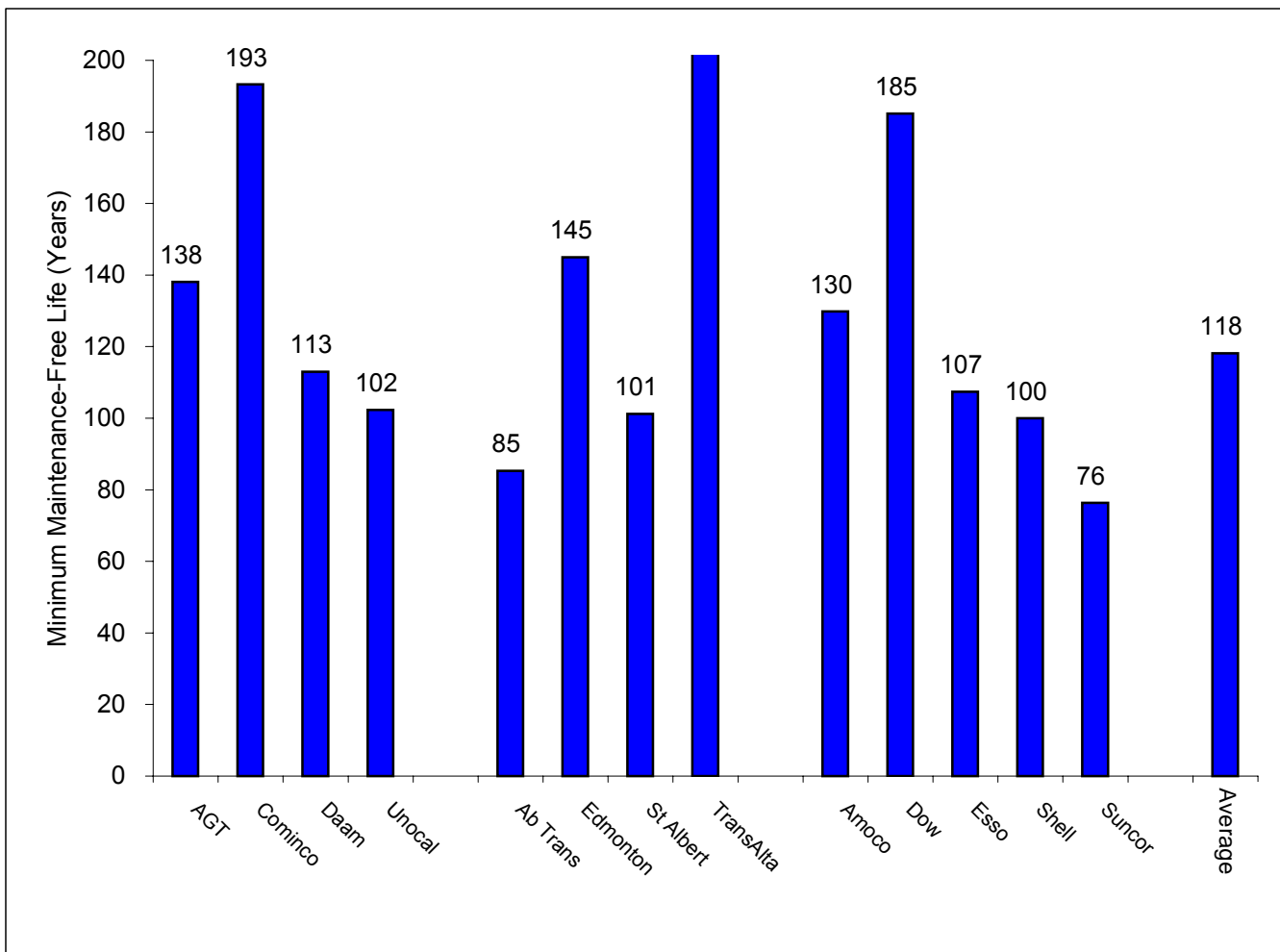


Lifetime of Galvanizing in Alberta*

Minimum Life Atmospheric Exposure



Graph Legend	Owner	Project	Structure Location	Age yrs	Test Period yrs	Corrosion Rate um/yr	Min* Life yrs
RURAL/URBAN/LIGHT INDUSTRIAL							
AGT	Alta Government Telepho	Microwave Towers	Crossfield/Ponoka	37	9	0.63	138
Cominco	Alberta Energy Company	Cominco Nitrogen	Joffre	7	6	0.45	193
Daam	Daam Galvanizing Inc	Galvanizing Plant	Edmonton	18	9	0.77	113
Unocal	Unocal Coal	Coal mine conveyer	Obed	9	9	0.85	102
ROADSIDE							
Ab Trans	Alberta Transportation	Grade Separation	Carvel, Hwy 16	22	7	1.02	85
Edmonton	City of Edmonton	Traffic Control Poles	Edmonton	9	9	0.60	145
St Albert	City of Edmonton	Lighting Poles	St Albert Trail	9	7	0.86	101
TransAlta	Transalta Utilities	Transmission Tower	Calgary	54	7	0.43	202
HEAVY INDUSTRIAL							
Amoco	Amoco Petroleum	Sour Gas Plant	Fox Creek	15	7	0.67	130
Dow	Dow Chemical	Petrochemical Plant	Fort Saskatchewan	16	6	0.47	185
Esso	Esso Chemicals	Urea Plant	Redwater	11	6	0.81	107
Shell	Shell Canada Resources	Oil Refinery	Scotford	11	8	0.87	100
Suncor	Suncor Inc	Sour Gas Plant	Rosevear	14	9	1.14	76
Average All Environments:						0.74 um/yr	118 yrs

*Graph based on minimum life for CSA G164 coating required of 87um. Hot-Dip galvanizing is typically 30% - 50% above G164, therefore expected life is 30-50% longer than shown on graph. Based on case studies following ASTM A896 as summarized above.