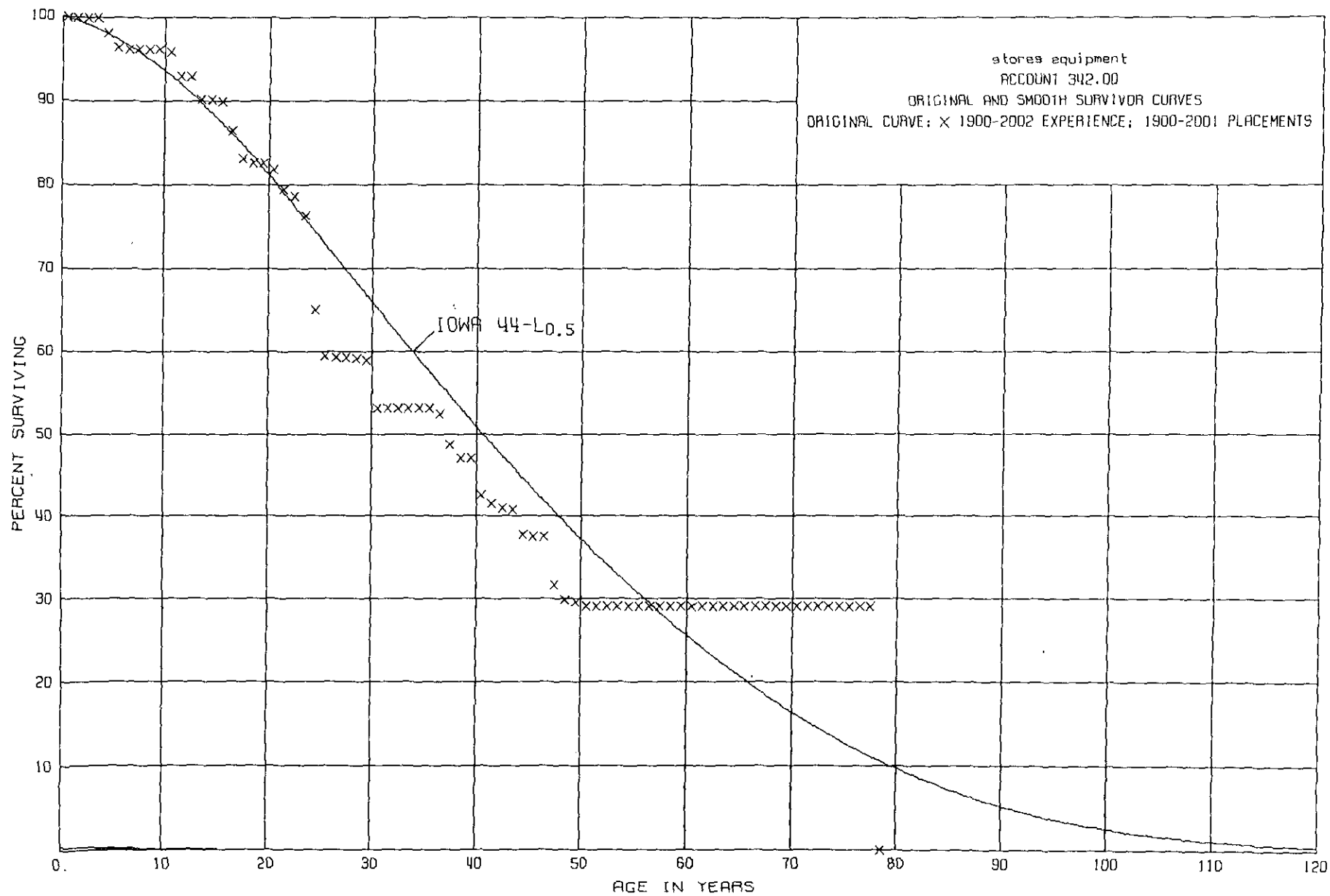
Account 393

(MAWC Account 342.00)

Stores Equipment

ITEMS

- Chain Falls
- Counters
- Cranes
- Elevating and Stacking Equipment
- Hoists
- Lockers
- Scales
- Shelving
- Storage Bins
- Trucks, hand and power driven
- Wheelbarrows



stores equipment

ACCOUNT 342.00

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1900-2001

EXPERIENCE BAND 1900-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
42.4-S0	11.11	0 - 79	42.5-S0	12.61	17 - 78
42.4-S0.5	12.60	0 - 79	42.7-S0.5	14.26	17 - 78
42.4-S1	14.29	0 - 79	42.9-S1	16.13	17 - 78
42.5-R0.5	10.31	0 - 79	41.9-R0.5	11.65	17 - 78
42.4-R1	12.65	0 - 79	42.2-R1	14.39	17 - 78
42.4-R1.5	14.36	0 - 79	42.5-R1.5	16.32	17 - 78
44.6-L0	6.96	0 - 79	44.1-L0	7.51	17 - 78
43.9-L0.5	7.73	0 - 79	43.8-L0.5	8.66	17 - 78
43.2-L1	8.92	0 - 79	43.5-L1	10.06	17 - 78
42.6-O1	8.61	0 - 79	41.7-O1	9.45	17 - 78
46.5-O2	7.29	0 - 79	45.3-O2	7.24	17 - 78
55.8-O3	6.95	0 - 79	53.2-O3	5.42	17 - 78
67.7-O4	7.97	0 - 79	63.1-O4	6.19	17 - 78

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

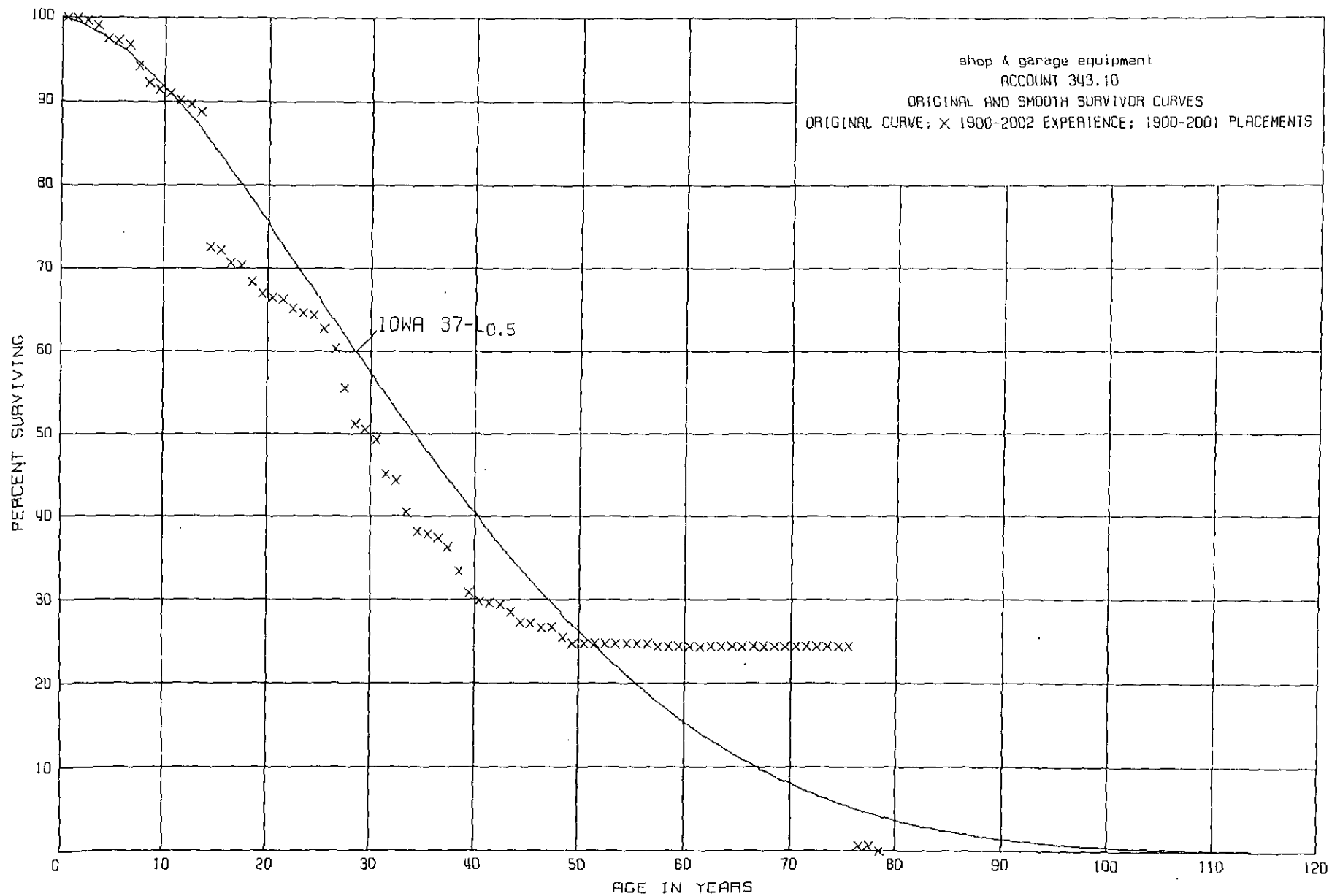
Account 394

(MAWC Account 343.10&343.20)

Tools, Shop and Garage Equipment

ITEMS

- Air Compressors
- Anvils
- Automobile Repair Shop Equipment
- Battery Charging Equipment
- Belts, Shafts and Countershafts
- Boilers
- Cable Pulling Equipment
- Concrete Mixers
- Drill Presses
- Derricks
- Electric Equipment
- Engines
- Forges
- Furnaces
- Foundations and Settings
- Gas Producers
- Gasoline Pumps, Oil Pumps and Storage Tanks
- Greasing Tools and Equipment
- Hoists
- Ladders
- Lathes
- Machine Tools
- Motor Driven Tools
- Motors
- Pipe Threading and Cutting Tools
- Pneumatic Tools
- Pumps
- Riveters
- Smithing Equipment
- Tool Racks
- Vises
- Welding Apparatus
- Work Benches



shop & garage equipment

ACCOUNT 343.10

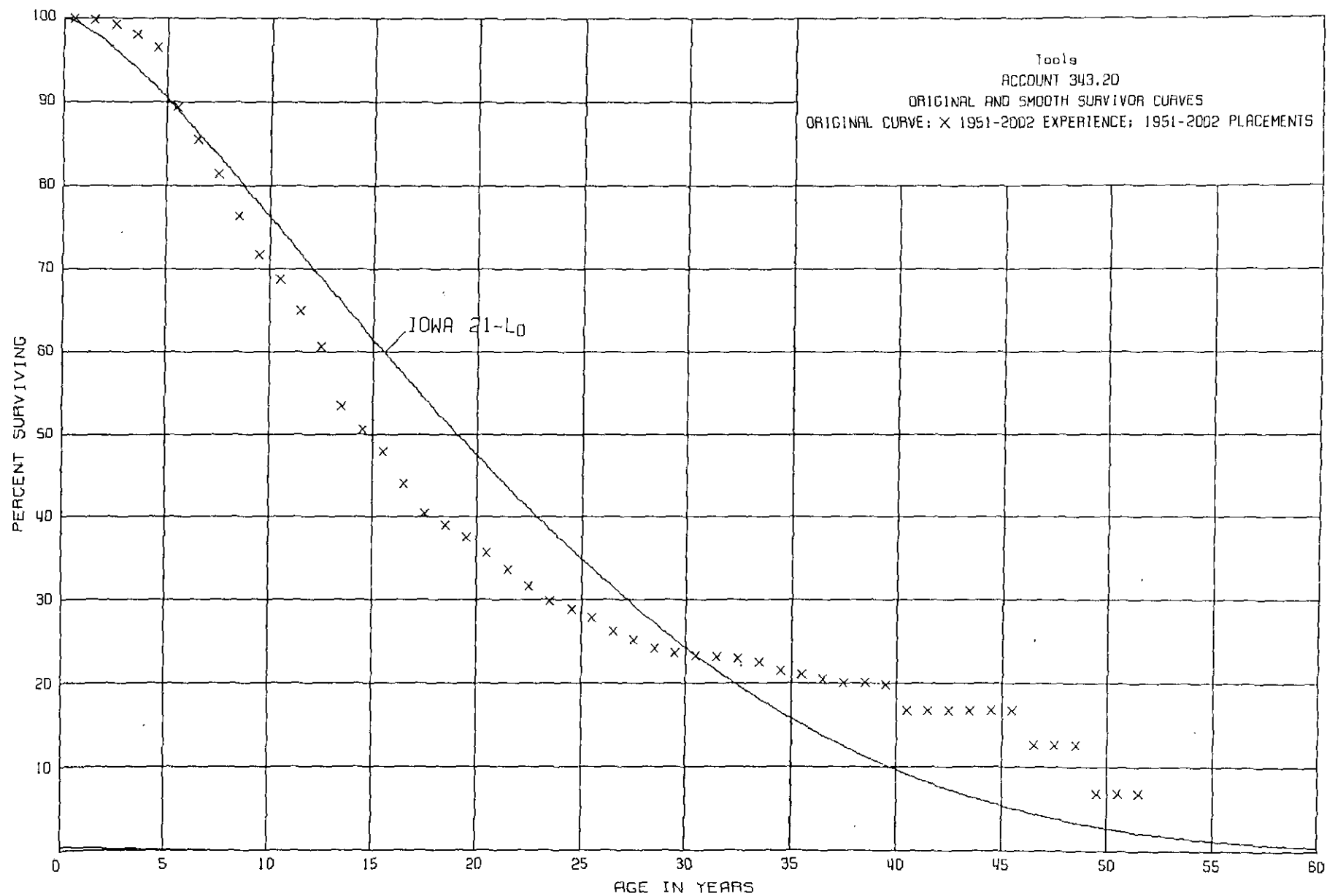
SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1900-2001

EXPERIENCE BAND 1900-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
32.3-S0	7.86	0 - 58	32.3-S0	9.01	14 - 58
32.3-S0.5	9.51	0 - 58	32.5-S0.5	10.81	14 - 58
32.2-S1	11.40	0 - 58	32.7-S1	12.82	14 - 58
32.4-R0.5	6.96	0 - 58	31.8-R0.5	7.82	14 - 58
32.3-R1	9.27	0 - 58	32.0-R1	10.67	14 - 58
32.2-R1.5	11.14	0 - 58	32.3-R1.5	12.76	14 - 58
34.3-L0	4.14	0 - 58	33.6-L0	4.15	14 - 58
33.6-L0.5	4.74	0 - 58	33.4-L0.5	5.36	14 - 58
33.1-L1	6.05	0 - 58	33.2-L1	6.89	14 - 58
32.6-O1	5.74	0 - 58	31.6-O1	5.70	14 - 58
35.9-O2	4.84	0 - 58	34.5-O2	3.73	14 - 58
43.7-O3	6.16	0 - 58	40.7-O3	4.44	14 - 58

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



Tools

ACCOUNT 343.20

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1951-2002

EXPERIENCE BAND 1951-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
16.8-S0	7.33	0 - 29	16.8-S0	8.34	7 - 29
16.7-S0.5	9.24	0 - 29	16.8-S0.5	10.42	7 - 29
16.7-S1	11.25	0 - 29	16.9-S1	12.58	7 - 29
16.9-R0.5	6.55	0 - 29	16.6-R0.5	7.19	7 - 29
16.7-R1	9.00	0 - 29	16.6-R1	10.28	7 - 29
16.7-R1.5	11.12	0 - 29	16.7-R1.5	12.68	7 - 29
18.0-L0	3.61	0 - 29	17.6-L0	3.40	7 - 29
17.6-L0.5	4.19	0 - 29	17.4-L0.5	4.65	7 - 29
17.2-L1	5.56	0 - 29	17.3-L1	6.24	7 - 29
17.1-O1	5.25	0 - 29	16.5-O1	4.76	7 - 29
18.9-O2	4.72	0 - 29	18.1-O2	3.42	7 - 29
23.4-O3	5.85	0 - 29	21.8-O3	3.90	7 - 29

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

max age 52

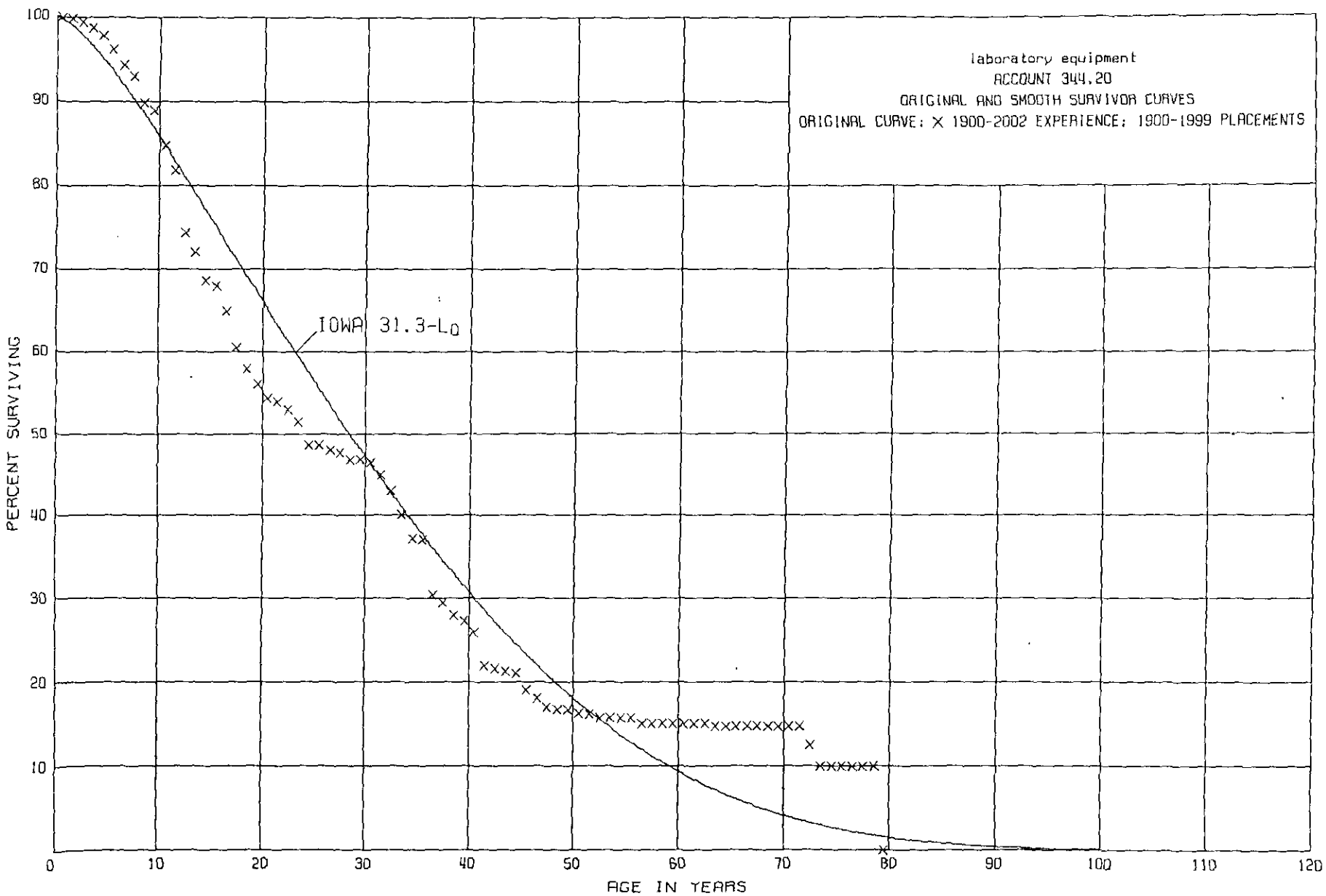
Account 395

(MAWC Account 344.10&344.20)

Laboratory Equipment

ITEMS

- Autoclaves
- Barometers
- Cameras
- Centrifuge
- Distilling Apparatus
- Furnaces
- Microscopes
- Ovens
- Pitometers
- Rain Gauges
- Refrigerators
- Scales
- Sterilizers
- Stop Watches
- Testing Machines
- Thermometers
- Voltmeters
- Other Bacteriological, Electric,
Chemical Hydraulic or Research
Equipment



laboratory equipment

ACCOUNT 344.20

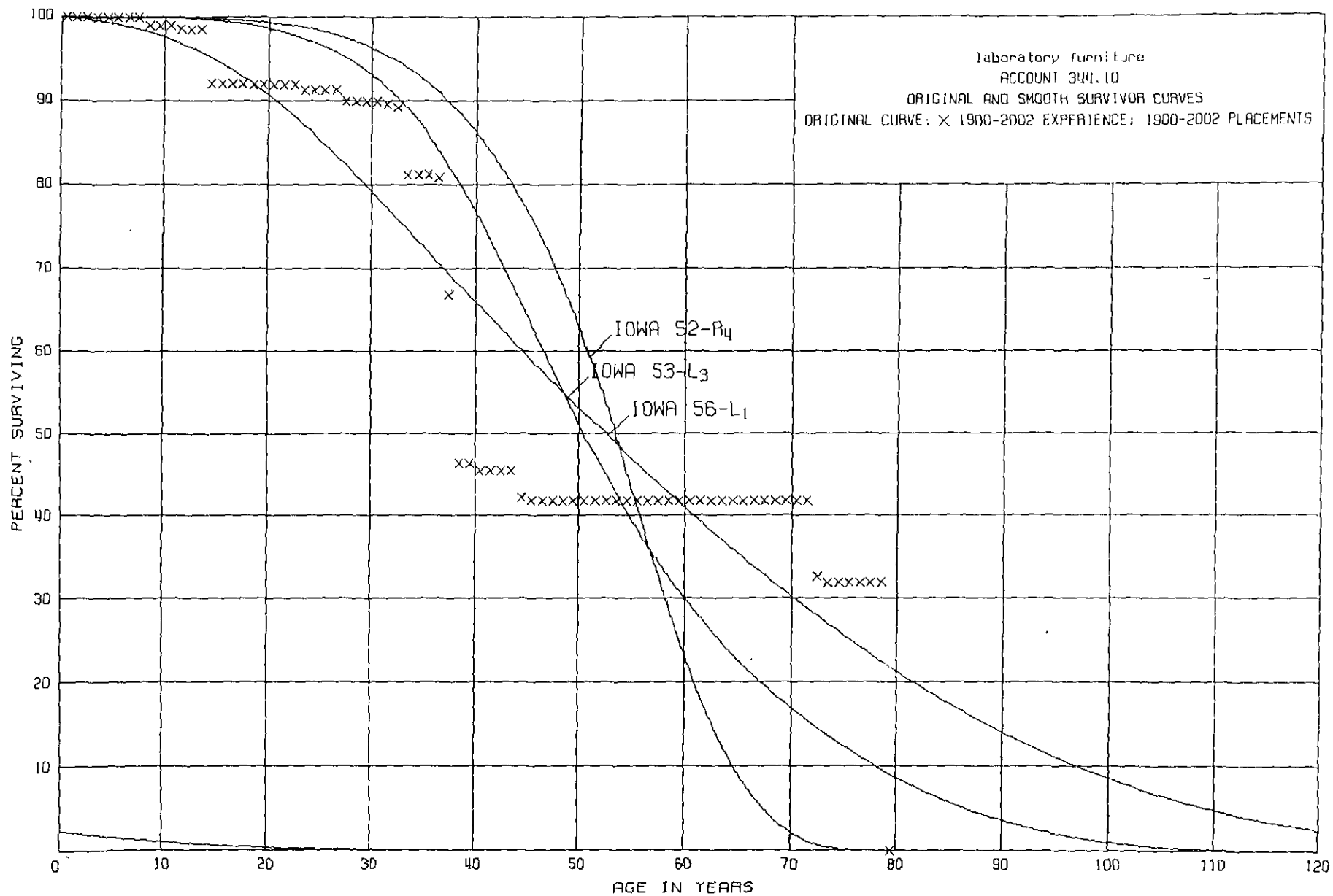
SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1900-1999

EXPERIENCE BAND 1900-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
25.7-S0	7.46	0 - 40	25.7-S0	8.60	10 - 40
25.5-S0.5	9.67	0 - 40	25.6-S0.5	11.04	10 - 40
25.3-S1	11.98	0 - 40	25.6-S1	13.44	10 - 40
26.0-R0.5	6.00	0 - 40	25.5-R0.5	6.87	10 - 40
25.5-R1	8.57	0 - 40	25.3-R1	10.01	10 - 40
25.3-R1.5	11.22	0 - 40	25.3-R1.5	12.94	10 - 40
28.4-L0	4.03	0 - 40	27.9-L0	4.38	10 - 40
27.5-L0.5	5.12	0 - 40	27.3-L0.5	5.92	10 - 40
26.7-L1	6.71	0 - 40	26.8-L1	7.67	10 - 40
26.8-O1	4.50	0 - 40	25.9-O1	4.07	10 - 40
30.0-O2	4.45	0 - 40	28.9-O2	3.88	10 - 40
38.6-O3	4.91	0 - 40	36.3-O3	3.34	10 - 40

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.



laboratory furniture

ACCOUNT 344.10

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1900-2002

EXPERIENCE BAND 1900-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
58.2-S0	8.85	0 - 42			
52.5-S0.5	8.16	0 - 42		NOT FITTED	
48.1-S1	7.42	0 - 42		NOT FITTED	
45.2-S1.5	6.81	0 - 42		NOT FITTED	
42.8-S2	6.39	0 - 42		NOT FITTED	
41.3-S2.5	6.06	0 - 42		NOT FITTED	
40.0-S3	6.18	0 - 42		NOT FITTED	
38.1-S4	7.33	0 - 42		NOT FITTED	
72.6-R0.5	10.37	0 - 42		NOT FITTED	
60.1-R1	9.76	0 - 42		NOT FITTED	
52.4-R1.5	8.91	0 - 42		NOT FITTED	
46.8-R2	7.74	0 - 42		NOT FITTED	
43.4-R2.5	6.70	0 - 42		NOT FITTED	
40.9-R3	5.75	0 - 42		NOT FITTED	
38.5-R4	5.45	0 - 42		NOT FITTED	
37.3-R5	8.25	0 - 42		NOT FITTED	
78.5-L0	9.70	0 - 42		NOT FITTED	
67.6-L0.5	9.06	0 - 42		NOT FITTED	
59.4-L1	8.30	0 - 42		NOT FITTED	
53.4-L1.5	7.57	0 - 42		NOT FITTED	
48.9-L2	6.84	0 - 42		NOT FITTED	
45.7-L2.5	6.27	0 - 42		NOT FITTED	
43.2-L3	6.02	0 - 42		NOT FITTED	
39.6-L4	6.13	0 - 42		NOT FITTED	
38.0-L5	8.08	0 - 42		NOT FITTED	
87.8-O1	10.66	0 - 42		NOT FITTED	
98.8-O2	10.66	0 - 42		NOT FITTED	
143.1-O3	10.75	0 - 42		NOT FITTED	

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

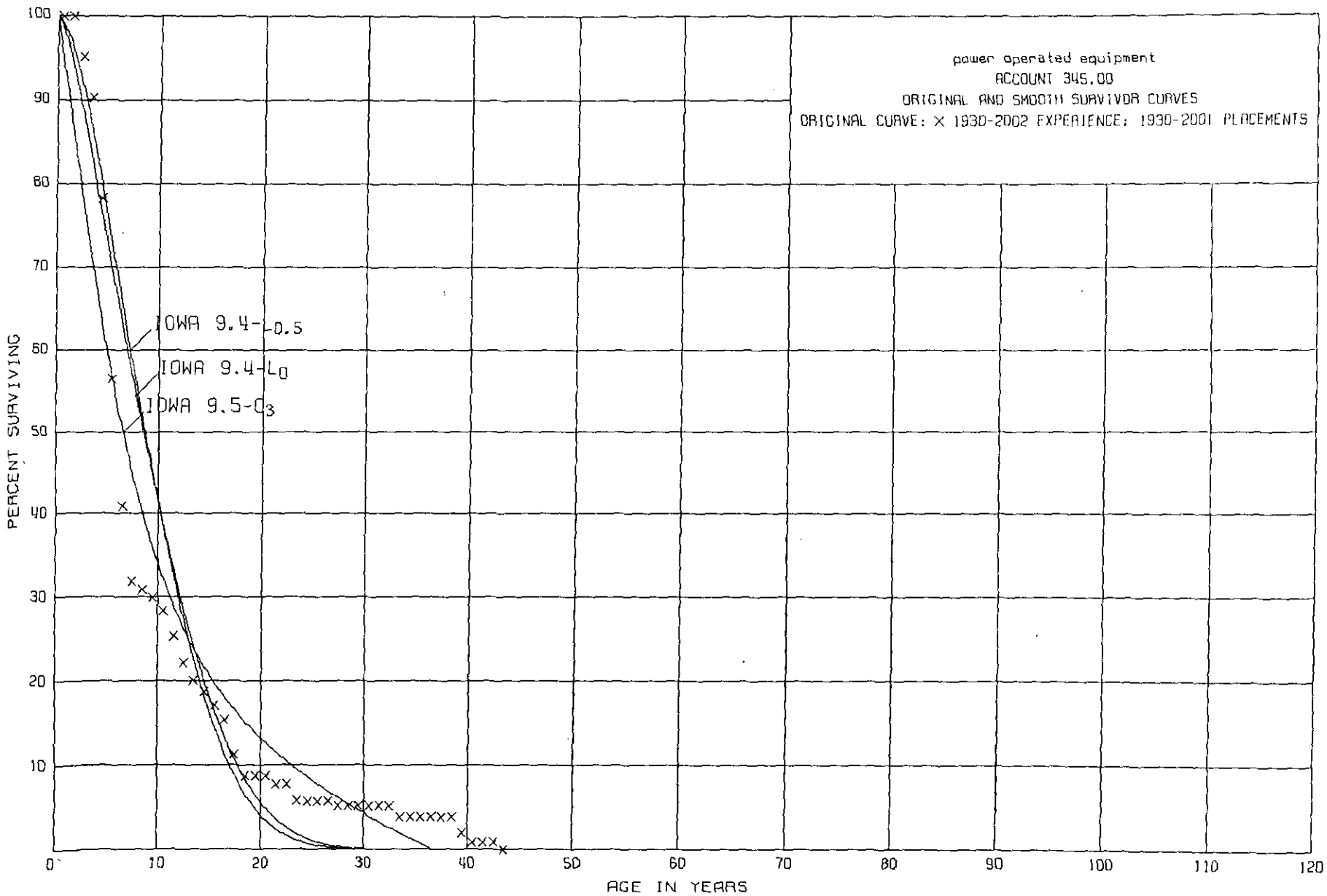
Account 396

(MAWC Account 345.00)

Power Operated Equipment

ITEMS

- Air Compressors, including driving unit and vehicle
- Back Filling Machines
- Boring Machines
- Bulldozers
- Cranes and Hoists
- Diggers
- Engines
- Pile Drivers
- Pipe Cleaning Machines
- Pipe Coating or Wrapping Machines
- Tractors – Crawler Type
- Trenchers
- Other Power Operated Equipment



power operated equipment

ACCOUNT 345.00

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1930-2001

EXPERIENCE BAND 1930-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
9.3-S0	10.71	0 - 40	7.9-S0	13.61	4 - 17
9.3-S0.5	11.35	0 - 40	8.0-S0.5	14.78	4 - 17
9.3-S1	12.14	0 - 40	8.0-S1	16.04	4 - 17
9.3-R0.5	10.68	0 - 40	7.7-R0.5	13.12	4 - 17
9.3-R1	11.69	0 - 40	7.8-R1	15.10	4 - 17
9.3-R1.5	12.50	0 - 40	7.9-R1.5	16.61	4 - 17
9.3-L0	7.89	0 - 40	7.8-L0	8.36	4 - 17
9.3-L0.5	8.33	0 - 40	7.9-L0.5	9.33	4 - 17
9.3-L1	8.99	0 - 40	7.9-L1	10.44	4 - 17
9.3-O1	10.05	0 - 40	7.6-O1	11.77	4 - 17
9.4-O2	7.71	0 - 40	7.9-O2	7.73	4 - 17
9.5-O3	6.62	0 - 40	8.5-O3	6.18	4 - 17
9.3-O4	8.62	0 - 40	9.3-O4	7.77	4 - 17

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

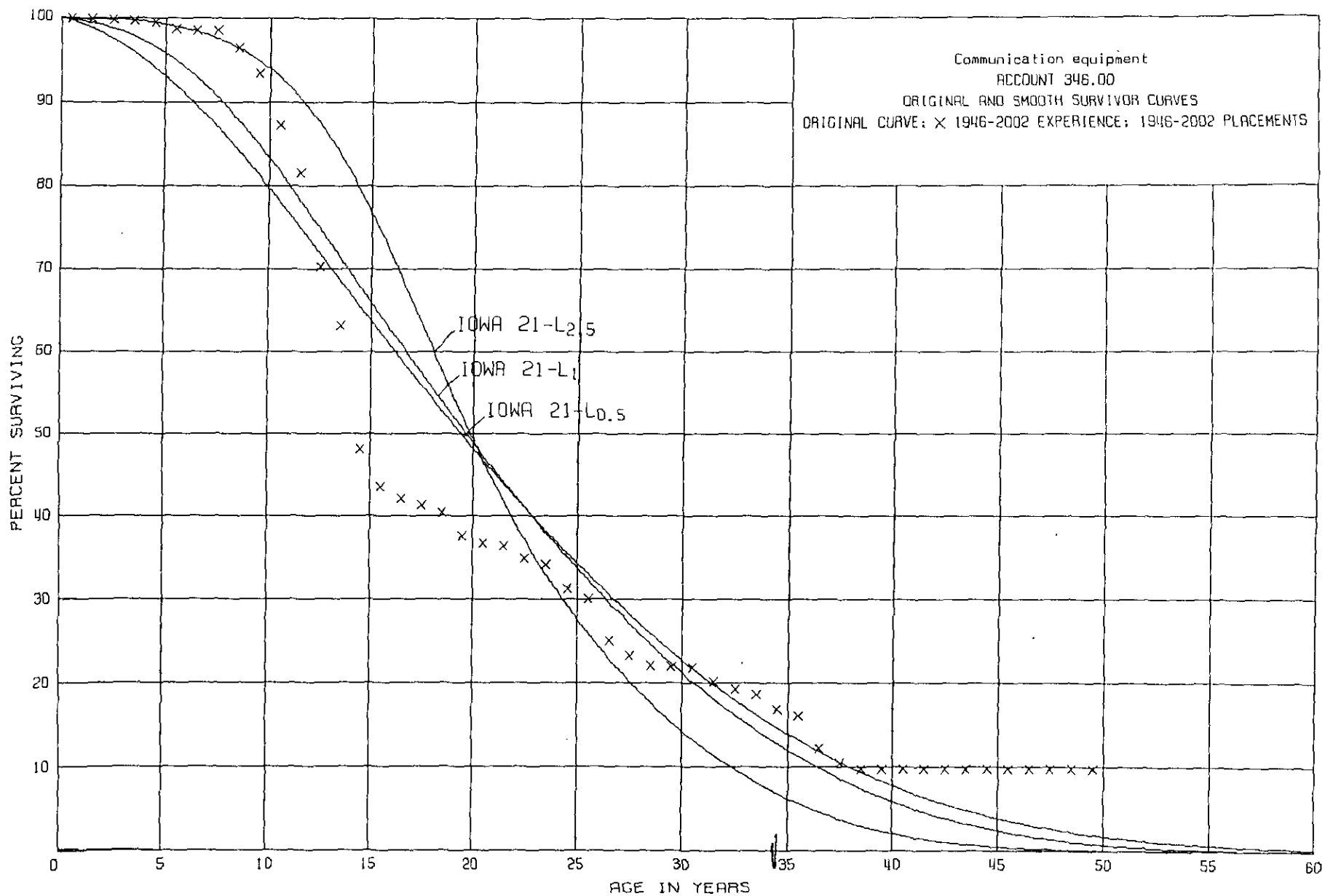
Account 397

(MAWC Account 346.00)

Communication Equipment

ITEMS

- Antennae
- Booths
- Cables
- Distribution Boards
- Extension Cords
- Gongs
- Handsets, Manual and Dial
- Insulators
- Intercommunicating Sets
- Loading Coils
- Operators Desks
- Poles and Fixtures
- Radio Transmitting and Receiving Sets
- Sending Keys
- Storage Batteries
- Switchboards
- Telautograph Circuit Connections
- Telegraph Receiving Sets
- Telephone and Telegraph Circuits
- Testing Instruments
- Towers
- Underground Conduit



Communication equipment

ACCOUNT 346.00

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1946-2002

EXPERIENCE BAND 1946-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
19.2-S0	9.07	0 - 34	18.5-S0	9.82	11 - 34
19.2-S0.5	9.69	0 - 34	18.7-S0.5	11.22	11 - 34
19.2-S1	10.77	0 - 34	18.9-S1	12.90	11 - 34
19.3-R0.5	10.00	0 - 34	18.1-R0.5	9.29	11 - 34
19.2-R1	10.75	0 - 34	18.4-R1	11.74	11 - 34
19.2-R1.5	11.76	0 - 34	18.6-R1.5	13.61	11 - 34
20.5-L0	8.78	0 - 34	18.8-L0	5.88	11 - 34
20.1-L0.5	7.84	0 - 34	18.9-L0.5	6.46	11 - 34
19.7-L1	7.33	0 - 34	18.9-L1	7.33	11 - 34
19.5-L1.5	7.53	0 - 34	19.1-L1.5	8.51	11 - 34
19.4-L2	8.40	0 - 34	19.2-L2	10.04	11 - 34
19.5-O1	10.36	0 - 34	17.8-O1	7.62	11 - 34
21.5-O2	10.19	0 - 34	19.1-O2	5.86	11 - 34
26.3-O3	11.84	0 - 34	21.7-O3	6.28	11 - 34

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

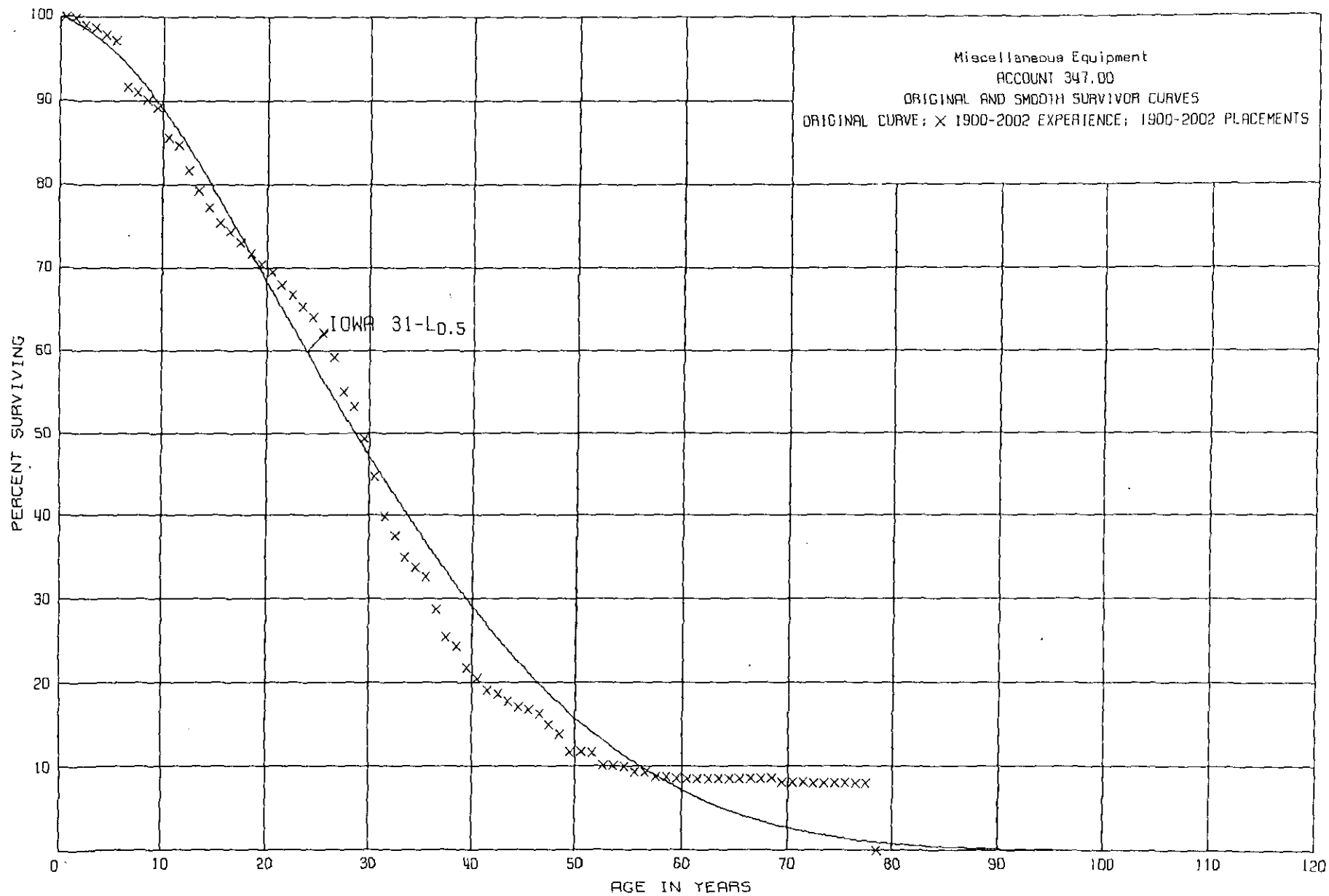
Account 398

(MAWC Account 347.00)

Miscellaneous Equipment

ITEMS

- Hospital and Infirmary Equipment
- Recreation Equipment
- Radios
- Restaurant Equipment
- Soda Fountains
- Operator's Cottage Furnishings
- Electric Signs
- Other Miscellaneous Equipment



Miscellaneous Equipment

ACCOUNT 347.00

SUMMARY OF CURVE FITTING RESULTS - PCT SURV BALANCED AREAS

PLACEMENT BAND 1900-2002

EXPERIENCE BAND 1900-2002

SURVIVOR CURVE	RESID MEAS	RANGE OF FIT	SURVIVOR CURVE	RESID MEAS	RANGE OF FIT*
30.8-S0	5.99	0 - 79	28.4-S0	3.06	11 - 47
30.8-S0.5	6.45	0 - 79	28.4-S0.5	4.39	11 - 47
30.8-S1	7.39	0 - 79	28.4-S1	6.44	11 - 47
30.8-R0.5	6.22	0 - 79	28.1-R0.5	2.88	11 - 47
30.8-R1	6.61	0 - 79	28.0-R1	3.49	11 - 47
30.8-R1.5	7.25	0 - 79	28.1-R1.5	5.59	11 - 47
30.9-L0	4.56	0 - 79	30.3-L0	5.27	11 - 47
30.8-L0.5	4.10	0 - 79	29.8-L0.5	4.05	11 - 47
30.8-L1	4.50	0 - 79	29.4-L1	3.64	11 - 47
30.8-L1.5	5.16	0 - 79	29.2-L1.5	4.59	11 - 47
30.8-O1	7.06	0 - 79	28.2-O1	5.34	11 - 47
31.2-O2	4.85	0 - 79	31.3-O2	5.88	11 - 47
33.8-O3	9.32	0 - 79	38.3-O3	9.61	11 - 47

* SEGMENT BETWEEN 85.0 AND 15.0 PERCENT SURVIVING.

Full Band - 79 years

Account 399

(MAWC Account 348.00)

Other Tangible Property

MAWC WR-2003-500 OTHER TANGIBLE PROPERTY

ACCOUNT 348.00

NO RETIREMENTS