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Cover: Efforts to use surface water management to reduce or redistribute elephants in some reserves that have suffered from high elephant density have been hindered by challenges in predicting water dependence for a particular population. Dunkin et al. (pp. 2939–2952) investigated the physiological basis for the elephant's dependence on surface water. They found that elephants rely extensively on evaporative cooling to maintain thermal balance but that elephant water budgets are strongly dependent on climate. They conclude that physiological modeling of water use for a particular population would be a useful approach in the evaluation of potential surface water management schemes.

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