



Figure 3: Estimated IDF Curve for PT11 Rain Gauge Climate Change Condition (Year 2050-2100)

The climate change projections for the IDF values result in an increase in storm depth for all durations and return periods. The percent increase from City's current IDF (i.e., IDF from Year 1959-1979, 1982-1983, & 1994-2008) to climate change IDF values range from 23-49% with an average increase of 34%. The largest increases occur during higher return period and shorter duration storm events.

Table 6 compares the design storm depths in the City's current IDF (in the Subdivision and Development Servicing Bylaw), 2018 IDF and climate change IDF. Percentage changes between in the existing condition and the climate change condition are provided for 10-year and 100-year design storms.