

Investment area 5: Flood protection

Program	percent progress against tasks scheduled to be completed		Comments
	by 2012	by 2009	
Asset management	70	70	The development of the new Victoria Flood Management Strategy may include a way forward in relation to levees.
Flood studies and floodplain management plans	60	80	All high priority studies are completed or progressing. Low priority studies are unlikely to proceed. Some lower priority studies have also been completed. Areas which have undergone major investigations since 2002 include Benalla, Shepparton, Nathalia, Tatura, Violet Town, Yea, Tallarook, Mansfield, Merrigum, Seymour, lower Goulburn, River Murray region, Barnah-Millewa, and Numurkah and the Goulburn Broken flood level declaration. These complemented previous studies on the Goulburn Broken flood level reconnaissance, Euroa, Seymour and Jamieson. Many study recommendations have been implemented. Numurkah is underway, and new initiatives include Barnah Township preliminary detailed flood mitigation review and Shepparton overland stormwater flood investigation.
Floodplain works	70	70	Started to accelerate in 2006-07 and continuing. Euroa and Nathalia are still progressing with addition funding approved 2008/09. Benalla is largely complete with some acquisition of Urban Floodway Zone areas. Seymour preliminary detailed design review is progressing with consultation to follow. Shepparton Mooroopna Emergency Flood Warning arrangement finalised. Works on Public Works Department levees carried out on behalf of DSE.
Statutory land use planning	75	100	<p>Planning reforms gazetted into five municipal planning schemes, including updated mapping, strategic statement, schedules and local floodplain management plans for Campaspe, Greater Shepparton, Murrindindi, Mitchell and Strathbogie shires. Murrindindi introduced further flood amendment 2009. Mansfield is ready to advertise. These initiatives ensure flood risk are managed and to streamline planning referrals and remove the need for unnecessary referrals.</p> <p>The 100-year annual return interval flood levels have been gazetted for Benalla, Euroa, Seymour, Shepparton and Mooroopna following public exhibition. Further flood level declarations gazetted for Jamieson, Mansfield, Yea, Merrigum, Tatura and Nathalia.</p> <p>Flood Atlas was launched late 2008 showing integrated flood level information for about 85% flood all known floodplain areas within the Goulburn Broken CMA.</p>
Infill (improve) flood mapping	75	100+	Priority areas surrounding urban centres have been included in most planning schemes. Flood mapping within most rural areas have been reviewed during planning scheme amendment exhibition. Considerable field inspection with community consultation has improved flood mapping. Improved flood mapping in remote rural areas is reliant on flood data capture including flood photography and flood levels. Lack of ground level data is the largest and most expensive impediment that prevents improved flood mapping. As more digital terrain information is captured, flood mapping improvements may follow. Given little demand on development in remote areas priority will remain low and unlikely to be reviewed. New GIS techniques are being trialled to improve accurate flood mapping. New mapping including the River Murray and lower Goulburn regional areas incorporated into the Moira planning scheme review.
Development assessment guidelines	100	100	This is strongly linked to program 3. Ongoing reviews are needed. Input into Victoria best practice and policy manual will commence 2008/09.
Control of works and activities	N/A	100	This is no longer regarded as a program and it highlights the number of tools available.
Emergency response planning	20	100	The North East Regional Monitoring Network Agreement (2005) has largely resolved many of the issues listed in the strategy. Municipal Emergency Management Plans Flood Sub Plan requires significant work across the GB CMA. Four major flood warning upgrades have been installed at Benalla, Euroa, Eildon to Seymour and recently Shepparton-Mooroopna.
Flood monitoring action	80	100	GB CMA has developed GIS platform integrating flood intelligence and stream gauge related flood mapping which has been tested.
Information management systems	70	100	GIS platform developed to provide access to documents. GB CMA portal now provides access for staff of the floodplain library, and floodplain management file predating the GB CMA.
Education and communication	40	100	Has started, with an emphasis on Lake Mokoan. The program was widened with a heightened profile again this year. GB CMA is leading continuing the development of a statewide flood web-portal (floodvictoria), with consultant engaged in July 2007.