The Australian Natural Disaster Resilience Index

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Natural hazard management policy directions in Australia – and indeed internationally – are increasingly being aligned to ideas of resilience. Resilience to natural hazards is the ability of individuals and communities to cope with disturbance and adversity and to maintain adaptive behaviour. Operationalizing the measurement and assessment of disaster resilience is often undertaken using a composite index, but this exercise is yet to be undertaken in Australia. The Australian Natural Disaster Resilience Index is a top-down, national scale assessment of the resilience of communities to natural hazards. Resilience is assessed based on two sets of capacities: coping and adaptive capacities. Coping capacity relates to the factors influencing the ability of a community to prepare for, absorb and recover from a natural hazard event. Adaptive capacity relates to the arrangements and processes that enable adjustment through learning, adaptation and transformation. Indicators are derived under themes of social character, economic capital, infrastructure and planning, emergency services, community capital, information and engagement and governance/leadership/policy, using existing data sets (e.g. census data) or evaluation of policy and procedure (e.g. disaster management planning). A composite index of disaster resilience is then computed for each spatial division, giving national scale coverage. The results of the Australian Natural Disaster Resilience Index will be reported in a State of Disaster Resilience report, due in 2018. The index is co-designed with emergency service agencies, and will support policy development, planning, community engagement and emergency management.