1. Cumulative degree days summary results for Tucannon summer steelhead under long-term average temperatures for the Columbia River

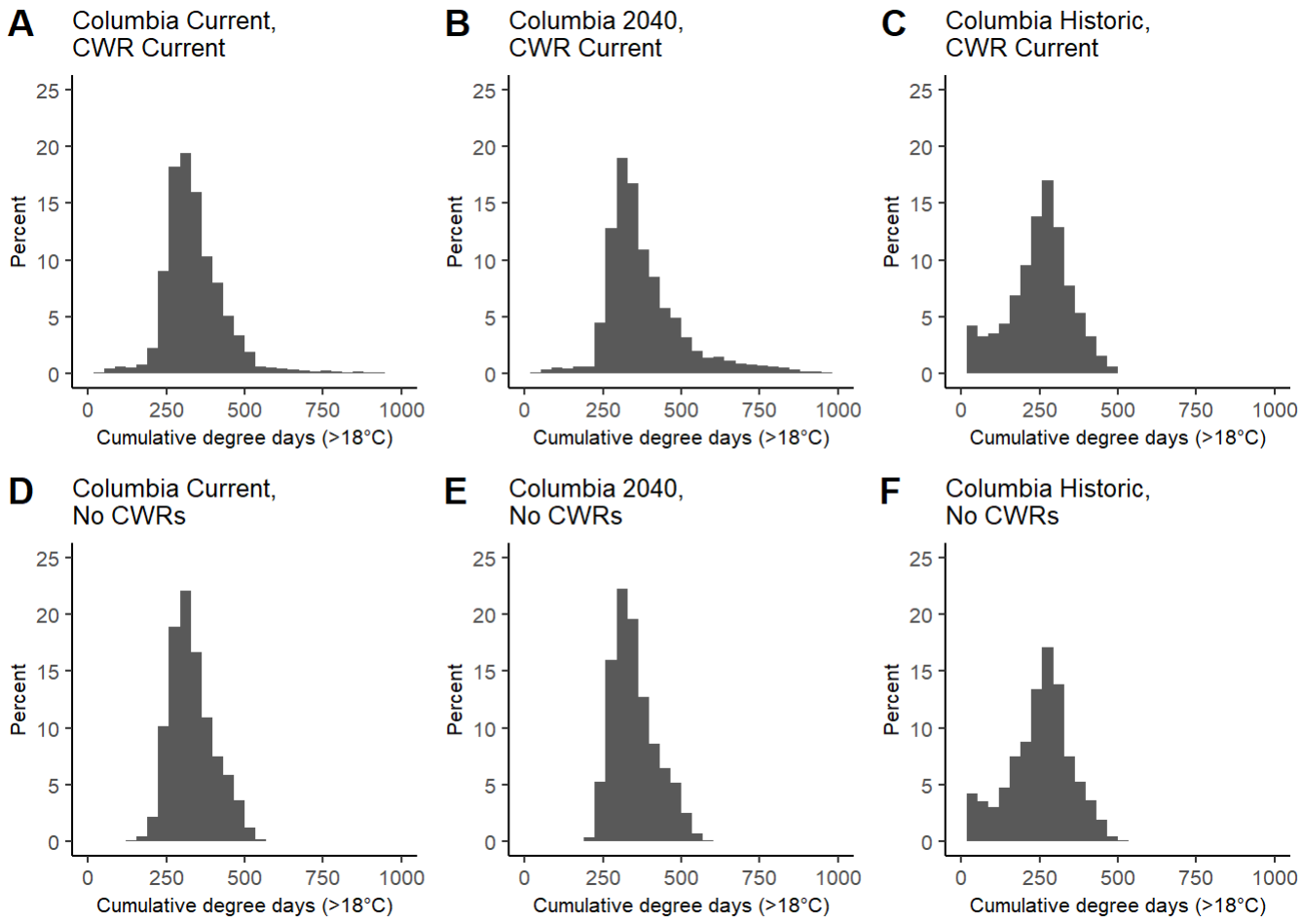

Fig. 1.1 Histograms of modeled Tucannon River summer steelhead accumulated degrees day over 18°C from Bonneville to the Snake River confluence in the Columbia River.

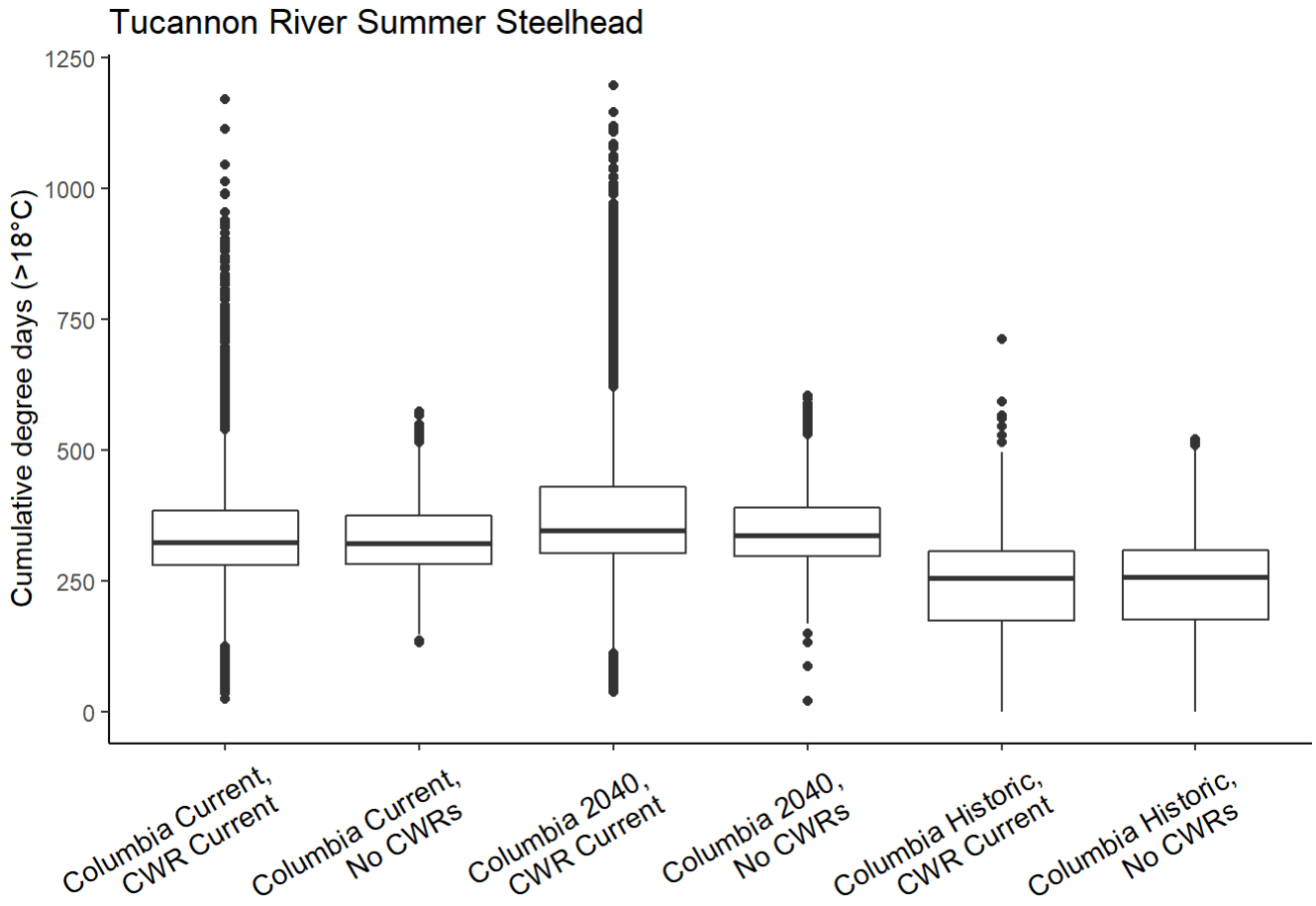

Fig. 1.2 Boxplots of modeled Tucannon River summer steelhead accumulated degrees day over 18°C from Bonneville to the Snake River confluence in the Columbia River.

Table 1.1 Cumulative degree days (>18°C) used across different HexSim thermalscapes summarized for Tucannon River Summer Steelhead.

Scenario	Minimum	25% quantile	Median	75% quantile	Maximum
Columbia 2040, CWR Current	38	303	348	431	1197
Columbia Historic, CWR Current	1	175	256	308	712
Columbia Current, CWR Current	25	281	325	385	1170
Columbia 2040, No CWRs	21	298	337	391	605
Columbia Historic, No CWRs	1	177	258	310	521
Columbia Current, No CWRs	134	282	322	375	574

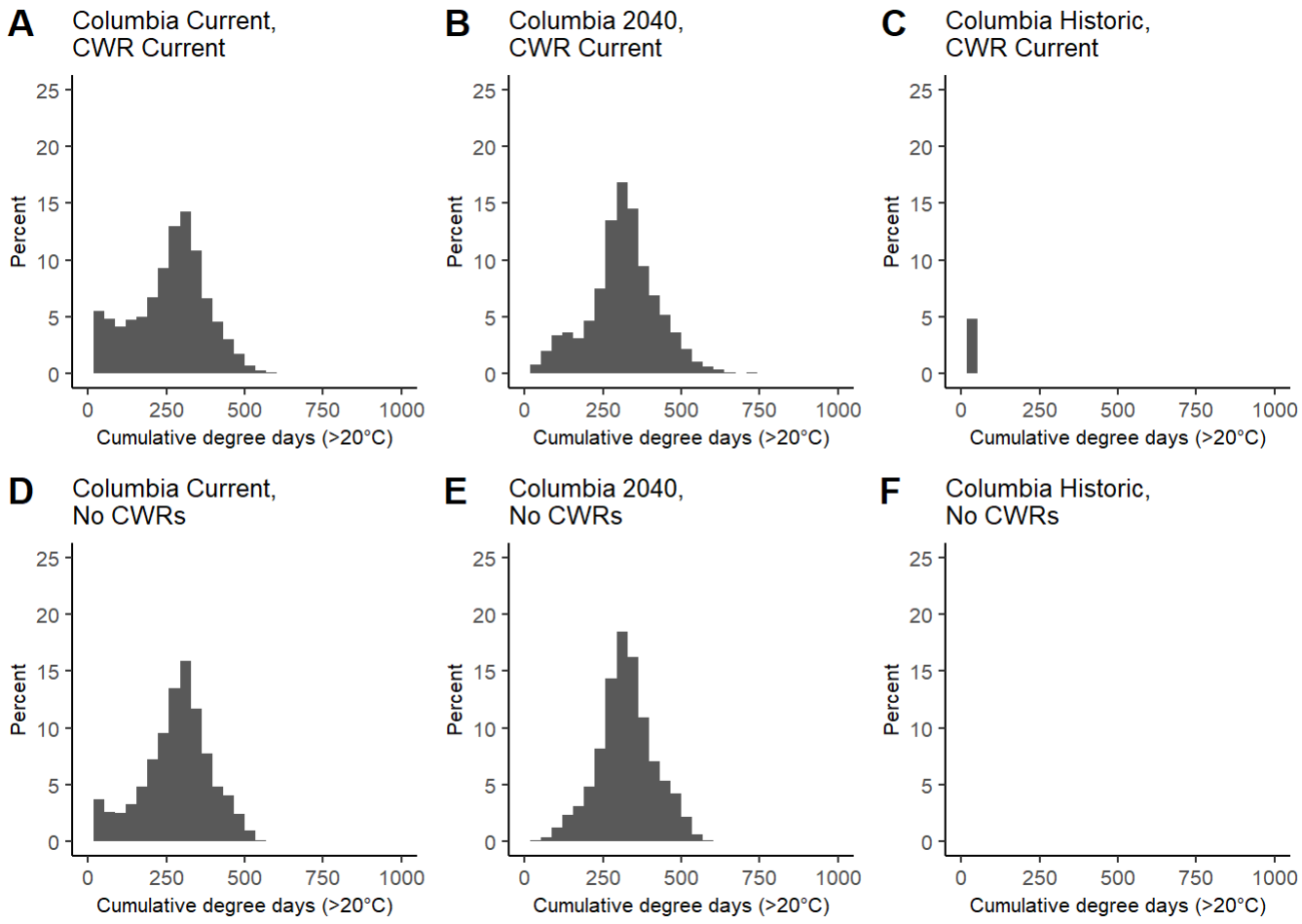

Fig. 1.3 Histograms of modeled Tucannon River summer steelhead accumulated degrees day over 20°C from Bonneville to the Snake River confluence in the Columbia River.

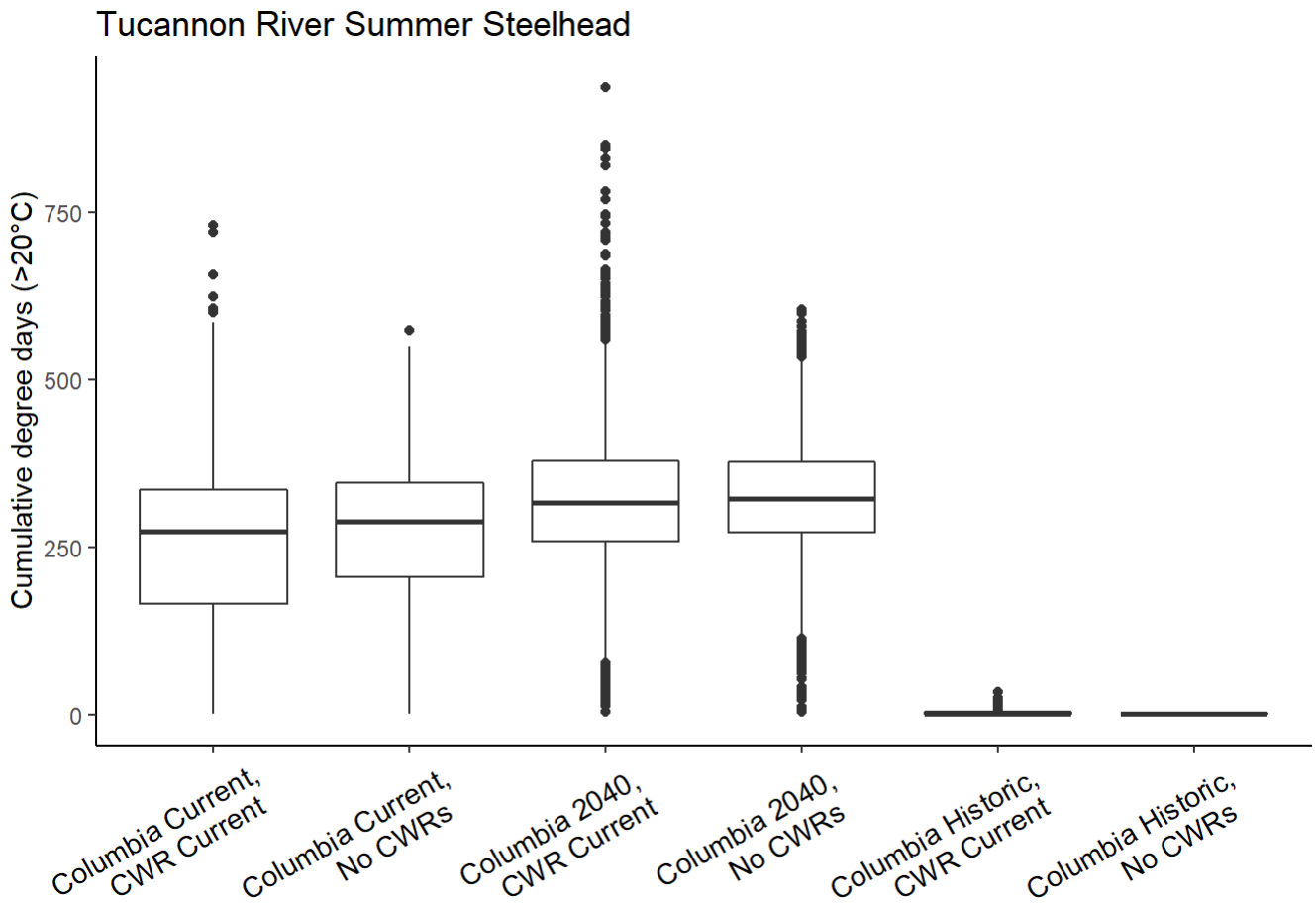

Fig. 1.4 Boxplots of modeled Tucannon River summer steelhead accumulated degrees day over 20°C from Bonneville to the Snake River confluence in the Columbia River.

Table 1.2 Cumulative degree days (>20°C) used across different HexSim thermalscapes summarized for Tucannon River Summer Steelhead.

Scenario	Minimum	25% quantile	Median	75% quantile	Maximum
Columbia 2040, CWR Current	3	258	316	379	937
Columbia Historic, CWR Current	1	1	1	3	33
Columbia Current, CWR Current	1	165	273	336	732
Columbia 2040, No CWRs	3	272	322	377	605
Columbia Historic, No CWRs	1	1	1	1	1
Columbia Current, No CWRs	1	205	288	347	574

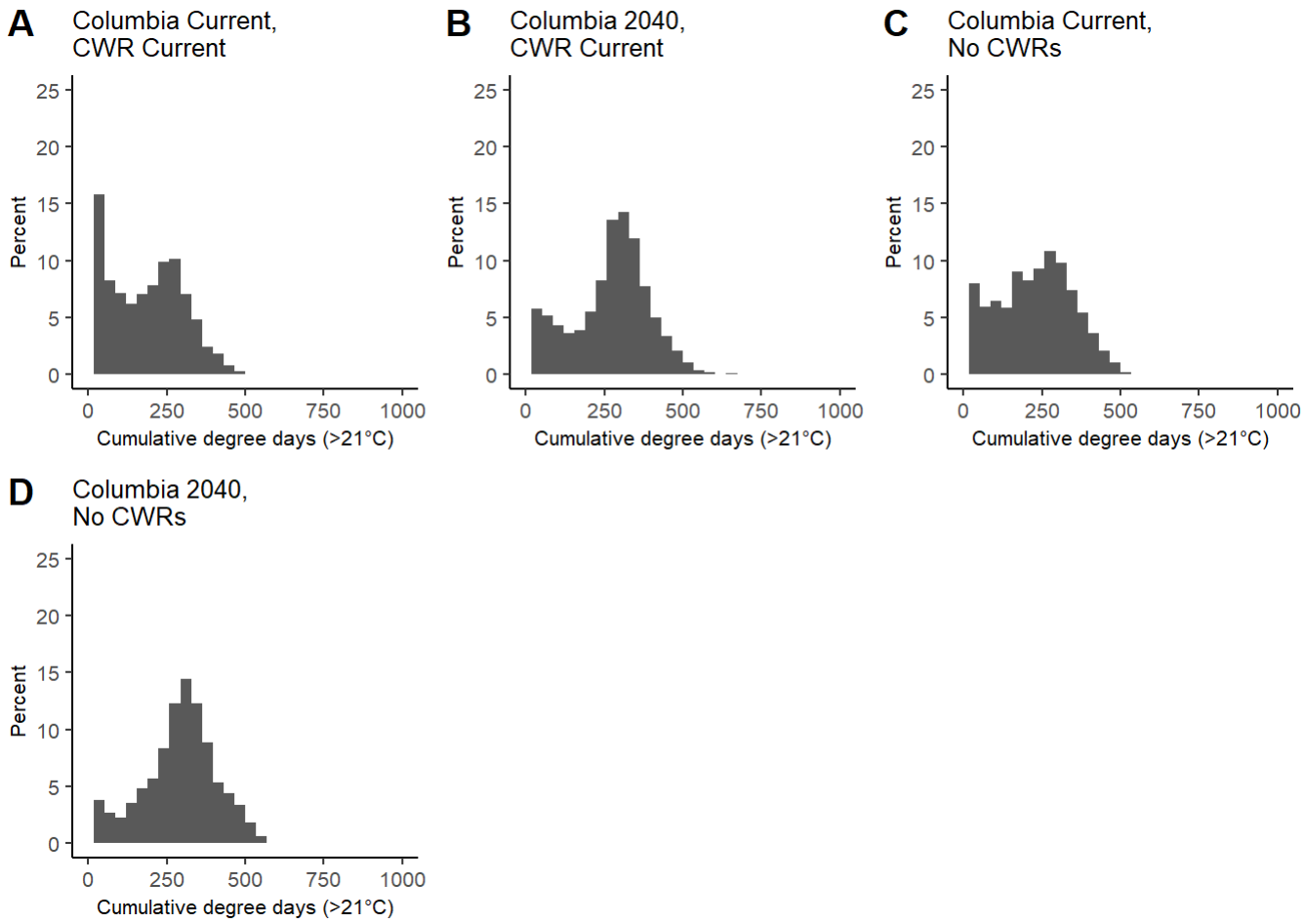

Fig. 1.5 Histograms of modeled Tucannon River summer steelhead accumulated degrees day over 21°C from Bonneville to the Snake River confluence in the Columbia River.

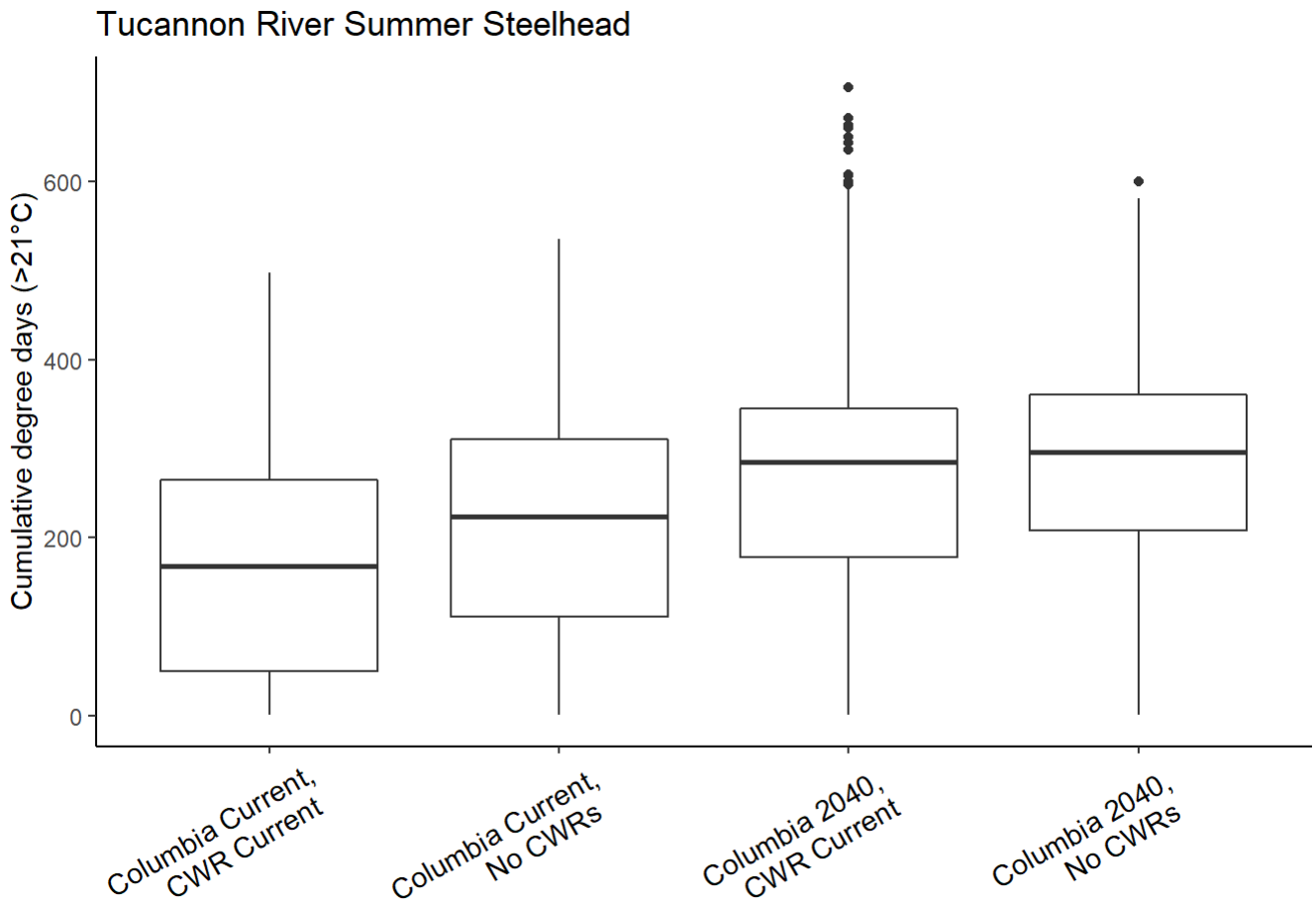

Fig. 1.6 Boxplots of modeled Tucannon River summer steelhead accumulated degrees day over 21°C from Bonneville to the Snake River confluence in the Columbia River.

Table 1.3 Cumulative degree days (>21°C) used across different HexSim thermalscapes summarized for Tucannon River Summer Steelhead.

Scenario	Minimum	25% quantile	Median	75% quantile	Maximum
Columbia 2040, CWR Current	1	177	285	345	705
Columbia Current, CWR Current	1	50	168	265	497
Columbia 2040, No CWRs	1	208	296	361	600
Columbia Current, No CWRs	1	111	223	310	535