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- Flat topography
- Water evaporates more slowly in cold climates
- Sphagnum and feathermoss store water, prevent evaporation, and form peat which prevents drainage
- Permafrost prevents drainage and stores water

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Effects of Boreal Forest Succession of	n
Annual Water and Carbon Fluxes	

Burn Year	Age of	Leaf Area	Transpiration	NPP	
	Stand	Index	(mm yr <sup>-1</sup> )	(g m <sup>-2</sup> yr <sup>-1</sup> )	
1989	11	0.4	24	189	
1981	20	1.4	97	521	
1964	36	2.0	224	373	
1930	80	7.5	332	295	
1850	150	6.1	183	229	
Annual Precipitation Medicine Bow Mountains Annual Transpiration ~ 200 mm					

= 400 mm

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with LAI = 7.3 and Annual Precipitation = 580 mm 28 B. Ewers, unpublished data