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Title: Hydrological function in strip-harvested, mid-rotation, lodgepole pine silvopastures.

Supervisor: Dr. Lauchlan Fraser

Committee: Dr. Tom Pypker, Dr. David Hill, Dr. Brian Wallace

Abstract:

The Goudie Agroforestry Pilot Project (GAPP) is an operational-scale experiment near Kelowna, BC. Multiple 43-year-old lodgepole pine stands were strip-harvested, in 2018, and seeded with agronomic species. Three timber harvest widths (10m, 15m, 20m) are being compared to non-harvested controls and conventional clearcuts, in a complete randomized block design. This current research is examining how varying strip widths affect peak snow accumulation, melt rates, and soil moisture. Greater understanding of these processes is intended to contribute to land-use and water management planning.