

Sample summary & critique papers

These examples are reproduced from Writing in Biology, 2004. Jan Pechenik, Tufts University.

Explanatory text following examples by BC O'Donnell
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1) Example Summary of Primary Research Paper

Van der Laak, S. 1982. Physiological adaptations to low temperature in freezing-tolerant *Phyllodecta laticollis* beetles. *Comp. Biochem. Physiol.* 73A: 613-620.

Adult beetles (*Phyllodecta laticollis*), found in Norway, are exposed to sub-zero temperatures in the field throughout the year. In general, organisms that tolerate freezing conditions either produce extracellular nucleating agents that trigger ice formation outside the cells rather than within them or they produce biological antifreezes, such as glycerol, that lower the freezing point of the blood and tissues to below that of the environment, thereby preventing ice formation. This study (Van der Laak, 1982) documents the tolerance of *P. laticollis* to below-freezing temperatures and determines how seasonal shifts in the temperature tolerance of these beetles are mediated. Beetles were collected throughout the year and frozen to temperatures as low as -50°C; post-thaw survivorship was then determined. Determinations were also made of the concentrations of solutes in the blood (that is, blood osmotic concentration), total water content, amino acid and glycerol concentrations in the blood, presence of nucleating agents in the blood, and the temperature to which blood could be super-cooled before it would freeze. The temperature tolerance of *P. laticollis* varied from about -9°C in summer to about -42°C in winter; this shift in freezing tolerance was paralleled by a dramatic winter increase in glycerol concentration and in total blood osmotic concentration. Amino acid concentration also increased in winter, but the contribution to blood osmolarity was small compared to that of glycerol. Nucleating agents were present in the blood year-round, ensuring that ice formation will occur extracellularly rather than intracellularly, even in summer.

For beetles collected in midwinter and early spring, blood glycerol concentrations could be artificially reduced by warming beetles to 23°C (room temperature) for about 24-150h. When glycerol concentrations of spring and winter beetles were reduced to identical levels by warming, the spring beetles tolerated freezing better than the winter beetles; these differences in tolerance could not be explained by differences in amino acid concentrations. This result indicates that some other factors, as yet unknown, are also involved in determining the freezing tolerance of these beetles.

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density of cs 7 85 g cm³ the volume of water required for hydro testing is estimated as $\pi \times \text{pipe id in meter}^2 \times \text{length of pipe}$

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web determine the required pipe size of each section and outlet of the piping system shown in figure a 6 1 with a designated pressure drop of 0 5 inch w c 125 pa using the longest length method the gas to be used has 0 60 specific gravity and a heating value of 1 000 btu ft³ 3 37 5 mj m³ solution maximum gas demand for outlet a the length of pipe