

Ramsey Carter
Snow Collector

If you cover a snow collector with a thin, clear, plastic membrane after it snows will it reduce the sublimation loss? My science fair project's purpose is to solve this question. To repeat my project you would need to first design the snow collector. I used a CAD program called SolidWorks. After designing the project then you need to cut the pieces of wood to the length and size determined by the design. Assemble the pieces according to your in a fashion that will hold together under great weight and strain. Paint the whole snow collector to prevent water from being absorbed into the wood. If the water did get absorbed it would create another variable and if it froze it could tear the wood apart. Next, silicone all of the joints on the inside of the roof simulator so that water doesn't collect in the crevices; and skew the results. My hypothesis is that the sublimation loss will be diminished greatly by covering the snow collector in a thin, clear, plastic membrane. From all three snow falls combined, the control group's amount of runoff collected was equal to 68% of the covered group's snow melt collected.