

The Upland Slopes

The Upland Slopes extends across the southern hills and valleys of the Goulburn Broken Catchment. The landscape is typified by large old scattered trees within winding valleys, meandering between often forested hillsides. This includes the towns of Yea, Mansfield, and Alexandra.

The Taungurung were the first people of the rivers, valleys and mountains in this region. Before European settlement, the hills were covered in forests and open grassy woodlands dominated the valleys. More recently, this area has been dominated by agricultural land and natural events, such as drought and fire shape the landscape.

Many waterways yield good quality and quantity of water, which provides economic (agriculture and tourism), ecological and social (lifestyle and recreational (boating, fishing)) services. The remaining native vegetation is valued for the ecosystem services as well as economic (tourism, forestry) and social (recreation and lifestyle) values it provides. Agricultural production is valued, but the lifestyle opportunities of this area are increasingly appreciated by full-time and occasional residents.

The future aspiration for the Upland Slopes is an area of inspired and diverse community participating widely in sustainable agriculture and lifestyle land-use, for conservation, production and tourism outcomes.

The Challenges Ahead

Several connected drivers of change pose significant threats to this region's ecosystem.

Climate variability led to unprecedented bushfires in 2006 and 2009, challenging the resilience of the area's environment and people. The capacity of individuals and community organisations to address the legacy of these bushfires, as well as other challenges such as floods and drought, is of significant concern.

Populations of many native species of flora and fauna also remain vulnerable as a result of the bushfires.

Nutrient laden run-off as result of land-use changes, including agriculture practices and the increase in "lifestyle" developments is also significant.

Climate variability and stock and domestic demand is threatening groundwater yield particularly as lifestyle developments expand into the upper parts of this area.

Although water policy reforms are considering the suite of ecosystem services provided by waterways, regulation of the waterways for multiple purposes, especially downstream supply, limits operation of the waterways in terms of water quality and ecological benefits.

Constrains to the delivery of environmental water are being considered.

Although the Upland Slopes have large areas of native vegetation, especially on public land, agricultural practices and land-use changes, including subdivision, on private land is threatening to result in the crossing of several biodiversity habitat thresholds, especially fragmentation, connectivity and fire frequency, and riparian width thresholds (for cleaning water).

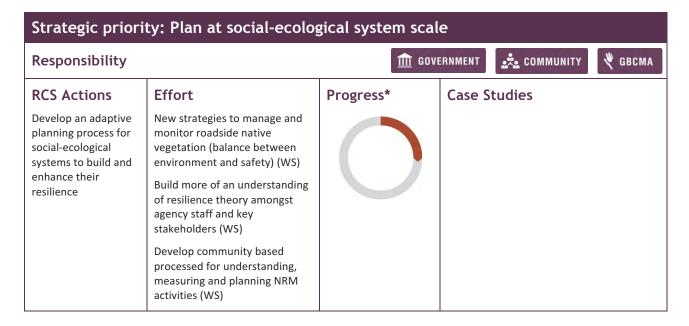
Short-term agricultural production objectives (i.e. to produce more and different crops) and long-term native biodiversity objectives (i.e. establish corridors of vegetation) are not always easy to align in this area and there is risk that managing this may be made more difficult by drivers of change such as climate variability and increased farm production.

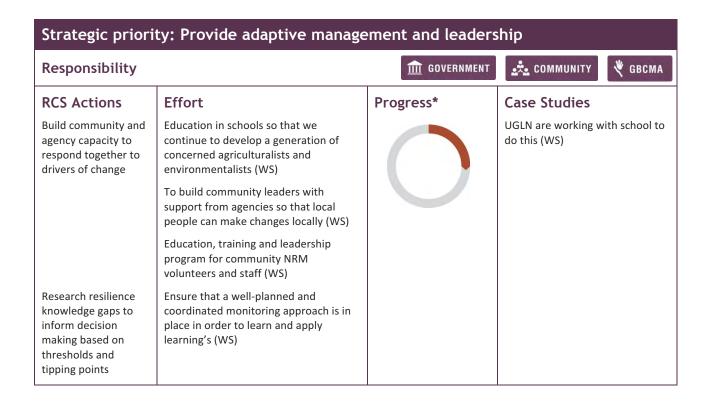
Land-use changes and the make-up of the population, including absentee landownership of near 50 per cent in some local government areas is creating difficulty in establishing networks between communities and agencies and reinforcing accountabilities at all levels.

Actions and Effort - Embed the resilience approach

*Progress rating is an indicative qualitative assessment, these will be further refined through data analysis, stakeholder and community consultation.







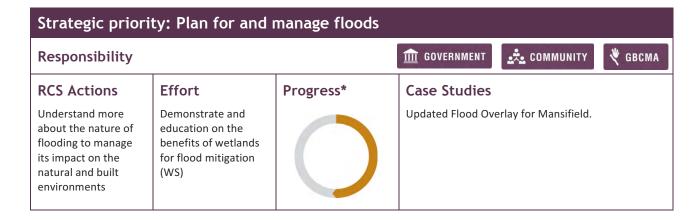
Actions and Effort - To Strengthen Partnerships



Responsibility		IIII GOVERNMENT	<u>.</u>	🤻 GBCN
RCS Actions	Effort	Progress*	Case Studies	
Undertake works on public land and Crown land frontages to improve waterways and wetlands	Promote ongoing relationships between public land managers and other stakeholders (WS) Value ecosystem services provided by forested public land and manage for multiple benefits e.g. water quality and quantity, carbon storage, tourism and recreation (WS)			
Collaborate with Traditional Owners in catchment management	Investigate employment opportunities for TO in NRM (WS)			

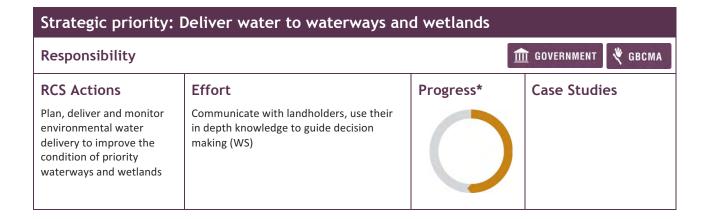
Actions and Effort - Adapt to land-use change

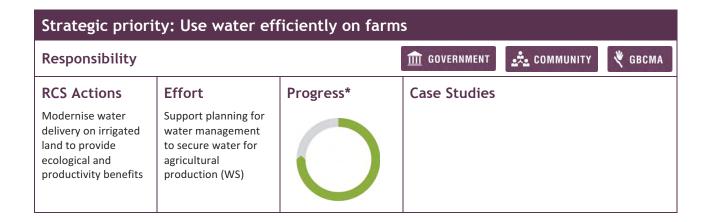
Strategic priority: Capture opportuntites from land development Responsibility **IIII** GOVERNMENT **GBCMA RCS Actions Effort** Progress* **Case Studies** Plan land-use to Identify high value assets and potential biodiversity minimise loss of corridors in lifestyle areas and assist local government biodiversity in the development of appropriate tools to include biodiversity in planning decisions (RCS) Address erosion, sedimentation and other pollution sources to waterways (RWS) Assist local government to develop and apply appropriate planning tools for all council plans and strategies (e.g. Municipal Strategic Statement review, policies, & overlays) to increase the protection and reduce risks to biodiversity (e.g., matching land use intensity to land characteristics) (BS 2010) Strategic Land use planning for native vegetation off setting – Local Government over the counter Native Vegetation off setting program (WS) Manage public land to Partner agencies to become more involved in meetings minimise loss of that are making land management decisions (RCS) biodiversity Influence forest management including timber harvesting to achieve improved biodiversity outcomes, when opportunities arise such as during reviews of relevant state legislation and policy. Work with local forest planners (BS 2010) Promote land-use Promote Whole Farm Planning program (including as a capability assessments way to better protect biodiversity) (CNRMAP 2013) and implementation, Incorporate into the Victorian Planning provisions the including use and requirement for land management plans to be management of water provided as subdivision stage (WS)



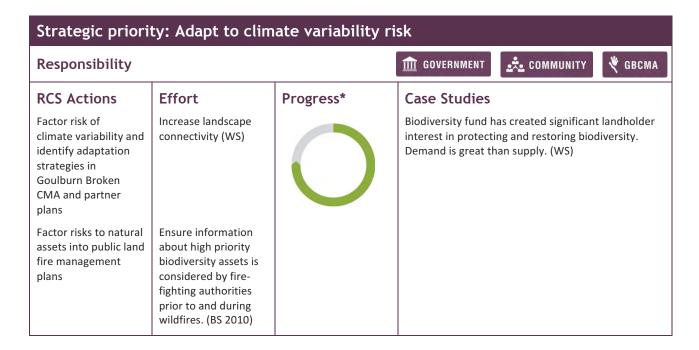
Actions and Effort - Adapt to water policy reform

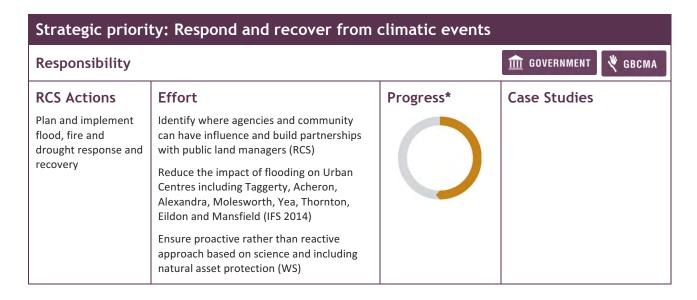
Strategic priority: Influence regional water policy 🤻 GBCMA Responsibility **Case Studies Effort** Progress* **RCS** Actions Influence water policy Continued community, DEPI, Goulburn development and Broken CMA, industry and water authority implementation to secure partnerships to provide balanced and water for improving natural informed input into policy development asset condition and social and economic wellbeing Work with Goulburn Murray Water and Mansfield Shire Council DEPI to integrate the management of domestic waste water plan surface and ground water for the benefit of adopted. 53 actions to be groundwater dependent ecosystems and implemented. No funding aquatic species and communities (BS 2010) to do so (WS) Set limits for extraction in the Strathbogie Ranges including from waterways, ground water, bogs and via farm dams. There is a need to be supported by education and science. (WS) Identify and manage key areas likely to Create opportunities for provide refuge in the face of climate community leaders to contribute to water policy change, including the prioritisation of wetlands for environmental watering (BS 2010)

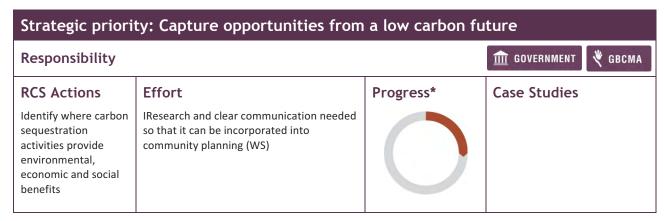




Actions and Effort - Adapt to climate variability







Actions and Effort - To adapt to increased farm production



Strategic priority: Increace biodiversity in agricultural landuse

Responsibility

IIII GOVERNMENT





RCS Actions

Create awareness and acceptance of land management practices that protect and improve terrestrial and aquatic habitat

Effort

Increase biodiversity along minor waterways for benefits downstream (WS)

Quantify and educate landholders regarding production benefits of good riparian management. Also need to secure funding to implement (WS)

Use the vast knowledge of aging agency staff to educate landholders about the benefits to productive farming when biodiversity is increased. Often incentive are need for practise change (WS)

Identify environmental stewardship opportunities for land managers Develop an education campaign that focuses on increasing knowledge and acceptance of the need for biodiversity conservation (RCS)

Provide incentives for landholder stewardship (active management for conservation) (BS 2010)

Promote benefits of strategic, whole-of-farm grazing management that promote both biodiversity and production (Apply learning's from previous projects such as the Farm Business and Biodiversity Project, Green Graze, and Hill Country Environmental Management Incentives) (BS 2010)

Work with landholders to protect and improve biodiversity on private land and build understanding of its contribution to sustainable and profitable farming

Provide landholders with information and/or incentives to improve the condition of terrestrial, riparian and wetland habitat (RCS)

Manage erosion so that sediment load is reduced and productive land maintained (WS)

Progress*



Case Studies

The Pasture Cropping project has been a great success for the Gecko CLaN.

Support projects like the Grey-Crowned Babbler

Woodland tender project 1500Ha on private land

The GB CMA SoilCare
Program promotes soil
management plus better
patures equals quality stock
for selling.

Strategic priority: Establish sustainable agricultural practices Responsibility **IIII** GOVERNMENT <u>.</u>♣. COMMUNITY **GBCMA RCS Actions Effort** Progress* **Case Studies** Educate landowners of their Gecko Clan is practising mosaic Create awareness and responsibilities (WS) burning with Yorta Yorta acceptance of sustainable Develop a series of workshops for management landholders with holding under 250 acres practices to improve on soil health, weed management and land and soil ID, fire prevention and planning (WS) condition Encourage research and development of **Gecko Clan Pasture** small acreage farming so that regional Cropping promotes ground cover. production is enhanced despite sub-The GB CMA SoilCare program division of land (WS) promotes 100% ground cover all year round. Embrace new sustainable The GB CMA SoilCare Program technologies/land use modelling systems have run a series of forums highlighting the importance of (WS organic matter in the soil, Composting and high level speakers promote whole of farm practices.

Additional Actions and Effort

- Community keen to see forestry undertaken sustainably (L&B Team engagement engagement)
- Use biodiversity information and knowledge to identify spatial priorities at the landscape-scale (e.g. existing and proposed bio links) (BS 2010)
- Some community concern over the economic impact of native animals on agriculture e.g., Kangaroos (L&B Team engagement)
- Community keen to see government take action on landholders undertaking poor land management practise particularly where they impact on others (L&B Team engagement)
- Undertaken pest plant and animal actions e.g. Blackberries, Paterson's Curse, Bridal Creeper, Foxes, Goats and Rabbits (L&B Team engagement, CNRMAP 2013)
- International investors buying up arable land purely for long term investment (WS)