## Mount Mansfield Paired Watershed Study

## U.S. Geological Survey Vermont Monitoring Cooperative

Water Year 2001

	In September 2000, the	e USGS established st	ream gages on the W	Vest Branch of the Li	ttle
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Brook). West Branch watershed has an area of 11.84 km² and Ranch Brook watershed has an area of 9.84 km². West Branch drains the entire Stowe Mountain Resort, which occupies much of the basin. Ranch Brook is an undisturbed forested basin. The gages were set up to investigate differences in hydrology that may arise from these differences

	2). In May, the runoff ratio shifted sharply back to a greater output from West Branch.
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	compacted snow. It should be noted that snow conditions in the winter of 2001 worked to minimize potential effects of development on differences in flow in the two basins. An unusual abundance of natural growted to for loss marking made account and the release to the condition of the condition
	unusual abundance of natural snow led to far less machine-made snow produced than in a typical year. At the basin scale, machine-made snow made up very little of the snowpack and melting of the natural snowpack dominated both watersheds. Yet, the high diurnal
	marks and the metalized flow differential flower & March Miller and March Miller & March Miller

Figure 2. Runoff comparison of West Branch and Ranch Brook during the 2001 spring snowmelt.

in July 2001.





