

| Stations | Drainage area (km ²) | Watershed location | Number of water temperature samples | |
|----------------------------------|----------------------------------|--------------------|-------------------------------------|------------|
| | | | Calibration | Validation |
| Athabasca River at Old Fort | 154 800 | downstream | 97 | 71 |
| Muskeg River near Fort Mackay | 1715 | downstream | 102 | 39 |
| Athabasca River near Horse River | 98 270 | downstream | 103 | 99 |
| Athabasca River at Athabasca | 73 580 | midstream | 187 | 117 |
| Athabasca River near Windfall | 19 650 | upstream | 60 | / |